

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. [333084]
2. Name of Operator [229137]		9. API Well No. 30-025-50381
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [98248]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

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

NGMP Rec 06/23/2022

SL

(Continued on page 2)



Approval Date: 06/22/2022

KZ
07/26/2022

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 685 FNL / 1275 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193747 / LONG: -103.709358 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.195344 / LONG: -103.712275 (TVD: 11930 feet, MD: 11992 feet)

BHL: SWSE / 50 FSL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.16672 / LONG: -103.712223 (TVD: 12067 feet, MD: 22087 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 703H
SURFACE HOLE FOOTAGE:	685'/N & 1275'/E
BOTTOM HOLE FOOTAGE:	50'/N & 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 **805** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

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

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

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

A. CASING

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

B. PRESSURE CONTROL

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

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 051722

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

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-0720

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) 478-3460 Fax: (505) 478-3462

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

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

☐ AMENDED REPORT

WC-025 G-08
S243217P;UPR WC

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 50381	Pool Code 98252 98248	Pool Name Mesa Verde Wolfcamp
Property Code 333084	Property Name WINDWARD FEDERAL	Well Number 703H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3550.3'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	32-E		685	NORTH	1275	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	31	24-S	32-E		50	SOUTH	2178	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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

POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=435477.4 N X=735627.9 E</td></tr> <tr><td>2</td><td>Y=432838.9 N X=735641.2 E</td></tr> <tr><td>3</td><td>Y=430198.2 N X=735662.0 E</td></tr> <tr><td>4</td><td>Y=427560.0 N X=735684.2 E</td></tr> <tr><td>5</td><td>Y=424920.7 N X=735705.1 E</td></tr> <tr><td>6</td><td>Y=424886.2 N X=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>	1	Y=435477.4 N X=735627.9 E	2	Y=432838.9 N X=735641.2 E	3	Y=430198.2 N X=735662.0 E	4	Y=427560.0 N X=735684.2 E	5	Y=424920.7 N X=735705.1 E	6	Y=424886.2 N X=733060.2 E	7	Y=430176.4 N X=733021.2 E	8	Y=435450.5 N X=732978.6 E	LOT 1 46.01 Ac LOT 2 46.13 Ac LOT 3 46.22 Ac LOT 4 46.30 Ac SECTION 30 SECTION 31 LOT 1 46.43 Ac LOT 2 46.52 Ac LOT 3 46.55 Ac LOT 4 46.76 Ac	100' FNL & 2178' FEL Y=435355.3 N X=733450.5 E LAT.=32.195344° N LONG.=103.712275° W GRID AZ. TO FTP 302°26'27" S.L. 1275' NAD 83 NME SURFACE LOCATION Y=434779.4 N X=734356.4 E LAT.=32.193747° N LONG.=103.709358° W GRID AZ. = 179°34'47" HORZ. DIST. = 10413.2' 100' FSL & 2178' FEL Y=424992.3 N X=733526.5 E LAT.=32.166857° N LONG.=103.712223° W NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=424942.3 N X=733526.9 E LAT.=32.166720° N LONG.=103.712223° 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. Hargrow</i> 12/3/20 Certificate No. CHAD HARGROW 17777 W.O. # 20-1594 DRAWN BY: WN
1	Y=435477.4 N X=735627.9 E																		
2	Y=432838.9 N X=735641.2 E																		
3	Y=430198.2 N X=735662.0 E																		
4	Y=427560.0 N X=735684.2 E																		
5	Y=424920.7 N X=735705.1 E																		
6	Y=424886.2 N X=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 703H

Kick Off Point (KOP)

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

First Take Point (FTP)

UL B	Section 30	Township 24S	Range 32E	Lot	Feet 100	From N/S North	Feet 2178	From E/W East	County Lea
Latitude 32.195344					Longitude -103.712275				NAD 83

Last Take Point (LTP)

UL O	Section 31	Township 24S	Range 32E	Lot	Feet 100	From N/S South	Feet 2178	From E/W East	County Lea
Latitude 32.166857					Longitude -103.712223				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 702H

KZ 06/29/2018

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 06/22/2022

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

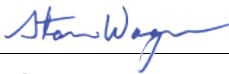
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

COG Operating, LLC - Winward Federal Com #703H

1. Geologic Formations

TVD of target	12,067' EOL	Pilot hole depth	NA
MD at TD:	22,088'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	763	Water	
Top of Salt	1060	Salt	
Base of Salt	4384	Salt	
Lamar	4624	Salt Water	
Bell Canyon	4657	Salt Water	
Cherry Canyon	5567	Oil/Gas	
Brushy Canyon	6875	Oil/Gas	
Bone Spring Lime	8522	Oil/Gas	
1st Bone Spring Sand	9629	Oil/Gas	
2nd Bone Spring Sand	10230	Oil/Gas	
3rd Bone Spring Sand	11502	Oil/Gas	
Wolfcamp	11943	Target Oil/Gas	
Wolfcamp B	12429	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1010	10.75"	45.5	N80	BTC	5.47	1.58	22.63	23.87
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.16	2.88	2.90
8.750"	8500	11472	7.625"	29.7	HCP 110	TL-FJ	1.26	1.20	2.76	1.93
6.75"	0	11272	5.5"	23	P110	BTC	1.93	2.30	2.63	2.61
6.75"	11272	22,088	5.5"	23	P110	Talon HTQ	1.93	2.30	2.63	2.55
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

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

COG Operating, LLC - Winward Federal Com #703H

	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 #703H

3. Cementing Program

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,000'	35%

COG Operating, LLC - Winward Federal Com #703H

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 #703H

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 #703H**7. Drilling Conditions**

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

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

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

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

8. Other Facets of Operation

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

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

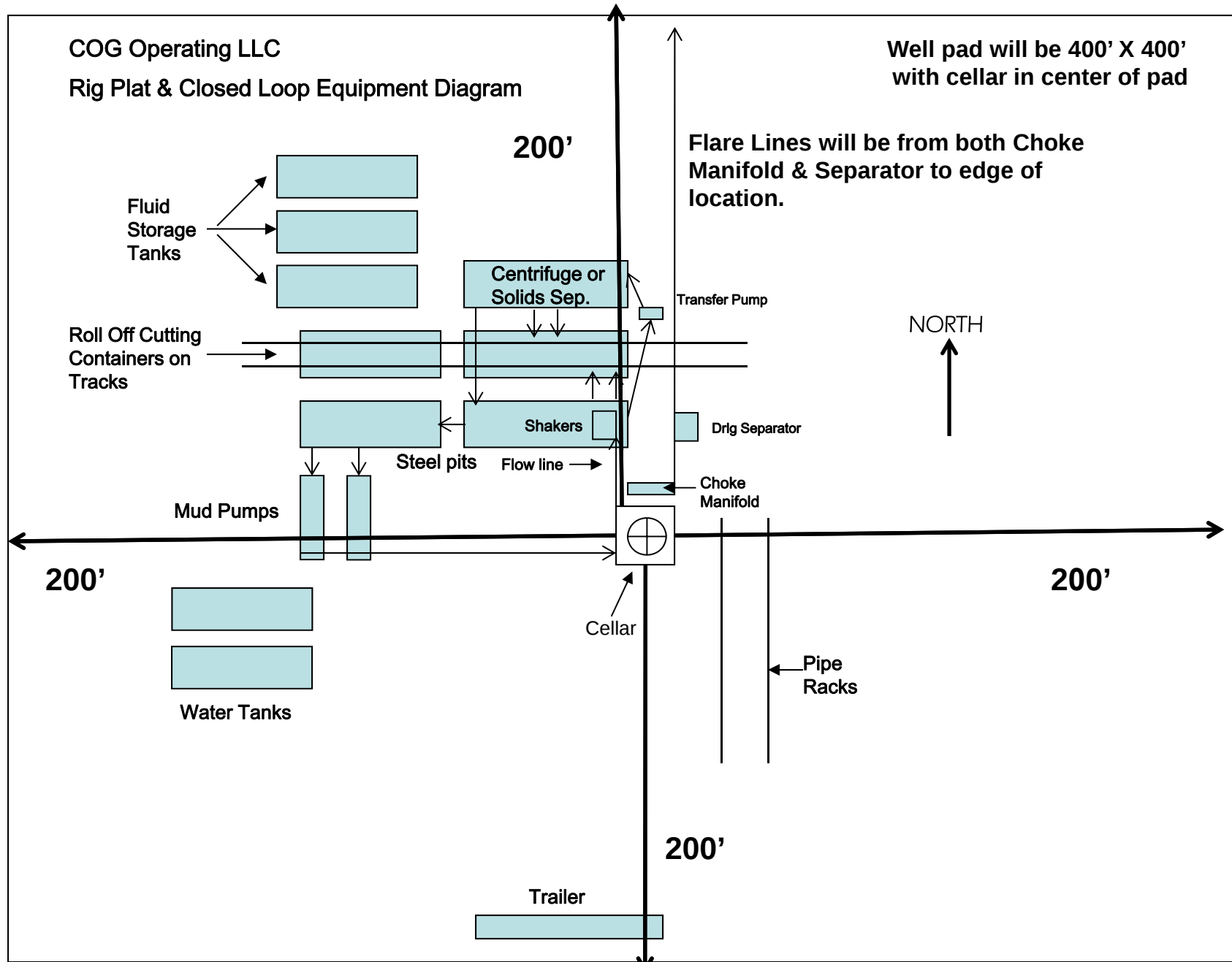


Exhibit 1

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

DELAWARE BASIN EAST
BULLDOG PROSPECT (NM-E)
WINDWARD FEDERAL PROJECT (BULLDOG 2432)
WINDWARD FED #703H

OWB
PWP1

Anticollision Report

11 December, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 2,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/11/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,627.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,627.0	22,087.8	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 #3H - OWB - ACTUAL WELLPATH	8,508.5	8,612.0	673.0	635.5	17.938	CC, ES, SF
PADUCA 30 FEDERAL #1 - OWB - INC ONLY - WELLPATH	13,550.4	12,057.4	193.8	-136.5	0.587	Stop Drilling Now, CC, ES
WINDWARD FED #701H - OWB - PWP1	2,500.0	2,499.7	60.0	53.1	8.699	CC, ES, SF
WINDWARD FED #702H - OWB - PWP1	2,539.0	2,539.2	30.0	23.1	4.332	CC
WINDWARD FED #702H - OWB - PWP1	2,600.0	2,600.2	30.0	23.1	4.304	ES
WINDWARD FED #702H - OWB - PWP1	2,700.0	2,700.0	30.7	23.6	4.284	SF
WINDWARD FEDERAL #10H - OWB - ACTUAL WELLPATH	9,157.0	9,277.0	312.6	295.7	18.509	CC, ES
WINDWARD FEDERAL #10H - OWB - ACTUAL WELLPATH	9,400.0	9,340.0	389.5	363.2	14.829	SF
WINDWARD FEDERAL #11H - OWB - ACTUAL WELLPATH	8,900.0	9,389.8	695.2	671.1	28.864	SF
WINDWARD FEDERAL #11H - OWB - ACTUAL WELLPATH	9,140.1	9,435.6	653.7	631.3	29.180	CC, ES
WINDWARD FEDERAL #3H - OWB - ACTUAL WELLPATH	10,548.0	10,602.5	443.2	427.3	28.005	CC, ES
WINDWARD FEDERAL #3H - OWB - ACTUAL WELLPATH	21,900.0	20,362.7	1,567.9	1,392.8	8.954	SF
WINDWARD FEDERAL #9H - OWB - ACTUAL WELLPATH	8,970.0	8,924.6	563.2	545.2	31.389	CC, ES
WINDWARD FEDERAL #9H - OWB - ACTUAL WELLPATH	9,500.0	9,188.6	693.0	667.9	27.596	SF

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - KING TUT FEDERAL #3H - OWB - ACTUAL W												Offset Site Error: 0.0 usft	
Survey Program: 196-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	5.1	5.1	3.0	2.0	-62.36	485.6	-927.1	1,046.6				
100.0	100.0	106.7	106.7	3.0	2.1	-62.34	485.8	-926.9	1,046.5	1,041.4	5.08	205.851	
200.0	200.0	208.0	208.0	3.0	2.4	-62.29	486.4	-926.3	1,046.3	1,041.0	5.30	197.422	
300.0	300.0	308.1	308.0	3.0	2.7	-62.25	487.1	-925.6	1,046.0	1,040.4	5.56	188.202	
400.0	400.0	407.9	407.9	3.0	2.9	-62.21	487.5	-925.0	1,045.6	1,039.9	5.76	181.626	
447.4	447.4	452.4	452.4	3.0	2.9	-62.20	487.6	-924.9	1,045.6	1,039.7	5.83	179.194	
500.0	500.0	504.3	504.2	3.1	3.0	-62.20	487.7	-924.9	1,045.6	1,039.7	5.93	176.259	
600.0	600.0	606.7	606.7	3.1	3.3	-62.17	488.1	-924.6	1,045.5	1,039.4	6.16	169.642	
700.0	700.0	708.6	708.6	3.1	3.6	-62.13	488.6	-924.1	1,045.3	1,038.8	6.47	161.610	
800.0	800.0	808.4	808.4	3.2	3.8	-62.12	488.6	-923.6	1,044.9	1,038.2	6.76	154.686	
900.0	900.0	905.5	905.5	3.2	4.1	-62.13	488.4	-923.5	1,044.7	1,037.7	7.03	148.646	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
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Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL W													Offset Site Error:	0.0 usft
Survey Program: 196-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		
917.0	917.0	922.0	922.0	3.2	4.1	-62.13	488.4	-923.5	1,044.7	1,037.6	7.07	147.675		
1,000.0	1,000.0	1,005.0	1,005.0	3.2	4.4	-62.14	488.2	-923.7	1,044.7	1,037.4	7.34	142.410		
1,049.9	1,049.9	1,055.0	1,054.9	3.3	4.6	-62.15	488.1	-923.7	1,044.7	1,037.2	7.50	139.333		
1,100.0	1,100.0	1,104.1	1,104.1	3.3	4.7	-62.16	487.9	-923.8	1,044.8	1,037.1	7.65	136.512		
1,200.0	1,200.0	1,205.0	1,205.0	3.4	5.0	-62.19	487.5	-924.1	1,044.8	1,036.9	7.98	130.912		
1,300.0	1,300.0	1,305.3	1,305.3	3.4	5.3	-62.20	487.3	-924.2	1,044.8	1,036.5	8.31	125.720		
1,400.0	1,400.0	1,406.8	1,406.8	3.5	5.6	-62.20	487.2	-924.2	1,044.7	1,036.1	8.64	120.970		
1,500.0	1,500.0	1,506.7	1,506.7	3.5	5.9	-62.19	487.3	-923.9	1,044.5	1,035.5	9.00	116.063		
1,600.0	1,600.0	1,607.1	1,607.0	3.6	6.3	-62.18	487.5	-923.6	1,044.4	1,035.0	9.38	111.322		
1,700.0	1,700.0	1,711.0	1,711.0	3.7	6.6	-62.16	487.6	-923.1	1,043.9	1,034.2	9.78	106.741		
1,800.0	1,800.0	1,809.7	1,809.7	3.8	6.9	-62.12	487.9	-922.4	1,043.5	1,033.3	10.16	102.671		
1,900.0	1,900.0	1,910.2	1,910.2	3.9	7.3	-62.05	488.9	-921.3	1,043.0	1,032.4	10.55	98.839		
1,986.6	1,986.6	1,991.7	1,991.6	3.9	7.6	-61.97	490.0	-920.3	1,042.6	1,031.8	10.87	95.940		
2,000.0	2,000.0	2,002.7	2,002.6	3.9	7.6	-61.96	490.2	-920.2	1,042.6	1,031.7	10.91	95.570		
2,100.0	2,100.0	2,088.4	2,088.3	4.0	7.9	-61.90	491.6	-920.5	1,043.7	1,032.5	11.23	92.924		
2,200.0	2,200.0	2,188.5	2,188.4	4.1	8.3	-61.80	494.0	-921.2	1,045.4	1,033.8	11.59	90.167		
2,300.0	2,300.0	2,295.5	2,295.4	4.2	8.6	-61.63	497.3	-920.9	1,046.6	1,034.7	11.99	87.302		
2,400.0	2,400.0	2,400.1	2,399.9	4.3	9.0	-61.49	499.8	-920.3	1,047.2	1,034.9	12.39	84.550		
2,500.0	2,500.0	2,500.8	2,500.6	4.4	9.3	-61.36	502.2	-919.5	1,047.7	1,034.9	12.78	82.002		
2,600.0	2,600.0	2,610.9	2,610.7	4.5	9.7	-61.19	504.9	-918.1	1,047.8	1,034.6	13.21	79.320		
2,700.0	2,700.0	2,709.5	2,709.3	4.6	10.1	-61.11	505.9	-916.9	1,047.2	1,033.6	13.62	76.913		
2,800.0	2,800.0	2,814.5	2,814.3	4.7	10.4	-61.06	506.4	-915.9	1,046.6	1,032.6	14.05	74.507		
2,900.0	2,900.0	2,914.7	2,914.4	4.8	10.8	-61.01	506.8	-914.7	1,045.7	1,031.3	14.46	72.300		
2,973.0	2,973.0	2,978.3	2,978.0	4.9	11.0	-61.02	506.6	-914.4	1,045.4	1,030.6	14.74	70.917		
3,000.0	3,000.0	3,001.7	3,001.4	4.9	11.1	-61.03	506.3	-914.6	1,045.4	1,030.6	14.84	70.433		
3,100.0	3,100.0	3,099.5	3,099.2	5.0	11.5	-61.12	505.1	-915.9	1,045.9	1,030.6	15.33	68.236		
3,200.0	3,200.0	3,198.0	3,197.7	5.1	11.8	-61.18	504.5	-916.9	1,046.6	1,030.8	15.72	66.571		
3,300.0	3,300.0	3,299.7	3,299.4	5.2	12.1	-61.16	505.0	-917.3	1,047.2	1,031.0	16.12	64.975		
3,400.0	3,400.0	3,391.1	3,390.8	5.3	12.4	-61.19	505.1	-918.3	1,048.1	1,031.6	16.50	63.520		
3,500.0	3,500.0	3,487.9	3,487.6	5.4	12.7	-61.25	504.8	-920.1	1,049.6	1,032.7	16.93	61.997		
3,600.0	3,600.0	3,587.3	3,587.0	5.5	13.1	-61.29	505.0	-921.9	1,051.3	1,034.0	17.33	60.658		
3,700.0	3,700.0	3,687.2	3,686.8	5.7	13.4	-61.30	505.7	-923.6	1,053.1	1,035.4	17.74	59.370		
3,800.0	3,800.0	3,798.9	3,798.5	5.8	13.8	-61.38	504.9	-925.4	1,054.2	1,036.0	18.22	57.873		
3,900.0	3,900.0	3,905.3	3,904.9	5.9	14.2	-61.54	502.5	-927.1	1,054.5	1,035.9	18.65	56.534		
4,000.0	4,000.0	4,008.9	4,008.4	6.0	14.5	-61.67	500.4	-928.0	1,054.3	1,035.2	19.06	55.317		
4,100.0	4,100.0	4,113.4	4,113.0	6.1	14.9	-61.76	498.7	-928.3	1,053.8	1,034.4	19.47	54.136		
4,200.0	4,200.0	4,232.2	4,231.7	6.2	15.3	-61.83	496.6	-927.4	1,052.3	1,032.4	19.92	52.835		
4,300.0	4,300.0	4,343.7	4,343.1	6.3	15.6	-61.95	493.0	-925.2	1,049.1	1,028.7	20.35	51.562		
4,400.0	4,400.0	4,429.7	4,429.1	6.5	15.9	-62.08	489.7	-924.1	1,046.1	1,025.4	20.70	50.541		
4,500.0	4,500.0	4,527.5	4,526.8	6.6	16.3	-62.25	486.0	-923.6	1,043.9	1,022.9	21.09	49.509		
4,600.0	4,600.0	4,618.0	4,617.2	6.7	16.6	-62.39	482.8	-923.2	1,041.9	1,020.4	21.45	48.565		
4,700.0	4,700.0	4,713.0	4,712.2	6.8	16.9	-62.51	480.5	-923.3	1,040.9	1,019.0	21.84	47.658		
4,707.2	4,707.2	4,713.0	4,712.2	6.8	16.9	-62.51	480.5	-923.3	1,040.8	1,019.0	21.85	47.646		
4,800.0	4,800.0	4,804.6	4,803.8	6.9	17.2	-62.57	479.4	-923.9	1,040.9	1,018.7	22.22	46.839		
4,900.0	4,900.0	4,903.0	4,902.2	7.0	17.6	-62.65	478.3	-924.7	1,041.1	1,018.5	22.63	46.006		
5,000.0	5,000.0	5,004.6	5,003.7	7.2	17.9	-62.75	476.7	-925.7	1,041.2	1,018.2	23.05	45.177		
5,100.0	5,100.0	5,090.0	5,089.1	7.3	18.2	-62.81	476.1	-926.8	1,042.1	1,018.7	23.41	44.506		
5,200.0	5,200.0	5,185.0	5,184.1	7.4	18.5	-62.83	476.7	-928.5	1,043.9	1,020.1	23.82	43.832		
5,300.0	5,300.0	5,282.6	5,281.7	7.5	18.9	-62.82	477.8	-930.3	1,046.1	1,021.9	24.22	43.190		
5,400.0	5,400.0	5,384.2	5,383.2	7.6	19.2	-62.81	479.0	-932.2	1,048.3	1,023.6	24.64	42.541		
5,500.0	5,500.0	5,485.8	5,484.9	7.8	19.5	-62.81	479.8	-934.0	1,050.3	1,025.2	25.06	41.903		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL W												Offset Site Error:	0.0 usft
Survey Program: 196-MWD												Offset Well Error:	2.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,600.0	5,600.0	5,585.9	5,584.9	7.9	19.9	-0.27	480.6	-935.8	1,050.4	1,024.9	25.50	41.199	
5,700.0	5,699.8	5,686.1	5,685.1	7.9	20.2	-0.26	481.7	-937.4	1,047.1	1,021.1	25.94	40.361	
5,769.4	5,769.0	5,755.4	5,754.4	8.0	20.4	-0.25	482.5	-938.4	1,042.7	1,016.4	26.25	39.720	
5,800.0	5,799.5	5,785.8	5,784.8	8.0	20.5	-0.24	482.8	-938.9	1,040.4	1,014.0	26.39	39.428	
5,900.0	5,899.0	5,898.0	5,897.0	8.1	20.9	-0.22	484.0	-940.3	1,032.7	1,005.8	26.88	38.419	
6,000.0	5,998.6	6,007.1	6,006.1	8.2	21.3	-0.16	485.1	-939.6	1,023.1	995.8	27.38	37.370	
6,100.0	6,098.1	6,110.9	6,109.8	8.3	21.7	-0.10	485.7	-938.9	1,013.4	985.5	27.85	36.382	
6,200.0	6,197.7	6,206.1	6,205.0	8.3	22.0	-0.05	486.3	-938.0	1,003.5	975.2	28.29	35.465	
6,300.0	6,297.3	6,299.0	6,298.0	8.4	22.3	-0.01	487.0	-937.7	994.2	965.4	28.72	34.615	
6,400.0	6,396.8	6,398.2	6,397.2	8.5	22.7	0.03	487.8	-937.9	985.3	956.1	29.17	33.780	
6,500.0	6,496.4	6,498.7	6,497.7	8.6	23.0	0.07	488.6	-937.9	976.3	946.7	29.62	32.961	
6,600.0	6,595.9	6,597.0	6,595.9	8.7	23.4	0.10	489.3	-938.1	967.4	937.3	30.07	32.175	
6,700.0	6,695.5	6,701.1	6,700.0	8.8	23.7	0.13	489.8	-938.1	958.3	927.7	30.53	31.383	
6,800.0	6,795.0	6,801.8	6,800.7	8.8	24.1	0.14	490.0	-938.0	948.9	917.9	31.00	30.613	
6,900.0	6,894.6	6,905.6	6,904.5	8.9	24.4	0.16	490.1	-937.6	939.2	907.7	31.47	29.841	
7,000.0	6,994.2	7,007.4	7,006.4	9.0	24.8	0.19	490.1	-936.9	929.1	897.2	31.94	29.088	
7,100.0	7,093.7	7,107.2	7,106.2	9.1	25.1	0.21	490.1	-935.9	918.9	886.5	32.41	28.354	
7,200.0	7,193.3	7,203.1	7,202.0	9.2	25.5	0.23	490.0	-935.3	908.9	876.0	32.86	27.663	
7,300.0	7,292.8	7,300.5	7,299.4	9.3	25.8	0.26	490.2	-934.9	899.2	865.9	33.31	26.995	
7,400.0	7,392.4	7,399.7	7,398.6	9.4	26.1	0.26	490.3	-934.7	889.7	856.0	33.76	26.351	
7,500.0	7,492.0	7,501.7	7,500.7	9.5	26.5	0.27	490.2	-934.4	880.1	845.8	34.23	25.708	
7,600.0	7,591.5	7,600.5	7,599.4	9.6	26.8	0.27	489.9	-934.1	870.2	835.5	34.69	25.088	
7,700.0	7,691.1	7,698.0	7,697.0	9.7	27.2	0.24	489.4	-934.1	860.6	825.5	35.13	24.497	
7,800.0	7,790.6	7,797.6	7,796.5	9.8	27.5	0.20	488.8	-934.4	851.2	815.6	35.59	23.918	
7,900.0	7,890.2	7,939.9	7,938.8	9.9	28.0	0.00	485.1	-933.7	840.6	804.4	36.19	23.226	
8,000.0	7,989.7	8,248.3	8,230.6	10.0	29.0	-5.38	396.6	-916.3	812.0	775.2	36.81	22.056	
8,100.0	8,089.3	8,375.1	8,328.7	10.1	29.5	-11.24	317.1	-911.3	772.9	735.9	37.05	20.860	
8,200.0	8,188.9	8,491.5	8,399.0	10.2	29.9	-18.78	224.6	-910.5	735.1	697.8	37.28	19.717	
8,300.0	8,288.4	8,556.1	8,427.8	10.3	30.2	-23.69	166.9	-909.9	702.7	665.2	37.48	18.748	
8,400.0	8,388.0	8,587.1	8,438.4	10.4	30.3	-26.19	137.8	-910.0	681.3	643.7	37.54	18.145	
8,500.0	8,487.5	8,608.0	8,444.3	10.5	30.4	-27.93	117.7	-910.1	673.1	635.6	37.52	17.939	
8,508.5	8,496.0	8,612.0	8,445.3	10.5	30.4	-28.25	113.8	-910.1	673.0	635.5	37.52	17.938	CC, ES, SF
8,600.0	8,587.1	8,623.1	8,447.9	10.6	30.4	-29.18	103.1	-910.2	679.1	641.6	37.48	18.118	
8,700.0	8,686.7	8,633.2	8,449.9	10.7	30.5	-30.03	93.2	-910.3	699.2	661.8	37.42	18.686	
8,800.0	8,786.2	8,644.0	8,451.8	10.8	30.5	-30.94	82.5	-910.4	732.4	695.1	37.30	19.636	
8,900.0	8,885.8	8,644.0	8,451.8	10.9	30.5	-30.94	82.5	-910.4	777.0	739.9	37.05	20.969	
9,000.0	8,985.3	8,649.6	8,452.6	11.0	30.6	-31.41	77.0	-910.5	831.2	794.4	36.76	22.609	
9,100.0	9,084.9	8,652.8	8,453.0	11.1	30.6	-31.68	73.8	-910.5	893.3	856.9	36.45	24.508	
9,200.0	9,184.4	8,660.0	8,453.8	11.2	30.6	-32.29	66.6	-910.6	961.9	925.7	36.17	26.590	
9,300.0	9,284.0	8,660.0	8,453.8	11.4	30.6	-32.29	66.6	-910.6	1,035.5	999.6	35.91	28.838	
9,400.0	9,383.6	8,660.0	8,453.8	11.5	30.6	-32.29	66.6	-910.6	1,113.2	1,077.5	35.70	31.185	
9,500.0	9,483.1	8,660.0	8,453.8	11.6	30.6	-32.29	66.6	-910.6	1,194.2	1,158.7	35.55	33.598	
9,600.0	9,582.7	8,660.0	8,453.8	11.7	30.6	-32.29	66.6	-910.6	1,278.0	1,242.5	35.45	36.046	
9,700.0	9,682.2	8,660.0	8,453.8	11.8	30.6	-32.29	66.6	-910.6	1,363.9	1,328.5	35.42	38.510	
9,800.0	9,781.8	8,660.0	8,453.8	11.9	30.6	-32.29	66.6	-910.6	1,451.6	1,416.2	35.43	40.973	
9,900.0	9,881.3	8,660.0	8,453.8	12.0	30.6	-32.29	66.6	-910.6	1,540.9	1,505.4	35.48	43.423	
10,000.0	9,980.9	8,660.0	8,453.8	12.1	30.6	-32.29	66.6	-910.6	1,631.3	1,595.8	35.58	45.852	
10,100.0	10,080.5	8,660.0	8,453.8	12.2	30.6	-32.29	66.6	-910.6	1,722.9	1,687.2	35.70	48.253	
10,200.0	10,180.0	8,660.0	8,453.8	12.4	30.6	-32.29	66.6	-910.6	1,815.3	1,779.4	35.86	50.621	
10,300.0	10,279.6	8,660.0	8,453.8	12.5	30.6	-32.29	66.6	-910.6	1,908.5	1,872.4	36.04	52.953	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -												Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-151.79		-1,302.1	-698.6	1,477.9			
100.0	100.0	75.6	75.6	3.0	3.1	-151.79		-1,302.1	-698.6	1,477.7	1,471.6	6.07	243.269
200.0	200.0	175.6	175.6	3.0	3.4	-151.79		-1,302.1	-698.6	1,477.7	1,471.3	6.38	231.467
300.0	300.0	275.6	275.6	3.0	3.9	-151.79		-1,302.1	-698.6	1,477.7	1,470.8	6.88	214.730
400.0	400.0	375.6	375.6	3.0	5.2	-151.79		-1,302.1	-698.6	1,477.7	1,469.5	8.18	180.553
500.0	500.0	475.6	475.6	3.1	6.7	-151.79		-1,302.1	-698.6	1,477.7	1,467.9	9.79	150.979
539.6	539.6	515.0	515.0	3.1	7.4	-151.78		-1,301.9	-698.6	1,477.5	1,467.0	10.45	141.342
600.0	600.0	574.7	574.7	3.1	8.4	-151.78		-1,301.9	-698.6	1,477.5	1,466.0	11.48	128.652
700.0	700.0	673.4	673.4	3.1	10.1	-151.79		-1,302.0	-698.6	1,477.6	1,464.4	13.23	111.665
800.0	800.0	775.6	775.6	3.2	12.0	-151.79		-1,302.1	-698.6	1,477.7	1,462.5	15.17	97.437
900.0	900.0	875.6	875.6	3.2	14.0	-151.79		-1,302.1	-698.6	1,477.7	1,460.5	17.15	86.141
936.5	936.5	911.3	911.3	3.2	14.7	-151.78		-1,301.6	-698.6	1,477.2	1,459.3	17.87	82.669
1,000.0	1,000.0	971.9	971.9	3.2	15.9	-151.78		-1,301.7	-698.6	1,477.3	1,458.2	19.09	77.398
1,100.0	1,100.0	1,075.7	1,075.6	3.3	17.9	-151.79		-1,302.1	-698.6	1,477.7	1,456.5	21.19	69.749
1,200.0	1,200.0	1,175.7	1,175.6	3.4	20.0	-151.79		-1,302.1	-698.6	1,477.7	1,454.4	23.30	63.409
1,293.7	1,293.7	1,269.1	1,269.1	3.4	21.9	-151.77		-1,301.3	-698.6	1,476.9	1,451.6	25.29	58.395
1,300.0	1,300.0	1,275.1	1,275.1	3.4	22.1	-151.77		-1,301.3	-698.6	1,476.9	1,451.5	25.42	58.102
1,400.0	1,400.0	1,369.7	1,369.6	3.5	24.0	-151.78		-1,301.5	-698.6	1,477.1	1,449.7	27.44	53.832
1,500.0	1,500.0	1,475.7	1,475.6	3.5	26.2	-151.79		-1,302.1	-698.6	1,477.7	1,448.0	29.71	49.739
1,600.0	1,600.0	1,575.7	1,575.6	3.6	28.3	-151.79		-1,302.1	-698.6	1,477.7	1,445.8	31.87	46.365
1,700.0	1,700.0	1,675.7	1,675.6	3.7	30.4	-151.79		-1,302.1	-698.6	1,477.7	1,443.6	34.04	43.414
1,739.8	1,739.8	1,714.5	1,714.4	3.7	31.3	-151.77		-1,301.1	-698.6	1,476.8	1,441.9	34.88	42.340
1,800.0	1,800.0	1,771.9	1,771.8	3.8	32.5	-151.77		-1,301.2	-698.6	1,476.9	1,440.7	36.13	40.879
1,900.0	1,900.0	1,867.3	1,867.2	3.9	34.5	-151.78		-1,301.7	-698.6	1,477.3	1,439.1	38.20	38.668
2,000.0	2,000.0	1,971.2	1,971.0	3.9	36.7	-151.79		-1,302.0	-698.6	1,477.6	1,437.1	40.50	36.483
2,100.0	2,100.0	2,075.8	2,075.6	4.0	39.6	-151.79		-1,302.1	-698.6	1,477.7	1,434.2	43.44	34.016
2,200.0	2,200.0	2,175.8	2,175.6	4.1	42.4	-151.79		-1,302.1	-698.6	1,477.7	1,431.3	46.38	31.859
2,237.9	2,237.9	2,212.2	2,211.9	4.1	43.5	-151.77		-1,301.0	-698.6	1,476.7	1,429.3	47.45	31.121
2,300.0	2,300.0	2,270.1	2,269.9	4.2	45.1	-151.77		-1,301.2	-698.6	1,476.9	1,427.7	49.16	30.042
2,400.0	2,400.0	2,363.5	2,363.3	4.3	47.8	-151.78		-1,301.9	-698.6	1,477.5	1,425.6	51.92	28.459
2,500.0	2,500.0	2,476.1	2,475.6	4.4	51.7	-151.79		-1,302.1	-698.6	1,477.7	1,421.8	55.90	26.434
2,571.1	2,571.1	2,546.8	2,546.2	4.5	54.3	-151.75		-1,300.1	-698.6	1,475.9	1,417.3	58.54	25.212
2,600.0	2,600.0	2,570.5	2,569.9	4.5	55.1	-151.75		-1,300.1	-698.6	1,475.9	1,416.5	59.43	24.836
2,700.0	2,700.0	2,652.6	2,652.0	4.6	58.1	-151.77		-1,301.1	-698.6	1,476.9	1,414.4	62.51	23.629
2,800.0	2,800.0	2,776.6	2,775.6	4.7	63.0	-151.79		-1,302.1	-698.6	1,477.7	1,410.2	67.46	21.905
2,900.0	2,900.0	2,876.8	2,875.6	4.8	67.3	-151.79		-1,302.1	-698.6	1,477.7	1,405.8	71.83	20.570
2,992.5	2,992.5	2,969.4	2,968.1	4.9	71.2	-151.77		-1,301.4	-698.6	1,477.0	1,401.2	75.82	19.482
3,000.0	3,000.0	2,973.7	2,972.4	4.9	71.4	-151.77		-1,301.4	-698.6	1,477.1	1,401.1	76.01	19.433
3,095.0	3,095.0	3,072.0	3,070.5	5.0	75.6	-151.77		-1,301.3	-698.6	1,476.9	1,396.5	80.38	18.374
3,100.0	3,100.0	3,074.8	3,073.2	5.0	75.8	-151.77		-1,301.3	-698.6	1,476.9	1,396.4	80.50	18.346
3,200.0	3,200.0	3,166.4	3,164.6	5.1	79.7	-151.78		-1,301.7	-698.6	1,477.3	1,392.7	84.57	17.468
3,300.0	3,300.0	3,277.5	3,275.6	5.2	84.5	-151.79		-1,302.1	-698.6	1,477.7	1,388.3	89.39	16.531
3,400.0	3,400.0	3,377.7	3,375.6	5.3	88.7	-151.79		-1,302.1	-698.6	1,477.7	1,383.9	93.72	15.767
3,492.5	3,492.5	3,470.1	3,467.9	5.4	92.6	-151.78		-1,301.6	-698.6	1,477.2	1,379.5	97.71	15.118
3,500.0	3,500.0	3,474.0	3,471.8	5.4	92.8	-151.78		-1,301.6	-698.6	1,477.2	1,379.3	97.88	15.092
3,595.4	3,595.4	3,573.4	3,571.0	5.5	97.0	-151.77		-1,301.2	-698.6	1,476.8	1,374.6	102.25	14.443
3,600.0	3,600.0	3,576.2	3,573.8	5.5	97.2	-151.77		-1,301.2	-698.6	1,476.8	1,374.4	102.37	14.426
3,700.0	3,700.0	3,678.2	3,675.6	5.7	101.5	-151.79		-1,302.1	-698.6	1,477.7	1,370.8	106.82	13.833
3,800.0	3,800.0	3,778.4	3,775.6	5.8	105.7	-151.79		-1,302.1	-698.6	1,477.7	1,366.5	111.16	13.293
3,844.0	3,844.0	3,822.4	3,819.6	5.8	107.6	-151.77		-1,301.2	-698.6	1,476.9	1,363.8	113.11	13.057
3,900.0	3,900.0	3,857.6	3,854.8	5.9	109.2	-151.78		-1,301.5	-698.6	1,477.3	1,362.6	114.69	12.881

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
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		
3,953.3	3,953.3	3,931.9	3,928.9	5.9	112.5	-151.77	-1,301.4	-698.6	1,477.0	1,359.0	118.03	12.514		
4,000.0	4,000.0	3,957.2	3,954.2	6.0	113.6	-151.78	-1,301.6	-698.6	1,477.4	1,358.2	119.20	12.394		
4,063.1	4,063.1	4,041.9	4,038.7	6.1	117.2	-151.77	-1,301.2	-698.6	1,476.8	1,353.9	122.91	12.015		
4,100.0	4,100.0	4,064.5	4,061.3	6.1	118.2	-151.77	-1,301.3	-698.6	1,477.0	1,353.1	123.91	11.920		
4,200.0	4,200.0	4,179.0	4,175.6	6.2	122.8	-151.79	-1,302.1	-698.6	1,477.7	1,349.1	128.59	11.492		
4,300.0	4,300.0	4,279.2	4,275.6	6.3	126.5	-151.79	-1,302.1	-698.6	1,477.7	1,345.2	132.48	11.154		
4,343.8	4,343.8	4,323.0	4,319.4	6.4	128.0	-151.77	-1,301.4	-698.6	1,477.0	1,343.0	134.00	11.023		
4,400.0	4,400.0	4,360.4	4,356.8	6.5	129.3	-151.78	-1,301.6	-698.6	1,477.4	1,342.1	135.31	10.919		
4,499.6	4,499.6	4,478.9	4,475.2	6.6	133.2	-151.77	-1,301.3	-698.6	1,476.9	1,337.6	139.30	10.603		
4,500.0	4,500.0	4,479.2	4,475.5	6.6	133.2	-151.77	-1,301.3	-698.6	1,476.9	1,337.6	139.31	10.602		
4,600.0	4,600.0	4,579.4	4,575.6	6.7	136.4	-151.79	-1,302.1	-698.6	1,477.7	1,335.0	142.67	10.357		
4,700.0	4,700.0	4,679.4	4,675.6	6.8	139.7	-151.79	-1,302.1	-698.6	1,477.7	1,331.6	146.02	10.120		
4,728.5	4,728.5	4,704.8	4,700.9	6.8	140.5	-151.76	-1,300.8	-698.6	1,476.5	1,329.7	146.87	10.053		
4,800.0	4,800.0	4,762.5	4,758.6	6.9	142.4	-151.77	-1,301.3	-698.6	1,477.0	1,328.2	148.81	9.925		
4,900.0	4,900.0	4,879.6	4,875.6	7.0	145.9	-151.79	-1,302.1	-698.6	1,477.7	1,325.2	152.47	9.692		
4,957.3	4,957.3	4,936.6	4,932.6	7.1	147.5	-151.77	-1,301.0	-698.6	1,476.7	1,322.5	154.17	9.579		
5,000.0	5,000.0	4,972.8	4,968.7	7.2	148.6	-151.77	-1,301.1	-698.6	1,476.8	1,321.6	155.25	9.513		
5,100.0	5,100.0	5,079.8	5,075.6	7.3	151.6	-151.79	-1,302.1	-698.6	1,477.7	1,319.3	158.40	9.328		
5,200.0	5,200.0	5,179.8	5,175.6	7.4	154.4	-151.79	-1,302.1	-698.6	1,477.7	1,316.4	161.26	9.163		
5,283.0	5,283.0	5,262.5	5,258.3	7.5	156.6	-151.76	-1,300.6	-698.6	1,476.3	1,312.7	163.62	9.023		
5,300.0	5,300.0	5,278.0	5,273.8	7.5	157.1	-151.76	-1,300.6	-698.6	1,476.3	1,312.3	164.06	8.999		
5,400.0	5,400.0	5,369.0	5,364.8	7.6	159.6	-151.77	-1,301.0	-698.6	1,476.8	1,310.1	166.67	8.860		
5,500.0	5,500.0	5,479.9	5,475.6	7.8	162.6	-151.79	-1,302.1	-698.6	1,477.7	1,307.9	169.80	8.702		
5,600.0	5,600.0	5,579.9	5,575.6	7.9	165.2	-89.31	-1,302.1	-698.6	1,477.6	1,305.1	172.50	8.566		
5,700.0	5,699.8	5,679.8	5,675.4	7.9	167.8	-89.51	-1,302.1	-698.6	1,477.6	1,302.4	175.17	8.435		
5,729.6	5,729.4	5,708.0	5,703.6	8.0	168.6	-89.56	-1,300.4	-698.6	1,476.0	1,300.1	175.92	8.390		
5,769.4	5,769.0	5,744.5	5,740.1	8.0	169.5	-89.69	-1,300.4	-698.6	1,476.1	1,299.2	176.90	8.344		
5,800.0	5,799.5	5,772.6	5,768.2	8.0	170.3	-89.79	-1,300.6	-698.6	1,476.2	1,298.5	177.65	8.310		
5,900.0	5,899.0	5,864.3	5,859.9	8.1	172.7	-90.14	-1,301.3	-698.6	1,476.9	1,296.8	180.10	8.201		
6,000.0	5,998.6	5,978.7	5,974.2	8.2	175.5	-90.57	-1,302.1	-698.6	1,477.6	1,294.6	183.03	8.073		
6,100.0	6,098.1	6,078.3	6,073.7	8.3	177.9	-90.93	-1,302.1	-698.6	1,477.7	1,292.3	185.45	7.968		
6,131.8	6,129.8	6,108.3	6,103.8	8.3	178.6	-91.02	-1,301.0	-698.6	1,476.8	1,290.6	186.19	7.932		
6,200.0	6,197.7	6,169.8	6,165.3	8.3	180.1	-91.25	-1,301.3	-698.6	1,477.2	1,289.5	187.69	7.870		
6,300.0	6,297.3	6,277.5	6,272.9	8.4	182.6	-91.66	-1,302.1	-698.6	1,478.2	1,287.9	190.31	7.767		
6,400.0	6,396.8	6,377.0	6,372.4	8.5	185.0	-92.02	-1,302.1	-698.6	1,478.5	1,285.7	192.74	7.671		
6,486.3	6,482.8	6,462.8	6,458.2	8.6	187.1	-92.31	-1,301.0	-698.6	1,477.8	1,283.0	194.83	7.585		
6,500.0	6,496.4	6,475.5	6,470.8	8.6	187.4	-92.36	-1,301.0	-698.6	1,477.8	1,282.7	195.14	7.573		
6,600.0	6,595.9	6,568.3	6,563.6	8.7	189.6	-92.70	-1,301.3	-698.6	1,478.6	1,281.2	197.41	7.490		
6,700.0	6,695.5	6,675.8	6,671.1	8.8	192.1	-93.10	-1,302.1	-698.6	1,479.7	1,279.7	200.04	7.397		
6,800.0	6,795.0	6,775.4	6,770.6	8.8	194.5	-93.47	-1,302.1	-698.6	1,480.3	1,277.8	202.48	7.311		
6,885.0	6,879.6	6,860.0	6,855.2	8.9	196.5	-93.75	-1,300.8	-698.6	1,479.6	1,275.0	204.56	7.233		
6,900.0	6,894.6	6,873.7	6,869.0	8.9	196.8	-93.80	-1,300.8	-698.6	1,479.7	1,274.8	204.89	7.222		
7,000.0	6,994.2	6,965.2	6,960.4	9.0	199.0	-94.14	-1,301.2	-698.6	1,480.7	1,273.5	207.14	7.148		
7,100.0	7,093.7	7,074.2	7,069.3	9.1	201.6	-94.55	-1,302.1	-698.6	1,482.2	1,272.5	209.76	7.066		
7,200.0	7,193.3	7,173.7	7,168.9	9.2	203.6	-94.91	-1,302.1	-698.6	1,483.0	1,271.2	211.85	7.000		
7,286.3	7,279.2	7,259.5	7,254.7	9.3	205.3	-95.20	-1,301.0	-698.6	1,482.7	1,269.1	213.65	6.940		
7,300.0	7,292.8	7,272.2	7,267.3	9.3	205.6	-95.25	-1,301.0	-698.6	1,482.9	1,269.0	213.92	6.932		
7,400.0	7,392.4	7,364.7	7,359.8	9.4	207.5	-95.59	-1,301.4	-698.6	1,484.1	1,268.2	215.86	6.875		
7,500.0	7,492.0	7,472.5	7,467.6	9.5	209.6	-95.99	-1,302.1	-698.6	1,485.7	1,267.6	218.08	6.813		
7,600.0	7,591.5	7,572.0	7,567.1	9.6	211.4	-96.34	-1,302.1	-698.6	1,486.7	1,266.8	219.95	6.760		
7,700.0	7,691.1	7,671.6	7,666.7	9.7	213.2	-96.70	-1,302.1	-698.6	1,487.8	1,266.0	221.81	6.707		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
								+N/-S (usft)	+E/-W (usft)					
7,800.0	7,790.6	7,767.9	7,763.0	9.8	214.9	-97.04	-1,301.5	-698.6	1,488.3	1,264.7	223.62	6.656		
7,900.0	7,890.2	7,863.7	7,858.8	9.9	216.6	-97.39	-1,301.8	-698.6	1,489.8	1,264.4	225.42	6.609		
8,000.0	7,989.7	7,970.3	7,965.3	10.0	218.5	-97.77	-1,302.1	-698.6	1,491.4	1,264.0	227.36	6.559		
8,100.0	8,089.3	8,069.9	8,064.9	10.1	220.2	-98.13	-1,302.1	-698.6	1,492.7	1,263.5	229.13	6.515		
8,200.0	8,188.9	8,166.9	8,162.0	10.2	221.8	-98.47	-1,301.5	-698.6	1,493.5	1,262.6	230.85	6.469		
8,300.0	8,288.4	8,262.0	8,257.0	10.3	223.4	-98.81	-1,301.8	-698.6	1,495.2	1,262.7	232.54	6.430		
8,400.0	8,388.0	8,368.6	8,363.6	10.4	225.2	-99.19	-1,302.1	-698.6	1,496.9	1,262.6	234.37	6.387		
8,500.0	8,487.5	8,468.1	8,463.1	10.5	226.7	-99.54	-1,302.1	-698.6	1,498.5	1,262.4	236.04	6.348		
8,600.0	8,587.1	8,566.1	8,561.1	10.6	228.3	-99.89	-1,301.7	-698.6	1,499.7	1,262.0	237.69	6.309		
8,700.0	8,686.7	8,662.7	8,657.7	10.7	229.8	-100.23	-1,301.9	-698.6	1,501.5	1,262.2	239.31	6.274		
8,800.0	8,786.2	8,766.8	8,761.8	10.8	231.4	-100.60	-1,302.1	-698.6	1,503.4	1,262.4	241.01	6.238		
8,900.0	8,885.8	8,866.4	8,861.4	10.9	232.9	-100.95	-1,302.1	-698.6	1,505.2	1,262.6	242.59	6.205		
9,000.0	8,985.3	8,965.7	8,960.7	11.0	234.4	-101.29	-1,301.6	-698.6	1,506.5	1,262.3	244.16	6.170		
9,100.0	9,084.9	9,062.7	9,057.7	11.1	235.8	-101.63	-1,301.7	-698.6	1,508.5	1,262.8	245.70	6.139		
9,200.0	9,184.4	9,159.6	9,154.6	11.2	237.3	-101.97	-1,302.0	-698.6	1,510.7	1,263.4	247.24	6.110		
9,300.0	9,284.0	9,264.6	9,259.6	11.4	238.9	-102.34	-1,302.1	-698.6	1,512.8	1,263.8	249.00	6.075		
9,400.0	9,383.6	9,364.2	9,359.2	11.5	240.6	-102.69	-1,302.1	-698.6	1,514.8	1,264.1	250.71	6.042		
9,500.0	9,483.1	9,462.7	9,457.7	11.6	242.2	-103.02	-1,301.9	-698.6	1,516.7	1,264.3	252.41	6.009		
9,600.0	9,582.7	9,560.7	9,555.7	11.7	243.7	-103.36	-1,302.0	-698.6	1,519.0	1,264.9	254.10	5.978		
9,700.0	9,682.2	9,660.0	9,655.0	11.8	245.5	-103.70	-1,302.0	-698.6	1,521.2	1,265.2	255.96	5.943		
9,800.0	9,781.8	9,762.4	9,757.4	11.9	247.5	-104.06	-1,302.1	-698.6	1,523.6	1,265.5	258.04	5.904		
9,900.0	9,881.3	9,860.1	9,855.1	12.0	249.4	-104.39	-1,301.7	-698.6	1,525.4	1,265.4	260.06	5.866		
10,000.0	9,980.9	9,953.1	9,948.1	12.1	251.2	-104.71	-1,302.0	-698.6	1,528.2	1,266.2	262.00	5.833		
10,100.0	10,080.5	10,061.1	10,056.1	12.2	253.8	-105.08	-1,302.1	-698.6	1,530.7	1,265.9	264.73	5.782		
10,200.0	10,180.0	10,160.7	10,155.6	12.4	256.4	-105.41	-1,302.1	-698.6	1,533.1	1,265.8	267.35	5.735		
10,300.0	10,279.6	10,258.4	10,253.3	12.5	258.8	-105.74	-1,301.0	-698.6	1,534.6	1,264.7	269.93	5.685		
10,400.0	10,379.1	10,353.1	10,348.0	12.6	261.2	-106.06	-1,301.3	-698.6	1,537.5	1,265.1	272.43	5.644		
10,500.0	10,478.7	10,447.7	10,442.6	12.7	263.6	-106.38	-1,301.9	-698.6	1,540.7	1,265.8	274.93	5.604		
10,600.0	10,578.3	10,559.1	10,553.9	12.8	266.8	-106.75	-1,302.1	-698.6	1,543.6	1,265.4	278.24	5.548		
10,700.0	10,677.8	10,642.8	10,637.5	12.9	269.3	-107.03	-1,301.5	-698.6	1,545.8	1,265.0	280.83	5.505		
10,800.0	10,777.4	10,758.3	10,753.0	13.1	272.5	-107.42	-1,302.1	-698.6	1,549.1	1,265.0	284.14	5.452		
10,900.0	10,876.9	10,857.9	10,852.5	13.2	275.1	-107.74	-1,302.1	-698.6	1,552.0	1,265.1	286.88	5.410		
11,000.0	10,976.5	10,955.2	10,949.8	13.3	277.7	-108.05	-1,300.0	-698.6	1,552.8	1,263.2	289.57	5.362		
11,100.0	11,076.0	11,045.2	11,039.8	13.4	280.0	-108.35	-1,300.4	-698.6	1,556.2	1,264.1	292.05	5.328		
11,200.0	11,175.6	11,135.1	11,129.7	13.5	282.4	-108.65	-1,301.4	-698.6	1,560.2	1,265.7	294.53	5.297		
11,300.0	11,275.2	11,256.3	11,250.8	13.6	285.9	-109.05	-1,302.1	-698.6	1,563.9	1,265.7	298.19	5.245		
11,400.0	11,374.7	11,355.9	11,350.3	13.8	289.0	-109.37	-1,302.1	-698.6	1,567.0	1,265.6	301.38	5.199		
11,500.0	11,474.3	11,451.1	11,445.5	13.9	291.9	-109.68	-1,301.0	-698.6	1,569.1	1,264.6	304.44	5.154		
11,600.0	11,573.8	11,543.4	11,537.8	14.0	294.8	-109.98	-1,301.5	-698.6	1,572.8	1,265.4	307.40	5.116		
11,626.9	11,600.6	11,568.1	11,562.5	14.0	295.6	-110.06	-1,301.7	-698.6	1,573.9	1,265.7	308.20	5.107		
11,650.0	11,623.6	11,589.4	11,583.8	14.1	296.2	-82.67	-1,301.9	-698.6	1,574.3	1,265.4	308.86	5.097		
11,675.0	11,648.4	11,629.9	11,624.0	14.1	297.6	-62.74	-1,302.1	-698.6	1,573.5	1,263.3	310.22	5.072		
11,700.0	11,673.1	11,654.6	11,648.7	14.1	298.4	-51.26	-1,302.1	-698.6	1,571.3	1,260.2	311.11	5.051		
11,725.0	11,697.6	11,679.1	11,673.2	14.1	299.3	-44.47	-1,302.1	-698.6	1,567.9	1,255.9	311.99	5.025		
11,750.0	11,721.9	11,703.3	11,697.5	14.1	300.2	-40.23	-1,302.1	-698.6	1,563.3	1,250.4	312.87	4.997		
11,775.0	11,745.8	11,727.3	11,721.4	14.1	301.0	-37.46	-1,302.1	-698.6	1,557.5	1,243.8	313.73	4.964		
11,800.0	11,769.3	11,750.8	11,744.9	14.1	301.8	-35.65	-1,302.1	-698.6	1,550.5	1,235.9	314.59	4.929		
11,825.0	11,792.3	11,773.8	11,767.9	14.1	302.7	-34.47	-1,302.1	-698.6	1,542.4	1,227.0	315.43	4.890		
11,850.0	11,814.8	11,796.3	11,790.4	14.1	303.5	-33.78	-1,302.1	-698.6	1,533.1	1,216.9	316.26	4.848		
11,875.0	11,836.8	11,818.3	11,812.4	14.1	304.2	-33.45	-1,302.1	-698.6	1,522.8	1,205.7	317.06	4.803		
11,900.0	11,858.1	11,839.6	11,833.7	14.1	305.0	-33.44	-1,302.1	-698.6	1,511.4	1,193.5	317.85	4.755		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
								+N/-S (usft)	+E/-W (usft)					
11,925.0	11,878.7	11,860.2	11,854.3	14.1	305.7	-33.70		-1,302.1	-698.6	1,499.0	1,180.3	318.62	4.705	
11,950.0	11,898.5	11,880.0	11,874.1	14.1	306.4	-34.21		-1,302.1	-698.6	1,485.5	1,166.2	319.36	4.652	
11,975.0	11,917.5	11,899.0	11,893.1	14.2	307.1	-34.96		-1,302.1	-698.6	1,471.2	1,151.1	320.07	4.596	
12,000.0	11,935.7	11,917.2	11,911.3	14.2	307.7	-35.96		-1,302.1	-698.6	1,455.9	1,135.2	320.76	4.539	
12,025.0	11,952.9	11,934.4	11,928.5	14.2	308.4	-37.20		-1,302.1	-698.6	1,439.8	1,118.4	321.41	4.480	
12,050.0	11,969.2	11,950.3	11,944.3	14.2	308.9	-38.68		-1,297.7	-698.6	1,418.5	1,096.5	322.02	4.405	
12,075.0	11,984.5	11,964.1	11,958.0	14.2	309.4	-40.42		-1,297.7	-698.6	1,400.8	1,078.3	322.55	4.343	
12,100.0	11,998.7	11,976.9	11,970.9	14.3	309.9	-42.46		-1,297.8	-698.6	1,382.5	1,059.4	323.06	4.279	
12,125.0	12,011.8	11,988.9	11,982.8	14.3	310.3	-44.82		-1,297.8	-698.6	1,363.5	1,040.0	323.53	4.215	
12,150.0	12,023.9	11,999.8	11,993.8	14.3	310.7	-47.53		-1,297.8	-698.6	1,344.0	1,020.0	323.97	4.149	
12,175.0	12,034.7	12,009.7	12,003.7	14.4	311.0	-50.62		-1,297.9	-698.6	1,324.0	999.6	324.37	4.082	
12,200.0	12,044.4	12,018.6	12,012.6	14.4	311.3	-54.10		-1,297.9	-698.6	1,303.4	978.7	324.74	4.014	
12,225.0	12,052.8	12,026.4	12,020.4	14.4	311.6	-58.00		-1,298.0	-698.6	1,282.5	957.5	325.07	3.946	
12,250.0	12,060.0	12,033.1	12,027.1	14.5	311.8	-62.32		-1,298.0	-698.6	1,261.3	936.0	325.36	3.877	
12,275.0	12,066.0	12,038.7	12,032.6	14.5	312.0	-67.03		-1,298.1	-698.6	1,239.8	914.2	325.61	3.808	
12,300.0	12,070.7	12,043.1	12,037.1	14.6	312.2	-72.09		-1,298.1	-698.6	1,218.1	892.3	325.82	3.739	
12,325.0	12,074.1	12,046.4	12,040.3	14.6	312.3	-77.41		-1,298.1	-698.6	1,196.2	870.2	325.99	3.670	
12,350.0	12,076.2	12,048.5	12,042.4	14.6	312.4	-82.89		-1,298.1	-698.6	1,174.3	848.2	326.12	3.601	
12,375.0	12,077.0	12,049.4	12,043.3	14.7	312.4	-88.40		-1,298.1	-698.6	1,152.3	826.1	326.21	3.533	
12,378.4	12,077.0	12,049.4	12,043.4	14.7	312.4	-89.15		-1,298.1	-698.6	1,149.3	823.1	326.22	3.523	
12,400.0	12,077.0	12,049.5	12,043.5	14.7	312.4	-89.14		-1,298.1	-698.6	1,130.4	804.1	326.27	3.465	
12,500.0	12,076.9	12,050.1	12,044.1	15.0	312.5	-89.09		-1,298.1	-698.6	1,041.7	715.2	326.53	3.190	
12,600.0	12,076.8	12,050.7	12,044.7	15.2	312.5	-89.05		-1,298.1	-698.6	951.8	625.0	326.81	2.913	
12,700.0	12,076.7	12,051.4	12,045.3	15.5	312.5	-89.00		-1,298.1	-698.6	860.9	533.8	327.10	2.632	
12,800.0	12,076.6	12,052.0	12,046.0	15.8	312.5	-88.95		-1,298.2	-698.6	769.1	441.6	327.42	2.349	
12,900.0	12,076.4	12,052.7	12,046.7	16.1	312.5	-88.92		-1,298.2	-698.6	676.4	348.7	327.75	2.064	
13,000.0	12,076.3	12,053.4	12,047.4	16.4	312.6	-88.90		-1,298.2	-698.6	583.3	255.2	328.11	1.778 Advise and Monitor	
13,041.4	12,076.3	12,053.7	12,047.6	16.6	312.6	-88.90		-1,298.2	-698.6	544.6	216.3	328.28	1.659 Advise and Monitor	
13,100.0	12,076.2	12,054.1	12,048.1	16.8	312.6	-89.02		-1,298.2	-698.6	490.3	161.8	328.53	1.492 Shut in Producers	
13,200.0	12,076.1	12,054.8	12,048.8	17.2	312.6	-89.23		-1,298.2	-698.6	400.4	71.3	329.07	1.217 Shut in Producers	
13,300.0	12,076.0	12,055.6	12,049.5	17.6	312.6	-89.45		-1,298.2	-698.6	316.6	-13.2	329.80	0.960 Stop Drilling Now	
13,400.0	12,075.9	12,056.3	12,050.3	18.0	312.7	-89.67		-1,298.2	-698.6	245.3	-85.4	330.64	0.742 Stop Drilling Now	
13,500.0	12,075.8	12,057.1	12,051.0	18.5	312.7	-89.89		-1,298.2	-698.6	200.2	-130.7	330.87	0.605 Stop Drilling Now	
13,550.4	12,075.8	12,057.4	12,051.4	18.8	312.7	-90.00		-1,298.2	-698.6	193.8	-136.5	330.29	0.587 Stop Drilling Now, CC, ES, SF	
13,600.0	12,075.7	12,057.8	12,051.8	19.0	312.7	-90.12		-1,298.2	-698.6	200.0	-129.3	329.28	0.607 Stop Drilling Now	
13,700.0	12,075.6	12,058.6	12,052.5	19.6	312.8	-90.35		-1,298.2	-698.6	244.8	-82.5	327.31	0.748 Stop Drilling Now	
13,800.0	12,075.5	12,059.4	12,053.3	20.2	312.8	-90.58		-1,298.2	-698.6	316.0	-10.4	326.41	0.968 Stop Drilling Now	
13,900.0	12,075.4	12,060.2	12,054.1	20.8	312.8	-90.82		-1,298.2	-698.6	399.7	73.5	326.18	1.225 Shut in Producers	
14,000.0	12,075.3	12,061.0	12,054.9	21.4	312.8	-91.06		-1,298.2	-698.6	489.6	163.4	326.21	1.501 Advise and Monitor	
14,100.0	12,075.2	12,061.8	12,055.8	22.1	312.9	-91.30		-1,298.2	-698.6	582.7	256.4	326.34	1.786 Advise and Monitor	
14,200.0	12,075.1	12,062.7	12,056.6	22.7	312.9	-91.55		-1,298.2	-698.6	677.9	351.4	326.49	2.076	
14,300.0	12,075.0	12,063.5	12,057.5	23.4	312.9	-91.80		-1,298.3	-698.6	774.2	447.6	326.65	2.370	
14,400.0	12,074.9	12,064.4	12,058.3	24.1	313.0	-92.06		-1,298.3	-698.6	871.4	544.6	326.81	2.666	
14,500.0	12,074.8	12,065.3	12,059.2	24.8	313.0	-92.32		-1,298.3	-698.6	969.1	642.2	326.97	2.964	
14,600.0	12,074.7	12,066.2	12,060.1	25.6	313.0	-92.58		-1,298.3	-698.6	1,067.3	740.2	327.12	3.263	
14,700.0	12,074.6	12,067.1	12,061.0	26.3	313.1	-92.85		-1,298.3	-698.6	1,165.8	838.5	327.27	3.562	
14,800.0	12,074.5	12,068.0	12,062.0	27.0	313.1	-93.13		-1,298.3	-698.6	1,264.5	937.1	327.42	3.862	
14,900.0	12,074.4	12,069.0	12,062.9	27.8	313.1	-93.41		-1,298.3	-698.6	1,363.4	1,035.8	327.57	4.162	
15,000.0	12,074.3	12,069.9	12,063.9	28.6	313.2	-93.69		-1,298.3	-698.6	1,462.4	1,134.7	327.72	4.462	
15,100.0	12,074.2	12,070.9	12,064.9	29.3	313.2	-93.98		-1,298.3	-698.6	1,561.6	1,233.7	327.87	4.763	
15,200.0	12,074.1	12,071.9	12,065.8	30.1	313.2	-94.27		-1,298.3	-698.6	1,660.9	1,332.9	328.02	5.063	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 - OWB - INC ONLY -													Offset Site Error:	0.0 usft
Survey Program: 285-INC-ONLY													Offset Well Error:	3.0 usft
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		
15,300.0	12,074.0	12,072.9	12,066.9	30.9	313.3	-94.57	-1,298.3	-698.6	1,760.2	1,432.1	328.17	5.364		
15,400.0	12,073.9	12,074.0	12,067.9	31.7	313.3	-94.87	-1,298.4	-698.6	1,859.7	1,531.3	328.32	5.664		
15,500.0	12,073.8	12,075.0	12,069.0	32.5	313.3	-95.18	-1,298.4	-698.6	1,959.1	1,630.7	328.48	5.964		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.6	60.0	60.0				
100.0	100.0	99.7	99.7	3.0	3.0	89.43	0.6	60.0	60.0	54.0	6.00	10.000	
200.0	200.0	199.7	199.7	3.0	3.0	89.43	0.6	60.0	60.0	54.0	6.00	9.995	
300.0	300.0	299.7	299.7	3.0	3.0	89.43	0.6	60.0	60.0	54.0	6.01	9.985	
400.0	400.0	399.7	399.7	3.0	3.0	89.43	0.6	60.0	60.0	54.0	6.02	9.970	
500.0	500.0	499.7	499.7	3.1	3.1	89.43	0.6	60.0	60.0	54.0	6.03	9.949	
600.0	600.0	599.7	599.7	3.1	3.1	89.43	0.6	60.0	60.0	54.0	6.05	9.923	
700.0	700.0	699.7	699.7	3.1	3.1	89.43	0.6	60.0	60.0	53.9	6.07	9.892	
800.0	800.0	799.7	799.7	3.2	3.2	89.43	0.6	60.0	60.0	53.9	6.09	9.857	
900.0	900.0	899.7	899.7	3.2	3.2	89.43	0.6	60.0	60.0	53.9	6.11	9.816	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	89.43	0.6	60.0	60.0	53.9	6.14	9.771	
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	89.43	0.6	60.0	60.0	53.8	6.17	9.721	
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	89.43	0.6	60.0	60.0	53.8	6.21	9.668	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	89.43	0.6	60.0	60.0	53.8	6.24	9.610	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	89.43	0.6	60.0	60.0	53.7	6.28	9.549	
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	89.43	0.6	60.0	60.0	53.7	6.33	9.484	
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	89.43	0.6	60.0	60.0	53.6	6.37	9.416	
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	89.43	0.6	60.0	60.0	53.6	6.42	9.345	
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	89.43	0.6	60.0	60.0	53.5	6.47	9.272	
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	89.43	0.6	60.0	60.0	53.5	6.53	9.195	
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	89.43	0.6	60.0	60.0	53.4	6.58	9.117	
2,100.0	2,100.0	2,099.7	2,099.7	4.0	4.0	89.43	0.6	60.0	60.0	53.4	6.64	9.037	
2,200.0	2,200.0	2,199.7	2,199.7	4.1	4.1	89.43	0.6	60.0	60.0	53.3	6.70	8.954	
2,300.0	2,300.0	2,299.7	2,299.7	4.2	4.2	89.43	0.6	60.0	60.0	53.2	6.76	8.870	
2,400.0	2,400.0	2,399.7	2,399.7	4.3	4.3	89.43	0.6	60.0	60.0	53.2	6.83	8.785	
2,500.0	2,500.0	2,499.7	2,499.7	4.4	4.4	89.43	0.6	60.0	60.0	53.1	6.90	8.699 CC, ES, SF	
2,600.0	2,600.0	2,597.8	2,597.8	4.5	4.5	88.77	1.3	61.5	61.6	54.6	6.97	8.833	
2,700.0	2,700.0	2,695.9	2,695.8	4.6	4.5	86.99	3.5	66.0	66.2	59.2	7.05	9.393	
2,800.0	2,800.0	2,795.7	2,795.3	4.7	4.6	85.04	6.2	71.8	72.2	65.1	7.15	10.098	
2,900.0	2,900.0	2,895.5	2,894.9	4.8	4.7	83.39	9.0	77.6	78.3	71.0	7.27	10.774	
3,000.0	3,000.0	2,995.3	2,994.5	4.9	4.7	81.98	11.8	83.4	84.4	77.0	7.39	11.423	
3,100.0	3,100.0	3,095.1	3,094.1	5.0	4.8	80.76	14.5	89.2	90.6	83.1	7.52	12.044	
3,200.0	3,200.0	3,194.9	3,193.7	5.1	4.9	79.69	17.3	95.0	96.8	89.1	7.66	12.638	
3,300.0	3,300.0	3,294.7	3,293.3	5.2	4.9	78.76	20.1	100.8	103.0	95.2	7.80	13.206	
3,400.0	3,400.0	3,394.5	3,392.9	5.3	5.0	77.93	22.8	106.6	109.3	101.3	7.95	13.749	
3,500.0	3,500.0	3,494.2	3,492.4	5.4	5.1	77.19	25.6	112.5	115.6	107.5	8.10	14.268	
3,600.0	3,600.0	3,594.0	3,592.0	5.5	5.2	76.52	28.3	118.3	121.8	113.6	8.25	14.763	
3,700.0	3,700.0	3,693.8	3,691.6	5.7	5.3	75.92	31.1	124.1	128.2	119.7	8.41	15.235	
3,800.0	3,800.0	3,793.6	3,791.2	5.8	5.3	75.38	33.9	129.9	134.5	125.9	8.57	15.687	
3,900.0	3,900.0	3,893.4	3,890.8	5.9	5.4	74.89	36.6	135.7	140.8	132.1	8.74	16.118	
4,000.0	4,000.0	3,993.2	3,990.4	6.0	5.5	74.44	39.4	141.5	147.1	138.2	8.90	16.530	
4,100.0	4,100.0	4,093.0	4,089.9	6.1	5.6	74.03	42.2	147.3	153.5	144.4	9.07	16.924	
4,200.0	4,200.0	4,192.8	4,189.5	6.2	5.7	73.65	44.9	153.1	159.9	150.6	9.24	17.300	
4,300.0	4,300.0	4,292.6	4,289.1	6.3	5.8	73.29	47.7	158.9	166.2	156.8	9.41	17.660	
4,400.0	4,400.0	4,392.4	4,388.7	6.5	5.9	72.97	50.4	164.7	172.6	163.0	9.59	18.004	
4,500.0	4,500.0	4,492.2	4,488.3	6.6	6.0	72.67	53.2	170.5	179.0	169.2	9.76	18.334	
4,600.0	4,600.0	4,592.0	4,587.9	6.7	6.1	72.38	56.0	176.3	185.3	175.4	9.94	18.649	
4,700.0	4,700.0	4,691.8	4,687.5	6.8	6.2	72.12	58.7	182.1	191.7	181.6	10.12	18.951	
4,800.0	4,800.0	4,791.5	4,787.0	6.9	6.3	71.88	61.5	187.9	198.1	187.8	10.30	19.240	
4,900.0	4,900.0	4,891.3	4,886.6	7.0	6.4	71.65	64.3	193.7	204.5	194.0	10.48	19.517	
5,000.0	5,000.0	4,991.1	4,986.2	7.2	6.5	71.43	67.0	199.5	210.9	200.2	10.66	19.782	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,100.0	5,090.9	5,085.8	7.3	6.6	71.22	69.8	205.3	217.3	206.4	10.84	20.037	
5,200.0	5,200.0	5,190.7	5,185.4	7.4	6.7	71.03	72.6	211.1	223.7	212.7	11.03	20.282	
5,300.0	5,300.0	5,290.5	5,285.0	7.5	6.8	70.85	75.3	216.9	230.1	218.9	11.21	20.516	
5,400.0	5,400.0	5,390.3	5,384.6	7.6	6.9	70.68	78.1	222.7	236.5	225.1	11.40	20.742	
5,500.0	5,500.0	5,490.1	5,484.1	7.8	7.0	70.52	80.8	228.5	242.9	231.3	11.59	20.958	
5,600.0	5,600.0	5,589.8	5,583.6	7.9	7.1	133.09	83.6	234.3	250.5	238.8	11.74	21.344	
5,700.0	5,699.8	5,689.2	5,682.9	7.9	7.2	133.64	86.4	240.1	260.5	248.7	11.82	22.029	
5,769.4	5,769.0	5,758.1	5,751.6	8.0	7.3	134.28	88.3	244.1	268.9	257.0	11.87	22.651	
5,800.0	5,799.5	5,788.3	5,781.8	8.0	7.3	134.66	89.1	245.9	272.8	260.9	11.89	22.950	
5,900.0	5,899.0	5,887.3	5,880.5	8.1	7.4	135.82	91.8	251.6	285.9	273.9	11.96	23.910	
6,000.0	5,998.6	5,986.3	5,979.3	8.2	7.5	136.88	94.6	257.4	299.0	287.0	12.04	24.841	
6,100.0	6,098.1	6,085.3	6,078.1	8.3	7.7	137.85	97.3	263.1	312.2	300.1	12.13	25.741	
6,200.0	6,197.7	6,184.3	6,176.9	8.3	7.8	138.74	100.1	268.9	325.6	313.3	12.23	26.612	
6,300.0	6,297.3	6,283.3	6,275.7	8.4	7.9	139.56	102.8	274.6	339.0	326.6	12.35	27.451	
6,400.0	6,396.8	6,382.3	6,374.4	8.5	8.0	140.32	105.6	280.4	352.4	339.9	12.47	28.260	
6,500.0	6,496.4	6,481.2	6,473.2	8.6	8.1	141.03	108.3	286.2	365.9	353.3	12.60	29.039	
6,600.0	6,595.9	6,580.2	6,572.0	8.7	8.2	141.68	111.0	291.9	379.5	366.7	12.74	29.789	
6,700.0	6,695.5	6,679.2	6,670.8	8.8	8.3	142.29	113.8	297.7	393.1	380.2	12.88	30.510	
6,800.0	6,795.0	6,778.2	6,769.6	8.8	8.4	142.86	116.5	303.4	406.7	393.7	13.04	31.202	
6,900.0	6,894.6	6,877.2	6,868.4	8.9	8.5	143.39	119.3	309.2	420.4	407.2	13.19	31.868	
7,000.0	6,994.2	6,976.2	6,967.1	9.0	8.7	143.88	122.0	314.9	434.1	420.8	13.35	32.508	
7,100.0	7,093.7	7,075.2	7,065.9	9.1	8.8	144.35	124.7	320.7	447.9	434.4	13.52	33.123	
7,200.0	7,193.3	7,174.1	7,164.7	9.2	8.9	144.79	127.5	326.5	461.6	448.0	13.69	33.713	
7,300.0	7,292.8	7,273.1	7,263.5	9.3	9.0	145.20	130.2	332.2	475.4	461.6	13.87	34.281	
7,400.0	7,392.4	7,372.1	7,362.3	9.4	9.1	145.59	133.0	338.0	489.3	475.2	14.05	34.826	
7,500.0	7,492.0	7,471.1	7,461.0	9.5	9.2	145.96	135.7	343.7	503.1	488.9	14.23	35.350	
7,600.0	7,591.5	7,570.1	7,559.8	9.6	9.4	146.31	138.4	349.5	517.0	502.6	14.42	35.854	
7,700.0	7,691.1	7,669.1	7,658.6	9.7	9.5	146.64	141.2	355.2	530.9	516.2	14.61	36.338	
7,800.0	7,790.6	7,768.1	7,757.4	9.8	9.6	146.96	143.9	361.0	544.8	530.0	14.80	36.804	
7,900.0	7,890.2	7,867.1	7,856.2	9.9	9.7	147.26	146.7	366.7	558.7	543.7	15.00	37.252	
8,000.0	7,989.7	7,966.0	7,954.9	10.0	9.8	147.54	149.4	372.5	572.6	557.4	15.19	37.683	
8,100.0	8,089.3	8,065.0	8,053.7	10.1	9.9	147.81	152.2	378.3	586.5	571.1	15.40	38.098	
8,200.0	8,188.9	8,164.0	8,152.5	10.2	10.1	148.07	154.9	384.0	600.5	584.9	15.60	38.497	
8,300.0	8,288.4	8,263.0	8,251.3	10.3	10.2	148.31	157.6	389.8	614.4	598.6	15.80	38.881	
8,400.0	8,388.0	8,362.0	8,350.1	10.4	10.3	148.55	160.4	395.5	628.4	612.4	16.01	39.252	
8,500.0	8,487.5	8,461.0	8,448.9	10.5	10.4	148.77	163.1	401.3	642.4	626.2	16.22	39.608	
8,600.0	8,587.1	8,560.0	8,547.6	10.6	10.5	148.99	165.9	407.0	656.4	640.0	16.43	39.952	
8,700.0	8,686.7	8,658.9	8,646.4	10.7	10.7	149.20	168.6	412.8	670.4	653.8	16.64	40.284	
8,800.0	8,786.2	8,757.9	8,745.2	10.8	10.8	149.39	171.3	418.6	684.4	667.5	16.86	40.603	
8,900.0	8,885.8	8,856.9	8,844.0	10.9	10.9	149.58	174.1	424.3	698.4	681.3	17.07	40.912	
9,000.0	8,985.3	8,955.9	8,942.8	11.0	11.0	149.77	176.8	430.1	712.4	695.2	17.29	41.209	
9,100.0	9,084.9	9,054.9	9,041.5	11.1	11.1	149.94	179.6	435.8	726.5	709.0	17.51	41.496	
9,200.0	9,184.4	9,153.9	9,140.3	11.2	11.3	150.11	182.3	441.6	740.5	722.8	17.73	41.774	
9,300.0	9,284.0	9,252.9	9,239.1	11.4	11.4	150.27	185.0	447.3	754.6	736.6	17.95	42.041	
9,400.0	9,383.6	9,351.9	9,337.9	11.5	11.5	150.43	187.8	453.1	768.6	750.4	18.17	42.300	
9,500.0	9,483.1	9,450.8	9,436.7	11.6	11.6	150.58	190.5	458.9	782.7	764.3	18.39	42.550	
9,600.0	9,582.7	9,549.8	9,535.4	11.7	11.7	150.73	193.3	464.6	796.7	778.1	18.62	42.791	
9,700.0	9,682.2	9,648.8	9,634.2	11.8	11.9	150.87	196.0	470.4	810.8	791.9	18.84	43.025	
9,800.0	9,781.8	9,747.8	9,733.0	11.9	12.0	151.00	198.8	476.1	824.9	805.8	19.07	43.251	
9,900.0	9,881.3	9,846.8	9,831.8	12.0	12.1	151.13	201.5	481.9	838.9	819.6	19.30	43.469	
10,000.0	9,980.9	9,945.8	9,930.6	12.1	12.2	151.26	204.2	487.6	853.0	833.5	19.53	43.680	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,080.5	10,044.8	10,029.4	12.2	12.3	151.38	207.0	493.4	867.1	847.3	19.76	43.885	
10,200.0	10,180.0	10,143.7	10,128.1	12.4	12.5	151.50	209.7	499.1	881.2	861.2	19.99	44.082	
10,300.0	10,279.6	10,242.7	10,226.9	12.5	12.6	151.62	212.5	504.9	895.3	875.0	20.22	44.274	
10,400.0	10,379.1	10,341.7	10,325.7	12.6	12.7	151.73	215.2	510.7	909.4	888.9	20.45	44.459	
10,500.0	10,478.7	10,440.7	10,424.5	12.7	12.8	151.84	217.9	516.4	923.5	902.8	20.69	44.639	
10,600.0	10,578.3	10,539.7	10,523.3	12.8	13.0	151.94	220.7	522.2	937.6	916.6	20.92	44.813	
10,700.0	10,677.8	10,638.7	10,622.0	12.9	13.1	152.04	223.4	527.9	951.7	930.5	21.16	44.982	
10,800.0	10,777.4	10,737.7	10,720.8	13.1	13.2	152.14	226.2	533.7	965.8	944.4	21.39	45.145	
10,900.0	10,876.9	10,836.7	10,819.6	13.2	13.3	152.24	228.9	539.4	979.9	958.2	21.63	45.303	
11,000.0	10,976.5	10,935.6	10,918.4	13.3	13.5	152.33	231.6	545.2	994.0	972.1	21.87	45.457	
11,100.0	11,076.0	11,034.6	11,017.2	13.4	13.6	152.42	234.4	551.0	1,008.1	986.0	22.10	45.605	
11,200.0	11,175.6	11,133.6	11,115.9	13.5	13.7	152.51	237.1	556.7	1,022.2	999.9	22.34	45.750	
11,300.0	11,275.2	11,232.6	11,214.7	13.6	13.8	152.60	239.9	562.5	1,036.3	1,013.7	22.58	45.889	
11,400.0	11,374.7	11,331.6	11,313.5	13.8	13.9	152.68	242.6	568.2	1,050.4	1,027.6	22.82	46.025	
11,500.0	11,474.3	11,430.6	11,412.3	13.9	14.1	152.76	245.4	574.0	1,064.6	1,041.5	23.06	46.157	
11,600.0	11,573.8	11,529.6	11,511.1	14.0	14.2	152.84	248.1	579.7	1,078.7	1,055.4	23.29	46.318	
11,626.9	11,600.6	11,556.2	11,537.6	14.0	14.2	152.86	248.8	581.3	1,082.5	1,059.2	23.34	46.383	
11,650.0	11,623.6	11,579.0	11,560.4	14.1	14.2	-179.31	249.5	582.6	1,086.0	1,062.3	23.67	45.889	
11,675.0	11,648.4	11,603.6	11,585.0	14.1	14.2	-158.79	250.1	584.0	1,090.3	1,066.6	23.69	46.032	
11,700.0	11,673.1	11,625.0	11,606.3	14.1	14.2	-146.67	250.7	585.3	1,095.2	1,071.5	23.72	46.179	
11,725.0	11,697.6	11,636.2	11,617.5	14.1	14.2	-139.06	250.8	586.1	1,100.8	1,077.0	23.82	46.216	
11,750.0	11,721.9	11,650.0	11,631.2	14.1	14.2	-133.87	250.6	587.1	1,107.3	1,083.4	23.91	46.306	
11,775.0	11,745.8	11,660.1	11,641.3	14.1	14.2	-129.97	250.2	588.0	1,114.4	1,090.4	24.04	46.356	
11,800.0	11,769.3	11,675.0	11,656.1	14.1	14.2	-126.90	249.3	589.5	1,122.4	1,098.3	24.13	46.506	
11,825.0	11,792.3	11,683.3	11,664.3	14.1	14.3	-124.24	248.6	590.4	1,131.0	1,106.7	24.29	46.559	
11,850.0	11,814.8	11,700.0	11,680.8	14.1	14.3	-122.00	246.8	592.5	1,140.4	1,116.0	24.37	46.793	
11,875.0	11,836.8	11,700.0	11,680.8	14.1	14.3	-119.68	246.8	592.5	1,150.4	1,125.8	24.62	46.717	
11,900.0	11,858.1	11,716.6	11,697.1	14.1	14.3	-117.76	244.5	594.7	1,161.0	1,136.3	24.70	47.002	
11,925.0	11,878.7	11,725.0	11,705.3	14.1	14.3	-115.76	243.1	595.9	1,172.2	1,147.4	24.87	47.143	
11,950.0	11,898.5	11,737.6	11,717.5	14.1	14.3	-113.88	240.8	597.9	1,184.0	1,159.1	24.98	47.404	
11,975.0	11,917.5	11,750.0	11,729.5	14.2	14.3	-112.01	238.3	599.9	1,196.4	1,171.3	25.09	47.691	
12,000.0	11,935.7	11,757.6	11,736.8	14.2	14.3	-110.02	236.6	601.3	1,209.2	1,184.0	25.24	47.901	
12,025.0	11,952.9	11,767.2	11,745.9	14.2	14.3	-108.07	234.3	603.0	1,222.5	1,197.1	25.37	48.186	
12,050.0	11,969.2	11,775.0	11,753.3	14.2	14.3	-106.03	232.3	604.5	1,236.2	1,210.7	25.51	48.464	
12,075.0	11,984.5	11,785.4	11,763.1	14.2	14.3	-104.05	229.4	606.5	1,250.3	1,224.7	25.60	48.834	
12,100.0	11,998.7	11,794.1	11,771.2	14.3	14.3	-101.99	226.9	608.2	1,264.8	1,239.1	25.71	49.196	
12,125.0	12,011.8	11,800.0	11,776.7	14.3	14.3	-99.79	225.2	609.5	1,279.6	1,253.8	25.84	49.529	
12,150.0	12,023.9	11,810.4	11,786.3	14.3	14.3	-97.73	221.9	611.7	1,294.7	1,268.8	25.89	49.998	
12,175.0	12,034.7	11,818.0	11,793.3	14.4	14.3	-95.55	219.3	613.4	1,310.0	1,284.0	25.97	50.437	
12,200.0	12,044.4	11,825.0	11,799.7	14.4	14.3	-93.33	216.9	615.0	1,325.5	1,299.5	26.04	50.894	
12,225.0	12,052.8	11,832.2	11,806.2	14.4	14.3	-91.11	214.3	616.7	1,341.3	1,315.2	26.10	51.389	
12,250.0	12,060.0	11,838.7	11,812.1	14.5	14.3	-88.86	211.9	618.2	1,357.1	1,331.0	26.15	51.900	
12,275.0	12,066.0	11,850.0	11,822.1	14.5	14.3	-86.84	207.6	621.0	1,373.1	1,346.9	26.13	52.544	
12,300.0	12,070.7	11,850.0	11,822.1	14.6	14.3	-84.32	207.6	621.0	1,389.1	1,362.9	26.22	52.976	
12,325.0	12,074.1	11,855.8	11,827.2	14.6	14.3	-82.10	205.3	622.4	1,405.1	1,378.9	26.23	53.561	
12,350.0	12,076.2	11,860.6	11,831.4	14.6	14.3	-79.87	203.3	623.6	1,421.2	1,394.9	26.24	54.153	
12,375.0	12,077.0	11,864.9	11,835.2	14.7	14.3	-77.67	201.5	624.8	1,437.2	1,411.0	26.24	54.762	
12,378.4	12,077.0	11,865.5	11,835.7	14.7	14.3	-77.37	201.3	624.9	1,439.4	1,413.1	26.24	54.849	
12,400.0	12,077.0	11,869.0	11,838.8	14.7	14.3	-77.70	199.8	625.8	1,453.1	1,426.9	26.24	55.378	
12,500.0	12,076.9	11,888.3	11,855.3	15.0	14.3	-79.23	191.2	631.0	1,516.0	1,489.7	26.25	57.751	
12,600.0	12,076.8	11,913.4	11,876.1	15.2	14.3	-80.81	179.2	638.1	1,577.0	1,550.7	26.28	60.017	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,700.0	12,076.7	11,946.2	11,902.2	15.5	14.3	-82.47	162.0	648.1	1,635.8	1,609.5	26.32	62.145		
12,800.0	12,076.6	11,989.7	11,934.6	15.8	14.4	-84.22	136.7	662.3	1,692.0	1,665.6	26.40	64.085		
12,900.0	12,076.4	12,047.8	11,973.5	16.1	14.4	-86.04	98.8	682.9	1,744.9	1,718.4	26.54	65.735		
13,000.0	12,076.3	12,125.2	12,016.7	16.4	14.5	-87.83	42.0	712.7	1,793.5	1,766.7	26.81	66.903		
13,041.4	12,076.3	12,163.9	12,034.2	16.6	14.6	-88.50	11.4	728.3	1,812.1	1,785.1	26.97	67.196		
13,100.0	12,076.2	12,224.8	12,056.1	16.8	14.7	-89.28	-39.4	753.8	1,837.6	1,810.3	27.27	67.379		
13,200.0	12,076.1	13,157.8	12,077.2	17.2	18.0	-90.04	-935.8	953.5	1,848.4	1,816.2	32.23	57.357		
13,300.0	12,076.0	13,257.8	12,077.1	17.6	18.4	-90.04	-1,035.8	954.2	1,848.4	1,815.1	33.36	55.408		
13,400.0	12,075.9	13,357.8	12,077.0	18.0	18.9	-90.04	-1,135.8	955.0	1,848.4	1,813.9	34.54	53.511		
13,500.0	12,075.8	13,457.8	12,076.9	18.5	19.5	-90.04	-1,235.8	955.7	1,848.4	1,812.7	35.77	51.676		
13,600.0	12,075.7	13,557.8	12,076.8	19.0	20.0	-90.04	-1,335.8	956.4	1,848.4	1,811.4	37.04	49.909		
13,700.0	12,075.6	13,657.8	12,076.7	19.6	20.6	-90.04	-1,435.8	957.1	1,848.4	1,810.1	38.34	48.214		
13,800.0	12,075.5	13,757.8	12,076.6	20.2	21.2	-90.04	-1,535.8	957.9	1,848.4	1,808.7	39.67	46.593		
13,900.0	12,075.4	13,857.8	12,076.5	20.8	21.8	-90.04	-1,635.8	958.6	1,848.4	1,807.4	41.03	45.045		
14,000.0	12,075.3	13,957.8	12,076.4	21.4	22.4	-90.04	-1,735.8	959.3	1,848.4	1,806.0	42.42	43.570		
14,100.0	12,075.2	14,057.8	12,076.3	22.1	23.1	-90.04	-1,835.8	960.0	1,848.4	1,804.6	43.84	42.166		
14,200.0	12,075.1	14,157.8	12,076.2	22.7	23.8	-90.04	-1,935.8	960.8	1,848.4	1,803.1	45.27	40.829		
14,300.0	12,075.0	14,257.8	12,076.1	23.4	24.4	-90.04	-2,035.8	961.5	1,848.4	1,801.7	46.73	39.559		
14,400.0	12,074.9	14,357.8	12,076.0	24.1	25.1	-90.04	-2,135.8	962.2	1,848.4	1,800.2	48.20	38.350		
14,500.0	12,074.8	14,457.8	12,075.8	24.8	25.8	-90.04	-2,235.8	962.9	1,848.4	1,798.7	49.69	37.202		
14,600.0	12,074.7	14,557.8	12,075.7	25.6	26.5	-90.04	-2,335.8	963.7	1,848.4	1,797.2	51.19	36.109		
14,700.0	12,074.6	14,657.8	12,075.6	26.3	27.3	-90.04	-2,435.8	964.4	1,848.4	1,795.7	52.70	35.070		
14,800.0	12,074.5	14,757.8	12,075.5	27.0	28.0	-90.04	-2,535.8	965.1	1,848.4	1,794.1	54.23	34.082		
14,900.0	12,074.4	14,857.8	12,075.4	27.8	28.7	-90.04	-2,635.8	965.8	1,848.4	1,792.6	55.77	33.141		
15,000.0	12,074.3	14,957.8	12,075.3	28.6	29.5	-90.04	-2,735.8	966.6	1,848.4	1,791.0	57.32	32.244		
15,100.0	12,074.2	15,057.8	12,075.2	29.3	30.2	-90.04	-2,835.8	967.3	1,848.3	1,789.5	58.88	31.390		
15,200.0	12,074.1	15,157.8	12,075.1	30.1	31.0	-90.04	-2,935.8	968.0	1,848.3	1,787.9	60.45	30.575		
15,300.0	12,074.0	15,257.8	12,075.0	30.9	31.8	-90.04	-3,035.8	968.7	1,848.3	1,786.3	62.03	29.797		
15,400.0	12,073.9	15,357.8	12,074.9	31.7	32.5	-90.04	-3,135.8	969.5	1,848.3	1,784.7	63.62	29.055		
15,500.0	12,073.8	15,457.8	12,074.8	32.5	33.3	-90.04	-3,235.8	970.2	1,848.3	1,783.1	65.21	28.345		
15,600.0	12,073.7	15,557.8	12,074.7	33.2	34.1	-90.04	-3,335.8	970.9	1,848.3	1,781.5	66.81	27.667		
15,700.0	12,073.6	15,657.8	12,074.6	34.0	34.9	-90.04	-3,435.8	971.6	1,848.3	1,779.9	68.41	27.018		
15,800.0	12,073.5	15,757.8	12,074.5	34.8	35.7	-90.04	-3,535.8	972.4	1,848.3	1,778.3	70.02	26.397		
15,900.0	12,073.4	15,857.8	12,074.4	35.6	36.5	-90.04	-3,635.8	973.1	1,848.3	1,776.7	71.64	25.801		
16,000.0	12,073.3	15,957.8	12,074.3	36.4	37.3	-90.04	-3,735.7	973.8	1,848.3	1,775.1	73.26	25.231		
16,100.0	12,073.2	16,057.8	12,074.2	37.3	38.1	-90.04	-3,835.7	974.6	1,848.3	1,773.4	74.88	24.683		
16,200.0	12,073.1	16,157.8	12,074.1	38.1	38.9	-90.04	-3,935.7	975.3	1,848.3	1,771.8	76.51	24.157		
16,300.0	12,072.9	16,257.8	12,074.0	38.9	39.7	-90.04	-4,035.7	976.0	1,848.3	1,770.1	78.14	23.652		
16,400.0	12,072.8	16,357.8	12,073.9	39.7	40.5	-90.04	-4,135.7	976.7	1,848.3	1,768.5	79.78	23.167		
16,500.0	12,072.7	16,457.8	12,073.8	40.5	41.3	-90.04	-4,235.7	977.5	1,848.3	1,766.9	81.42	22.700		
16,600.0	12,072.6	16,557.8	12,073.7	41.3	42.1	-90.04	-4,335.7	978.2	1,848.3	1,765.2	83.07	22.250		
16,700.0	12,072.5	16,657.8	12,073.6	42.2	42.9	-90.04	-4,435.7	978.9	1,848.3	1,763.6	84.71	21.818		
16,800.0	12,072.4	16,757.8	12,073.5	43.0	43.7	-90.04	-4,535.7	979.6	1,848.3	1,761.9	86.36	21.401		
16,900.0	12,072.3	16,857.8	12,073.4	43.8	44.5	-90.04	-4,635.7	980.4	1,848.3	1,760.2	88.02	20.999		
17,000.0	12,072.2	16,957.8	12,073.3	44.6	45.4	-90.04	-4,735.7	981.1	1,848.3	1,758.6	89.67	20.611		
17,100.0	12,072.1	17,057.8	12,073.2	45.5	46.2	-90.04	-4,835.7	981.8	1,848.3	1,756.9	91.33	20.237		
17,200.0	12,072.0	17,157.8	12,073.1	46.3	47.0	-90.04	-4,935.7	982.5	1,848.3	1,755.3	92.99	19.875		
17,300.0	12,071.9	17,257.8	12,072.9	47.1	47.8	-90.04	-5,035.7	983.3	1,848.2	1,753.6	94.66	19.526		
17,400.0	12,071.8	17,357.8	12,072.8	47.9	48.7	-90.04	-5,135.7	984.0	1,848.2	1,751.9	96.32	19.188		
17,500.0	12,071.7	17,457.8	12,072.7	48.8	49.5	-90.04	-5,235.7	984.7	1,848.2	1,750.3	97.99	18.862		
17,600.0	12,071.6	17,557.8	12,072.6	49.6	50.3	-90.04	-5,335.7	985.4	1,848.2	1,748.6	99.66	18.546		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FED #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11520-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	12,071.5	17,657.8	12,072.5	50.5	51.1	-90.04	-5,435.7	986.2	1,848.2	1,746.9	101.33	18.240		
17,800.0	12,071.4	17,757.8	12,072.4	51.3	52.0	-90.04	-5,535.7	986.9	1,848.2	1,745.2	103.00	17.944		
17,900.0	12,071.3	17,857.8	12,072.3	52.1	52.8	-90.04	-5,635.7	987.6	1,848.2	1,743.5	104.68	17.657		
18,000.0	12,071.2	17,957.8	12,072.2	53.0	53.6	-90.04	-5,735.7	988.3	1,848.2	1,741.9	106.35	17.378		
18,100.0	12,071.1	18,057.8	12,072.1	53.8	54.5	-90.04	-5,835.7	989.1	1,848.2	1,740.2	108.03	17.108		
18,200.0	12,071.0	18,157.8	12,072.0	54.6	55.3	-90.04	-5,935.7	989.8	1,848.2	1,738.5	109.71	16.847		
18,300.0	12,070.9	18,257.8	12,071.9	55.5	56.1	-90.04	-6,035.7	990.5	1,848.2	1,736.8	111.39	16.592		
18,400.0	12,070.8	18,357.8	12,071.8	56.3	57.0	-90.04	-6,135.7	991.2	1,848.2	1,735.1	113.07	16.346		
18,500.0	12,070.7	18,457.8	12,071.7	57.2	57.8	-90.04	-6,235.7	992.0	1,848.2	1,733.4	114.75	16.106		
18,600.0	12,070.6	18,557.8	12,071.6	58.0	58.6	-90.04	-6,335.7	992.7	1,848.2	1,731.8	116.44	15.873		
18,700.0	12,070.5	18,657.8	12,071.5	58.8	59.5	-90.04	-6,435.7	993.4	1,848.2	1,730.1	118.12	15.646		
18,800.0	12,070.4	18,757.8	12,071.4	59.7	60.3	-90.04	-6,535.7	994.1	1,848.2	1,728.4	119.81	15.426		
18,900.0	12,070.3	18,857.8	12,071.3	60.5	61.2	-90.04	-6,635.7	994.9	1,848.2	1,726.7	121.50	15.212		
19,000.0	12,070.2	18,957.8	12,071.2	61.4	62.0	-90.04	-6,735.7	995.6	1,848.2	1,725.0	123.18	15.003		
19,100.0	12,070.1	19,057.8	12,071.1	62.2	62.8	-90.04	-6,835.7	996.3	1,848.2	1,723.3	124.87	14.800		
19,200.0	12,070.0	19,157.8	12,071.0	63.1	63.7	-90.04	-6,935.7	997.0	1,848.2	1,721.6	126.56	14.603		
19,300.0	12,069.9	19,257.8	12,070.9	63.9	64.5	-90.04	-7,035.7	997.8	1,848.2	1,719.9	128.25	14.410		
19,400.0	12,069.8	19,357.8	12,070.8	64.8	65.4	-90.04	-7,135.7	998.5	1,848.2	1,718.2	129.95	14.222		
19,500.0	12,069.7	19,457.8	12,070.7	65.6	66.2	-90.04	-7,235.7	999.2	1,848.1	1,716.5	131.64	14.039		
19,600.0	12,069.6	19,557.8	12,070.6	66.5	67.1	-90.04	-7,335.7	999.9	1,848.1	1,714.8	133.33	13.861		
19,700.0	12,069.5	19,657.8	12,070.5	67.3	67.9	-90.04	-7,435.6	1,000.7	1,848.1	1,713.1	135.03	13.687		
19,800.0	12,069.4	19,757.8	12,070.4	68.1	68.7	-90.04	-7,535.6	1,001.4	1,848.1	1,711.4	136.72	13.517		
19,900.0	12,069.2	19,857.8	12,070.3	69.0	69.6	-90.04	-7,635.6	1,002.1	1,848.1	1,709.7	138.42	13.352		
20,000.0	12,069.1	19,957.8	12,070.2	69.8	70.4	-90.04	-7,735.6	1,002.8	1,848.1	1,708.0	140.12	13.190		
20,100.0	12,069.0	20,057.8	12,070.0	70.7	71.3	-90.04	-7,835.6	1,003.6	1,848.1	1,706.3	141.81	13.032		
20,200.0	12,068.9	20,157.8	12,069.9	71.5	72.1	-90.04	-7,935.6	1,004.3	1,848.1	1,704.6	143.51	12.878		
20,300.0	12,068.8	20,257.8	12,069.8	72.4	73.0	-90.04	-8,035.6	1,005.0	1,848.1	1,702.9	145.21	12.727		
20,400.0	12,068.7	20,357.8	12,069.7	73.2	73.8	-90.04	-8,135.6	1,005.7	1,848.1	1,701.2	146.91	12.580		
20,500.0	12,068.6	20,457.8	12,069.6	74.1	74.7	-90.04	-8,235.6	1,006.5	1,848.1	1,699.5	148.61	12.436		
20,600.0	12,068.5	20,557.8	12,069.5	74.9	75.5	-90.04	-8,335.6	1,007.2	1,848.1	1,697.8	150.31	12.295		
20,700.0	12,068.4	20,657.8	12,069.4	75.8	76.4	-90.04	-8,435.6	1,007.9	1,848.1	1,696.1	152.01	12.158		
20,800.0	12,068.3	20,757.8	12,069.3	76.6	77.2	-90.04	-8,535.6	1,008.6	1,848.1	1,694.4	153.71	12.023		
20,900.0	12,068.2	20,857.8	12,069.2	77.5	78.1	-90.04	-8,635.6	1,009.4	1,848.1	1,692.7	155.41	11.892		
21,000.0	12,068.1	20,957.8	12,069.1	78.3	78.9	-90.04	-8,735.6	1,010.1	1,848.1	1,691.0	157.11	11.763		
21,100.0	12,068.0	21,057.8	12,069.0	79.2	79.8	-90.04	-8,835.6	1,010.8	1,848.1	1,689.3	158.82	11.637		
21,200.0	12,067.9	21,157.8	12,068.9	80.0	80.6	-90.04	-8,935.6	1,011.5	1,848.1	1,687.5	160.52	11.513		
21,300.0	12,067.8	21,257.8	12,068.8	80.9	81.5	-90.04	-9,035.6	1,012.3	1,848.1	1,685.8	162.22	11.392		
21,400.0	12,067.7	21,357.8	12,068.7	81.8	82.3	-90.04	-9,135.6	1,013.0	1,848.1	1,684.1	163.93	11.274		
21,500.0	12,067.6	21,457.8	12,068.6	82.6	83.2	-90.04	-9,235.6	1,013.7	1,848.1	1,682.4	165.63	11.158		
21,600.0	12,067.5	21,557.8	12,068.5	83.5	84.0	-90.04	-9,335.6	1,014.4	1,848.1	1,680.7	167.34	11.044		
21,700.0	12,067.4	21,657.8	12,068.4	84.3	84.9	-90.04	-9,435.6	1,015.2	1,848.0	1,679.0	169.04	10.932		
21,800.0	12,067.3	21,757.8	12,068.3	85.2	85.7	-90.04	-9,535.6	1,015.9	1,848.0	1,677.3	170.75	10.823		
21,900.0	12,067.2	21,857.8	12,068.2	86.0	86.6	-90.04	-9,635.6	1,016.6	1,848.0	1,675.6	172.45	10.716		
22,000.0	12,067.1	21,957.8	12,068.1	86.9	87.4	-90.04	-9,735.6	1,017.3	1,848.0	1,673.9	174.16	10.611		
22,076.7	12,067.0	22,034.5	12,068.0	87.5	88.1	-90.04	-9,812.3	1,017.9	1,848.0	1,672.6	175.47	10.532		
22,087.8	12,067.0	22,034.6	12,068.0	87.6	88.1	-90.04	-9,812.4	1,017.9	1,848.1	1,672.5	175.56	10.527		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11557-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	0.2	0.2	3.0	3.0	89.43	0.3	30.0	30.0				
100.0	100.0	100.2	100.2	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	5.000	
200.0	200.0	200.2	200.2	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	4.998	
300.0	300.0	300.2	300.2	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.01	4.993	
400.0	400.0	400.2	400.2	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.02	4.985	
500.0	500.0	500.2	500.2	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.03	4.975	
600.0	600.0	600.2	600.2	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.05	4.962	
700.0	700.0	700.2	700.2	3.1	3.1	89.43	0.3	30.0	30.0	23.9	6.07	4.946	
800.0	800.0	800.2	800.2	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.09	4.928	
900.0	900.0	900.2	900.2	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.14	4.885	
1,100.0	1,100.0	1,100.2	1,100.2	3.3	3.3	89.43	0.3	30.0	30.0	23.8	6.17	4.861	
1,200.0	1,200.0	1,200.2	1,200.2	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.24	4.805	
1,400.0	1,400.0	1,400.2	1,400.2	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.28	4.774	
1,500.0	1,500.0	1,500.2	1,500.2	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.33	4.742	
1,600.0	1,600.0	1,600.2	1,600.2	3.6	3.6	89.43	0.3	30.0	30.0	23.6	6.37	4.708	
1,700.0	1,700.0	1,700.2	1,700.2	3.7	3.7	89.43	0.3	30.0	30.0	23.6	6.42	4.673	
1,800.0	1,800.0	1,800.2	1,800.2	3.8	3.8	89.43	0.3	30.0	30.0	23.5	6.47	4.636	
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	89.43	0.3	30.0	30.0	23.5	6.53	4.598	
2,000.0	2,000.0	2,000.2	2,000.2	3.9	3.9	89.43	0.3	30.0	30.0	23.4	6.58	4.558	
2,100.0	2,100.0	2,100.2	2,100.2	4.0	4.0	89.43	0.3	30.0	30.0	23.4	6.64	4.518	
2,200.0	2,200.0	2,200.2	2,200.2	4.1	4.1	89.43	0.3	30.0	30.0	23.3	6.70	4.477	
2,300.0	2,300.0	2,300.2	2,300.2	4.2	4.2	89.43	0.3	30.0	30.0	23.2	6.76	4.435	
2,400.0	2,400.0	2,400.2	2,400.2	4.3	4.3	89.43	0.3	30.0	30.0	23.2	6.83	4.392	
2,500.0	2,500.0	2,500.2	2,500.2	4.4	4.4	89.43	0.3	30.0	30.0	23.1	6.90	4.349	
2,539.0	2,539.0	2,539.2	2,539.2	4.4	4.4	88.91	0.6	30.0	30.0	23.1	6.93	4.332 CC	
2,600.0	2,600.0	2,600.2	2,600.1	4.5	4.5	86.09	2.1	30.0	30.0	23.1	6.98	4.304 ES	
2,700.0	2,700.0	2,700.0	2,699.8	4.6	4.6	76.31	7.3	29.9	30.7	23.6	7.18	4.284 SF	
2,800.0	2,800.0	2,799.4	2,798.9	4.7	4.7	62.44	15.5	29.7	33.5	25.9	7.65	4.383	
2,900.0	2,900.0	2,899.0	2,898.1	4.8	4.8	50.70	24.2	29.5	38.2	30.0	8.23	4.649	
3,000.0	3,000.0	2,998.6	2,997.4	4.9	4.9	41.80	32.9	29.4	44.2	35.4	8.74	5.052	
3,100.0	3,100.0	3,098.3	3,096.6	5.0	5.0	35.12	41.5	29.2	50.9	41.7	9.19	5.543	
3,200.0	3,200.0	3,197.9	3,195.9	5.1	5.1	30.05	50.2	29.1	58.2	48.6	9.56	6.085	
3,300.0	3,300.0	3,297.5	3,295.1	5.2	5.2	26.12	58.9	28.9	65.8	55.9	9.90	6.651	
3,400.0	3,400.0	3,397.1	3,394.3	5.3	5.3	23.03	67.6	28.7	73.7	63.5	10.20	7.225	
3,500.0	3,500.0	3,496.7	3,493.6	5.4	5.4	20.53	76.3	28.6	81.7	71.2	10.48	7.798	
3,600.0	3,600.0	3,596.4	3,592.8	5.5	5.5	18.48	85.0	28.4	89.9	79.1	10.75	8.363	
3,700.0	3,700.0	3,696.0	3,692.1	5.7	5.6	16.78	93.6	28.2	98.1	87.1	11.01	8.917	
3,800.0	3,800.0	3,795.6	3,791.3	5.8	5.7	15.34	102.3	28.1	106.5	95.2	11.26	9.457	
3,900.0	3,900.0	3,895.2	3,890.5	5.9	5.8	14.11	111.0	27.9	114.9	103.3	11.51	9.983	
4,000.0	4,000.0	3,994.8	3,989.8	6.0	5.9	13.05	119.7	27.7	123.3	111.5	11.75	10.493	
4,100.0	4,100.0	4,094.5	4,089.0	6.1	6.0	12.12	128.4	27.6	131.8	119.8	11.99	10.987	
4,200.0	4,200.0	4,194.1	4,188.3	6.2	6.2	11.31	137.0	27.4	140.3	128.0	12.23	11.465	
4,300.0	4,300.0	4,293.7	4,287.5	6.3	6.3	10.59	145.7	27.2	148.8	136.3	12.47	11.928	
4,400.0	4,400.0	4,393.3	4,386.7	6.5	6.4	9.95	154.4	27.1	157.3	144.6	12.71	12.376	
4,500.0	4,500.0	4,492.9	4,486.0	6.6	6.5	9.37	163.1	26.9	165.9	152.9	12.95	12.808	
4,600.0	4,600.0	4,592.5	4,585.2	6.7	6.6	8.85	171.8	26.8	174.5	161.3	13.19	13.226	
4,700.0	4,700.0	4,692.2	4,684.5	6.8	6.7	8.38	180.4	26.6	183.1	169.6	13.43	13.630	
4,800.0	4,800.0	4,791.8	4,783.7	6.9	6.8	7.95	189.1	26.4	191.7	178.0	13.67	14.021	
4,900.0	4,900.0	4,891.4	4,882.9	7.0	6.9	7.56	197.8	26.3	200.3	186.4	13.91	14.398	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11557-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	5,000.0	4,991.0	4,982.2	7.2	7.1	7.20	206.5	26.1	208.9	194.8	14.15	14.763	
5,100.0	5,100.0	5,090.6	5,081.4	7.3	7.2	6.87	215.2	25.9	217.5	203.1	14.39	15.116	
5,200.0	5,200.0	5,190.3	5,180.7	7.4	7.3	6.57	223.8	25.8	226.2	211.5	14.63	15.457	
5,300.0	5,300.0	5,289.9	5,279.9	7.5	7.4	6.28	232.5	25.6	234.8	219.9	14.87	15.788	
5,400.0	5,400.0	5,389.5	5,379.1	7.6	7.5	6.02	241.2	25.4	243.5	228.3	15.11	16.107	
5,500.0	5,500.0	5,489.1	5,478.4	7.8	7.6	5.77	249.9	25.3	252.1	236.8	15.36	16.417	
5,600.0	5,600.0	5,588.8	5,577.7	7.9	7.8	68.30	258.6	25.1	260.1	244.6	15.57	16.711	
5,700.0	5,699.8	5,688.5	5,677.0	7.9	7.9	68.99	267.3	24.9	266.9	251.1	15.73	16.962	
5,769.4	5,769.0	5,757.7	5,745.9	8.0	8.0	69.87	273.3	24.8	270.9	255.0	15.84	17.103	
5,800.0	5,799.5	5,788.1	5,776.2	8.0	8.0	70.35	275.9	24.8	272.5	256.7	15.88	17.162	
5,900.0	5,899.0	5,887.7	5,875.4	8.1	8.1	71.89	284.6	24.6	278.1	262.1	16.01	17.367	
6,000.0	5,998.6	5,987.2	5,974.6	8.2	8.2	73.36	293.3	24.4	283.9	267.7	16.14	17.588	
6,100.0	6,098.1	6,086.8	6,073.8	8.3	8.4	74.78	302.0	24.3	289.8	273.6	16.26	17.825	
6,200.0	6,197.7	6,186.4	6,173.0	8.3	8.5	76.14	310.6	24.1	296.0	279.6	16.37	18.076	
6,300.0	6,297.3	6,286.0	6,272.2	8.4	8.6	77.44	319.3	24.0	302.2	285.7	16.48	18.339	
6,400.0	6,396.8	6,385.5	6,371.4	8.5	8.7	78.69	328.0	23.8	308.7	292.1	16.58	18.612	
6,500.0	6,496.4	6,485.1	6,470.6	8.6	8.8	79.89	336.7	23.6	315.2	298.5	16.68	18.895	
6,600.0	6,595.9	6,584.7	6,569.8	8.7	9.0	81.04	345.4	23.5	321.9	305.2	16.78	19.186	
6,700.0	6,695.5	6,684.2	6,668.9	8.8	9.1	82.14	354.0	23.3	328.8	311.9	16.87	19.484	
6,800.0	6,795.0	6,783.8	6,768.1	8.8	9.2	83.20	362.7	23.1	335.7	318.7	16.97	19.788	
6,900.0	6,894.6	6,883.4	6,867.3	8.9	9.3	84.22	371.4	23.0	342.8	325.7	17.06	20.096	
7,000.0	6,994.2	6,982.9	6,966.5	9.0	9.4	85.19	380.1	22.8	349.9	332.8	17.15	20.408	
7,100.0	7,093.7	7,082.5	7,065.7	9.1	9.6	86.12	388.7	22.6	357.2	339.9	17.24	20.723	
7,200.0	7,193.3	7,182.1	7,164.9	9.2	9.7	87.02	397.4	22.5	364.5	347.2	17.32	21.040	
7,300.0	7,292.8	7,281.7	7,264.1	9.3	9.8	87.88	406.1	22.3	371.9	354.5	17.41	21.358	
7,400.0	7,392.4	7,381.2	7,363.3	9.4	9.9	88.71	414.8	22.1	379.4	361.9	17.50	21.677	
7,500.0	7,492.0	7,480.8	7,462.5	9.5	10.1	89.51	423.4	22.0	387.0	369.4	17.60	21.996	
7,600.0	7,591.5	7,580.4	7,561.7	9.6	10.2	90.27	432.1	21.8	394.7	377.0	17.69	22.314	
7,700.0	7,691.1	7,679.9	7,660.9	9.7	10.3	91.01	440.8	21.7	402.4	384.6	17.78	22.631	
7,800.0	7,790.6	7,779.5	7,760.0	9.8	10.4	91.71	449.5	21.5	410.2	392.3	17.88	22.946	
7,900.0	7,890.2	7,879.1	7,859.2	9.9	10.5	92.40	458.1	21.3	418.0	400.1	17.97	23.259	
8,000.0	7,989.7	7,978.6	7,958.4	10.0	10.7	93.05	466.8	21.2	425.9	407.9	18.07	23.570	
8,100.0	8,089.3	8,078.2	8,057.6	10.1	10.8	93.68	475.5	21.0	433.9	415.7	18.17	23.877	
8,200.0	8,188.9	8,177.8	8,156.8	10.2	10.9	94.29	484.2	20.8	441.9	423.6	18.28	24.181	
8,300.0	8,288.4	8,277.4	8,256.0	10.3	11.0	94.88	492.9	20.7	450.0	431.6	18.38	24.481	
8,400.0	8,388.0	8,376.9	8,355.2	10.4	11.2	95.45	501.5	20.5	458.1	439.6	18.49	24.777	
8,500.0	8,487.5	8,476.5	8,454.4	10.5	11.3	96.00	510.2	20.3	466.2	447.6	18.60	25.069	
8,600.0	8,587.1	8,576.1	8,553.6	10.6	11.4	96.52	518.9	20.2	474.4	455.7	18.71	25.357	
8,700.0	8,686.7	8,675.6	8,652.8	10.7	11.5	97.04	527.6	20.0	482.6	463.8	18.82	25.639	
8,800.0	8,786.2	8,775.2	8,752.0	10.8	11.7	97.53	536.2	19.8	490.9	472.0	18.94	25.917	
8,900.0	8,885.8	8,874.8	8,851.2	10.9	11.8	98.01	544.9	19.7	499.2	480.1	19.06	26.190	
9,000.0	8,985.3	8,974.3	8,950.3	11.0	11.9	98.47	553.6	19.5	507.5	488.3	19.18	26.457	
9,100.0	9,084.9	9,073.9	9,049.5	11.1	12.0	98.91	562.3	19.4	515.9	496.6	19.31	26.719	
9,200.0	9,184.4	9,173.5	9,148.7	11.2	12.2	99.35	570.9	19.2	524.3	504.8	19.44	26.975	
9,300.0	9,284.0	9,273.1	9,247.9	11.4	12.3	99.77	579.6	19.0	532.7	513.1	19.57	27.226	
9,400.0	9,383.6	9,372.6	9,347.1	11.5	12.4	100.17	588.3	18.9	541.1	521.5	19.70	27.472	
9,500.0	9,483.1	9,472.2	9,446.3	11.6	12.5	100.56	597.0	18.7	549.6	529.8	19.83	27.711	
9,600.0	9,582.7	9,571.8	9,545.5	11.7	12.7	100.95	605.6	18.5	558.1	538.2	19.97	27.945	
9,700.0	9,682.2	9,673.7	9,647.1	11.8	12.8	101.33	614.4	18.4	566.6	546.5	20.11	28.180	
9,800.0	9,781.8	9,781.5	9,754.6	11.9	12.9	101.82	622.2	18.2	574.0	553.8	20.22	28.391	
9,900.0	9,881.3	9,889.4	9,862.3	12.0	13.1	102.43	628.0	18.1	580.1	559.7	20.31	28.554	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11557-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
10,000.0	9,980.9	9,997.2	9,970.1	12.1	13.2	103.16	631.8	18.0	584.8	564.4	20.40	28.669	
10,100.0	10,080.5	10,105.0	10,077.8	12.2	13.3	104.01	633.5	18.0	588.2	567.7	20.47	28.733	
10,200.0	10,180.0	10,207.4	10,180.2	12.4	13.5	104.91	633.6	18.0	590.6	570.1	20.53	28.768	
10,300.0	10,279.6	10,307.0	10,279.8	12.5	13.6	105.78	633.6	18.0	593.1	572.5	20.59	28.811	
10,400.0	10,379.1	10,406.5	10,379.3	12.6	13.7	106.65	633.6	18.0	595.7	575.1	20.64	28.857	
10,500.0	10,478.7	10,506.1	10,478.9	12.7	13.9	107.51	633.6	18.0	598.5	577.8	20.70	28.908	
10,600.0	10,578.3	10,605.6	10,578.5	12.8	14.0	108.36	633.6	18.0	601.4	580.6	20.76	28.963	
10,700.0	10,677.8	10,705.2	10,678.0	12.9	14.1	109.20	633.6	18.0	604.4	583.6	20.83	29.020	
10,800.0	10,777.4	10,804.8	10,777.6	13.1	14.2	110.03	633.6	18.0	607.6	586.7	20.89	29.080	
10,900.0	10,876.9	10,904.3	10,877.1	13.2	14.4	110.85	633.6	18.0	610.9	589.9	20.96	29.142	
11,000.0	10,976.5	11,003.9	10,976.7	13.3	14.5	111.67	633.6	18.0	614.3	593.3	21.03	29.206	
11,100.0	11,076.0	11,103.4	11,076.2	13.4	14.6	112.48	633.6	18.0	617.8	596.7	21.11	29.272	
11,200.0	11,175.6	11,203.0	11,175.8	13.5	14.7	113.27	633.6	18.0	621.5	600.3	21.18	29.339	
11,300.0	11,275.2	11,302.5	11,275.4	13.6	14.9	114.06	633.6	18.0	625.3	604.0	21.26	29.407	
11,400.0	11,374.7	11,402.1	11,374.9	13.8	15.0	114.84	633.6	18.0	629.2	607.8	21.35	29.475	
11,500.0	11,474.3	11,501.7	11,474.5	13.9	15.1	115.61	633.6	18.0	633.2	611.8	21.43	29.545	
11,600.0	11,573.8	11,601.2	11,574.0	14.0	15.2	116.37	633.6	18.0	637.3	615.9	21.48	29.667	
11,626.9	11,600.6	11,632.4	11,605.3	14.0	15.2	116.60	633.6	18.0	638.5	617.0	21.47	29.731	
11,650.0	11,623.6	11,717.2	11,689.4	14.1	15.2	145.24	624.9	18.1	638.3	616.7	21.59	29.570	
11,675.0	11,648.4	11,817.4	11,785.1	14.1	15.3	167.86	595.9	18.3	636.5	614.0	22.50	28.292	
11,700.0	11,673.1	11,918.7	11,873.6	14.1	15.3	-176.73	547.1	18.6	633.3	609.2	24.17	26.200	
11,725.0	11,697.6	11,992.1	11,930.3	14.1	15.4	-166.31	500.5	19.0	629.5	604.2	25.33	24.851	
11,750.0	11,721.9	12,053.9	11,972.0	14.1	15.4	-158.49	454.9	19.3	625.5	599.4	26.10	23.962	
11,775.0	11,745.8	12,094.4	11,995.8	14.1	15.5	-153.10	422.2	19.5	621.7	595.5	26.17	23.752	
11,800.0	11,769.3	12,151.4	12,024.8	14.1	15.5	-147.28	373.2	19.9	618.4	591.8	26.58	23.269	
11,825.0	11,792.3	12,190.6	12,041.2	14.1	15.5	-143.02	337.5	20.2	615.9	589.5	26.42	23.309	
11,850.0	11,814.8	12,225.3	12,053.2	14.1	15.6	-139.31	305.0	20.4	614.2	588.1	26.10	23.532	
11,875.0	11,836.8	12,256.5	12,061.9	14.1	15.6	-136.00	275.1	20.6	613.5	587.9	25.67	23.897	
11,879.1	11,840.3	12,261.3	12,063.1	14.1	15.6	-135.49	270.4	20.6	613.5	587.9	25.60	23.969	
11,900.0	11,858.1	12,284.8	12,068.2	14.1	15.6	-132.98	247.4	20.8	613.9	588.7	25.19	24.373	
11,925.0	11,878.7	12,310.9	12,072.4	14.1	15.6	-130.16	221.7	21.0	615.3	590.6	24.68	24.930	
11,950.0	11,898.5	12,335.2	12,075.2	14.1	15.6	-127.47	197.6	21.2	617.8	593.6	24.19	25.539	
11,975.0	11,917.5	12,358.0	12,076.6	14.2	15.6	-124.87	174.8	21.3	621.4	597.6	23.74	26.173	
12,000.0	11,935.7	12,379.7	12,077.0	14.2	15.6	-122.32	153.2	21.5	625.9	602.6	23.35	26.808	
12,025.0	11,952.9	12,394.3	12,076.9	14.2	15.6	-120.25	138.5	21.6	631.6	608.6	22.98	27.483	
12,050.0	11,969.2	12,410.5	12,076.9	14.2	15.7	-118.04	122.3	21.7	638.3	615.6	22.73	28.080	
12,075.0	11,984.5	12,427.5	12,076.9	14.2	15.7	-115.75	105.3	21.8	645.9	623.3	22.58	28.605	
12,100.0	11,998.7	12,445.3	12,076.9	14.3	15.7	-113.40	87.6	22.0	654.3	631.8	22.51	29.062	
12,125.0	12,011.8	12,463.7	12,076.9	14.3	15.7	-111.02	69.1	22.1	663.4	640.9	22.52	29.459	
12,150.0	12,023.9	12,482.8	12,076.9	14.3	15.7	-108.62	50.1	22.2	673.1	650.5	22.58	29.807	
12,175.0	12,034.7	12,502.4	12,076.8	14.4	15.7	-106.23	30.4	22.4	683.3	660.6	22.69	30.115	
12,200.0	12,044.4	12,522.6	12,076.8	14.4	15.7	-103.89	10.2	22.5	693.8	671.0	22.84	30.383	
12,225.0	12,052.8	12,543.3	12,076.8	14.4	15.7	-101.60	-10.5	22.7	704.7	681.7	23.01	30.632	
12,250.0	12,060.0	12,564.4	12,076.8	14.5	15.7	-99.39	-31.6	22.8	715.8	692.6	23.19	30.869	
12,275.0	12,066.0	12,585.9	12,076.8	14.5	15.7	-97.28	-53.0	23.0	727.0	703.6	23.37	31.102	
12,300.0	12,070.7	12,607.6	12,076.7	14.6	15.7	-95.30	-74.8	23.1	738.3	714.7	23.57	31.330	
12,325.0	12,074.1	12,629.6	12,076.7	14.6	15.7	-93.44	-96.8	23.3	749.6	725.9	23.76	31.550	
12,350.0	12,076.2	12,651.8	12,076.7	14.6	15.7	-91.71	-119.0	23.5	760.9	737.0	23.95	31.775	
12,375.0	12,077.0	12,674.1	12,076.7	14.7	15.7	-90.13	-141.3	23.6	772.1	748.0	24.13	32.003	
12,378.4	12,077.0	12,677.2	12,076.7	14.7	15.7	-89.93	-144.4	23.7	773.7	749.5	24.15	32.035	
12,400.0	12,077.0	12,696.6	12,076.6	14.7	15.7	-89.93	-163.7	23.8	783.2	758.9	24.30	32.225	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11557-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
12,500.0	12,076.9	12,788.2	12,076.6	15.0	15.7	-89.94	-89.94	-255.3	24.5	823.3	798.2	25.09	32.815	
12,600.0	12,076.8	12,882.3	12,076.5	15.2	15.8	-89.95	-89.95	-349.5	25.1	856.9	830.9	25.96	33.007	
12,700.0	12,076.7	12,978.6	12,076.4	15.5	15.8	-89.95	-89.95	-445.7	25.8	883.9	857.0	26.92	32.835	
12,800.0	12,076.6	13,076.5	12,076.3	15.8	15.8	-89.96	-89.96	-543.7	26.6	904.1	876.1	27.95	32.346	
12,900.0	12,076.4	13,175.6	12,076.2	16.1	15.9	-89.96	-89.96	-642.7	27.3	917.4	888.3	29.05	31.585	
13,000.0	12,076.3	13,275.4	12,076.1	16.4	15.9	-89.97	-89.97	-742.5	28.0	923.8	893.6	30.19	30.594	
13,041.4	12,076.3	13,316.8	12,076.0	16.6	16.1	-89.97	-89.97	-783.9	28.3	924.4	893.7	30.68	30.129	
13,100.0	12,076.2	13,375.4	12,076.0	16.8	16.5	-89.97	-89.97	-842.5	28.7	924.4	893.0	31.38	29.453	
13,200.0	12,076.1	13,475.4	12,075.9	17.2	17.2	-89.97	-89.97	-942.5	29.5	924.3	891.7	32.63	28.332	
13,300.0	12,076.0	13,575.4	12,075.8	17.6	17.9	-89.97	-89.97	-1,042.5	30.2	924.3	890.4	33.91	27.259	
13,400.0	12,075.9	13,675.4	12,075.7	18.0	18.6	-89.97	-89.97	-1,142.5	30.9	924.3	889.1	35.23	26.236	
13,500.0	12,075.8	13,775.4	12,075.6	18.5	19.3	-89.97	-89.97	-1,242.5	31.6	924.3	887.8	36.59	25.264	
13,600.0	12,075.7	13,875.4	12,075.5	19.0	20.1	-89.97	-89.97	-1,342.5	32.4	924.3	886.4	37.97	24.342	
13,700.0	12,075.6	13,975.4	12,075.4	19.6	20.8	-89.97	-89.97	-1,442.5	33.1	924.3	884.9	39.39	23.469	
13,800.0	12,075.5	14,075.4	12,075.3	20.2	21.6	-89.97	-89.97	-1,542.5	33.8	924.3	883.5	40.82	22.643	
13,900.0	12,075.4	14,175.4	12,075.2	20.8	22.3	-89.97	-89.97	-1,642.5	34.5	924.3	882.0	42.28	21.862	
14,000.0	12,075.3	14,275.4	12,075.1	21.4	23.1	-89.97	-89.97	-1,742.5	35.3	924.3	880.6	43.76	21.123	
14,100.0	12,075.2	14,375.4	12,075.0	22.1	23.9	-89.97	-89.97	-1,842.5	36.0	924.3	879.1	45.25	20.425	
14,200.0	12,075.1	14,475.4	12,074.9	22.7	24.7	-89.97	-89.97	-1,942.5	36.7	924.3	877.5	46.77	19.765	
14,300.0	12,075.0	14,575.4	12,074.8	23.4	25.5	-89.97	-89.97	-2,042.5	37.4	924.3	876.0	48.29	19.140	
14,400.0	12,074.9	14,675.4	12,074.7	24.1	26.3	-89.97	-89.97	-2,142.5	38.2	924.3	874.5	49.83	18.549	
14,500.0	12,074.8	14,775.4	12,074.6	24.8	27.0	-89.97	-89.97	-2,242.5	38.9	924.3	872.9	51.38	17.989	
14,600.0	12,074.7	14,875.4	12,074.5	25.6	27.8	-89.97	-89.97	-2,342.5	39.6	924.3	871.4	52.94	17.458	
14,700.0	12,074.6	14,975.4	12,074.4	26.3	28.7	-89.97	-89.97	-2,442.5	40.4	924.3	869.8	54.52	16.955	
14,800.0	12,074.5	15,075.4	12,074.3	27.0	29.5	-89.97	-89.97	-2,542.5	41.1	924.3	868.2	56.10	16.477	
14,900.0	12,074.4	15,175.4	12,074.2	27.8	30.3	-89.97	-89.97	-2,642.5	41.8	924.3	866.6	57.68	16.023	
15,000.0	12,074.3	15,275.4	12,074.1	28.6	31.1	-89.97	-89.97	-2,742.5	42.5	924.3	865.0	59.28	15.592	
15,100.0	12,074.2	15,375.4	12,074.0	29.3	31.9	-89.97	-89.97	-2,842.5	43.3	924.3	863.4	60.89	15.181	
15,200.0	12,074.1	15,475.4	12,073.9	30.1	32.7	-89.97	-89.97	-2,942.5	44.0	924.3	861.8	62.50	14.790	
15,300.0	12,074.0	15,575.4	12,073.8	30.9	33.5	-89.97	-89.97	-3,042.5	44.7	924.3	860.2	64.11	14.417	
15,400.0	12,073.9	15,675.4	12,073.7	31.7	34.4	-89.98	-89.98	-3,142.5	45.4	924.3	858.5	65.73	14.061	
15,500.0	12,073.8	15,775.4	12,073.6	32.5	35.2	-89.98	-89.98	-3,242.4	46.2	924.3	856.9	67.36	13.721	
15,600.0	12,073.7	15,875.4	12,073.5	33.2	36.0	-89.98	-89.98	-3,342.4	46.9	924.3	855.3	68.99	13.397	
15,700.0	12,073.6	15,975.4	12,073.4	34.0	36.8	-89.98	-89.98	-3,442.4	47.6	924.3	853.6	70.63	13.087	
15,800.0	12,073.5	16,075.4	12,073.3	34.8	37.7	-89.98	-89.98	-3,542.4	48.3	924.3	852.0	72.27	12.789	
15,900.0	12,073.4	16,175.4	12,073.2	35.6	38.5	-89.98	-89.98	-3,642.4	49.1	924.3	850.3	73.91	12.505	
16,000.0	12,073.3	16,275.4	12,073.1	36.4	39.3	-89.98	-89.98	-3,742.4	49.8	924.3	848.7	75.56	12.232	
16,100.0	12,073.2	16,375.4	12,073.0	37.3	40.2	-89.98	-89.98	-3,842.4	50.5	924.3	847.0	77.21	11.971	
16,200.0	12,073.1	16,475.4	12,072.9	38.1	41.0	-89.98	-89.98	-3,942.4	51.3	924.3	845.4	78.86	11.720	
16,300.0	12,072.9	16,575.4	12,072.8	38.9	41.8	-89.98	-89.98	-4,042.4	52.0	924.2	843.7	80.52	11.478	
16,400.0	12,072.8	16,675.4	12,072.7	39.7	42.7	-89.98	-89.98	-4,142.4	52.7	924.2	842.1	82.18	11.246	
16,500.0	12,072.7	16,775.4	12,072.6	40.5	43.5	-89.98	-89.98	-4,242.4	53.4	924.2	840.4	83.84	11.023	
16,600.0	12,072.6	16,875.4	12,072.5	41.3	44.4	-89.98	-89.98	-4,342.4	54.2	924.2	838.7	85.51	10.809	
16,700.0	12,072.5	16,975.4	12,072.4	42.2	45.2	-89.98	-89.98	-4,442.4	54.9	924.2	837.1	87.18	10.602	
16,800.0	12,072.4	17,075.4	12,072.3	43.0	46.0	-89.98	-89.98	-4,542.4	55.6	924.2	835.4	88.85	10.403	
16,900.0	12,072.3	17,175.4	12,072.2	43.8	46.9	-89.98	-89.98	-4,642.4	56.3	924.2	833.7	90.52	10.211	
17,000.0	12,072.2	17,275.4	12,072.1	44.6	47.7	-89.98	-89.98	-4,742.4	57.1	924.2	832.0	92.19	10.025	
17,100.0	12,072.1	17,375.4	12,072.0	45.5	48.6	-89.98	-89.98	-4,842.4	57.8	924.2	830.4	93.87	9.846	
17,200.0	12,072.0	17,475.4	12,071.9	46.3	49.4	-89.98	-89.98	-4,942.4	58.5	924.2	828.7	95.54	9.673	
17,300.0	12,071.9	17,575.4	12,071.8	47.1	50.2	-89.98	-89.98	-5,042.4	59.2	924.2	827.0	97.22	9.506	
17,400.0	12,071.8	17,675.4	12,071.7	47.9	51.1	-89.98	-89.98	-5,142.4	60.0	924.2	825.3	98.90	9.345	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11557-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	
17,500.0	12,071.7	17,775.4	12,071.6	48.8	51.9	-89.98	-5,242.4	60.7	924.2	823.6	100.58	9.189		
17,600.0	12,071.6	17,875.4	12,071.5	49.6	52.8	-89.98	-5,342.4	61.4	924.2	821.9	102.27	9.037		
17,700.0	12,071.5	17,975.4	12,071.4	50.5	53.6	-89.98	-5,442.4	62.2	924.2	820.3	103.95	8.891		
17,800.0	12,071.4	18,075.4	12,071.3	51.3	54.5	-89.98	-5,542.4	62.9	924.2	818.6	105.64	8.749		
17,900.0	12,071.3	18,175.4	12,071.2	52.1	55.3	-89.98	-5,642.4	63.6	924.2	816.9	107.32	8.611		
18,000.0	12,071.2	18,275.4	12,071.1	53.0	56.2	-89.98	-5,742.4	64.3	924.2	815.2	109.01	8.478		
18,100.0	12,071.1	18,375.4	12,071.0	53.8	57.0	-89.98	-5,842.4	65.1	924.2	813.5	110.70	8.349		
18,200.0	12,071.0	18,475.4	12,070.9	54.6	57.9	-89.98	-5,942.4	65.8	924.2	811.8	112.39	8.223		
18,300.0	12,070.9	18,575.4	12,070.8	55.5	58.7	-89.98	-6,042.4	66.5	924.2	810.1	114.08	8.101		
18,400.0	12,070.8	18,675.4	12,070.7	56.3	59.6	-89.98	-6,142.4	67.2	924.2	808.4	115.78	7.983		
18,500.0	12,070.7	18,775.4	12,070.6	57.2	60.4	-89.98	-6,242.4	68.0	924.2	806.7	117.47	7.867		
18,600.0	12,070.6	18,875.4	12,070.5	58.0	61.3	-89.98	-6,342.4	68.7	924.2	805.0	119.16	7.756		
18,700.0	12,070.5	18,975.4	12,070.4	58.8	62.1	-89.98	-6,442.4	69.4	924.2	803.3	120.86	7.647		
18,800.0	12,070.4	19,075.4	12,070.3	59.7	63.0	-89.98	-6,542.4	70.1	924.2	801.6	122.55	7.541		
18,900.0	12,070.3	19,175.4	12,070.2	60.5	63.8	-89.98	-6,642.4	70.9	924.2	799.9	124.25	7.438		
19,000.0	12,070.2	19,275.4	12,070.1	61.4	64.7	-89.98	-6,742.4	71.6	924.2	798.2	125.95	7.338		
19,100.0	12,070.1	19,375.4	12,070.0	62.2	65.5	-89.98	-6,842.4	72.3	924.2	796.5	127.65	7.240		
19,200.0	12,070.0	19,475.4	12,069.9	63.1	66.4	-89.98	-6,942.4	73.1	924.2	794.8	129.34	7.145		
19,300.0	12,069.9	19,575.4	12,069.8	63.9	67.2	-89.98	-7,042.3	73.8	924.2	793.1	131.04	7.052		
19,400.0	12,069.8	19,675.4	12,069.7	64.8	68.1	-89.98	-7,142.3	74.5	924.1	791.4	132.74	6.962		
19,500.0	12,069.7	19,775.4	12,069.6	65.6	68.9	-89.98	-7,242.3	75.2	924.1	789.7	134.44	6.874		
19,600.0	12,069.6	19,875.4	12,069.5	66.5	69.8	-89.98	-7,342.3	76.0	924.1	788.0	136.15	6.788		
19,700.0	12,069.5	19,975.4	12,069.4	67.3	70.6	-89.98	-7,442.3	76.7	924.1	786.3	137.85	6.704		
19,800.0	12,069.4	20,075.4	12,069.3	68.1	71.5	-89.98	-7,542.3	77.4	924.1	784.6	139.55	6.622		
19,900.0	12,069.2	20,175.4	12,069.2	69.0	72.3	-89.98	-7,642.3	78.1	924.1	782.9	141.25	6.542		
20,000.0	12,069.1	20,275.4	12,069.1	69.8	73.2	-89.98	-7,742.3	78.9	924.1	781.2	142.96	6.464		
20,100.0	12,069.0	20,375.4	12,069.0	70.7	74.0	-89.98	-7,842.3	79.6	924.1	779.5	144.66	6.388		
20,200.0	12,068.9	20,475.4	12,068.9	71.5	74.9	-89.98	-7,942.3	80.3	924.1	777.8	146.36	6.314		
20,300.0	12,068.8	20,575.4	12,068.8	72.4	75.8	-89.98	-8,042.3	81.0	924.1	776.1	148.07	6.241		
20,400.0	12,068.7	20,675.4	12,068.7	73.2	76.6	-89.98	-8,142.3	81.8	924.1	774.3	149.77	6.170		
20,500.0	12,068.6	20,775.4	12,068.6	74.1	77.5	-89.98	-8,242.3	82.5	924.1	772.6	151.48	6.101		
20,600.0	12,068.5	20,875.4	12,068.5	74.9	78.3	-89.98	-8,342.3	83.2	924.1	770.9	153.19	6.033		
20,700.0	12,068.4	20,975.4	12,068.4	75.8	79.2	-89.98	-8,442.3	84.0	924.1	769.2	154.89	5.966		
20,800.0	12,068.3	21,075.4	12,068.3	76.6	80.0	-89.98	-8,542.3	84.7	924.1	767.5	156.60	5.901		
20,900.0	12,068.2	21,175.4	12,068.2	77.5	80.9	-89.99	-8,642.3	85.4	924.1	765.8	158.31	5.837		
21,000.0	12,068.1	21,275.4	12,068.1	78.3	81.7	-89.99	-8,742.3	86.1	924.1	764.1	160.01	5.775		
21,100.0	12,068.0	21,375.4	12,068.0	79.2	82.6	-89.99	-8,842.3	86.9	924.1	762.4	161.72	5.714		
21,200.0	12,067.9	21,475.4	12,067.9	80.0	83.4	-89.99	-8,942.3	87.6	924.1	760.7	163.43	5.654		
21,300.0	12,067.8	21,575.4	12,067.8	80.9	84.3	-89.99	-9,042.3	88.3	924.1	759.0	165.14	5.596		
21,400.0	12,067.7	21,675.4	12,067.7	81.8	85.2	-89.99	-9,142.3	89.0	924.1	757.2	166.85	5.538		
21,500.0	12,067.6	21,775.4	12,067.6	82.6	86.0	-89.99	-9,242.3	89.8	924.1	755.5	168.56	5.482		
21,600.0	12,067.5	21,875.4	12,067.5	83.5	86.9	-89.99	-9,342.3	90.5	924.1	753.8	170.27	5.427		
21,700.0	12,067.4	21,975.4	12,067.4	84.3	87.7	-89.99	-9,442.3	91.2	924.1	752.1	171.98	5.373		
21,800.0	12,067.3	22,075.4	12,067.3	85.2	88.6	-89.99	-9,542.3	91.9	924.1	750.4	173.69	5.320		
21,900.0	12,067.2	22,175.4	12,067.2	86.0	89.4	-89.99	-9,642.3	92.7	924.1	748.7	175.40	5.268		
22,000.0	12,067.1	22,275.4	12,067.1	86.9	90.3	-89.99	-9,742.3	93.4	924.1	747.0	177.11	5.218		
22,078.8	12,067.0	22,354.2	12,067.0	87.5	91.0	-89.99	-9,821.1	94.0	924.1	745.6	178.46	5.178		
22,087.8	12,067.0	22,357.7	12,067.0	87.6	91.0	-89.99	-9,824.6	94.0	924.1	745.5	178.54	5.176		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-55.35		468.1	-677.4	823.4				
100.0	100.0	99.4	99.4	3.0	3.0	-55.35		468.2	-677.4	823.5	817.5	6.00	137.236	
200.0	200.0	197.9	197.9	3.0	3.0	-55.34		468.5	-677.5	823.7	817.7	6.01	137.138	
300.0	300.0	298.7	298.7	3.0	3.0	-55.32		468.8	-677.6	824.0	817.9	6.02	136.887	
400.0	400.0	398.2	398.2	3.0	3.0	-55.31		469.1	-677.7	824.2	818.2	6.04	136.490	
500.0	500.0	497.9	497.9	3.1	3.1	-55.30		469.4	-677.9	824.5	818.4	6.07	135.892	
600.0	600.0	597.0	596.9	3.1	3.1	-55.30		469.7	-678.2	824.9	818.8	6.10	135.128	
700.0	700.0	699.6	699.6	3.1	3.1	-55.29		469.9	-678.4	825.3	819.1	6.15	134.183	
800.0	800.0	803.9	803.9	3.2	3.1	-55.31		469.5	-678.4	825.0	818.8	6.17	133.705	
900.0	900.0	903.3	903.3	3.2	3.1	-55.34		468.9	-678.3	824.7	818.5	6.19	133.120	
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.1	-55.38		468.4	-678.6	824.5	818.3	6.23	132.351	
1,039.4	1,039.4	1,040.6	1,040.6	3.3	3.1	-55.40		468.2	-678.7	824.5	818.3	6.25	132.003	
1,091.2	1,091.2	1,091.7	1,091.7	3.3	3.1	-55.42		467.9	-678.8	824.5	818.2	6.27	131.542	
1,100.0	1,100.0	1,100.1	1,100.1	3.3	3.1	-55.43		467.9	-678.9	824.5	818.2	6.27	131.462	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.1	-55.46		467.4	-679.2	824.5	818.2	6.32	130.476	
1,252.7	1,252.7	1,253.2	1,253.2	3.4	3.2	-55.47		467.3	-679.2	824.4	818.1	6.34	129.955	
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.2	-55.49		467.1	-679.4	824.5	818.1	6.37	129.428	
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.2	-55.52		466.8	-679.8	824.7	818.2	6.43	128.270	
1,500.0	1,500.0	1,498.1	1,498.1	3.5	3.2	-55.55		466.7	-680.2	824.9	818.4	6.50	126.963	
1,600.0	1,600.0	1,596.6	1,596.6	3.6	3.3	-55.55		466.9	-680.6	825.4	818.8	6.58	125.481	
1,700.0	1,700.0	1,696.7	1,696.7	3.7	3.3	-55.53		467.4	-680.9	825.9	819.2	6.66	123.977	
1,800.0	1,800.0	1,794.8	1,794.8	3.8	3.3	-55.47		468.5	-680.9	826.5	819.8	6.75	122.525	
1,900.0	1,900.0	1,894.7	1,894.6	3.9	3.4	-55.38		470.0	-680.7	827.2	820.3	6.83	121.104	
2,000.0	2,000.0	1,996.1	1,996.1	3.9	3.4	-55.23		472.0	-680.0	827.8	820.8	6.92	119.700	
2,100.0	2,100.0	2,095.3	2,095.2	4.0	3.4	-55.06		474.4	-679.0	828.3	821.3	7.00	118.306	
2,200.0	2,200.0	2,203.3	2,203.1	4.1	3.5	-55.00		475.2	-678.6	828.5	821.4	7.09	116.927	
2,300.0	2,300.0	2,306.3	2,306.2	4.2	3.5	-55.01		474.9	-678.3	828.1	820.9	7.15	115.813	
2,400.0	2,400.0	2,409.4	2,409.3	4.3	3.5	-54.95		475.1	-677.1	827.2	820.0	7.22	114.547	
2,500.0	2,500.0	2,508.6	2,508.5	4.4	3.5	-54.85		475.6	-675.6	826.2	818.9	7.30	113.169	
2,600.0	2,600.0	2,609.9	2,609.8	4.5	3.5	-54.72		476.6	-673.6	825.2	817.8	7.39	111.701	
2,700.0	2,700.0	2,710.1	2,709.9	4.6	3.6	-54.53		478.1	-671.0	824.0	816.5	7.48	110.160	
2,800.0	2,800.0	2,811.2	2,810.9	4.7	3.6	-54.32		479.9	-668.3	822.8	815.2	7.58	108.587	
2,900.0	2,900.0	2,908.7	2,908.4	4.8	3.7	-54.15		481.3	-666.0	821.7	814.0	7.68	107.056	
3,000.0	3,000.0	3,007.5	3,007.2	4.9	3.7	-54.09		481.4	-664.8	820.8	813.1	7.77	105.638	
3,100.0	3,100.0	3,106.1	3,105.8	5.0	3.7	-54.04		481.6	-663.8	820.2	812.3	7.87	104.216	
3,200.0	3,200.0	3,207.4	3,207.1	5.1	3.8	-53.98		481.9	-662.8	819.5	811.5	7.97	102.760	
3,300.0	3,300.0	3,305.6	3,305.2	5.2	3.9	-53.87		482.8	-661.3	818.8	810.7	8.08	101.280	
3,400.0	3,400.0	3,402.0	3,401.6	5.3	3.9	-53.70		484.6	-659.7	818.5	810.3	8.20	99.836	
3,500.0	3,500.0	3,500.5	3,500.2	5.4	4.0	-53.58		485.9	-658.6	818.4	810.1	8.32	98.422	
3,537.9	3,537.9	3,539.9	3,539.6	5.5	4.0	-53.58		485.9	-658.5	818.4	810.0	8.36	97.904	
3,600.0	3,600.0	3,603.3	3,602.9	5.5	4.0	-53.58		485.8	-658.5	818.3	809.8	8.43	97.071	
3,700.0	3,700.0	3,709.0	3,708.6	5.7	4.1	-53.53		486.0	-657.5	817.7	809.1	8.55	95.638	
3,800.0	3,800.0	3,815.3	3,814.9	5.8	4.2	-53.37		486.8	-654.7	816.0	807.3	8.68	94.045	
3,900.0	3,900.0	3,902.5	3,902.1	5.9	4.2	-53.29		487.4	-653.5	815.2	806.4	8.79	92.697	
4,000.0	4,000.0	4,005.4	4,004.9	6.0	4.3	-53.18		488.4	-652.3	814.9	806.0	8.92	91.329	
4,100.0	4,100.0	4,107.3	4,106.8	6.1	4.4	-53.02		489.8	-650.5	814.3	805.3	9.05	89.947	
4,200.0	4,200.0	4,224.2	4,223.6	6.2	4.5	-52.81		491.1	-647.1	812.7	803.5	9.20	88.357	
4,300.0	4,300.0	4,322.4	4,321.9	6.3	4.5	-52.70		490.5	-643.9	809.7	800.4	9.33	86.765	
4,400.0	4,400.0	4,412.7	4,412.0	6.5	4.6	-52.83		488.2	-643.8	808.1	798.6	9.45	85.467	
4,500.0	4,500.0	4,512.6	4,512.0	6.6	4.6	-52.97		485.7	-643.9	806.6	797.0	9.58	84.168	
4,600.0	4,600.0	4,607.1	4,606.5	6.7	4.6	-53.09		483.7	-644.1	805.5	795.8	9.71	82.941	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+FR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,700.0	4,700.0	4,707.1	4,706.4	6.8	4.6	-53.23	481.7	-644.6	804.7	794.9	9.84	81.768	
4,800.0	4,800.0	4,808.0	4,807.3	6.9	4.7	-53.37	479.7	-645.2	804.0	794.0	9.97	80.619	
4,900.0	4,900.0	4,908.2	4,907.5	7.0	4.7	-53.53	477.3	-645.9	803.1	793.0	10.10	79.495	
5,000.0	5,000.0	5,008.2	5,007.4	7.2	4.7	-53.70	474.9	-646.6	802.3	792.0	10.23	78.393	
5,100.0	5,100.0	5,107.2	5,106.3	7.3	4.8	-53.86	472.6	-647.2	801.4	791.0	10.37	77.314	
5,200.0	5,200.0	5,206.9	5,206.0	7.4	4.8	-54.03	470.3	-648.0	800.7	790.2	10.50	76.280	
5,300.0	5,300.0	5,306.2	5,305.3	7.5	4.8	-54.20	468.0	-648.8	800.0	789.4	10.63	75.272	
5,400.0	5,400.0	5,406.0	5,405.1	7.6	4.9	-54.37	465.7	-649.8	799.4	788.7	10.76	74.300	
5,500.0	5,500.0	5,507.1	5,506.1	7.8	4.9	-54.54	463.3	-650.6	798.8	787.9	10.89	73.328	
5,600.0	5,600.0	5,607.2	5,606.3	7.9	5.0	7.85	461.0	-651.4	796.3	785.3	11.04	72.132	
5,700.0	5,699.8	5,706.7	5,705.7	7.9	5.0	7.75	458.7	-652.3	790.5	779.3	11.20	70.571	
5,769.4	5,769.0	5,774.7	5,773.7	8.0	5.1	7.70	457.1	-652.8	784.4	773.1	11.31	69.338	
5,800.0	5,799.5	5,805.0	5,804.0	8.0	5.1	7.68	456.4	-653.1	781.4	770.1	11.36	68.772	
5,900.0	5,899.0	5,902.9	5,901.8	8.1	5.1	7.59	454.2	-654.1	771.7	760.1	11.52	66.963	
6,000.0	5,998.6	6,003.0	6,002.0	8.2	5.2	7.50	452.0	-655.2	762.0	750.3	11.69	65.206	
6,100.0	6,098.1	6,101.1	6,100.0	8.3	5.3	7.41	449.9	-656.4	752.4	740.5	11.85	63.508	
6,200.0	6,197.7	6,199.7	6,198.5	8.3	5.3	7.31	447.8	-657.6	742.9	730.9	12.01	61.870	
6,300.0	6,297.3	6,299.1	6,297.9	8.4	5.4	7.22	445.8	-659.1	733.7	721.5	12.17	60.290	
6,400.0	6,396.8	6,398.4	6,397.2	8.5	5.5	7.11	443.8	-660.5	724.4	712.1	12.33	58.750	
6,500.0	6,496.4	6,495.9	6,494.6	8.6	5.5	7.01	441.9	-662.0	715.2	702.7	12.49	57.263	
6,600.0	6,595.9	6,595.2	6,594.0	8.7	5.6	6.90	440.0	-663.6	706.2	693.5	12.65	55.817	
6,700.0	6,695.5	6,695.7	6,694.4	8.8	5.7	6.78	438.1	-665.3	697.1	684.3	12.81	54.406	
6,800.0	6,795.0	6,797.6	6,796.2	8.8	5.7	6.71	436.5	-666.5	687.9	674.9	12.98	52.982	
6,900.0	6,894.6	6,895.1	6,893.8	8.9	5.8	6.66	437.1	-666.2	678.6	665.5	13.16	51.557	
7,000.0	6,994.2	6,994.6	6,993.3	9.0	5.8	7.04	438.0	-665.8	669.5	656.2	13.34	50.178	
7,100.0	7,093.7	7,095.4	7,094.1	9.1	5.9	7.22	438.8	-665.3	660.3	646.8	13.53	48.819	
7,200.0	7,193.3	7,195.0	7,193.7	9.2	5.9	7.39	439.5	-665.0	651.1	637.4	13.71	47.504	
7,300.0	7,292.8	7,294.6	7,293.3	9.3	6.0	7.56	440.1	-664.7	641.9	628.0	13.89	46.209	
7,400.0	7,392.4	7,395.6	7,394.3	9.4	6.0	7.73	440.5	-664.2	632.4	618.4	14.08	44.918	
7,500.0	7,492.0	7,495.0	7,493.7	9.5	6.1	7.89	440.7	-663.8	622.9	608.6	14.27	43.643	
7,600.0	7,591.5	7,595.6	7,594.2	9.6	6.1	8.05	440.9	-663.2	613.2	598.8	14.47	42.380	
7,700.0	7,691.1	7,696.5	7,695.1	9.7	6.2	8.23	441.0	-662.5	603.4	588.8	14.67	41.127	
7,800.0	7,790.6	7,797.1	7,795.7	9.8	6.3	8.40	441.0	-661.7	593.5	578.6	14.88	39.889	
7,900.0	7,890.2	7,897.7	7,896.4	9.9	6.4	8.57	440.8	-660.8	583.3	568.2	15.09	38.664	
8,000.0	7,989.7	7,996.9	7,995.5	10.0	6.4	8.73	440.4	-659.9	573.1	557.8	15.30	37.466	
8,100.0	8,089.3	8,096.8	8,095.5	10.1	6.5	8.90	440.0	-659.0	562.8	547.3	15.51	36.292	
8,200.0	8,188.9	8,195.7	8,194.3	10.2	6.6	9.05	439.5	-658.2	552.6	536.9	15.72	35.153	
8,300.0	8,288.4	8,294.6	8,293.2	10.3	6.7	9.18	438.8	-657.7	542.6	526.6	15.93	34.054	
8,400.0	8,388.0	8,394.1	8,392.7	10.4	6.8	9.30	438.0	-657.4	532.5	516.4	16.14	32.988	
8,500.0	8,487.5	8,494.2	8,492.9	10.5	6.9	9.40	437.0	-657.0	522.4	506.0	16.35	31.941	
8,600.0	8,587.1	8,633.3	8,631.6	10.6	10.2	9.02	429.1	-655.6	509.1	491.5	17.62	28.891	
8,700.0	8,686.7	8,846.8	8,833.9	10.7	13.3	3.34	366.0	-648.7	480.2	460.9	19.34	24.829	
8,800.0	8,786.2	8,970.3	8,938.1	10.8	13.7	-4.15	300.4	-640.2	437.3	418.1	19.25	22.717	
8,900.0	8,885.8	9,126.1	9,045.3	10.9	14.4	-20.58	189.6	-624.1	389.2	369.9	19.37	20.090	
9,000.0	8,985.3	9,213.5	9,091.7	11.0	14.5	-33.44	117.6	-607.4	344.8	327.0	17.86	19.302	
9,100.0	9,084.9	9,258.1	9,112.9	11.1	14.6	-40.73	79.8	-596.8	317.1	300.7	16.45	19.276	
9,157.0	9,141.7	9,277.0	9,121.0	11.2	14.6	-43.95	63.3	-592.4	312.6	295.7	16.89	18.509 CC, ES	
9,200.0	9,184.4	9,290.1	9,126.3	11.2	14.6	-46.19	51.8	-589.3	315.2	297.2	18.03	17.481	
9,300.0	9,284.0	9,315.5	9,135.9	11.4	14.7	-50.59	28.9	-583.4	340.9	318.7	22.20	15.353	
9,400.0	9,383.6	9,340.0	9,144.0	11.5	14.7	-54.79	6.6	-577.6	389.5	363.2	26.26	14.829 SF	
9,500.0	9,483.1	9,351.5	9,147.5	11.6	14.7	-56.75	-4.0	-574.8	454.1	424.8	29.24	15.530	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,600.0	9,582.7	9,363.5	9,150.8	11.7	14.7	-58.75	-15.1	-571.9	529.3	498.0	31.27	16.923		
9,700.0	9,682.2	9,371.0	9,152.8	11.8	14.7	-60.00	-22.2	-570.0	611.2	578.5	32.69	18.695		
9,800.0	9,781.8	9,381.3	9,155.2	11.9	14.7	-61.69	-31.9	-567.5	697.7	663.9	33.74	20.680		
9,900.0	9,881.3	9,388.2	9,156.8	12.0	14.7	-62.80	-38.3	-565.8	787.2	752.6	34.55	22.787		
10,000.0	9,980.9	9,404.0	9,160.0	12.1	14.8	-65.30	-53.3	-561.8	879.0	843.8	35.22	24.959		
10,100.0	10,080.5	9,404.0	9,160.0	12.2	14.8	-65.30	-53.3	-561.8	972.1	936.3	35.78	27.168		
10,200.0	10,180.0	9,404.0	9,160.0	12.4	14.8	-65.30	-53.3	-561.8	1,066.5	1,030.2	36.28	29.396		
10,300.0	10,279.6	9,404.0	9,160.0	12.5	14.8	-65.30	-53.3	-561.8	1,161.8	1,125.0	36.73	31.627		
10,400.0	10,379.1	9,414.0	9,161.8	12.6	14.8	-66.84	-62.8	-559.4	1,257.7	1,220.5	37.17	33.837		
10,500.0	10,478.7	9,418.6	9,162.7	12.7	14.8	-67.54	-67.2	-558.2	1,354.2	1,316.6	37.58	36.035		
10,600.0	10,578.3	9,422.9	9,163.4	12.8	14.8	-68.17	-71.3	-557.2	1,451.1	1,413.2	37.98	38.212		
10,700.0	10,677.8	9,435.0	9,165.3	12.9	14.8	-69.94	-82.9	-554.3	1,548.5	1,510.1	38.37	40.353		
10,800.0	10,777.4	9,435.0	9,165.3	13.1	14.8	-69.94	-82.9	-554.3	1,646.1	1,607.3	38.75	42.481		
10,900.0	10,876.9	9,435.0	9,165.3	13.2	14.8	-69.94	-82.9	-554.3	1,743.9	1,704.8	39.12	44.580		
11,000.0	10,976.5	9,435.0	9,165.3	13.3	14.8	-69.94	-82.9	-554.3	1,842.0	1,802.5	39.48	46.651		
11,100.0	11,076.0	9,435.0	9,165.3	13.4	14.8	-69.94	-82.9	-554.3	1,940.2	1,900.4	39.85	48.690		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	55.91	482.3	712.5	860.4					
100.0	100.0	101.3	101.3	3.0	3.0	55.94	481.7	712.6	860.2	854.2	6.00	143.355		
200.0	200.0	200.6	200.6	3.0	3.0	56.00	480.9	712.8	859.9	853.8	6.00	143.194		
300.0	300.0	298.1	298.1	3.0	3.0	56.06	480.0	713.1	859.6	853.6	6.01	142.945		
400.0	400.0	398.3	398.3	3.0	3.0	56.10	479.4	713.3	859.4	853.4	6.03	142.580		
411.8	411.8	409.3	409.3	3.0	3.0	56.10	479.3	713.4	859.4	853.4	6.03	142.536		
500.0	500.0	492.0	492.0	3.1	3.0	56.14	479.0	713.9	859.7	853.7	6.04	142.257		
600.0	600.0	590.6	590.6	3.1	3.1	56.18	479.0	714.9	860.5	854.5	6.06	141.904		
700.0	700.0	690.6	690.6	3.1	3.1	56.22	478.9	716.0	861.4	855.3	6.09	141.402		
800.0	800.0	790.0	790.0	3.2	3.1	56.26	478.8	717.0	862.2	856.1	6.13	140.736		
900.0	900.0	893.5	893.4	3.2	3.1	56.30	478.8	718.0	863.0	856.8	6.17	139.901		
1,000.0	1,000.0	985.7	985.6	3.2	3.2	56.32	478.9	718.7	863.7	857.5	6.21	138.982		
1,100.0	1,100.0	1,082.9	1,082.9	3.3	3.2	56.29	480.2	719.7	865.3	859.1	6.27	138.003		
1,200.0	1,200.0	1,188.8	1,188.7	3.4	3.2	56.24	481.7	720.6	866.8	860.5	6.34	136.810		
1,300.0	1,300.0	1,298.3	1,298.2	3.4	3.2	56.07	484.1	719.7	867.4	861.0	6.40	135.607		
1,400.0	1,400.0	1,399.6	1,399.4	3.5	3.2	55.80	487.4	717.1	867.1	860.6	6.45	134.416		
1,500.0	1,500.0	1,501.8	1,501.5	3.5	3.2	55.55	490.4	714.8	866.8	860.3	6.51	133.164		
1,600.0	1,600.0	1,600.4	1,600.1	3.6	3.2	55.36	492.5	712.8	866.4	859.8	6.57	131.872		
1,700.0	1,700.0	1,700.9	1,700.6	3.7	3.3	55.16	494.7	710.7	865.9	859.3	6.63	130.514		
1,800.0	1,800.0	1,803.2	1,802.8	3.8	3.3	54.95	497.1	708.5	865.5	858.8	6.70	129.098		
1,900.0	1,900.0	1,913.4	1,912.9	3.9	3.3	54.74	498.8	705.5	864.2	857.4	6.77	127.568		
2,000.0	2,000.0	2,016.8	2,016.2	3.9	3.3	54.55	500.1	702.3	862.4	855.5	6.85	125.978		
2,100.0	2,100.0	2,121.5	2,120.9	4.0	3.3	54.49	499.2	699.5	859.6	852.7	6.92	124.313		
2,200.0	2,200.0	2,221.6	2,221.0	4.1	3.4	54.45	498.1	696.9	856.9	849.9	6.99	122.585		
2,300.0	2,300.0	2,316.0	2,315.4	4.2	3.4	54.42	497.0	694.8	854.5	847.4	7.07	120.842		
2,400.0	2,400.0	2,416.3	2,415.6	4.3	3.4	54.40	496.1	692.9	852.3	845.2	7.16	119.059		
2,500.0	2,500.0	2,511.2	2,510.6	4.4	3.5	54.40	495.1	691.5	850.6	843.3	7.25	117.304		
2,600.0	2,600.0	2,612.1	2,611.5	4.5	3.5	54.39	494.2	690.0	848.9	841.5	7.35	115.481		
2,700.0	2,700.0	2,711.0	2,710.3	4.6	3.5	54.40	493.3	688.9	847.4	839.9	7.46	113.663		
2,800.0	2,800.0	2,818.0	2,817.2	4.7	3.6	54.37	492.3	687.1	845.5	837.9	7.57	111.700		
2,900.0	2,900.0	2,917.7	2,917.0	4.8	3.7	54.31	491.7	684.5	843.1	835.4	7.69	109.699		
3,000.0	3,000.0	3,010.1	3,009.4	4.9	3.7	54.28	491.1	683.0	841.3	833.5	7.80	107.827		
3,100.0	3,100.0	3,105.5	3,104.7	5.0	3.8	54.33	489.8	682.4	840.1	832.1	7.92	106.056		
3,200.0	3,200.0	3,204.2	3,203.4	5.1	3.8	54.39	488.6	682.4	839.3	831.2	8.04	104.394		
3,300.0	3,300.0	3,299.8	3,299.0	5.2	3.9	54.45	487.8	682.5	838.9	830.7	8.16	102.844		
3,400.0	3,400.0	3,398.8	3,398.0	5.3	3.9	54.48	487.3	682.5	838.6	830.4	8.28	101.282		
3,407.4	3,407.4	3,405.7	3,404.9	5.3	3.9	54.48	487.2	682.6	838.6	830.4	8.29	101.185		
3,500.0	3,500.0	3,495.0	3,494.2	5.4	3.9	54.56	486.4	683.5	838.9	830.5	8.38	100.058		
3,600.0	3,600.0	3,601.0	3,600.2	5.5	4.0	54.59	486.1	683.7	838.9	830.4	8.51	98.575		
3,700.0	3,700.0	3,700.0	3,699.2	5.7	4.1	54.58	485.9	683.4	838.5	829.9	8.64	97.041		
3,800.0	3,800.0	3,798.5	3,797.6	5.8	4.1	54.67	484.8	684.0	838.4	829.6	8.76	95.727		
3,900.0	3,900.0	3,900.0	3,899.2	5.9	4.2	54.83	482.8	685.3	838.3	829.5	8.87	94.500		
4,000.0	4,000.0	4,006.5	4,005.7	6.0	4.2	54.82	482.5	684.4	837.5	828.5	9.01	92.936		
4,100.0	4,100.0	4,103.5	4,102.6	6.1	4.3	54.69	483.6	682.7	836.7	827.5	9.15	91.482		
4,200.0	4,200.0	4,202.7	4,201.8	6.2	4.3	54.60	484.4	681.6	836.2	826.9	9.28	90.101		
4,300.0	4,300.0	4,307.0	4,306.1	6.3	4.4	54.54	484.6	680.5	835.5	826.1	9.43	88.609		
4,400.0	4,400.0	4,408.9	4,408.0	6.5	4.5	54.50	484.5	679.2	834.4	824.8	9.58	87.055		
4,500.0	4,500.0	4,510.6	4,509.7	6.6	4.6	54.47	484.0	677.8	833.0	823.3	9.74	85.484		
4,600.0	4,600.0	4,612.1	4,611.1	6.7	4.6	54.42	483.7	676.1	831.5	821.6	9.91	83.930		
4,700.0	4,700.0	4,714.3	4,713.3	6.8	4.7	54.37	483.3	674.3	829.8	819.7	10.07	82.379		
4,800.0	4,800.0	4,827.6	4,826.6	6.9	4.8	54.19	483.4	670.1	826.8	816.5	10.25	80.649		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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	4,900.0	4,931.3	4,930.1	7.0	4.9	53.96		483.8	665.0	823.1	812.7	10.42	78.956	
5,000.0	5,000.0	5,039.0	5,037.7	7.2	5.0	53.67		484.3	658.5	818.4	807.8	10.61	77.158	
5,100.0	5,100.0	5,140.3	5,138.7	7.3	5.1	53.34		485.0	651.7	813.4	802.6	10.79	75.420	
5,200.0	5,200.0	5,240.2	5,238.4	7.4	5.2	53.02		485.6	644.9	808.3	797.3	10.96	73.727	
5,300.0	5,300.0	5,338.7	5,336.7	7.5	5.3	52.68		486.4	638.0	803.2	792.1	11.14	72.093	
5,400.0	5,400.0	5,436.6	5,434.4	7.6	5.4	52.35		487.3	631.5	798.5	787.2	11.32	70.541	
5,500.0	5,500.0	5,534.7	5,532.3	7.8	5.4	52.01		488.2	625.2	794.0	782.5	11.50	69.046	
5,600.0	5,600.0	5,633.4	5,630.7	7.9	5.5	51.43		489.4	619.0	790.5	778.8	11.64	67.906	
5,700.0	5,699.8	5,734.1	5,731.2	7.9	5.6	51.41		490.7	612.4	788.3	776.6	11.74	67.143	
5,767.1	5,766.8	5,797.8	5,794.8	8.0	5.7	51.40		490.9	609.0	787.9	776.1	11.80	66.777	
5,769.4	5,769.0	5,800.0	5,797.0	8.0	5.7	51.41		490.9	608.9	787.9	776.1	11.80	66.767	
5,800.0	5,799.5	5,831.1	5,828.1	8.0	5.7	51.43		490.9	607.3	787.9	776.1	11.83	66.608	
5,827.2	5,826.5	5,858.2	5,855.1	8.0	5.8	51.44		490.9	606.0	787.9	776.0	11.85	66.464	
5,900.0	5,899.0	5,930.2	5,927.1	8.1	5.8	51.53		490.9	602.4	787.9	776.0	11.92	66.103	
6,000.0	5,998.6	6,029.3	6,026.0	8.2	5.9	51.52		491.0	597.6	788.2	776.2	12.01	65.617	
6,100.0	6,098.1	6,131.4	6,128.0	8.3	6.0	51.59		491.2	592.4	788.3	776.2	12.11	65.085	
6,200.0	6,197.7	6,231.9	6,228.3	8.3	6.1	51.62		491.1	587.3	788.2	776.0	12.21	64.546	
6,300.0	6,297.3	6,331.8	6,328.1	8.4	6.2	51.63		490.8	582.3	788.2	775.9	12.32	64.003	
6,384.9	6,381.8	6,416.8	6,413.0	8.5	6.3	51.70		490.5	578.0	788.1	775.7	12.41	63.529	
6,400.0	6,396.8	6,431.7	6,427.9	8.5	6.3	51.71		490.4	577.2	788.1	775.7	12.42	63.449	
6,500.0	6,496.4	6,531.5	6,527.6	8.6	6.5	51.75		490.0	572.3	788.2	775.7	12.53	62.905	
6,600.0	6,595.9	6,634.1	6,630.1	8.7	6.6	51.78		489.7	566.9	788.0	775.4	12.65	62.311	
6,700.0	6,695.5	6,734.1	6,729.9	8.8	6.7	51.83		489.3	561.5	787.8	775.0	12.76	61.729	
6,800.0	6,795.0	6,834.0	6,829.6	8.8	6.8	51.80		488.8	556.2	787.6	774.7	12.88	61.147	
6,834.7	6,829.6	6,867.3	6,862.9	8.9	6.8	51.84		488.6	554.5	787.6	774.7	12.92	60.957	
6,900.0	6,894.6	6,930.7	6,926.2	8.9	6.9	51.91		488.4	551.3	787.7	774.7	13.00	60.610	
7,000.0	6,994.2	7,031.6	7,027.0	9.0	7.0	51.93		487.9	546.2	787.9	774.7	13.12	60.043	
7,100.0	7,093.7	7,130.6	7,125.9	9.1	7.1	52.07		487.3	541.3	788.1	774.8	13.25	59.486	
7,200.0	7,193.3	7,230.8	7,225.9	9.2	7.2	52.05		486.8	536.5	788.4	775.0	13.38	58.931	
7,300.0	7,292.8	7,329.2	7,324.2	9.3	7.3	52.04		486.1	531.8	788.8	775.3	13.51	58.389	
7,400.0	7,392.4	7,431.1	7,426.1	9.4	7.5	52.10		485.4	527.1	789.4	775.7	13.65	57.823	
7,500.0	7,492.0	7,535.8	7,530.5	9.5	7.6	52.18		485.1	521.2	789.3	775.5	13.80	57.192	
7,600.0	7,591.5	7,636.0	7,630.6	9.6	7.7	52.21		484.6	515.4	789.0	775.1	13.95	56.582	
7,686.1	7,677.2	7,720.1	7,714.6	9.7	7.8	52.27		483.8	510.8	788.9	774.9	14.07	56.076	
7,700.0	7,691.1	7,733.3	7,727.7	9.7	7.8	52.23		483.7	510.1	788.9	774.8	14.09	56.000	
7,800.0	7,790.6	7,831.2	7,825.5	9.8	7.9	52.08		482.8	505.2	789.2	775.0	14.24	55.442	
7,900.0	7,890.2	7,933.8	7,928.0	9.9	8.0	52.53		481.9	500.0	789.5	775.1	14.40	54.844	
8,000.0	7,989.7	8,032.9	8,026.9	10.0	8.1	52.97		480.9	494.7	789.6	775.0	14.55	54.260	
8,100.0	8,089.3	8,132.1	8,126.0	10.1	8.3	53.44		480.8	489.1	789.8	775.1	14.71	53.698	
8,200.0	8,188.9	8,234.0	8,227.7	10.2	8.4	53.70		481.0	483.1	790.1	775.2	14.87	53.121	
8,300.0	8,288.4	8,334.7	8,328.3	10.3	8.5	54.06		481.0	477.1	790.1	775.1	15.04	52.536	
8,400.0	8,388.0	8,432.6	8,426.0	10.4	8.6	54.44		480.6	471.4	790.2	775.0	15.20	51.975	
8,500.0	8,487.5	8,534.7	8,527.9	10.5	8.7	54.84		480.3	465.6	790.5	775.1	15.38	51.394	
8,600.0	8,587.1	8,649.0	8,642.0	10.6	9.4	56.36		478.7	459.1	790.4	774.4	16.01	49.386	
8,700.0	8,686.7	9,018.5	8,978.6	10.7	11.8	136.61		346.1	428.0	774.2	753.3	20.87	37.091	
8,800.0	8,786.2	9,365.7	9,166.5	10.8	13.8	159.68		70.7	359.3	734.2	709.1	25.14	29.210	
8,900.0	8,885.8	9,389.8	9,172.4	10.9	14.0	161.71		48.2	353.2	695.2	671.1	24.09	28.864 SF	
9,000.0	8,985.3	9,411.3	9,177.2	11.0	14.1	163.56		27.9	347.9	668.2	645.1	23.12	28.907	
9,100.0	9,084.9	9,430.0	9,180.8	11.1	14.3	165.17		10.1	343.4	655.0	632.5	22.50	29.108	
9,140.1	9,124.8	9,435.6	9,181.8	11.2	14.3	165.66		4.8	342.1	653.7	631.3	22.40	29.180 CC, ES	
9,200.0	9,184.4	9,442.8	9,182.9	11.2	14.4	166.28		-2.1	340.4	656.4	634.0	22.47	29.218	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD													Offset Well Error:	3.0 usft
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
9,300.0	9,284.0	9,452.8	9,184.4	11.4	14.4	167.15		-11.7	338.1	672.7	649.6	23.12	29.102	
9,400.0	9,383.6	9,460.8	9,185.5	11.5	14.5	167.85		-19.5	336.2	702.9	678.6	24.29	28.938	
9,500.0	9,483.1	9,467.5	9,186.3	11.6	14.6	168.43		-25.9	334.7	745.2	719.4	25.72	28.967	
9,600.0	9,582.7	9,475.0	9,187.2	11.7	14.6	169.08		-33.1	332.9	797.8	770.6	27.23	29.300	
9,700.0	9,682.2	9,475.0	9,187.2	11.8	14.6	169.08		-33.1	332.9	858.8	830.2	28.61	30.014	
9,800.0	9,781.8	9,475.0	9,187.2	11.9	14.6	169.08		-33.1	332.9	926.6	896.7	29.88	31.010	
9,900.0	9,881.3	9,475.0	9,187.2	12.0	14.6	169.08		-33.1	332.9	999.8	968.8	31.02	32.235	
10,000.0	9,980.9	9,475.0	9,187.2	12.1	14.6	169.08		-33.1	332.9	1,077.4	1,045.4	32.03	33.637	
10,100.0	10,080.5	9,475.0	9,187.2	12.2	14.6	169.08		-33.1	332.9	1,158.4	1,125.4	32.93	35.173	
10,200.0	10,180.0	9,475.0	9,187.2	12.4	14.6	169.08		-33.1	332.9	1,242.1	1,208.4	33.75	36.808	
10,300.0	10,279.6	9,475.0	9,187.2	12.5	14.6	169.08		-33.1	332.9	1,328.2	1,293.7	34.48	38.515	
10,400.0	10,379.1	9,492.6	9,188.8	12.6	14.8	170.61		-50.2	329.0	1,415.6	1,380.4	35.25	40.159	
10,500.0	10,478.7	9,493.9	9,188.9	12.7	14.8	170.73		-51.5	328.7	1,504.9	1,469.0	35.88	41.941	
10,600.0	10,578.3	9,495.1	9,189.0	12.8	14.8	170.83		-52.7	328.4	1,595.5	1,559.0	36.47	43.746	
10,700.0	10,677.8	9,496.2	9,189.1	12.9	14.8	170.92		-53.7	328.2	1,687.1	1,650.1	37.03	45.563	
10,800.0	10,777.4	9,497.2	9,189.1	13.1	14.8	171.01		-54.7	328.0	1,779.7	1,742.1	37.56	47.384	
10,900.0	10,876.9	9,498.1	9,189.2	13.2	14.8	171.08		-55.5	327.8	1,873.0	1,834.9	38.07	49.202	
11,000.0	10,976.5	9,498.9	9,189.3	13.3	14.8	171.16		-56.3	327.6	1,966.9	1,928.4	38.56	51.014	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-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	-59.53	486.7	-827.1	959.7				
100.0	100.0	94.7	94.7	3.0	2.0	-59.52	486.9	-827.4	960.0	955.0	5.00	191.952	
200.0	200.0	196.5	196.5	3.0	2.0	-59.52	487.3	-827.9	960.7	955.7	5.01	191.579	
300.0	300.0	292.5	292.5	3.0	2.0	-59.53	487.5	-828.6	961.4	956.4	5.03	191.111	
400.0	400.0	392.5	392.5	3.0	2.0	-59.55	487.7	-829.6	962.4	957.3	5.05	190.553	
500.0	500.0	491.9	491.9	3.1	2.0	-59.57	488.0	-830.6	963.3	958.3	5.07	189.891	
600.0	600.0	592.3	592.3	3.1	2.1	-59.60	487.9	-831.7	964.3	959.2	5.10	189.135	
700.0	700.0	693.6	693.5	3.1	2.1	-59.65	487.7	-832.9	965.2	960.1	5.13	188.259	
800.0	800.0	793.3	793.3	3.2	2.1	-59.68	487.7	-833.9	966.1	960.9	5.16	187.308	
900.0	900.0	896.6	896.6	3.2	2.1	-59.69	487.9	-834.6	966.8	961.6	5.19	186.206	
1,000.0	1,000.0	1,000.5	1,000.5	3.2	2.1	-59.71	487.8	-835.1	967.1	961.9	5.23	184.957	
1,100.0	1,100.0	1,100.3	1,100.3	3.3	2.1	-59.72	487.7	-835.3	967.2	962.0	5.27	183.645	
1,200.0	1,200.0	1,200.8	1,200.7	3.4	2.1	-59.73	487.6	-835.5	967.4	962.0	5.31	182.288	
1,300.0	1,300.0	1,302.3	1,302.3	3.4	2.2	-59.75	487.3	-835.6	967.4	962.0	5.35	180.941	
1,400.0	1,400.0	1,405.0	1,405.0	3.5	2.2	-59.76	487.1	-835.5	967.1	961.8	5.38	179.704	
1,500.0	1,500.0	1,505.1	1,505.1	3.5	2.2	-59.75	487.0	-835.2	966.8	961.4	5.42	178.300	
1,600.0	1,600.0	1,605.2	1,605.1	3.6	2.2	-59.74	487.0	-834.8	966.4	961.0	5.47	176.833	
1,700.0	1,700.0	1,702.7	1,702.6	3.7	2.2	-59.73	487.1	-834.4	966.2	960.7	5.51	175.318	
1,800.0	1,800.0	1,802.2	1,802.2	3.8	2.2	-59.71	487.3	-834.2	966.1	960.5	5.56	173.737	
1,850.9	1,850.9	1,852.6	1,852.5	3.8	2.2	-59.70	487.4	-834.1	966.1	960.5	5.59	172.910	
1,900.0	1,900.0	1,901.1	1,901.1	3.9	2.2	-59.69	487.6	-834.0	966.1	960.5	5.61	172.128	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	2.2	-59.66	488.1	-833.9	966.2	960.5	5.67	170.480	
2,100.0	2,100.0	2,099.5	2,099.4	4.0	2.2	-59.63	488.6	-833.8	966.4	960.7	5.72	168.810	
2,200.0	2,200.0	2,198.6	2,198.6	4.1	2.2	-59.59	489.3	-833.7	966.6	960.9	5.78	167.131	
2,300.0	2,300.0	2,300.4	2,300.3	4.2	2.2	-59.57	489.8	-833.7	966.9	961.0	5.85	165.417	
2,400.0	2,400.0	2,398.9	2,398.9	4.3	2.2	-59.55	490.0	-833.7	967.1	961.2	5.91	163.690	
2,500.0	2,500.0	2,496.2	2,496.2	4.4	2.3	-59.53	490.6	-833.9	967.5	961.5	5.97	161.979	
2,600.0	2,600.0	2,599.2	2,599.1	4.5	2.3	-59.51	491.1	-834.1	967.9	961.9	6.04	160.237	
2,700.0	2,700.0	2,696.7	2,696.6	4.6	2.3	-59.50	491.5	-834.3	968.3	962.2	6.11	158.496	
2,800.0	2,800.0	2,800.2	2,800.2	4.7	2.3	-59.48	491.8	-834.5	968.6	962.5	6.18	156.752	
2,900.0	2,900.0	2,899.6	2,899.5	4.8	2.3	-59.47	492.1	-834.5	968.8	962.6	6.25	155.008	
3,000.0	3,000.0	2,999.6	2,999.5	4.9	2.3	-59.45	492.5	-834.5	969.0	962.7	6.32	153.279	
3,100.0	3,100.0	3,100.3	3,100.2	5.0	2.3	-59.43	492.9	-834.5	969.2	962.8	6.39	151.562	
3,200.0	3,200.0	3,198.8	3,198.8	5.1	2.4	-59.40	493.4	-834.5	969.4	963.0	6.47	149.872	
3,300.0	3,300.0	3,300.1	3,300.0	5.2	2.4	-59.37	494.1	-834.3	969.7	963.1	6.54	148.195	
3,400.0	3,400.0	3,397.7	3,397.7	5.3	2.4	-59.34	494.6	-834.3	970.0	963.3	6.62	146.543	
3,500.0	3,500.0	3,495.0	3,495.0	5.4	2.4	-59.33	495.0	-834.7	970.5	963.8	6.69	144.961	
3,600.0	3,600.0	3,597.5	3,597.5	5.5	2.4	-59.35	495.0	-835.4	971.1	964.3	6.77	143.352	
3,700.0	3,700.0	3,698.1	3,698.0	5.7	2.4	-59.36	495.0	-835.9	971.5	964.6	6.85	141.752	
3,800.0	3,800.0	3,799.2	3,799.2	5.8	2.4	-59.36	495.2	-836.1	971.8	964.8	6.94	140.090	
3,900.0	3,900.0	3,899.6	3,899.6	5.9	2.5	-59.36	495.4	-836.3	972.0	965.0	7.02	138.437	
4,000.0	4,000.0	4,002.5	4,002.5	6.0	2.5	-59.36	495.4	-836.3	972.1	965.0	7.09	137.034	
4,100.0	4,100.0	4,104.3	4,104.2	6.1	2.5	-59.36	495.2	-836.2	971.9	964.7	7.16	135.691	
4,162.3	4,162.3	4,163.9	4,163.9	6.2	2.5	-59.37	495.2	-836.2	971.8	964.6	7.21	134.867	
4,200.0	4,200.0	4,200.0	4,199.9	6.2	2.5	-59.37	495.1	-836.2	971.8	964.6	7.23	134.383	
4,300.0	4,300.0	4,299.7	4,299.6	6.3	2.5	-59.37	495.2	-836.4	972.0	964.7	7.31	132.950	
4,400.0	4,400.0	4,400.0	4,400.0	6.5	2.5	-59.36	495.5	-836.4	972.2	964.8	7.40	131.435	
4,500.0	4,500.0	4,500.0	4,499.9	6.6	2.5	-59.34	495.8	-836.4	972.3	964.9	7.48	129.950	
4,600.0	4,600.0	4,599.8	4,599.7	6.7	2.5	-59.32	496.2	-836.4	972.5	965.0	7.57	128.488	
4,700.0	4,700.0	4,700.1	4,700.0	6.8	2.5	-59.30	496.5	-836.4	972.7	965.0	7.66	127.056	
4,800.0	4,800.0	4,800.8	4,800.8	6.9	2.6	-59.29	496.9	-836.4	972.8	965.1	7.74	125.654	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-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	
4,900.0	4,900.0	4,900.0	4,899.9	7.0	2.6	-59.27	497.2	-836.3	973.0	965.1	7.83	124.276		
5,000.0	5,000.0	5,001.3	5,001.2	7.2	2.6	-59.25	497.6	-836.2	973.1	965.2	7.92	122.930		
5,100.0	5,100.0	5,102.7	5,102.6	7.3	2.6	-59.23	497.8	-836.0	973.0	965.0	8.00	121.648		
5,132.9	5,132.9	5,134.5	5,134.5	7.3	2.6	-59.22	497.9	-836.0	973.0	965.0	8.03	121.231		
5,200.0	5,200.0	5,200.0	5,199.9	7.4	2.6	-59.21	498.1	-836.0	973.1	965.0	8.08	120.398		
5,300.0	5,300.0	5,298.1	5,298.1	7.5	2.6	-59.22	498.2	-836.2	973.4	965.2	8.17	119.111		
5,400.0	5,400.0	5,402.0	5,401.9	7.6	2.6	-59.23	498.0	-836.5	973.6	965.3	8.26	117.894		
5,500.0	5,500.0	5,503.0	5,502.9	7.8	2.6	-59.25	497.8	-836.6	973.5	965.1	8.34	116.740		
5,600.0	5,600.0	5,602.8	5,602.7	7.9	2.6	3.29	497.5	-836.6	971.6	963.2	8.43	115.206		
5,700.0	5,699.8	5,702.6	5,702.5	7.9	2.6	3.30	497.2	-836.6	966.3	957.7	8.54	113.089		
5,769.4	5,769.0	5,770.9	5,770.8	8.0	2.6	3.31	497.0	-836.7	960.5	951.9	8.62	111.402		
5,800.0	5,799.5	5,800.9	5,800.8	8.0	2.6	3.32	496.9	-836.8	957.7	949.0	8.66	110.628		
5,900.0	5,899.0	5,900.8	5,900.7	8.1	2.6	3.33	496.7	-836.9	948.3	939.5	8.77	108.108		
6,000.0	5,998.6	6,001.0	6,000.9	8.2	2.6	3.35	496.4	-837.0	938.9	930.0	8.89	105.659		
6,100.0	6,098.1	6,103.4	6,103.4	8.3	2.6	3.37	496.1	-836.9	929.3	920.3	9.00	103.286		
6,200.0	6,197.7	6,201.7	6,201.6	8.3	2.6	3.40	495.9	-836.7	919.6	910.5	9.11	100.993		
6,300.0	6,297.3	6,300.1	6,300.0	8.4	2.6	3.45	496.1	-836.4	910.0	900.8	9.22	98.694		
6,400.0	6,396.8	6,399.7	6,399.6	8.5	2.7	3.51	496.3	-836.1	900.5	891.2	9.34	96.430		
6,500.0	6,496.4	6,498.6	6,498.6	8.6	2.7	3.57	496.5	-835.9	891.1	881.6	9.46	94.213		
6,600.0	6,595.9	6,599.2	6,599.1	8.7	2.7	3.62	496.6	-835.6	881.6	872.0	9.58	92.047		
6,700.0	6,695.5	6,699.4	6,699.3	8.8	2.7	3.68	496.7	-835.3	872.0	862.3	9.70	89.936		
6,800.0	6,795.0	6,799.2	6,799.1	8.8	2.7	3.73	496.7	-835.0	862.3	852.5	9.81	87.873		
6,900.0	6,894.6	6,899.9	6,899.8	8.9	2.7	3.78	496.6	-834.6	852.6	842.7	9.93	85.854		
7,000.0	6,994.2	6,996.8	6,996.7	9.0	2.7	3.81	496.4	-834.5	843.0	832.9	10.05	83.907		
7,100.0	7,093.7	7,095.6	7,095.5	9.1	2.7	3.83	496.1	-834.6	833.5	823.4	10.17	81.975		
7,200.0	7,193.3	7,195.0	7,194.9	9.2	2.7	3.86	495.9	-834.7	824.2	813.9	10.29	80.077		
7,300.0	7,292.8	7,293.0	7,292.9	9.3	2.7	3.88	495.7	-834.9	814.9	804.5	10.42	78.225		
7,400.0	7,392.4	7,394.0	7,393.9	9.4	2.7	3.91	495.5	-835.1	805.6	795.1	10.54	76.404		
7,500.0	7,492.0	7,493.1	7,493.0	9.5	2.7	3.93	495.3	-835.3	796.3	785.6	10.67	74.627		
7,600.0	7,591.5	7,591.8	7,591.7	9.6	2.7	3.96	495.1	-835.6	787.0	776.2	10.80	72.886		
7,700.0	7,691.1	7,690.8	7,690.7	9.7	2.7	4.00	495.2	-835.8	777.9	767.0	10.93	71.168		
7,800.0	7,790.6	7,790.8	7,790.7	9.8	2.7	4.06	495.4	-835.9	768.7	757.7	11.06	69.481		
7,900.0	7,890.2	7,889.6	7,889.5	9.9	2.8	4.12	495.6	-836.1	759.6	748.4	11.20	67.833		
8,000.0	7,989.7	7,990.3	7,990.2	10.0	2.8	4.16	495.6	-836.3	750.5	739.2	11.33	66.236		
8,100.0	8,089.3	8,094.0	8,093.9	10.1	2.8	4.20	495.4	-836.3	741.0	729.6	11.46	64.685		
8,200.0	8,188.9	8,194.2	8,194.1	10.2	2.8	4.25	495.2	-835.9	731.2	719.6	11.58	63.149		
8,300.0	8,288.4	8,293.4	8,293.4	10.3	2.8	4.30	494.8	-835.6	721.3	709.6	11.70	61.646		
8,400.0	8,388.0	8,391.9	8,391.8	10.4	2.8	4.33	494.4	-835.4	711.6	699.8	11.82	60.182		
8,500.0	8,487.5	8,491.7	8,491.6	10.5	2.8	4.36	493.9	-835.3	701.9	689.9	11.95	58.739		
8,600.0	8,587.1	8,591.5	8,591.4	10.6	2.8	4.40	493.4	-835.2	692.2	680.1	12.07	57.322		
8,700.0	8,686.7	8,689.4	8,689.3	10.7	2.8	4.44	493.1	-835.0	682.5	670.3	12.20	55.949		
8,800.0	8,786.2	8,791.3	8,791.2	10.8	2.8	4.49	492.8	-834.9	672.9	660.5	12.33	54.575		
8,900.0	8,885.8	8,888.5	8,888.4	10.9	2.8	4.52	492.3	-834.8	663.1	650.7	12.45	53.254		
9,000.0	8,985.3	8,987.6	8,987.5	11.0	2.8	4.53	491.7	-835.0	653.7	641.1	12.58	51.960		
9,100.0	9,084.9	9,085.0	9,084.9	11.1	2.8	4.53	491.1	-835.4	644.4	631.7	12.71	50.710		
9,200.0	9,184.4	9,188.9	9,188.8	11.2	2.8	4.53	490.5	-835.8	635.0	622.1	12.84	49.446		
9,300.0	9,284.0	9,287.0	9,286.8	11.4	2.8	4.46	489.1	-836.3	625.2	612.3	12.96	48.232		
9,400.0	9,383.6	9,385.9	9,385.8	11.5	2.8	4.32	487.1	-837.3	615.8	602.7	13.08	47.063		
9,500.0	9,483.1	9,486.2	9,486.0	11.6	2.8	4.23	485.6	-838.1	606.2	593.0	13.21	45.896		
9,600.0	9,582.7	9,585.5	9,585.3	11.7	2.8	4.23	484.9	-838.3	596.7	583.3	13.34	44.737		
9,700.0	9,682.2	9,684.5	9,684.4	11.8	2.8	4.27	484.6	-838.3	587.2	573.7	13.47	43.600		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-MWD													Offset Well Error:	2.0 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	
9,800.0	9,781.8	9,783.7	9,783.5	11.9	2.8	4.30	484.3	-838.5	577.8	564.2	13.60	42.486		
9,900.0	9,881.3	9,882.3	9,882.2	12.0	2.9	4.33	483.9	-838.7	568.4	554.7	13.78	41.259		
10,000.0	9,980.9	9,993.6	9,993.5	12.1	3.0	4.27	482.6	-839.2	558.9	544.9	14.02	39.865		
10,100.0	10,080.5	10,133.4	10,130.2	12.2	4.0	1.67	456.3	-844.6	542.9	528.1	14.78	36.733		
10,200.0	10,180.0	10,335.9	10,309.2	12.4	5.2	-8.25	365.1	-855.1	519.3	501.6	17.68	29.380		
10,300.0	10,279.6	10,433.9	10,383.5	12.5	5.6	-15.82	301.2	-854.6	487.1	470.0	17.14	28.416		
10,400.0	10,379.1	10,522.7	10,444.2	12.6	6.0	-24.06	236.5	-852.6	460.9	444.6	16.27	28.336		
10,500.0	10,478.7	10,580.7	10,480.1	12.7	6.5	-30.10	191.0	-850.1	445.1	429.6	15.51	28.697		
10,548.0	10,526.5	10,602.5	10,493.0	12.8	6.7	-32.45	173.4	-849.4	443.2	427.3	15.82	28.005 CC, ES		
10,600.0	10,578.3	10,626.4	10,506.8	12.8	6.9	-35.05	153.9	-848.9	445.4	428.7	16.77	26.558		
10,700.0	10,677.8	10,669.2	10,530.4	12.9	7.4	-39.75	118.3	-848.2	462.6	442.7	19.91	23.233		
10,800.0	10,777.4	10,702.8	10,547.2	13.1	7.8	-43.49	89.1	-847.5	495.8	471.8	23.94	20.705		
10,900.0	10,876.9	10,728.5	10,558.8	13.2	8.1	-46.35	66.2	-847.0	543.2	515.3	27.90	19.466		
11,000.0	10,976.5	10,747.0	10,566.5	13.3	8.4	-48.40	49.4	-846.6	602.1	570.7	31.32	19.222		
11,100.0	11,076.0	10,774.0	10,576.8	13.4	8.7	-51.32	24.5	-846.3	669.7	635.9	33.88	19.766		
11,200.0	11,175.6	10,784.4	10,580.5	13.5	8.9	-52.43	14.8	-846.1	743.9	707.8	36.13	20.590		
11,300.0	11,275.2	10,805.0	10,587.3	13.6	9.2	-54.60	-4.7	-845.7	823.1	785.3	37.79	21.780		
11,400.0	11,374.7	10,805.0	10,587.3	13.8	9.2	-54.60	-4.7	-845.7	905.9	866.6	39.34	23.031		
11,500.0	11,474.3	10,820.7	10,591.9	13.9	9.4	-56.21	-19.7	-845.4	991.7	951.2	40.48	24.498		
11,600.0	11,573.8	10,837.0	10,596.4	14.0	9.6	-57.86	-35.3	-845.0	1,079.7	1,038.2	41.45	26.047		
11,626.9	11,600.6	10,837.0	10,596.4	14.0	9.6	-57.86	-35.3	-845.0	1,103.6	1,061.9	41.72	26.454		
11,650.0	11,623.6	10,837.0	10,596.4	14.1	9.6	-33.22	-35.3	-845.0	1,124.1	1,082.4	41.68	26.968		
11,675.0	11,648.4	10,837.0	10,596.4	14.1	9.6	-15.69	-35.3	-845.0	1,145.8	1,103.9	41.93	27.325		
11,700.0	11,673.1	10,837.0	10,596.4	14.1	9.6	-6.22	-35.3	-845.0	1,167.1	1,124.9	42.19	27.665		
11,725.0	11,697.6	10,837.0	10,596.4	14.1	9.6	-1.07	-35.3	-845.0	1,187.9	1,145.5	42.44	27.989		
11,750.0	11,721.9	10,848.4	10,599.4	14.1	9.8	1.23	-46.3	-844.7	1,208.1	1,165.5	42.64	28.336		
11,775.0	11,745.8	10,852.3	10,600.3	14.1	9.9	2.83	-50.1	-844.6	1,227.7	1,184.9	42.87	28.637		
11,800.0	11,769.3	10,856.4	10,601.3	14.1	9.9	3.75	-54.1	-844.6	1,246.8	1,203.7	43.11	28.922		
11,825.0	11,792.3	10,868.0	10,604.0	14.1	10.1	3.98	-65.4	-844.4	1,265.2	1,221.9	43.31	29.215		
11,850.0	11,814.8	10,868.0	10,604.0	14.1	10.1	4.47	-65.4	-844.4	1,282.9	1,239.4	43.56	29.449		
11,875.0	11,836.8	10,868.0	10,604.0	14.1	10.1	4.78	-65.4	-844.4	1,299.9	1,256.1	43.81	29.669		
11,900.0	11,858.1	10,868.0	10,604.0	14.1	10.1	4.98	-65.4	-844.4	1,316.3	1,272.2	44.06	29.875		
11,925.0	11,878.7	10,879.9	10,606.5	14.1	10.3	4.71	-77.0	-844.2	1,331.8	1,287.5	44.26	30.093		
11,950.0	11,898.5	10,884.9	10,607.5	14.1	10.3	4.64	-82.0	-844.1	1,346.6	1,302.1	44.47	30.277		
11,975.0	11,917.5	10,899.0	10,610.1	14.2	10.5	4.29	-95.8	-843.8	1,360.6	1,316.0	44.66	30.468		
12,000.0	11,935.7	10,899.0	10,610.1	14.2	10.5	4.33	-95.8	-843.8	1,373.7	1,328.8	44.89	30.605		
12,025.0	11,952.9	10,899.0	10,610.1	14.2	10.5	4.36	-95.8	-843.8	1,386.0	1,340.9	45.10	30.729		
12,050.0	11,969.2	10,911.3	10,612.1	14.2	10.7	4.06	-107.9	-843.6	1,397.5	1,352.2	45.28	30.863		
12,075.0	11,984.5	10,920.6	10,613.6	14.2	10.9	3.85	-117.1	-843.5	1,408.0	1,362.5	45.46	30.972		
12,100.0	11,998.7	10,931.0	10,615.1	14.3	11.0	3.62	-127.4	-843.3	1,417.6	1,371.9	45.63	31.065		
12,125.0	12,011.8	10,943.7	10,616.9	14.3	11.2	3.35	-139.9	-843.0	1,426.2	1,380.4	45.79	31.146		
12,150.0	12,023.9	10,962.0	10,619.5	14.3	11.5	2.98	-158.1	-842.6	1,433.8	1,387.8	45.93	31.217		
12,175.0	12,034.7	10,962.0	10,619.5	14.4	11.5	3.00	-158.1	-842.6	1,440.3	1,394.2	46.11	31.237		
12,200.0	12,044.4	10,978.0	10,621.5	14.4	11.7	2.70	-173.9	-842.2	1,445.9	1,399.6	46.25	31.263		
12,225.0	12,052.8	10,994.0	10,623.4	14.4	12.0	2.41	-189.8	-841.9	1,450.5	1,404.1	46.38	31.272		
12,250.0	12,060.0	10,994.0	10,623.4	14.5	12.0	2.44	-189.8	-841.9	1,454.0	1,407.5	46.54	31.241		
12,275.0	12,066.0	10,994.0	10,623.4	14.5	12.0	2.46	-189.8	-841.9	1,456.7	1,410.0	46.69	31.198		
12,300.0	12,070.7	11,010.4	10,625.0	14.6	12.2	2.18	-206.2	-841.4	1,458.3	1,411.5	46.82	31.148		
12,325.0	12,074.1	11,025.0	10,626.0	14.6	12.5	1.93	-220.7	-840.9	1,459.0	1,412.0	46.94	31.082		
12,350.0	12,076.2	11,025.0	10,626.0	14.6	12.5	1.96	-220.7	-840.9	1,458.6	1,411.5	47.07	30.991		
12,375.0	12,077.0	11,025.0	10,626.0	14.7	12.5	1.99	-220.7	-840.9	1,457.4	1,410.2	47.18	30.889		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-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	
12,378.4	12,077.0	11,025.0	10,626.0	14.7	12.5	1.99	-220.7	-840.9	1,457.1	1,409.9	47.20	30.874		
12,400.0	12,077.0	11,038.0	10,626.7	14.7	12.7	1.81	-233.7	-840.5	1,455.5	1,408.3	47.29	30.778		
12,500.0	12,076.9	11,070.8	10,627.3	15.0	13.2	1.42	-266.4	-839.4	1,451.7	1,404.0	47.68	30.446		
12,536.1	12,076.8	11,088.0	10,627.3	15.1	13.5	1.17	-283.6	-838.9	1,451.5	1,403.6	47.81	30.357		
12,600.0	12,076.8	11,126.3	10,626.6	15.2	14.1	0.62	-321.9	-837.8	1,452.1	1,404.1	48.04	30.228		
12,700.0	12,076.7	11,211.5	10,624.1	15.5	15.4	-0.48	-407.0	-834.8	1,455.1	1,406.6	48.44	30.041		
12,800.0	12,076.6	11,346.9	10,621.3	15.8	17.6	-1.90	-542.1	-827.2	1,457.7	1,408.8	48.95	29.782		
12,900.0	12,076.4	11,501.7	10,625.1	16.1	20.2	-2.95	-696.7	-819.2	1,455.5	1,405.9	49.59	29.352		
13,000.0	12,076.3	11,586.6	10,627.7	16.4	21.5	-3.21	-781.5	-815.0	1,452.8	1,402.7	50.11	28.991		
13,041.4	12,076.3	11,621.0	10,628.5	16.6	22.1	-3.26	-815.8	-813.3	1,452.0	1,401.6	50.33	28.849		
13,100.0	12,076.2	11,664.4	10,629.1	16.8	22.8	-3.33	-859.2	-811.3	1,451.2	1,400.5	50.65	28.651		
13,150.0	12,076.2	11,702.4	10,629.3	17.0	23.4	-3.38	-897.1	-809.6	1,451.0	1,400.1	50.93	28.488		
13,200.0	12,076.1	11,740.2	10,629.2	17.2	24.0	-3.43	-934.9	-808.0	1,451.2	1,400.0	51.22	28.331		
13,300.0	12,076.0	11,820.8	10,627.9	17.6	25.4	-3.54	-1,015.4	-804.6	1,452.9	1,401.0	51.84	28.027		
13,400.0	12,075.9	11,940.4	10,626.7	18.0	27.4	-3.80	-1,134.8	-797.0	1,454.1	1,401.6	52.57	27.660		
13,500.0	12,075.8	12,050.6	10,626.3	18.5	29.2	-4.06	-1,244.7	-789.6	1,454.8	1,401.5	53.31	27.290		
13,581.6	12,075.7	12,134.6	10,626.7	18.9	30.6	-4.25	-1,328.6	-784.2	1,454.7	1,400.8	53.92	26.977		
13,600.0	12,075.7	12,151.0	10,626.7	19.0	30.8	-4.29	-1,344.9	-783.2	1,454.7	1,400.6	54.06	26.910		
13,700.0	12,075.6	12,230.1	10,626.4	19.6	32.1	-4.44	-1,423.9	-778.8	1,455.4	1,400.6	54.80	26.557		
13,800.0	12,075.5	12,356.0	10,624.6	20.2	34.2	-4.69	-1,549.5	-771.3	1,457.4	1,401.6	55.74	26.146		
13,888.7	12,075.4	12,442.2	10,625.5	20.7	35.7	-4.93	-1,635.4	-764.6	1,457.0	1,400.4	56.53	25.772		
13,900.0	12,075.4	12,451.7	10,625.5	20.8	35.8	-4.96	-1,644.9	-763.8	1,457.0	1,400.3	56.63	25.727		
14,000.0	12,075.3	12,514.5	10,625.1	21.4	36.9	-5.13	-1,707.5	-758.9	1,458.2	1,400.8	57.45	25.381		
14,100.0	12,075.2	12,589.1	10,622.4	22.1	38.1	-5.33	-1,781.9	-753.0	1,462.3	1,404.0	58.33	25.068		
14,200.0	12,075.1	12,687.1	10,638.3	22.7	43.1	-6.32	-2,077.8	-727.3	1,453.0	1,392.8	60.27	24.109		
14,300.0	12,075.0	12,959.8	10,644.4	23.4	44.3	-6.47	-2,150.1	-723.6	1,445.0	1,383.7	61.27	23.583		
14,400.0	12,074.9	13,043.2	10,650.1	24.1	45.7	-6.60	-2,233.3	-720.5	1,438.5	1,376.2	62.29	23.094		
14,500.0	12,074.8	13,141.0	10,656.2	24.8	47.3	-6.69	-2,330.9	-718.1	1,432.4	1,369.0	63.31	22.624		
14,600.0	12,074.7	13,220.0	10,660.0	25.6	48.6	-6.69	-2,409.8	-718.1	1,427.3	1,363.0	64.35	22.181		
14,700.0	12,074.6	13,292.3	10,662.1	26.3	49.8	-6.62	-2,482.0	-719.6	1,424.0	1,358.6	65.39	21.775		
14,800.0	12,074.5	13,382.4	10,663.4	27.0	51.3	-6.46	-2,572.0	-723.1	1,422.0	1,355.5	66.46	21.397		
14,900.0	12,074.4	13,468.2	10,664.0	27.8	52.7	-6.28	-2,657.8	-727.0	1,420.6	1,353.1	67.51	21.041		
14,944.9	12,074.3	13,502.0	10,663.9	28.1	53.2	-6.20	-2,691.5	-728.8	1,420.4	1,352.4	67.98	20.894		
15,000.0	12,074.3	13,537.6	10,663.4	28.6	53.8	-6.11	-2,727.1	-730.7	1,420.7	1,352.1	68.55	20.726		
15,100.0	12,074.2	13,601.3	10,661.2	29.3	54.8	-5.96	-2,790.6	-733.7	1,423.5	1,353.9	69.55	20.466		
15,200.0	12,074.1	13,730.7	10,657.5	30.1	57.0	-5.86	-2,920.0	-734.9	1,425.9	1,355.0	70.85	20.126		
15,300.0	12,074.0	13,882.0	10,656.4	30.9	59.5	-5.96	-3,071.2	-731.3	1,427.0	1,354.9	72.17	19.774		
15,400.0	12,073.9	13,993.4	10,659.2	31.7	61.3	-6.07	-3,182.5	-727.9	1,424.7	1,351.3	73.40	19.411		
15,500.0	12,073.8	14,068.0	10,660.9	32.5	62.6	-6.21	-3,257.0	-724.1	1,422.8	1,348.3	74.56	19.083		
15,510.4	12,073.8	14,068.0	10,660.9	32.5	62.6	-6.21	-3,257.0	-724.1	1,422.8	1,348.1	74.66	19.056		
15,600.0	12,073.7	14,111.9	10,660.8	33.2	63.3	-6.32	-3,300.8	-721.1	1,423.9	1,348.3	75.67	18.818		
15,700.0	12,073.6	14,162.0	10,658.1	34.0	64.2	-6.44	-3,350.7	-717.5	1,429.3	1,352.6	76.73	18.628		
15,800.0	12,073.5	14,231.1	10,652.6	34.8	65.3	-6.59	-3,419.4	-712.5	1,437.7	1,359.8	77.88	18.461		
15,900.0	12,073.4	14,393.2	10,643.8	35.6	68.0	-7.06	-3,580.6	-698.4	1,443.7	1,364.1	79.62	18.131		
16,000.0	12,073.3	14,475.2	10,640.4	36.4	69.4	-7.35	-3,662.1	-690.0	1,448.8	1,368.0	80.85	17.920		
16,100.0	12,073.2	14,580.4	10,635.0	37.3	71.1	-7.71	-3,766.6	-679.5	1,455.2	1,372.9	82.21	17.701		
16,200.0	12,073.1	14,700.0	10,630.9	38.1	73.1	-8.01	-3,885.8	-670.3	1,459.3	1,375.6	83.65	17.444		
16,300.0	12,072.9	14,790.7	10,627.6	38.9	74.6	-8.22	-3,976.2	-663.7	1,463.7	1,378.8	84.95	17.231		
16,400.0	12,072.8	14,882.1	10,623.7	39.7	76.1	-8.44	-4,067.3	-656.7	1,468.8	1,382.6	86.25	17.029		
16,500.0	12,072.7	14,977.4	10,619.4	40.5	77.7	-8.70	-4,162.1	-648.7	1,474.4	1,386.8	87.60	16.830		
16,600.0	12,072.6	15,133.9	10,614.9	41.3	80.3	-9.04	-4,318.2	-638.2	1,478.0	1,388.7	89.29	16.552		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-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		
16,700.0	12,072.5	15,252.4	10,613.3	42.2	82.3	-9.21	-4,436.5	-632.5	1,480.0	1,389.2	90.76	16.307		
16,800.0	12,072.4	15,370.3	10,614.3	43.0	84.3	-9.38	-4,554.3	-627.5	1,479.5	1,387.3	92.22	16.044		
16,854.1	12,072.4	15,416.0	10,614.7	43.4	85.0	-9.44	-4,600.0	-625.6	1,479.3	1,386.4	92.95	15.914		
16,900.0	12,072.3	15,452.4	10,614.8	43.8	85.6	-9.49	-4,636.3	-623.9	1,479.5	1,385.9	93.57	15.811		
17,000.0	12,072.2	15,549.4	10,614.4	44.6	87.2	-9.65	-4,733.2	-619.2	1,480.4	1,385.4	94.98	15.587		
17,100.0	12,072.1	15,642.3	10,614.0	45.5	88.8	-9.78	-4,826.0	-614.9	1,481.4	1,385.0	96.38	15.371		
17,200.0	12,072.0	15,747.9	10,613.2	46.3	90.5	-9.94	-4,931.5	-610.0	1,482.7	1,384.9	97.84	15.155		
17,300.0	12,071.9	15,844.4	10,612.9	47.1	92.1	-10.11	-5,027.9	-604.8	1,483.7	1,384.5	99.28	14.945		
17,400.0	12,071.8	15,937.1	10,612.3	47.9	93.6	-10.27	-5,120.4	-599.8	1,485.2	1,384.5	100.72	14.746		
17,500.0	12,071.7	16,031.5	10,611.1	48.8	95.2	-10.43	-5,214.7	-594.7	1,487.1	1,384.9	102.17	14.555		
17,600.0	12,071.6	16,130.8	10,609.8	49.6	96.9	-10.59	-5,313.8	-589.3	1,489.2	1,385.6	103.65	14.368		
17,700.0	12,071.5	16,204.6	10,608.1	50.5	98.1	-10.71	-5,387.5	-585.3	1,492.2	1,387.2	105.01	14.210		
17,800.0	12,071.4	16,344.0	10,605.5	51.3	100.4	-11.00	-5,526.5	-576.1	1,495.1	1,388.3	106.77	14.004		
17,900.0	12,071.3	16,444.4	10,605.2	52.1	102.1	-11.27	-5,626.7	-568.2	1,496.7	1,388.4	108.34	13.815		
18,000.0	12,071.2	16,601.4	10,608.5	53.0	104.7	-11.73	-5,783.1	-555.6	1,495.9	1,385.8	110.16	13.580		
18,100.0	12,071.1	16,697.6	10,612.4	53.8	106.3	-12.04	-5,878.8	-547.4	1,493.5	1,381.7	111.78	13.362		
18,200.0	12,071.0	16,808.5	10,617.4	54.6	108.2	-12.42	-5,989.2	-537.6	1,490.7	1,377.2	113.45	13.139		
18,300.0	12,070.9	16,889.0	10,620.5	55.5	109.5	-12.70	-6,069.3	-530.4	1,488.6	1,373.5	115.06	12.937		
18,381.8	12,070.8	16,946.8	10,621.6	56.2	110.5	-12.84	-6,127.0	-526.4	1,488.1	1,371.8	116.31	12.794		
18,400.0	12,070.8	16,960.9	10,621.6	56.3	110.7	-12.86	-6,141.0	-525.8	1,488.1	1,371.5	116.58	12.764		
18,500.0	12,070.7	17,055.8	10,621.5	57.2	112.3	-12.96	-6,235.9	-522.4	1,488.7	1,370.6	118.11	12.604		
18,600.0	12,070.6	17,138.5	10,621.5	58.0	113.7	-13.11	-6,318.4	-517.9	1,489.8	1,370.2	119.63	12.453		
18,700.0	12,070.5	17,219.9	10,620.0	58.8	115.1	-13.20	-6,399.7	-514.4	1,492.3	1,371.1	121.11	12.322		
18,800.0	12,070.4	17,317.0	10,617.2	59.7	116.7	-13.29	-6,496.8	-510.7	1,495.6	1,373.0	122.65	12.194		
18,900.0	12,070.3	17,439.3	10,614.9	60.5	118.7	-13.43	-6,618.9	-505.4	1,498.2	1,373.9	124.35	12.048		
19,000.0	12,070.2	17,519.9	10,613.7	61.4	120.0	-13.54	-6,699.4	-501.8	1,500.5	1,374.6	125.84	11.923		
19,100.0	12,070.1	17,601.8	10,611.1	62.2	121.4	-13.61	-6,781.3	-498.7	1,504.2	1,376.9	127.31	11.815		
19,200.0	12,070.0	17,695.8	10,607.3	63.1	123.0	-13.68	-6,875.0	-495.1	1,508.7	1,379.9	128.84	11.710		
19,300.0	12,069.9	17,803.4	10,603.3	63.9	124.7	-13.81	-6,982.4	-490.0	1,513.2	1,382.7	130.50	11.595		
19,400.0	12,069.8	17,898.4	10,600.1	64.8	126.3	-13.93	-7,077.3	-485.3	1,517.4	1,385.3	132.08	11.488		
19,500.0	12,069.7	18,016.0	10,596.2	65.6	128.3	-14.06	-7,194.7	-479.9	1,521.5	1,387.7	133.81	11.370		
19,600.0	12,069.6	18,162.5	10,593.3	66.5	130.7	-14.19	-7,341.1	-474.5	1,524.4	1,388.7	135.66	11.237		
19,700.0	12,069.5	18,284.0	10,595.4	67.3	132.7	-14.29	-7,462.5	-471.4	1,522.9	1,385.6	137.35	11.088		
19,800.0	12,069.4	18,392.8	10,597.3	68.1	134.5	-14.39	-7,571.3	-468.5	1,521.6	1,382.6	138.99	10.948		
19,900.0	12,069.2	18,487.0	10,599.3	69.0	136.0	-14.49	-7,665.4	-465.7	1,520.0	1,379.4	140.60	10.810		
20,000.0	12,069.1	18,569.5	10,600.4	69.8	137.4	-14.57	-7,747.8	-463.0	1,519.2	1,377.0	142.19	10.684		
20,014.6	12,069.1	18,581.0	10,600.5	70.0	137.6	-14.59	-7,759.3	-462.6	1,519.2	1,376.8	142.42	10.667		
20,100.0	12,069.0	18,653.1	10,600.7	70.7	138.8	-14.67	-7,831.4	-459.9	1,519.5	1,375.8	143.78	10.569		
20,200.0	12,068.9	18,742.0	10,600.1	71.5	140.3	-14.76	-7,920.2	-456.5	1,520.8	1,375.5	145.37	10.461		
20,300.0	12,068.8	18,830.7	10,599.0	72.4	141.7	-14.86	-8,008.8	-452.8	1,522.8	1,375.8	146.97	10.361		
20,400.0	12,068.7	18,960.8	10,597.8	73.2	143.9	-15.03	-8,138.7	-447.0	1,524.7	1,375.9	148.81	10.246		
20,500.0	12,068.6	19,059.4	10,598.6	74.1	145.5	-15.22	-8,237.2	-441.3	1,525.1	1,374.6	150.56	10.130		
20,600.0	12,068.5	19,146.0	10,599.4	74.9	147.0	-15.43	-8,323.6	-435.2	1,525.9	1,373.6	152.27	10.021		
20,700.0	12,068.4	19,240.0	10,599.5	75.8	148.5	-15.64	-8,417.4	-428.6	1,527.4	1,373.4	154.03	9.916		
20,800.0	12,068.3	19,313.9	10,598.6	76.6	149.8	-15.80	-8,491.1	-423.5	1,530.1	1,374.5	155.63	9.832		
20,900.0	12,068.2	19,412.1	10,596.5	77.5	151.4	-16.02	-8,589.0	-416.2	1,533.8	1,376.4	157.43	9.743		
21,000.0	12,068.1	19,504.1	10,594.8	78.3	153.0	-16.24	-8,680.7	-408.8	1,537.6	1,378.4	159.20	9.659		
21,100.0	12,068.0	19,641.8	10,593.6	79.2	155.2	-16.60	-8,817.9	-397.5	1,540.4	1,379.0	161.38	9.545		
21,200.0	12,067.9	19,744.4	10,593.5	80.0	157.0	-16.85	-8,920.2	-389.5	1,542.5	1,379.2	163.28	9.447		
21,300.0	12,067.8	19,843.7	10,594.6	80.9	158.6	-17.10	-9,019.3	-382.2	1,543.2	1,378.1	165.17	9.344		
21,400.0	12,067.7	19,919.2	10,593.6	81.8	159.9	-17.25	-9,094.6	-377.1	1,546.1	1,379.2	166.83	9.267		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	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 #3H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-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	
21,500.0	12,067.6	20,037.7	10,592.6	82.6	161.8	-17.41	-9,212.9	-371.4	1,547.9	1,379.1	168.74	9.173	
21,600.0	12,067.5	20,113.1	10,591.3	83.5	163.1	-17.51	-9,288.1	-367.8	1,550.6	1,380.3	170.34	9.104	
21,700.0	12,067.4	20,180.0	10,589.0	84.3	164.2	-17.58	-9,355.0	-364.5	1,555.1	1,383.3	171.80	9.052	
21,800.0	12,067.3	20,273.0	10,584.4	85.2	165.8	-17.67	-9,447.7	-359.8	1,561.1	1,387.6	173.47	8.999	
21,900.0	12,067.2	20,362.7	10,579.2	86.0	167.2	-17.76	-9,537.2	-354.9	1,567.9	1,392.8	175.10	8.954 SF	
22,000.0	12,067.1	20,366.0	10,579.1	86.9	167.3	-17.77	-9,540.4	-354.7	1,577.6	1,402.2	175.47	8.991	
22,087.8	12,067.0	20,366.0	10,579.1	87.6	167.3	-17.77	-9,540.4	-354.7	1,591.4	1,416.1	175.23	9.081	

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-57.27	467.6	-727.4	864.7					
100.0	100.0	97.5	97.5	3.0	3.0	-57.26	467.8	-727.5	864.9	858.9	6.00	144.143		
200.0	200.0	198.3	198.3	3.0	3.0	-57.23	468.2	-727.4	865.1	859.0	6.00	144.059		
300.0	300.0	297.8	297.8	3.0	3.0	-57.19	468.9	-727.2	865.3	859.2	6.01	143.872		
400.0	400.0	397.6	397.6	3.0	3.0	-57.14	469.7	-727.0	865.5	859.5	6.03	143.579		
500.0	500.0	495.2	495.2	3.1	3.1	-57.09	470.5	-727.1	866.0	860.0	6.05	143.175		
600.0	600.0	595.6	595.6	3.1	3.1	-57.04	471.5	-727.1	866.6	860.5	6.08	142.643		
700.0	700.0	698.2	698.1	3.1	3.1	-57.01	472.0	-727.2	867.0	860.8	6.11	141.912		
800.0	800.0	802.3	802.3	3.2	3.1	-57.04	471.6	-727.4	866.9	860.7	6.14	141.176		
900.0	900.0	902.1	902.1	3.2	3.1	-57.10	470.8	-727.6	866.6	860.4	6.17	140.437		
1,000.0	1,000.0	1,001.9	1,001.9	3.2	3.1	-57.16	469.8	-727.8	866.3	860.1	6.21	139.597		
1,100.0	1,100.0	1,102.9	1,102.9	3.3	3.1	-57.22	468.8	-728.1	865.9	859.7	6.25	138.661		
1,200.0	1,200.0	1,204.7	1,204.6	3.4	3.1	-57.29	467.7	-728.2	865.5	859.2	6.29	137.633		
1,300.0	1,300.0	1,304.9	1,304.9	3.4	3.1	-57.36	466.5	-728.3	864.9	858.6	6.34	136.520		
1,400.0	1,400.0	1,404.6	1,404.5	3.5	3.1	-57.43	465.4	-728.4	864.4	858.0	6.39	135.328		
1,500.0	1,500.0	1,506.6	1,506.5	3.5	3.2	-57.49	464.2	-728.4	863.8	857.4	6.44	134.052		
1,600.0	1,600.0	1,606.1	1,606.0	3.6	3.2	-57.53	463.4	-728.2	863.2	856.7	6.50	132.693		
1,700.0	1,700.0	1,704.7	1,704.6	3.7	3.2	-57.56	462.7	-727.9	862.5	856.0	6.57	131.250		
1,800.0	1,800.0	1,806.1	1,806.0	3.8	3.3	-57.56	462.3	-727.4	861.9	855.3	6.65	129.688		
1,900.0	1,900.0	1,909.5	1,909.4	3.9	3.3	-57.53	462.2	-726.4	861.0	854.3	6.73	127.980		
2,000.0	2,000.0	2,011.7	2,011.6	3.9	3.3	-57.45	462.5	-724.8	859.9	853.0	6.81	126.215		
2,100.0	2,100.0	2,110.9	2,110.8	4.0	3.4	-57.34	463.3	-722.8	858.6	851.7	6.90	124.431		
2,158.5	2,158.5	2,159.3	2,159.2	4.1	3.4	-57.27	464.0	-722.0	858.2	851.2	6.95	123.535		
2,200.0	2,200.0	2,195.0	2,194.9	4.1	3.4	-57.22	464.7	-721.7	858.4	851.4	6.98	123.001		
2,300.0	2,300.0	2,299.3	2,299.1	4.2	3.4	-57.05	467.2	-720.9	859.1	852.0	7.06	121.668		
2,400.0	2,400.0	2,410.2	2,410.0	4.3	3.5	-56.94	468.1	-719.3	858.2	851.1	7.16	119.862		
2,499.1	2,499.1	2,500.0	2,499.8	4.4	3.5	-56.86	468.8	-718.0	857.5	850.2	7.25	118.224		
2,500.0	2,500.0	2,500.0	2,499.8	4.4	3.5	-56.86	468.8	-718.0	857.5	850.2	7.25	118.216		
2,600.0	2,600.0	2,588.6	2,588.4	4.5	3.5	-56.74	470.7	-717.8	858.4	851.1	7.34	117.025		
2,700.0	2,700.0	2,690.4	2,690.1	4.6	3.6	-56.58	473.5	-717.6	859.8	852.4	7.43	115.793		
2,800.0	2,800.0	2,798.6	2,798.3	4.7	3.6	-56.38	476.6	-716.8	860.8	853.3	7.52	114.419		
2,900.0	2,900.0	2,896.6	2,896.3	4.8	3.7	-56.30	477.8	-716.5	861.2	853.6	7.62	113.061		
3,000.0	3,000.0	2,990.2	2,989.9	4.9	3.7	-56.31	478.2	-717.2	862.1	854.4	7.71	111.864		
3,100.0	3,100.0	3,091.0	3,090.7	5.0	3.7	-56.28	479.3	-718.0	863.4	855.6	7.80	110.635		
3,200.0	3,200.0	3,196.5	3,196.2	5.1	3.8	-56.20	480.7	-718.1	864.1	856.2	7.91	109.239		
3,300.0	3,300.0	3,297.5	3,297.2	5.2	3.9	-56.10	482.2	-717.6	864.6	856.6	8.02	107.804		
3,400.0	3,400.0	3,399.2	3,398.9	5.3	3.9	-55.96	484.1	-716.6	864.8	856.7	8.13	106.321		
3,500.0	3,500.0	3,486.9	3,486.5	5.4	4.0	-55.89	485.3	-716.6	865.6	857.4	8.24	105.033		
3,600.0	3,600.0	3,587.5	3,587.1	5.5	4.0	-55.94	485.7	-718.5	867.4	859.0	8.35	103.826		
3,700.0	3,700.0	3,695.4	3,695.0	5.7	4.1	-55.93	486.5	-719.4	868.5	860.0	8.48	102.457		
3,800.0	3,800.0	3,814.0	3,813.6	5.8	4.1	-55.94	486.2	-719.2	868.2	859.6	8.60	100.952		
3,900.0	3,900.0	3,916.9	3,916.5	5.9	4.2	-55.93	485.3	-717.5	866.3	857.6	8.72	99.388		
4,000.0	4,000.0	4,004.4	4,004.0	6.0	4.2	-55.90	484.9	-716.3	865.0	856.2	8.83	97.965		
4,010.9	4,010.9	4,012.1	4,011.6	6.0	4.2	-55.91	484.9	-716.3	865.0	856.2	8.84	97.835		
4,100.0	4,100.0	4,086.4	4,086.0	6.1	4.2	-55.97	484.6	-717.6	866.0	857.1	8.94	96.865		
4,200.0	4,200.0	4,196.8	4,196.3	6.2	4.3	-56.07	484.1	-719.6	867.3	858.2	9.06	95.688		
4,300.0	4,300.0	4,301.3	4,300.9	6.3	4.3	-56.17	482.9	-720.6	867.5	858.3	9.19	94.436		
4,400.0	4,400.0	4,402.5	4,402.0	6.5	4.3	-56.33	480.8	-721.7	867.3	857.9	9.30	93.209		
4,419.7	4,419.7	4,420.9	4,420.4	6.5	4.3	-56.36	480.5	-722.0	867.2	857.9	9.33	92.979		
4,500.0	4,500.0	4,500.4	4,499.8	6.6	4.3	-56.48	479.0	-723.0	867.3	857.9	9.42	92.044		
4,600.0	4,600.0	4,599.5	4,599.0	6.7	4.4	-56.63	477.1	-724.3	867.4	857.8	9.54	90.896		

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+FR1+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
4,700.0	4,700.0	4,694.2	4,693.6	6.8	4.4	-56.76	475.7	-725.9	867.9	858.3	9.66	89.828	
4,800.0	4,800.0	4,794.3	4,793.7	6.9	4.5	-56.90	474.4	-727.7	868.7	859.0	9.79	88.778	
4,900.0	4,900.0	4,893.7	4,893.0	7.0	4.5	-57.07	472.7	-729.7	869.5	859.6	9.91	87.759	
5,000.0	5,000.0	4,994.7	4,994.0	7.2	4.6	-57.27	470.6	-732.1	870.3	860.3	10.03	86.769	
5,100.0	5,100.0	5,093.9	5,093.1	7.3	4.6	-57.47	468.5	-734.5	871.2	861.0	10.15	85.810	
5,200.0	5,200.0	5,192.0	5,191.2	7.4	4.7	-57.58	467.6	-736.2	872.2	861.9	10.28	84.834	
5,300.0	5,300.0	5,289.2	5,288.4	7.5	4.7	-57.54	468.8	-737.0	873.5	863.1	10.42	83.829	
5,400.0	5,400.0	5,390.7	5,389.9	7.6	4.8	-57.50	470.1	-737.8	874.9	864.3	10.57	82.808	
5,500.0	5,500.0	5,488.1	5,487.3	7.8	4.9	-57.46	471.2	-738.6	876.3	865.5	10.71	81.813	
5,600.0	5,600.0	5,588.7	5,587.9	7.9	4.9	5.10	472.2	-739.8	876.0	865.2	10.87	80.561	
5,700.0	5,699.8	5,687.0	5,686.2	7.9	5.0	5.15	473.2	-741.0	872.4	861.3	11.05	78.921	
5,769.4	5,769.0	5,755.4	5,754.6	8.0	5.1	5.20	473.8	-741.9	867.9	856.7	11.18	77.628	
5,800.0	5,799.5	5,784.3	5,783.5	8.0	5.1	5.21	474.1	-742.4	865.6	854.3	11.24	77.042	
5,900.0	5,899.0	5,882.4	5,881.5	8.1	5.2	5.28	475.3	-744.0	858.2	846.8	11.42	75.150	
6,000.0	5,998.6	5,981.9	5,981.0	8.2	5.2	5.35	476.6	-745.6	851.0	839.3	11.61	73.302	
6,100.0	6,098.1	6,094.8	6,093.9	8.3	5.3	5.43	477.8	-747.2	843.4	831.6	11.81	71.423	
6,200.0	6,197.7	6,199.1	6,198.2	8.3	5.4	5.44	477.2	-747.7	834.2	822.2	11.98	69.629	
6,300.0	6,297.3	6,297.1	6,296.2	8.4	5.4	5.45	476.6	-748.3	825.0	812.8	12.15	67.902	
6,400.0	6,396.8	6,393.4	6,392.4	8.5	5.5	5.44	476.0	-749.1	816.0	803.6	12.32	66.223	
6,500.0	6,496.4	6,492.6	6,491.7	8.6	5.6	5.41	475.2	-750.3	807.2	794.7	12.50	64.589	
6,600.0	6,595.9	6,592.2	6,591.2	8.7	5.7	5.37	474.5	-751.6	798.6	785.9	12.68	62.995	
6,700.0	6,695.5	6,691.9	6,691.0	8.8	5.7	5.34	473.7	-753.0	790.0	777.1	12.86	61.444	
6,800.0	6,795.0	6,791.6	6,790.7	8.8	5.8	5.28	472.7	-754.4	781.3	768.3	13.03	59.940	
6,900.0	6,894.6	6,890.8	6,889.8	8.9	5.9	5.23	471.7	-755.9	772.6	759.4	13.21	58.477	
7,000.0	6,994.2	6,989.0	6,988.0	9.0	6.0	5.19	471.1	-757.2	764.1	750.7	13.40	57.037	
7,100.0	7,093.7	7,087.2	7,086.2	9.1	6.1	5.16	470.5	-758.7	755.7	742.1	13.58	55.637	
7,200.0	7,193.3	7,186.7	7,185.6	9.2	6.2	5.11	469.9	-760.5	747.5	733.7	13.77	54.282	
7,300.0	7,292.8	7,299.5	7,298.5	9.3	6.2	5.07	468.7	-761.3	738.2	724.2	13.95	52.903	
7,400.0	7,392.4	7,399.7	7,398.7	9.4	6.3	5.05	467.4	-761.2	728.1	713.9	14.11	51.604	
7,500.0	7,492.0	7,499.9	7,498.8	9.5	6.4	5.03	466.0	-761.2	717.9	703.7	14.27	50.325	
7,600.0	7,591.5	7,600.6	7,599.6	9.6	6.4	5.00	464.6	-761.0	707.6	693.2	14.42	49.063	
7,700.0	7,691.1	7,701.1	7,700.0	9.7	6.5	4.99	463.1	-760.6	697.2	682.6	14.58	47.818	
7,800.0	7,790.6	7,801.3	7,800.3	9.8	6.5	4.98	461.7	-760.1	686.6	671.9	14.74	46.589	
7,900.0	7,890.2	7,902.0	7,900.9	9.9	6.6	4.97	460.1	-759.4	675.9	661.0	14.90	45.367	
8,000.0	7,989.7	8,003.8	8,002.7	10.0	6.6	4.95	458.3	-758.6	664.9	649.8	15.06	44.143	
8,100.0	8,089.3	8,104.5	8,103.3	10.1	6.7	4.92	456.3	-757.6	653.7	638.4	15.23	42.931	
8,200.0	8,188.9	8,202.9	8,201.8	10.2	6.8	4.88	454.3	-756.6	642.3	626.9	15.39	41.747	
8,300.0	8,288.4	8,303.2	8,301.9	10.3	6.8	4.83	452.1	-755.5	630.9	615.4	15.55	40.568	
8,400.0	8,388.0	8,403.7	8,402.5	10.4	6.9	4.78	449.7	-754.5	619.5	603.8	15.72	39.403	
8,500.0	8,487.5	8,503.2	8,502.0	10.5	6.9	4.74	447.6	-753.3	607.9	592.0	15.89	38.256	
8,600.0	8,587.1	8,604.7	8,603.4	10.6	7.5	4.70	445.3	-751.9	596.2	580.0	16.28	36.634	
8,700.0	8,686.7	8,711.8	8,709.6	10.7	10.4	3.60	433.1	-754.9	583.2	566.0	17.20	33.903	
8,800.0	8,786.2	8,793.6	8,787.7	10.8	10.8	1.23	411.4	-765.3	571.7	554.3	17.40	32.860	
8,900.0	8,885.8	8,874.7	8,860.7	10.9	11.0	-2.33	381.0	-783.1	565.0	547.3	17.66	31.994	
8,970.0	8,955.4	8,924.6	8,903.4	11.0	11.1	-4.96	358.7	-796.1	563.2	545.2	17.94	31.389 CC, ES	
9,000.0	8,985.3	8,944.6	8,920.0	11.0	11.1	-6.11	349.0	-801.9	563.5	545.4	18.10	31.132	
9,100.0	9,084.9	9,019.1	8,977.7	11.1	11.3	-10.88	308.1	-824.9	569.3	550.5	18.77	30.331	
9,200.0	9,184.4	9,074.5	9,015.7	11.2	11.4	-14.90	272.5	-843.6	584.2	564.3	19.91	29.347	
9,300.0	9,284.0	9,114.0	9,040.2	11.4	11.5	-17.94	244.8	-857.6	610.0	588.4	21.54	28.319	
9,400.0	9,383.6	9,162.0	9,067.3	11.5	11.6	-21.69	209.5	-875.5	646.6	623.4	23.22	27.842	
9,500.0	9,483.1	9,188.6	9,081.1	11.6	11.7	-23.77	189.3	-885.7	693.0	667.9	25.11	27.596 SF	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - ACTUAL													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,600.0	9,582.7	9,209.0	9,091.0	11.7	11.7	-25.38	173.2	-893.6	748.0	721.2	26.89	27.814		
9,700.0	9,682.2	9,244.6	9,106.8	11.8	11.8	-28.17	144.4	-907.3	810.0	781.7	28.39	28.531		
9,800.0	9,781.8	9,270.1	9,117.2	11.9	11.9	-30.14	123.3	-917.0	877.9	848.1	29.75	29.508		
9,900.0	9,881.3	9,293.3	9,126.0	12.0	11.9	-31.92	103.6	-925.6	950.4	919.5	30.93	30.726		
10,000.0	9,980.9	9,319.7	9,135.5	12.1	12.0	-33.91	80.9	-935.2	1,026.7	994.8	31.94	32.144		
10,100.0	10,080.5	9,351.0	9,146.1	12.2	12.1	-36.23	53.4	-945.8	1,105.9	1,073.1	32.81	33.705		
10,200.0	10,180.0	9,351.0	9,146.1	12.4	12.1	-36.23	53.4	-945.8	1,187.8	1,154.1	33.68	35.269		
10,300.0	10,279.6	9,371.3	9,152.5	12.5	12.1	-37.71	35.3	-952.5	1,271.8	1,237.4	34.42	36.950		
10,400.0	10,379.1	9,380.4	9,155.1	12.6	12.1	-38.36	27.2	-955.4	1,357.9	1,322.8	35.11	38.676		
10,500.0	10,478.7	9,398.0	9,159.8	12.7	12.1	-39.62	11.2	-961.1	1,445.7	1,410.0	35.74	40.451		
10,600.0	10,578.3	9,398.0	9,159.8	12.8	12.1	-39.62	11.2	-961.1	1,534.7	1,498.4	36.33	42.241		
10,700.0	10,677.8	9,398.0	9,159.8	12.9	12.1	-39.62	11.2	-961.1	1,625.0	1,588.1	36.88	44.057		
10,800.0	10,777.4	9,398.0	9,159.8	13.1	12.1	-39.62	11.2	-961.1	1,716.3	1,678.9	37.40	45.889		
10,900.0	10,876.9	9,398.0	9,159.8	13.2	12.1	-39.62	11.2	-961.1	1,808.6	1,770.7	37.89	47.728		
11,000.0	10,976.5	9,417.3	9,164.3	13.3	12.2	-40.97	-6.5	-967.4	1,901.2	1,862.8	38.43	49.475		
11,100.0	11,076.0	9,421.6	9,165.2	13.4	12.2	-41.27	-10.5	-968.8	1,994.7	1,955.8	38.90	51.276		

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

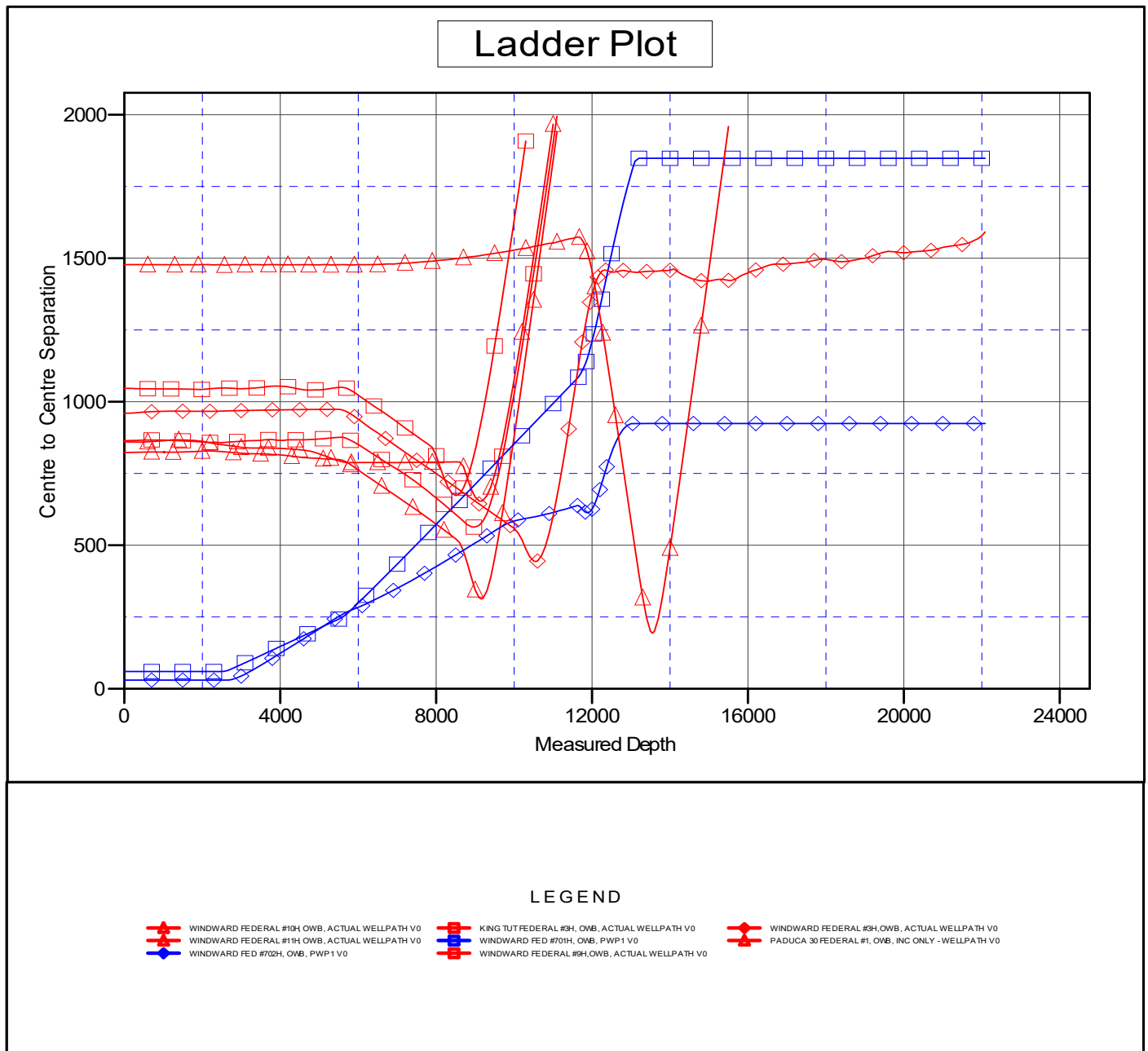
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3576.3usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #703H
 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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FED #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3576.3usft

Offset Depths are relative to Offset Datum

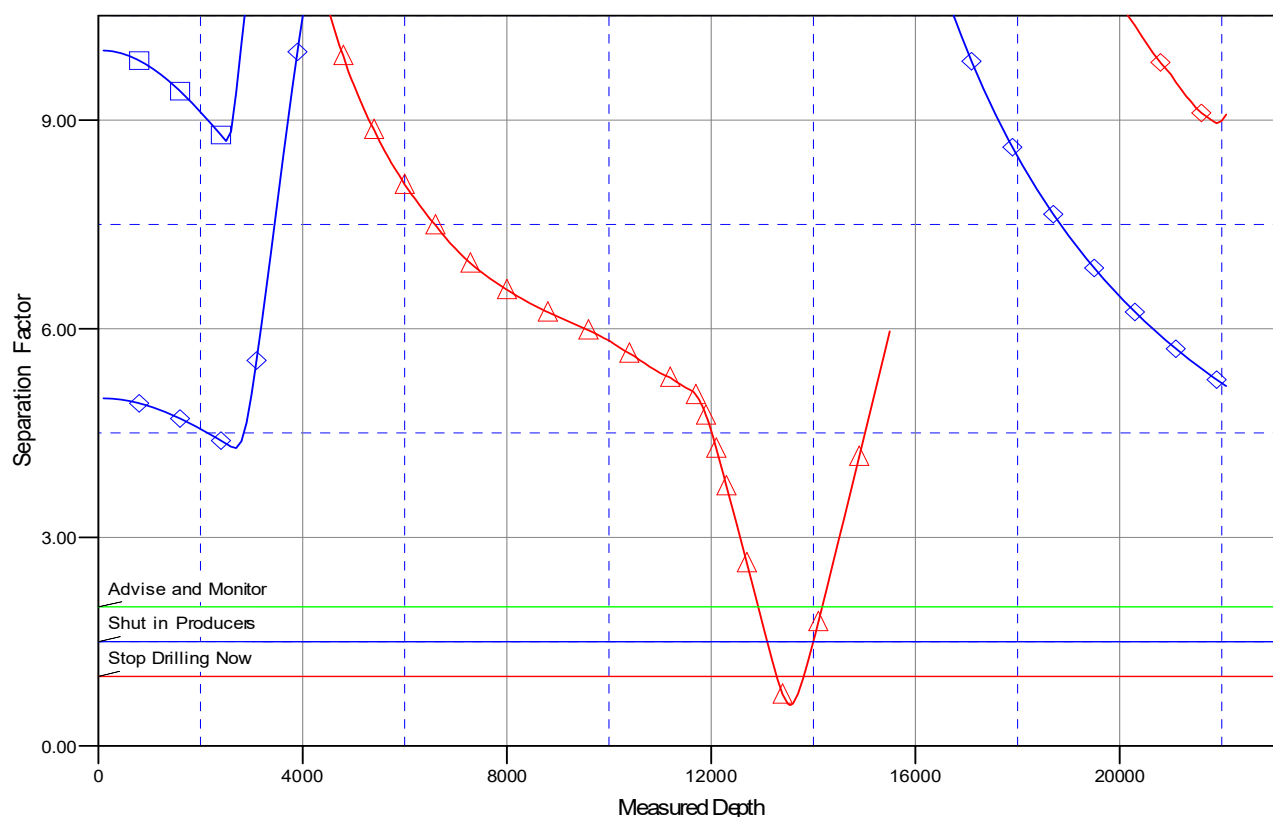
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FED #703H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

WINDWARD FEDERAL #10H, OWB, ACTUAL WELLPATH V0	KING TUT FEDERAL #3H, OWB, ACTUAL WELLPATH V0	WINDWARD FEDERAL #3H, OWB, ACTUAL WELLPATH V0
WINDWARD FEDERAL #11H, OWB, ACTUAL WELLPATH V0	WINDWARD FED #701H, OWB, PWP1 V0	PADUCA 30 FEDERAL #1, OWB, INC ONLY - WELLPATH V0
WINDWARD FED #702H, OWB, PWP1 V0	WINDWARD FEDERAL #8H, OWB, ACTUAL WELLPATH V0	

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

WINDWARD FEDERAL PROJECT (BULLDOG 2432)

WINDWARD FED #703H

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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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 #703H			
Well Position	+N/-S	0.0 usft	Northing:	434,720.80 usfi
	+E/-W	0.0 usft	Easting:	693,171.80 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation:	usfi
			Latitude:	32° 11' 37.042 N
			Longitude:	103° 42' 31.959 W
			Ground Level:	3,550.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/27/2020	6.68	59.87	47,526.68486996

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	184.82	

Survey Tool Program	Date	12/11/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,627.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,627.0	22,087.8	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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	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 #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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)
Start Build 2.00									
5,600.0	2.00	297.45	5,600.0	0.8	-1.5	-0.7	2.00	2.00	0.00
5,700.0	4.00	297.45	5,699.8	3.2	-6.2	-2.7	2.00	2.00	0.00
5,769.4	5.39	297.45	5,769.0	5.8	-11.2	-4.9	2.00	2.00	0.00
Start 5857.5 hold at 5769.4 MD									
5,800.0	5.39	297.45	5,799.5	7.2	-13.8	-6.0	0.00	0.00	0.00
5,900.0	5.39	297.45	5,899.0	11.5	-22.1	-9.6	0.00	0.00	0.00
6,000.0	5.39	297.45	5,998.6	15.8	-30.4	-13.2	0.00	0.00	0.00
6,100.0	5.39	297.45	6,098.1	20.1	-38.8	-16.8	0.00	0.00	0.00
6,200.0	5.39	297.45	6,197.7	24.5	-47.1	-20.4	0.00	0.00	0.00
6,300.0	5.39	297.45	6,297.3	28.8	-55.4	-24.0	0.00	0.00	0.00
6,400.0	5.39	297.45	6,396.8	33.1	-63.8	-27.7	0.00	0.00	0.00
6,500.0	5.39	297.45	6,496.4	37.5	-72.1	-31.3	0.00	0.00	0.00
6,600.0	5.39	297.45	6,595.9	41.8	-80.4	-34.9	0.00	0.00	0.00
6,700.0	5.39	297.45	6,695.5	46.1	-88.8	-38.5	0.00	0.00	0.00
6,800.0	5.39	297.45	6,795.0	50.5	-97.1	-42.1	0.00	0.00	0.00
6,900.0	5.39	297.45	6,894.6	54.8	-105.4	-45.7	0.00	0.00	0.00
7,000.0	5.39	297.45	6,994.2	59.1	-113.8	-49.3	0.00	0.00	0.00
7,100.0	5.39	297.45	7,093.7	63.4	-122.1	-53.0	0.00	0.00	0.00
7,200.0	5.39	297.45	7,193.3	67.8	-130.4	-56.6	0.00	0.00	0.00
7,300.0	5.39	297.45	7,292.8	72.1	-138.8	-60.2	0.00	0.00	0.00
7,400.0	5.39	297.45	7,392.4	76.4	-147.1	-63.8	0.00	0.00	0.00
7,500.0	5.39	297.45	7,492.0	80.8	-155.4	-67.4	0.00	0.00	0.00
7,600.0	5.39	297.45	7,591.5	85.1	-163.8	-71.0	0.00	0.00	0.00
7,700.0	5.39	297.45	7,691.1	89.4	-172.1	-74.6	0.00	0.00	0.00
7,800.0	5.39	297.45	7,790.6	93.8	-180.4	-78.2	0.00	0.00	0.00
7,900.0	5.39	297.45	7,890.2	98.1	-188.8	-81.9	0.00	0.00	0.00
8,000.0	5.39	297.45	7,989.7	102.4	-197.1	-85.5	0.00	0.00	0.00
8,100.0	5.39	297.45	8,089.3	106.7	-205.4	-89.1	0.00	0.00	0.00
8,200.0	5.39	297.45	8,188.9	111.1	-213.8	-92.7	0.00	0.00	0.00
8,300.0	5.39	297.45	8,288.4	115.4	-222.1	-96.3	0.00	0.00	0.00
8,400.0	5.39	297.45	8,388.0	119.7	-230.4	-99.9	0.00	0.00	0.00
8,500.0	5.39	297.45	8,487.5	124.1	-238.8	-103.5	0.00	0.00	0.00
8,600.0	5.39	297.45	8,587.1	128.4	-247.1	-107.2	0.00	0.00	0.00
8,700.0	5.39	297.45	8,686.7	132.7	-255.4	-110.8	0.00	0.00	0.00
8,800.0	5.39	297.45	8,786.2	137.0	-263.8	-114.4	0.00	0.00	0.00
8,900.0	5.39	297.45	8,885.8	141.4	-272.1	-118.0	0.00	0.00	0.00
9,000.0	5.39	297.45	8,985.3	145.7	-280.4	-121.6	0.00	0.00	0.00
9,100.0	5.39	297.45	9,084.9	150.0	-288.8	-125.2	0.00	0.00	0.00
9,200.0	5.39	297.45	9,184.4	154.4	-297.1	-128.8	0.00	0.00	0.00
9,300.0	5.39	297.45	9,284.0	158.7	-305.4	-132.5	0.00	0.00	0.00
9,400.0	5.39	297.45	9,383.6	163.0	-313.8	-136.1	0.00	0.00	0.00
9,500.0	5.39	297.45	9,483.1	167.4	-322.1	-139.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	5.39	297.45	9,582.7	171.7	-330.4	-143.3	0.00	0.00	0.00
9,700.0	5.39	297.45	9,682.2	176.0	-338.8	-146.9	0.00	0.00	0.00
9,800.0	5.39	297.45	9,781.8	180.3	-347.1	-150.5	0.00	0.00	0.00
9,900.0	5.39	297.45	9,881.3	184.7	-355.4	-154.1	0.00	0.00	0.00
10,000.0	5.39	297.45	9,980.9	189.0	-363.8	-157.7	0.00	0.00	0.00
10,100.0	5.39	297.45	10,080.5	193.3	-372.1	-161.4	0.00	0.00	0.00
10,200.0	5.39	297.45	10,180.0	197.7	-380.4	-165.0	0.00	0.00	0.00
10,300.0	5.39	297.45	10,279.6	202.0	-388.8	-168.6	0.00	0.00	0.00
10,400.0	5.39	297.45	10,379.1	206.3	-397.1	-172.2	0.00	0.00	0.00
10,500.0	5.39	297.45	10,478.7	210.6	-405.4	-175.8	0.00	0.00	0.00
10,600.0	5.39	297.45	10,578.3	215.0	-413.8	-179.4	0.00	0.00	0.00
10,700.0	5.39	297.45	10,677.8	219.3	-422.1	-183.0	0.00	0.00	0.00
10,800.0	5.39	297.45	10,777.4	223.6	-430.4	-186.7	0.00	0.00	0.00
10,900.0	5.39	297.45	10,876.9	228.0	-438.8	-190.3	0.00	0.00	0.00
11,000.0	5.39	297.45	10,976.5	232.3	-447.1	-193.9	0.00	0.00	0.00
11,100.0	5.39	297.45	11,076.0	236.6	-455.4	-197.5	0.00	0.00	0.00
11,200.0	5.39	297.45	11,175.6	241.0	-463.8	-201.1	0.00	0.00	0.00
11,300.0	5.39	297.45	11,275.2	245.3	-472.1	-204.7	0.00	0.00	0.00
11,400.0	5.39	297.45	11,374.7	249.6	-480.4	-208.3	0.00	0.00	0.00
11,500.0	5.39	297.45	11,474.3	253.9	-488.8	-212.0	0.00	0.00	0.00
11,600.0	5.39	297.45	11,573.8	258.3	-497.1	-215.6	0.00	0.00	0.00
11,626.9	5.39	297.45	11,600.6	259.4	-499.3	-216.5	0.00	0.00	0.00
Start DLS 12.00 TFO -91.34									
11,700.0	10.18	237.79	11,673.1	257.6	-507.9	-214.0	12.00	6.55	-81.59
11,800.0	21.31	220.09	11,769.3	238.9	-527.1	-193.7	12.00	11.13	-17.70
11,900.0	33.04	214.44	11,858.1	202.4	-554.3	-155.1	12.00	11.73	-5.65
12,000.0	44.90	211.53	11,935.7	149.6	-588.3	-99.6	12.00	11.86	-2.91
12,100.0	56.81	209.64	11,998.7	82.9	-627.6	-29.9	12.00	11.91	-1.89
12,200.0	68.75	208.21	12,044.4	5.2	-670.5	51.2	12.00	11.93	-1.43
12,300.0	80.69	206.99	12,070.7	-80.1	-715.1	140.0	12.00	11.94	-1.22
12,378.4	90.06	206.10	12,077.0	-150.0	-750.0	212.5	12.00	11.95	-1.14
Start DLS 4.00 TFO -89.99									
12,400.0	90.06	205.24	12,077.0	-169.4	-759.3	232.7	4.00	0.00	-4.00
12,500.0	90.06	201.24	12,076.9	-261.3	-798.8	327.5	4.00	0.00	-4.00
12,600.0	90.06	197.24	12,076.8	-355.7	-831.7	424.4	4.00	0.00	-4.00
12,700.0	90.06	193.24	12,076.7	-452.2	-858.0	522.7	4.00	0.00	-4.00
12,800.0	90.06	189.24	12,076.6	-550.2	-877.5	622.1	4.00	0.00	-4.00
12,900.0	90.06	185.24	12,076.4	-649.4	-890.1	722.0	4.00	0.00	-4.00
13,000.0	90.06	181.24	12,076.3	-749.2	-895.7	821.9	4.00	0.00	-4.00
13,041.4	90.06	179.58	12,076.3	-790.6	-896.0	863.2	4.00	0.00	-4.00
Start 9046.4 hold at 13041.4 MD									
13,100.0	90.06	179.58	12,076.2	-849.2	-895.6	921.5	0.00	0.00	0.00
13,200.0	90.06	179.58	12,076.1	-949.2	-894.9	1,021.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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	179.58	12,076.0	-1,049.2	-894.1	1,120.7	0.00	0.00	0.00
13,400.0	90.06	179.58	12,075.9	-1,149.2	-893.4	1,220.3	0.00	0.00	0.00
13,500.0	90.06	179.58	12,075.8	-1,249.2	-892.7	1,319.9	0.00	0.00	0.00
13,600.0	90.06	179.58	12,075.7	-1,349.2	-891.9	1,419.4	0.00	0.00	0.00
13,700.0	90.06	179.58	12,075.6	-1,449.2	-891.2	1,519.0	0.00	0.00	0.00
13,800.0	90.06	179.58	12,075.5	-1,549.2	-890.5	1,618.6	0.00	0.00	0.00
13,900.0	90.06	179.58	12,075.4	-1,649.2	-889.8	1,718.2	0.00	0.00	0.00
14,000.0	90.06	179.58	12,075.3	-1,749.2	-889.0	1,817.8	0.00	0.00	0.00
14,100.0	90.06	179.58	12,075.2	-1,849.2	-888.3	1,917.3	0.00	0.00	0.00
14,200.0	90.06	179.58	12,075.1	-1,949.2	-887.6	2,016.9	0.00	0.00	0.00
14,300.0	90.06	179.58	12,075.0	-2,049.2	-886.8	2,116.5	0.00	0.00	0.00
14,400.0	90.06	179.58	12,074.9	-2,149.2	-886.1	2,216.1	0.00	0.00	0.00
14,500.0	90.06	179.58	12,074.8	-2,249.2	-885.4	2,315.7	0.00	0.00	0.00
14,600.0	90.06	179.58	12,074.7	-2,349.2	-884.7	2,415.3	0.00	0.00	0.00
14,700.0	90.06	179.58	12,074.6	-2,449.2	-883.9	2,514.8	0.00	0.00	0.00
14,800.0	90.06	179.58	12,074.5	-2,549.2	-883.2	2,614.4	0.00	0.00	0.00
14,900.0	90.06	179.58	12,074.4	-2,649.2	-882.5	2,714.0	0.00	0.00	0.00
15,000.0	90.06	179.58	12,074.3	-2,749.2	-881.7	2,813.6	0.00	0.00	0.00
15,100.0	90.06	179.58	12,074.2	-2,849.2	-881.0	2,913.2	0.00	0.00	0.00
15,200.0	90.06	179.58	12,074.1	-2,949.2	-880.3	3,012.7	0.00	0.00	0.00
15,300.0	90.06	179.58	12,074.0	-3,049.2	-879.5	3,112.3	0.00	0.00	0.00
15,400.0	90.06	179.58	12,073.9	-3,149.2	-878.8	3,211.9	0.00	0.00	0.00
15,500.0	90.06	179.58	12,073.8	-3,249.2	-878.1	3,311.5	0.00	0.00	0.00
15,600.0	90.06	179.58	12,073.7	-3,349.2	-877.4	3,411.1	0.00	0.00	0.00
15,700.0	90.06	179.58	12,073.6	-3,449.2	-876.6	3,510.7	0.00	0.00	0.00
15,800.0	90.06	179.58	12,073.5	-3,549.2	-875.9	3,610.2	0.00	0.00	0.00
15,900.0	90.06	179.58	12,073.4	-3,649.2	-875.2	3,709.8	0.00	0.00	0.00
16,000.0	90.06	179.58	12,073.3	-3,749.2	-874.4	3,809.4	0.00	0.00	0.00
16,100.0	90.06	179.58	12,073.2	-3,849.2	-873.7	3,909.0	0.00	0.00	0.00
16,200.0	90.06	179.58	12,073.1	-3,949.1	-873.0	4,008.6	0.00	0.00	0.00
16,300.0	90.06	179.58	12,072.9	-4,049.1	-872.2	4,108.1	0.00	0.00	0.00
16,400.0	90.06	179.58	12,072.8	-4,149.1	-871.5	4,207.7	0.00	0.00	0.00
16,500.0	90.06	179.58	12,072.7	-4,249.1	-870.8	4,307.3	0.00	0.00	0.00
16,600.0	90.06	179.58	12,072.6	-4,349.1	-870.1	4,406.9	0.00	0.00	0.00
16,700.0	90.06	179.58	12,072.5	-4,449.1	-869.3	4,506.5	0.00	0.00	0.00
16,800.0	90.06	179.58	12,072.4	-4,549.1	-868.6	4,606.1	0.00	0.00	0.00
16,900.0	90.06	179.58	12,072.3	-4,649.1	-867.9	4,705.6	0.00	0.00	0.00
17,000.0	90.06	179.58	12,072.2	-4,749.1	-867.1	4,805.2	0.00	0.00	0.00
17,100.0	90.06	179.58	12,072.1	-4,849.1	-866.4	4,904.8	0.00	0.00	0.00
17,200.0	90.06	179.58	12,072.0	-4,949.1	-865.7	5,004.4	0.00	0.00	0.00
17,300.0	90.06	179.58	12,071.9	-5,049.1	-864.9	5,104.0	0.00	0.00	0.00
17,400.0	90.06	179.58	12,071.8	-5,149.1	-864.2	5,203.5	0.00	0.00	0.00
17,500.0	90.06	179.58	12,071.7	-5,249.1	-863.5	5,303.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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	179.58	12,071.6	-5,349.1	-862.8	5,402.7	0.00	0.00	0.00
17,700.0	90.06	179.58	12,071.5	-5,449.1	-862.0	5,502.3	0.00	0.00	0.00
17,800.0	90.06	179.58	12,071.4	-5,549.1	-861.3	5,601.9	0.00	0.00	0.00
17,900.0	90.06	179.58	12,071.3	-5,649.1	-860.6	5,701.5	0.00	0.00	0.00
18,000.0	90.06	179.58	12,071.2	-5,749.1	-859.8	5,801.0	0.00	0.00	0.00
18,100.0	90.06	179.58	12,071.1	-5,849.1	-859.1	5,900.6	0.00	0.00	0.00
18,200.0	90.06	179.58	12,071.0	-5,949.1	-858.4	6,000.2	0.00	0.00	0.00
18,300.0	90.06	179.58	12,070.9	-6,049.1	-857.6	6,099.8	0.00	0.00	0.00
18,400.0	90.06	179.58	12,070.8	-6,149.1	-856.9	6,199.4	0.00	0.00	0.00
18,500.0	90.06	179.58	12,070.7	-6,249.1	-856.2	6,298.9	0.00	0.00	0.00
18,600.0	90.06	179.58	12,070.6	-6,349.1	-855.5	6,398.5	0.00	0.00	0.00
18,700.0	90.06	179.58	12,070.5	-6,449.1	-854.7	6,498.1	0.00	0.00	0.00
18,800.0	90.06	179.58	12,070.4	-6,549.1	-854.0	6,597.7	0.00	0.00	0.00
18,900.0	90.06	179.58	12,070.3	-6,649.1	-853.3	6,697.3	0.00	0.00	0.00
19,000.0	90.06	179.58	12,070.2	-6,749.1	-852.5	6,796.9	0.00	0.00	0.00
19,100.0	90.06	179.58	12,070.1	-6,849.1	-851.8	6,896.4	0.00	0.00	0.00
19,200.0	90.06	179.58	12,070.0	-6,949.1	-851.1	6,996.0	0.00	0.00	0.00
19,300.0	90.06	179.58	12,069.9	-7,049.1	-850.3	7,095.6	0.00	0.00	0.00
19,400.0	90.06	179.58	12,069.8	-7,149.1	-849.6	7,195.2	0.00	0.00	0.00
19,500.0	90.06	179.58	12,069.7	-7,249.1	-848.9	7,294.8	0.00	0.00	0.00
19,600.0	90.06	179.58	12,069.6	-7,349.1	-848.2	7,394.3	0.00	0.00	0.00
19,700.0	90.06	179.58	12,069.5	-7,449.1	-847.4	7,493.9	0.00	0.00	0.00
19,800.0	90.06	179.58	12,069.4	-7,549.0	-846.7	7,593.5	0.00	0.00	0.00
19,900.0	90.06	179.58	12,069.2	-7,649.0	-846.0	7,693.1	0.00	0.00	0.00
20,000.0	90.06	179.58	12,069.1	-7,749.0	-845.2	7,792.7	0.00	0.00	0.00
20,100.0	90.06	179.58	12,069.0	-7,849.0	-844.5	7,892.3	0.00	0.00	0.00
20,200.0	90.06	179.58	12,068.9	-7,949.0	-843.8	7,991.8	0.00	0.00	0.00
20,300.0	90.06	179.58	12,068.8	-8,049.0	-843.0	8,091.4	0.00	0.00	0.00
20,400.0	90.06	179.58	12,068.7	-8,149.0	-842.3	8,191.0	0.00	0.00	0.00
20,500.0	90.06	179.58	12,068.6	-8,249.0	-841.6	8,290.6	0.00	0.00	0.00
20,600.0	90.06	179.58	12,068.5	-8,349.0	-840.9	8,390.2	0.00	0.00	0.00
20,700.0	90.06	179.58	12,068.4	-8,449.0	-840.1	8,489.7	0.00	0.00	0.00
20,800.0	90.06	179.58	12,068.3	-8,549.0	-839.4	8,589.3	0.00	0.00	0.00
20,900.0	90.06	179.58	12,068.2	-8,649.0	-838.7	8,688.9	0.00	0.00	0.00
21,000.0	90.06	179.58	12,068.1	-8,749.0	-837.9	8,788.5	0.00	0.00	0.00
21,100.0	90.06	179.58	12,068.0	-8,849.0	-837.2	8,888.1	0.00	0.00	0.00
21,200.0	90.06	179.58	12,067.9	-8,949.0	-836.5	8,987.7	0.00	0.00	0.00
21,300.0	90.06	179.58	12,067.8	-9,049.0	-835.7	9,087.2	0.00	0.00	0.00
21,400.0	90.06	179.58	12,067.7	-9,149.0	-835.0	9,186.8	0.00	0.00	0.00
21,500.0	90.06	179.58	12,067.6	-9,249.0	-834.3	9,286.4	0.00	0.00	0.00
21,600.0	90.06	179.58	12,067.5	-9,349.0	-833.6	9,386.0	0.00	0.00	0.00
21,700.0	90.06	179.58	12,067.4	-9,449.0	-832.8	9,485.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FED #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3576.3usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	KB=26' @ 3576.3usft
Well:	WINDWARD FED #703H	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	179.58	12,067.3	-9,549.0	-832.1	9,585.1	0.00	0.00	0.00
21,900.0	90.06	179.58	12,067.2	-9,649.0	-831.4	9,684.7	0.00	0.00	0.00
22,000.0	90.06	179.58	12,067.1	-9,749.0	-830.6	9,784.3	0.00	0.00	0.00
22,087.8	90.06	179.58	12,067.0	-9,836.8	-830.0	9,871.8	0.00	0.00	0.00
TD at 22087.8									

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 - Point	0.00	0.01	12,067.0	-9,786.8	-830.3	424,934.00	692,341.50	32° 10' 0.241 N	103° 42' 42.279 W
- plan misses target center by 37.8usft at 22000.0usft MD (12067.1 TVD, -9749.0 N, -830.6 E)									
PBHL (WINDWARD F - plan hits target center - Rectangle (sides W100.0 H10,420.0 D20.0)	0.06	359.58	12,067.0	-9,836.8	-830.0	424,884.00	692,341.80	32° 9' 59.746 N	103° 42' 42.279 W
FTP (WINDWARD FE - plan misses target center by 549.5usft at 11992.8usft MD (11930.5 TVD, 153.9 N, -585.7 E) - Circle (radius 50.0)	0.00	0.00	12,077.0	575.8	-905.9	435,296.60	692,265.90	32° 11' 42.792 N	103° 42' 42.462 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5769	5769	6	-11	Start 5857.5 hold at 5769.4 MD
11,627	11,601	259	-499	Start DLS 12.00 TFO -91.34
12,378	12,077	-150	-750	Start DLS 4.00 TFO -89.99
13,041	12,076	-791	-896	Start 9046.4 hold at 13041.4 MD
22,088	12,067	-9837	-830	TD at 22087.8

Checked By: _____	Approved By: _____	Date: _____
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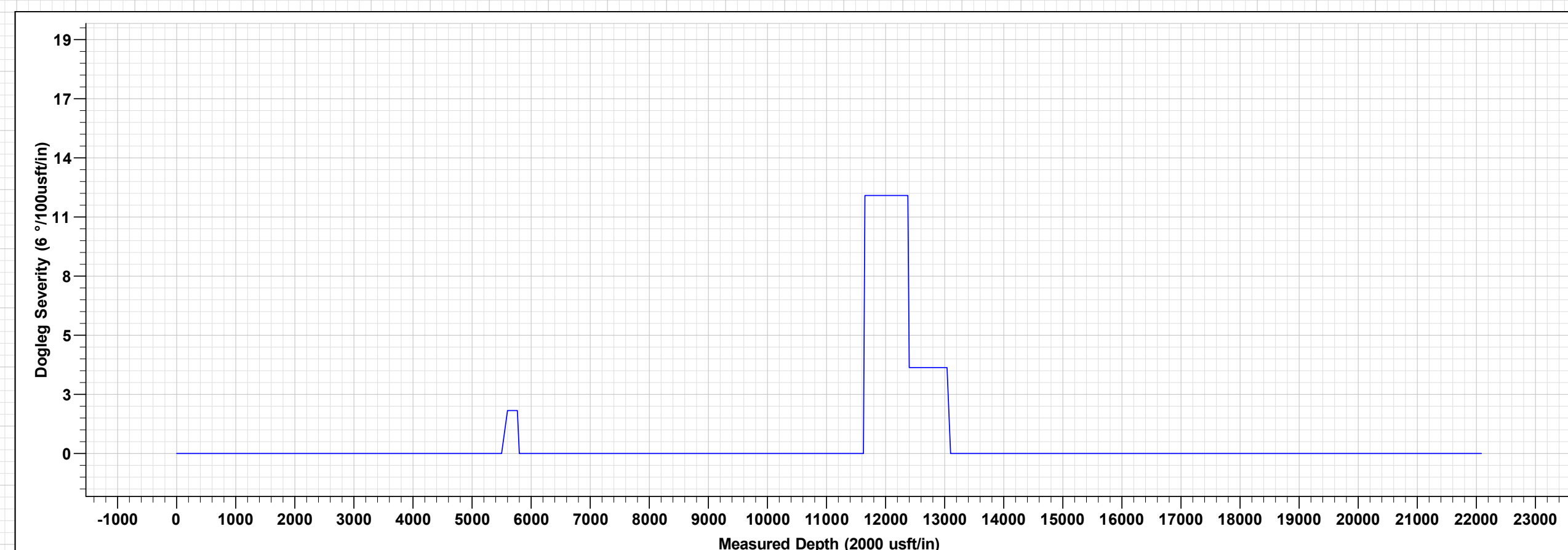
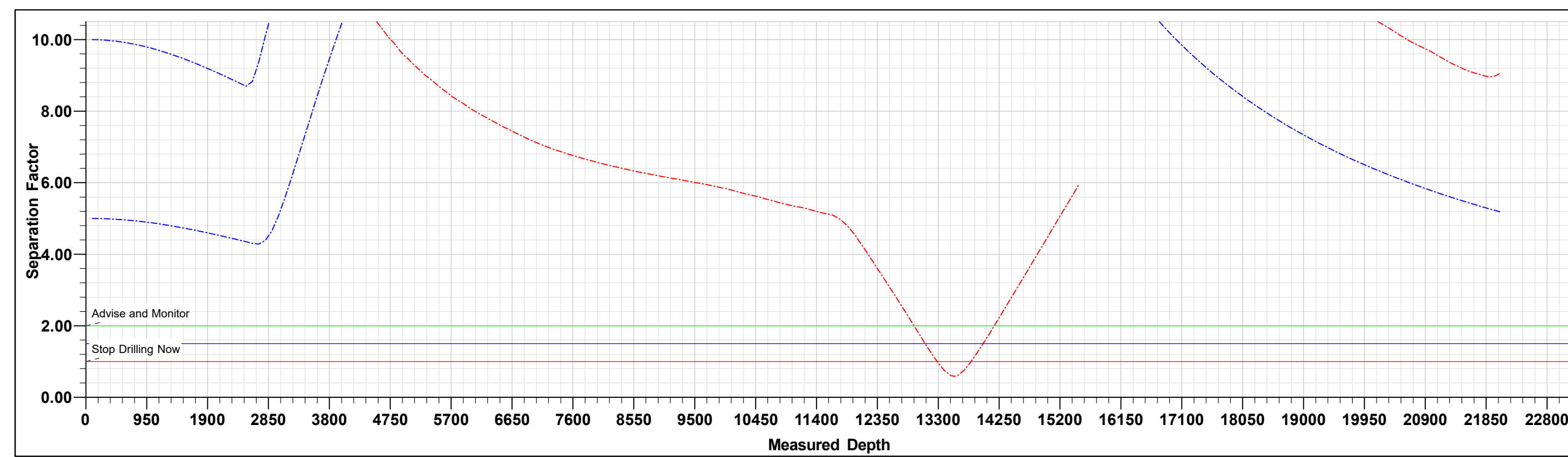
Project: BULLDOG PROSPECT (NM-E)
Site: WINDWARD FEDERAL PROJECT (BULLDOG 2432)
Well: WINDWARD FED #703H
Wellbore: OWB
Design: PWP1
GI: 3550.3
KB=26' @ 3576.3usft

WELL DETAILS: WINDWARD FED #703H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434720.80	693171.80	32° 11' 37.042 N	103° 42' 31.959 W

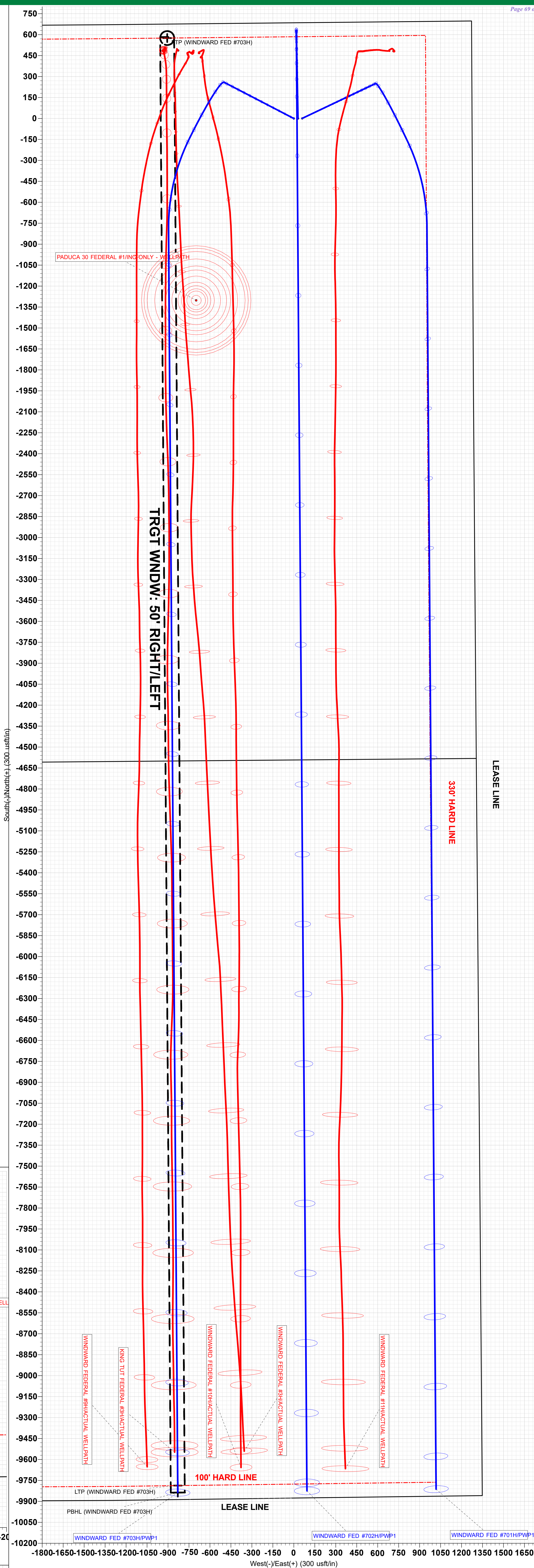
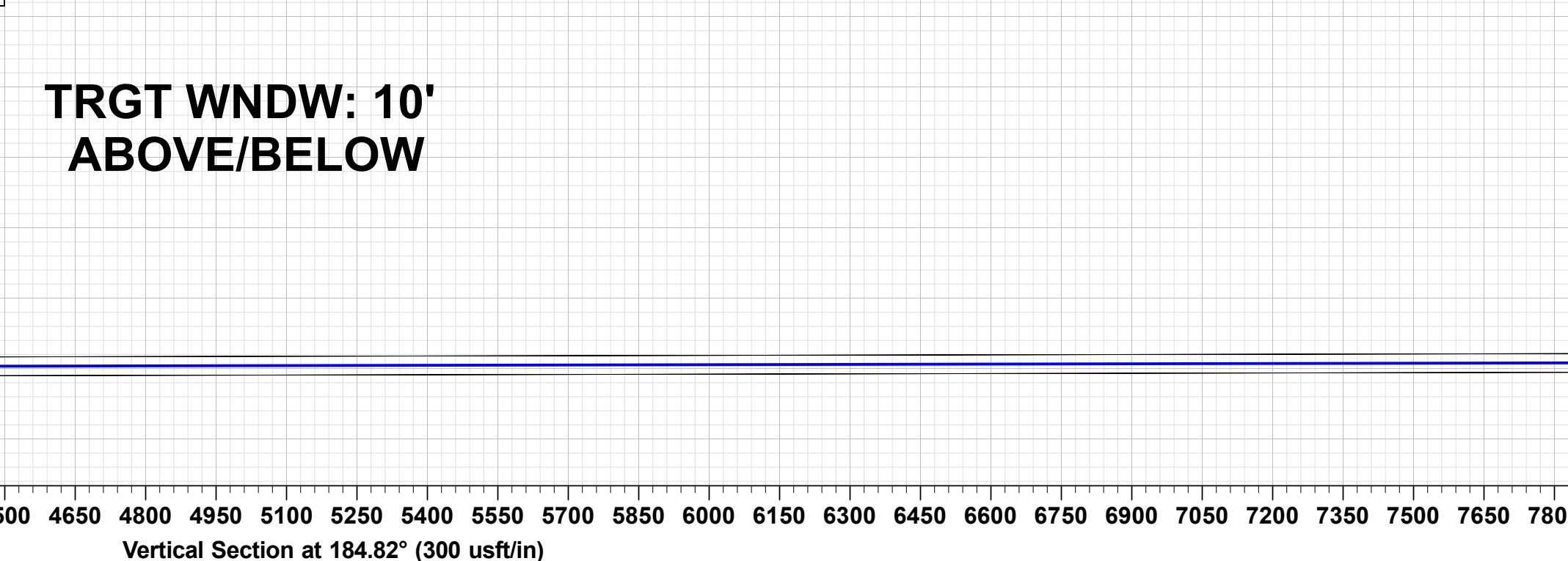
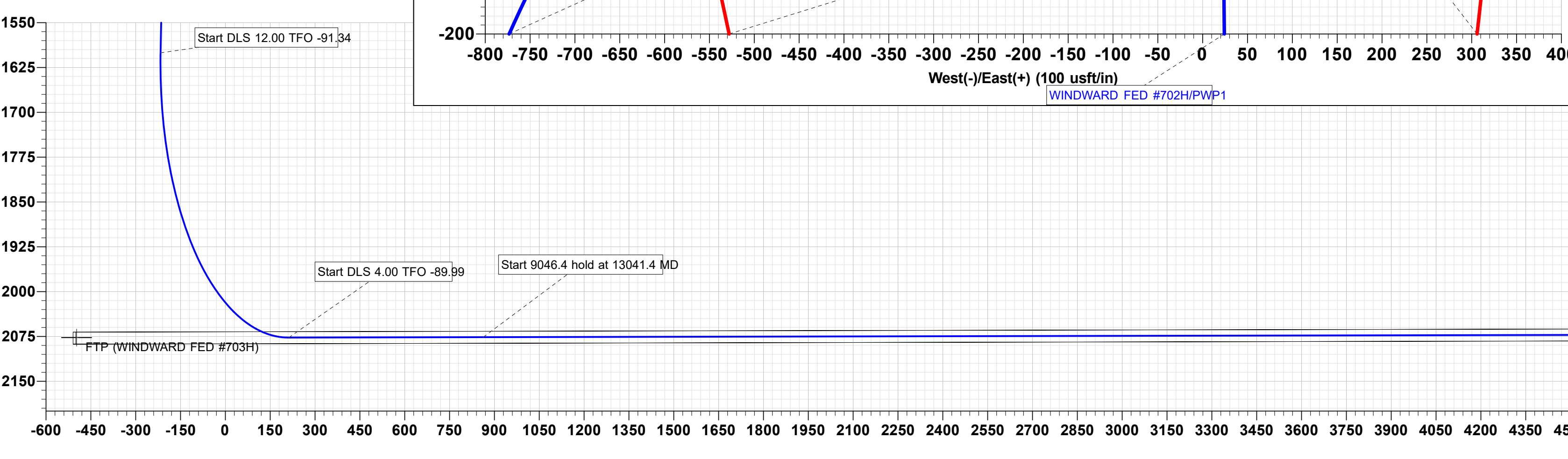
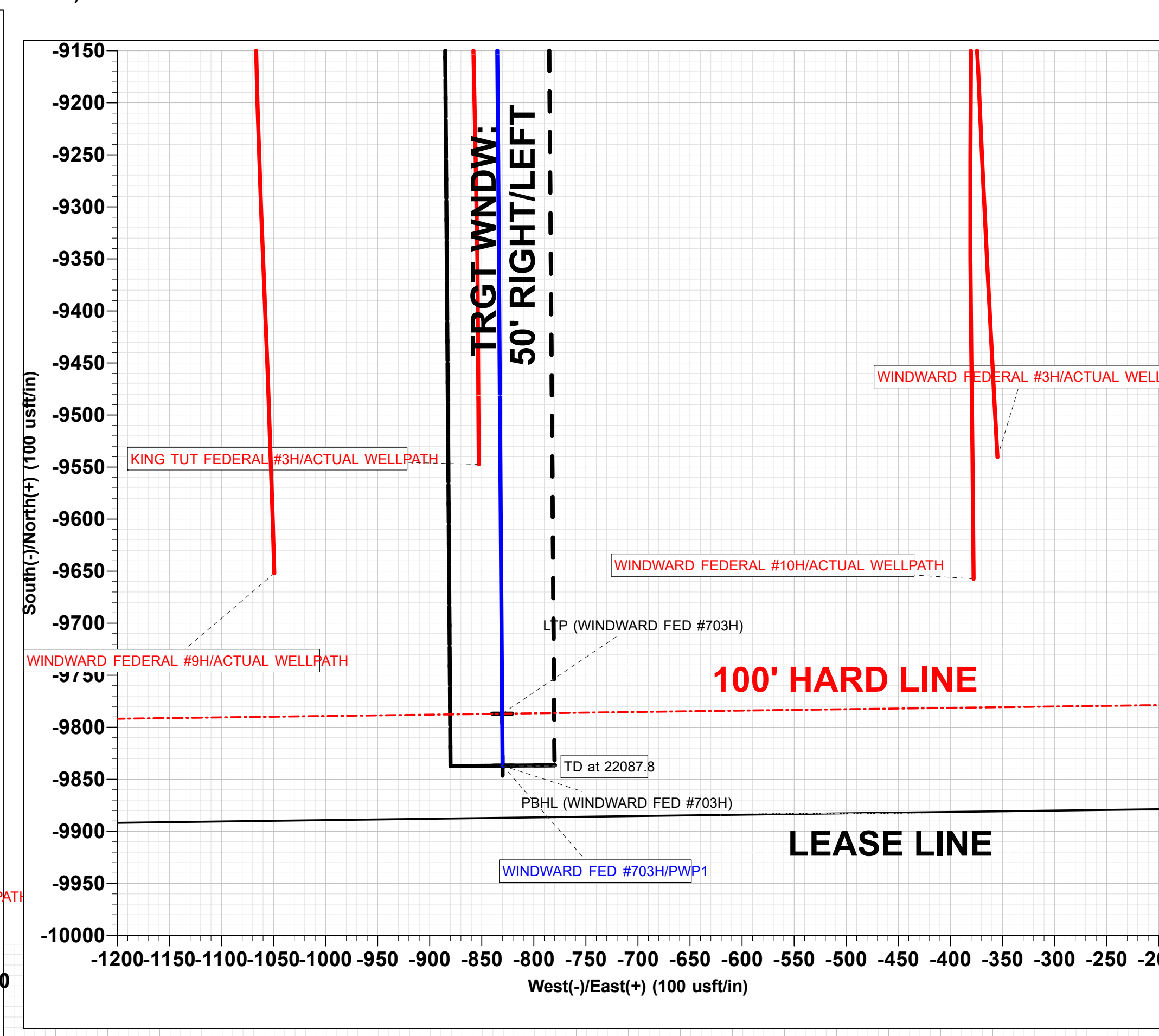
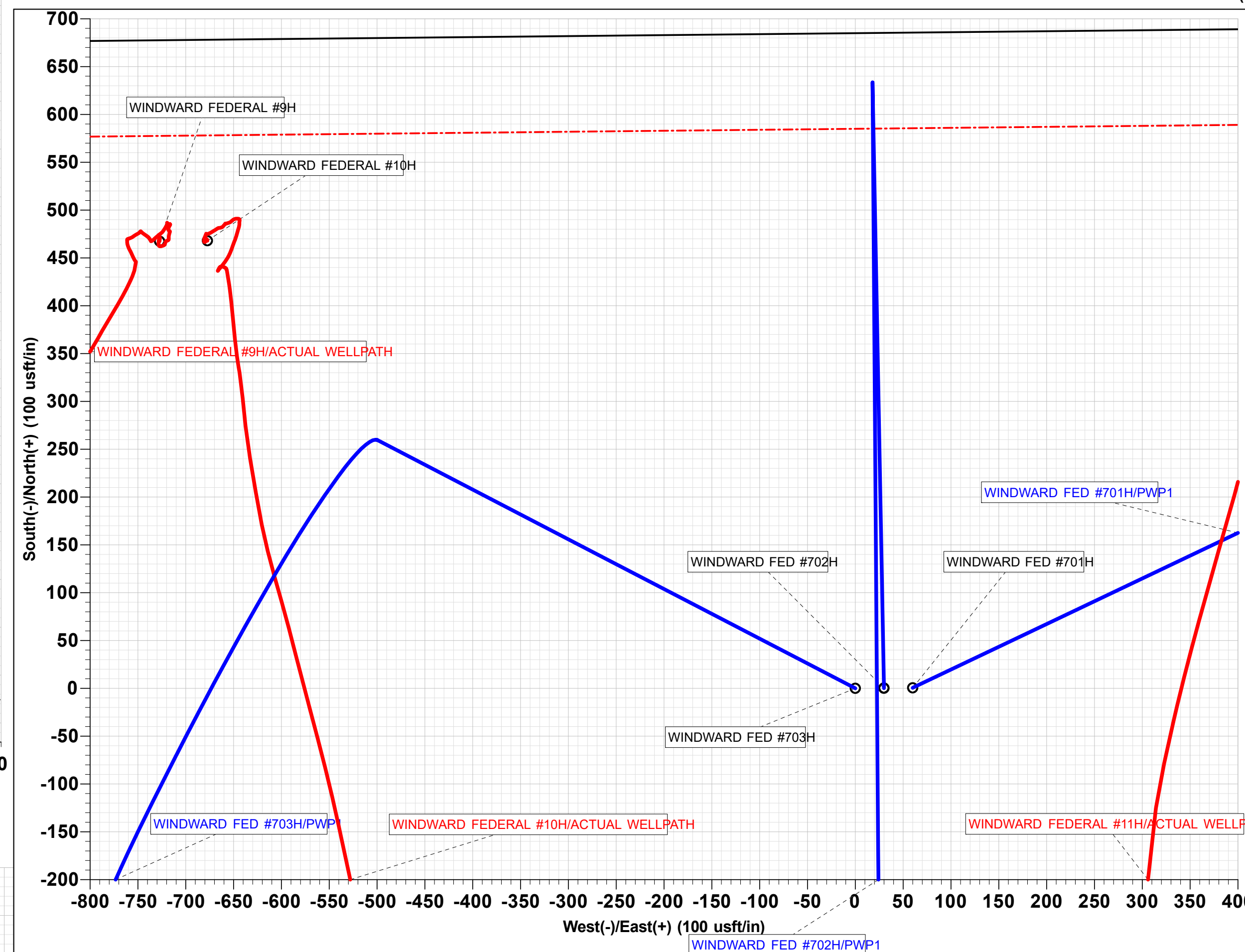
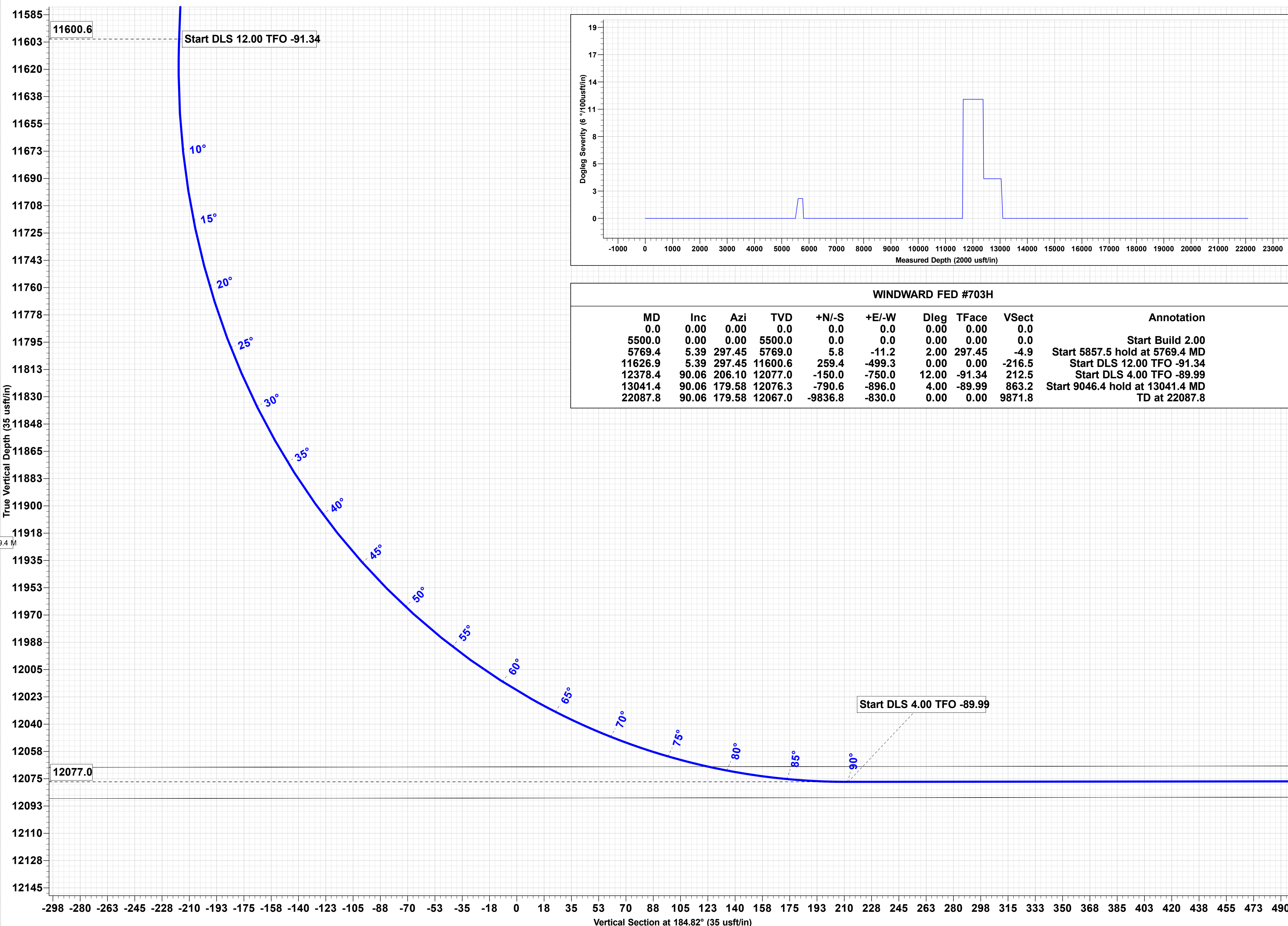
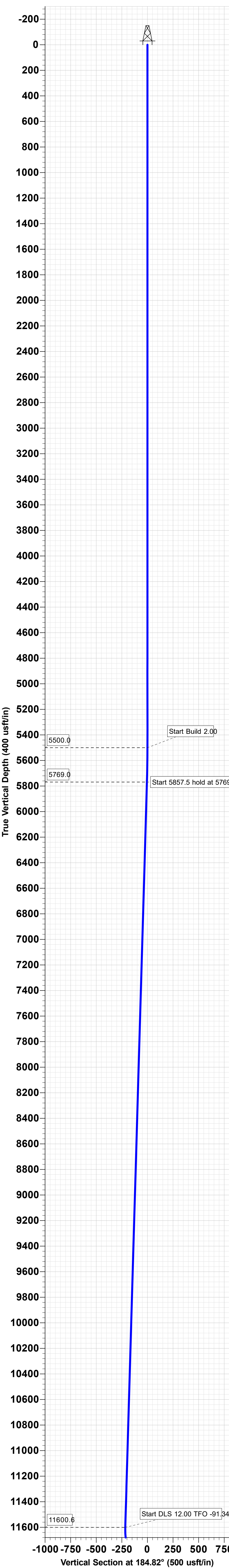
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (WINDWARD FED #703H)	12067.0	-9786.8	-830.3	424934.00	692341.50	32° 10' 0.241 N	103° 42' 42.279 W
PBHL (WINDWARD FED #703H)	12067.0	-9836.8	-830.0	424884.00	692341.80	32° 9' 59.746 N	103° 42' 42.279 W
FTP (WINDWARD FED #703H)	12077.0	575.8	-905.9	435296.60	692265.90	32° 11' 42.792 N	103° 42' 42.462 W

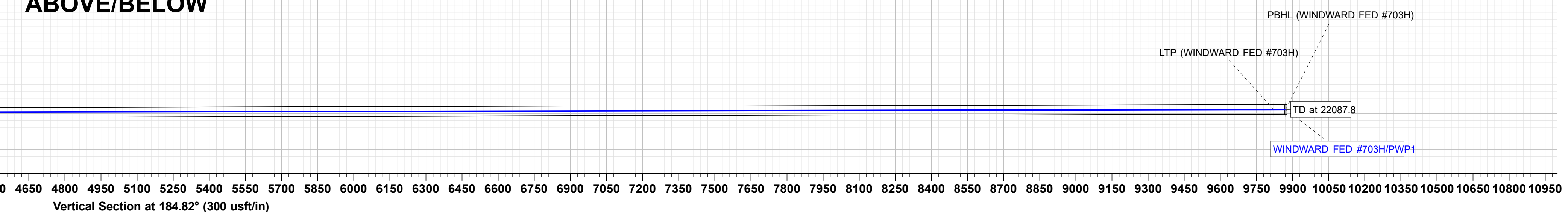


WINDWARD FED #703H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start 5857.5 hold at 5769.4 MD
5769.4	5.39	297.45	5769.0	5.8	-11.2	2.00	297.45	-4.9	Start DLS 12.00 TFO -91.34
11626.9	5.39	297.45	11600.6	259.4	-499.3	0.00	0.00	-216.5	Start DLS 4.00 TFO -89.99
12378.4	90.06	206.10	12077.0	-150.0	-750.0	12.00	-91.34	212.5	Start 9046.4 hold at 13041.4 MD
13041.4	90.06	179.58	12076.3	-790.6	-896.0	4.00	-89.99	863.2	TD at 22087.8
22087.8	90.06	179.58	12067.0	-9536.8	-830.0	0.00	0.00	9871.8	

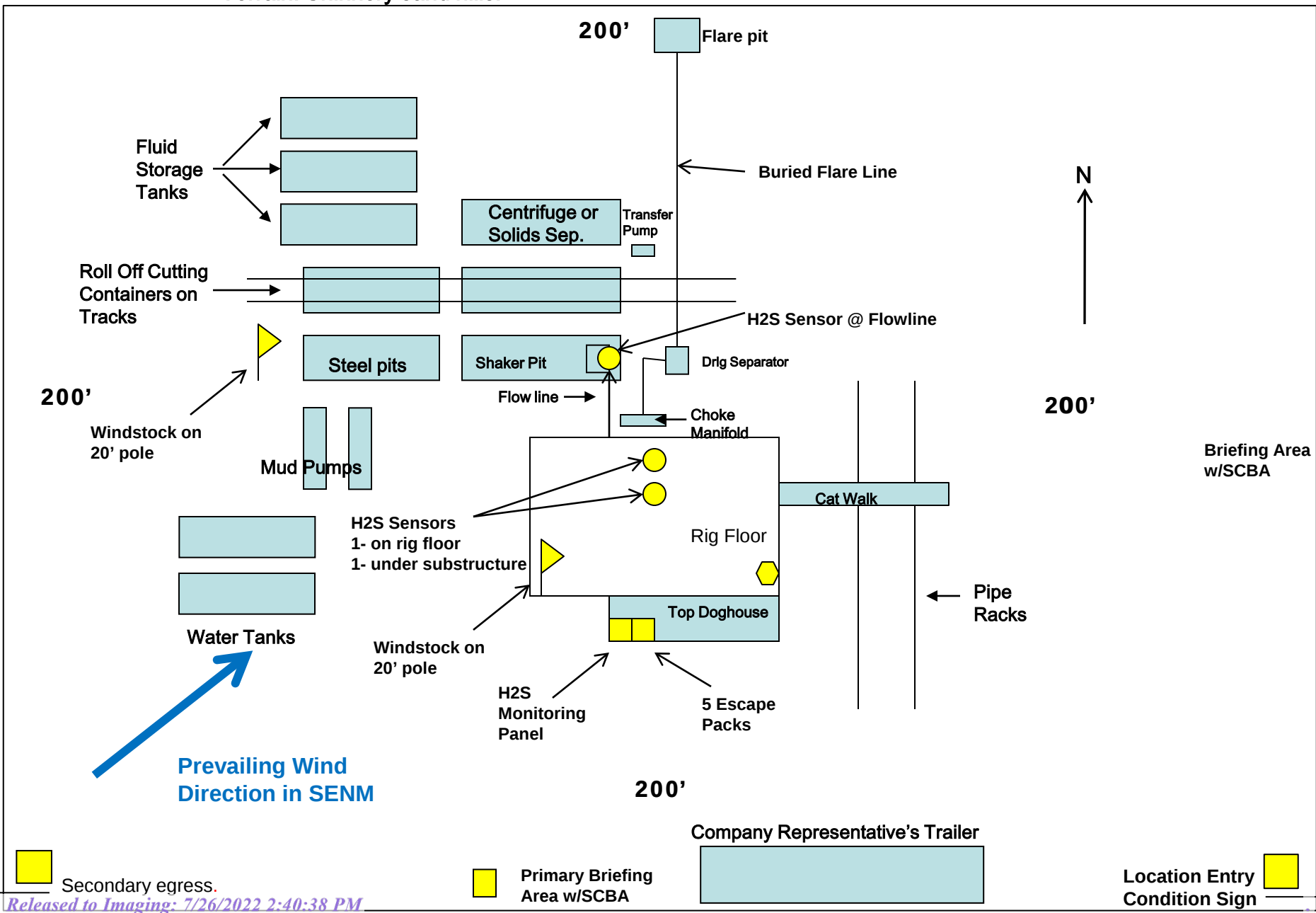


TRGT WNDW: 10'
ABOVE/BELOW



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 120017

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number: 120017
	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