

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. [332421]
2. Name of Operator [229137]		9. API Well No. 30-025-49823
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [17980]
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 03/07/2022

SL

(Continued on page 2)



Approval Date: 03/04/2022

KZ
03/09/2022

*(Instructions on page 2)

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) 334-8178 Fax: (505) 334-8170

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 49823	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3379.2'

Surface Location

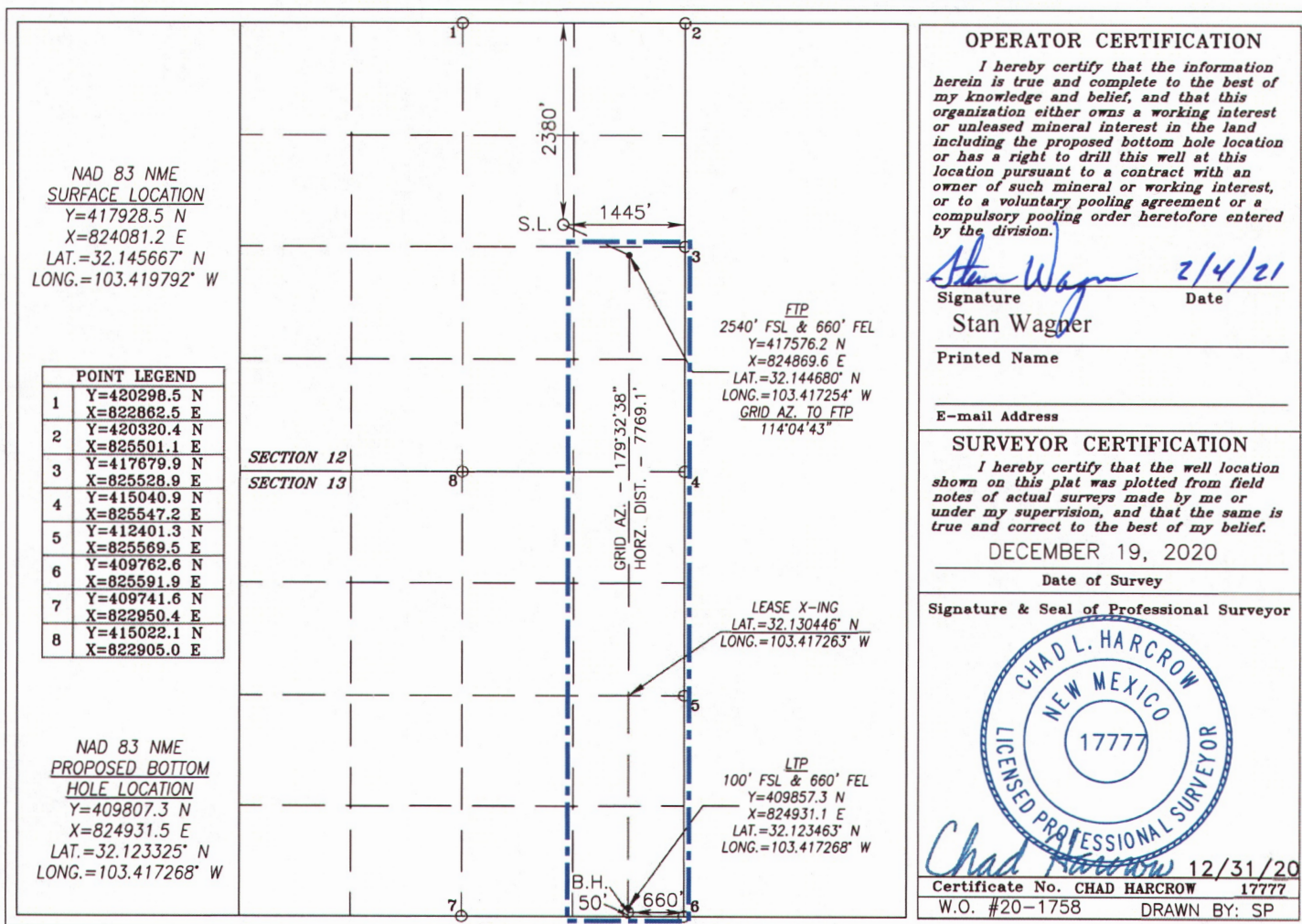
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	25-S	34-E		2380	NORTH	1445	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	25-S	34-E		50	SOUTH	660	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

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



Intent ☒ As Drilled ☐API #
30-025 **49823**

Operator Name:	Property Name:	Well Number
COG Operating LLC	Bandana Federal Com	701H

Kick Off Point (KOP)

UL G	Section 12	Township 25S	Range 34E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude			NAD 83	

First Take Point (FTP)

UL I	Section 12	Township 25S	Range 34E	Lot	Feet 2540	From N/S South	Feet 660	From E/W East	County Lea
Latitude 32.144680					Longitude -103.417254			NAD NAD 83	

Last Take Point (LTP)

UL P	Section 13	Township 25S	Range 34E	Lot	Feet 100	From N/S South	Feet 660	From E/W East	County Lea
Latitude 32.123463					Longitude -103.417268			NAD NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ YesIs this well an infill well? ☐ No

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

API #
30-025-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Bandana Federal Com	701H

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: 239137

Date: 02/21/2022

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
Bandana Fed Com 701H	30-025-49823	12-25S-34E	2380 FNL & 1445 FEL	± 1167	± 1356	± 2880

IV. Central Delivery Point Name: Bandana Fed Com 12 G CTB 2400 FNL & 2300 FEL 12-25S-34E [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
Bandana Fed Com 701H	Pending 30-025-49823	± 5/1/2024	± 5/25/2024	± 9/1/2024	± 10/1/2024	± 10/1/2024

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

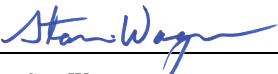
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 02/21/2022
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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM16139
LOCATION:	Section 9, T.25S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Bandana Fed Com 701H
SURFACE HOLE FOOTAGE:	320'/S & 368'/E
BOTTOM HOLE FOOTAGE:	100'/N & 561'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1050** 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. **Excess calculates to 22%. Additional cement maybe required.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

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

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)
393-3612

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 021522

COG Operating, LLC - Bandana Fed Com #701H

1. Geologic Formations

TVD of target	12,957' EOL	Pilot hole depth	NA
MD at TD:	20,553'	Deepest expected fresh water:	155'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	946	Water	
Top of Salt	1499	Salt	
Base of Salt	5225	Salt	
Lamar	5517	Salt Water	
Bell Canyon	5554	Salt Water	
Cherry Canyon	6535	Oil/Gas	
Brushy Canyon	8207	Oil/Gas	
Bone Spring Lime	9462	Oil/Gas	
1st Bone Spring Sand	10651	Oil/Gas	
2nd Bone Spring Sand	11252	Oil/Gas	
3rd Bone Spring Sand	12394	Oil/Gas	
Wolfcamp A	12736	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	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	1050	10.75"	45.5	N80	BTC	5.14	1.67	21.77	22.96
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.03	2.88	2.90
8.750"	8500	12250	7.625"	29.7	HCP110	FJM	1.17	1.33	2.58	1.53
6.75"	0	12050	5.5"	23	P110	BTC	1.86	2.19	2.63	2.61
6.75"	12050	20,553	5.5"	23	P110	Talon	1.73	2.04	2.45	2.37
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

COG Operating, LLC - Bandana Fed Com #701H

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

COG Operating, LLC - Bandana Fed Com #701H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	870	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	559	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	802	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,750'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Bandana Fed Com #701H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

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	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 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 valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 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 - Bandana Fed Com #701H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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

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

6. Logging and Testing Procedures

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

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

COG Operating, LLC - Bandana Fed Com #701H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8425 psi at 12957' TVD
Abnormal Temperature	NO 185 Deg. F.

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

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

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

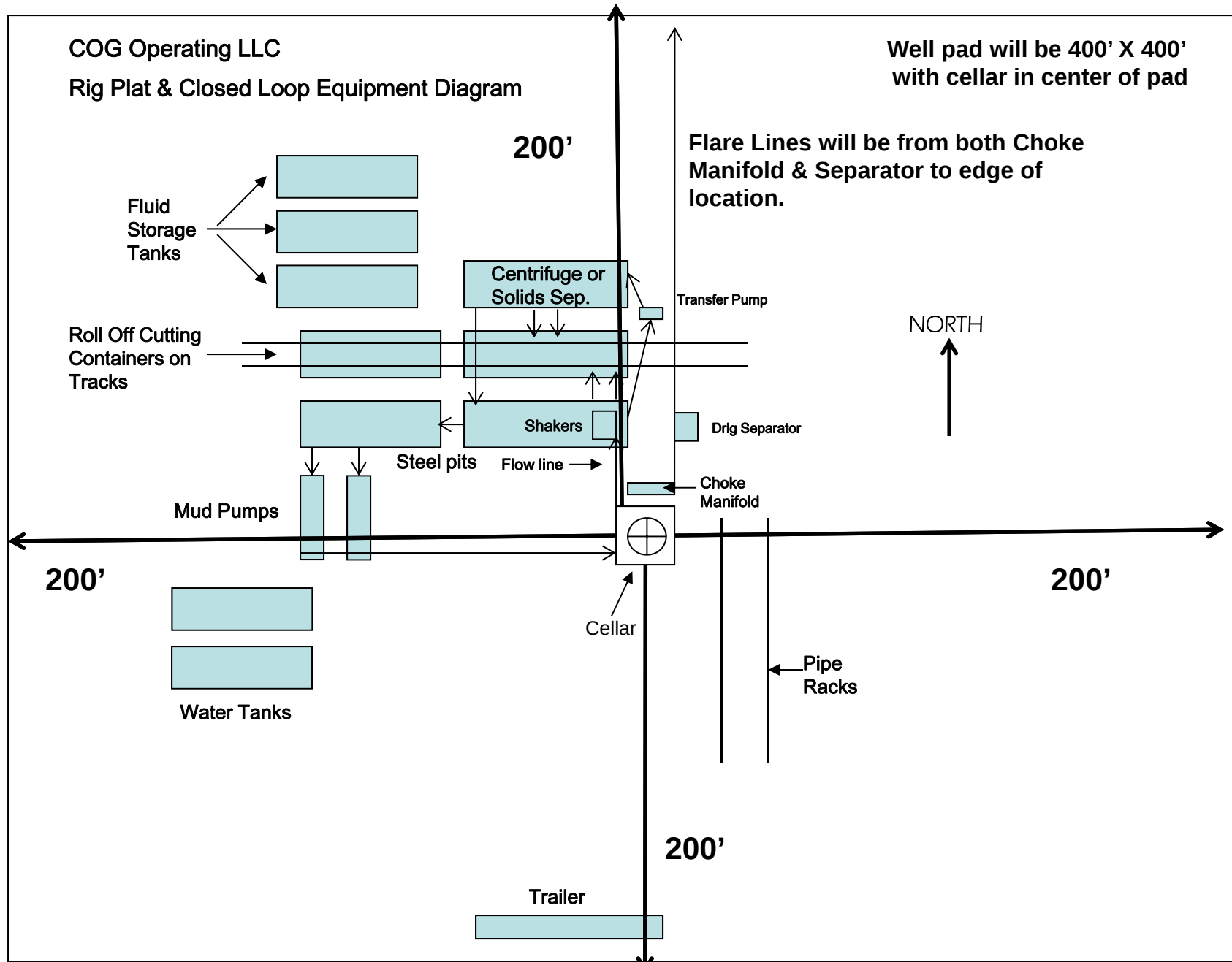


Exhibit 1

"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)
BANDANA FEDERAL PROJECT
BANDANA FED COM #701H**

**OWB
PWP1**

Anticollision Report

19 January, 2021

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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	1/19/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,553.0	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
Offet Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
JAMAICA `12` FEDERAL #1 (P&A'd) - OWB - OWB	13,621.8	12,940.4	242.1	-146.8	0.623	Stop Drilling Now, CC, ES
BANDANA FED COM #601H - OWB - PWP1	2,510.0	2,511.6	30.0	17.3	2.359	CC
BANDANA FED COM #601H - OWB - PWP1	2,600.0	2,602.3	30.2	17.1	2.314	ES
BANDANA FED COM #601H - OWB - PWP1	2,700.0	2,702.9	30.9	17.5	2.305	SF
BANDANA FED COM #602H - OWB - PWP1	2,416.4	2,417.3	90.1	72.2	5.035	CC
BANDANA FED COM #602H - OWB - PWP1	2,500.0	2,500.0	90.1	71.6	4.881	ES, SF
BANDANA FED COM #702H - OWB - PWP1	2,500.0	2,499.8	60.1	41.6	3.256	CC, ES
BANDANA FED COM #702H - OWB - PWP1	2,600.0	2,599.8	61.7	42.5	3.225	SF
GREEN EYESHAD FE D PROJECT						
GREEN EYESHAD FE D COM #601H - OWB - PWP1	12,625.0	12,818.4	457.7	402.0	8.218	SF
GREEN EYESHAD FE D COM #601H - OWB - PWP1	12,638.7	12,819.8	457.5	401.8	8.223	CC, ES
GREEN EYESHAD FE D COM #602H - OWB - PWP1	4,507.9	4,506.5	515.5	483.1	15.887	CC
GREEN EYESHAD FE D COM #602H - OWB - PWP1	5,000.0	4,996.9	517.2	481.3	14.417	ES
GREEN EYESHAD FE D COM #602H - OWB - PWP1	6,500.0	6,458.8	592.6	546.5	12.864	SF
GREEN EYESHAD FE D COM #701H - OWB - PWP1	12,750.0	12,762.8	146.9	88.5	2.515	ES, SF
GREEN EYESHAD FE D COM #701H - OWB - PWP1	12,759.8	12,768.4	146.7	88.5	2.523	CC
GREEN EYESHAD FE D COM #702H - OWB - PWP1	4,906.5	4,917.5	418.9	395.3	17.749	CC
GREEN EYESHAD FE D COM #702H - OWB - PWP1	5,000.0	5,010.0	419.1	395.2	17.519	ES
GREEN EYESHAD FE D COM #702H - OWB - PWP1	6,300.0	6,296.4	464.7	436.1	16.250	SF
STOVE PIPE FEDERAL PROJECT (BULLDOG 2535)						
STOVE PIPE FEDERAL COM #707H - OWB - AWP	14,331.1	22,228.3	947.3	813.2	7.063	CC
STOVE PIPE FEDERAL COM #707H - OWB - AWP	14,400.0	22,287.8	947.6	812.7	7.026	ES
STOVE PIPE FEDERAL COM #707H - OWB - AWP	14,900.0	22,724.1	969.6	829.4	6.917	SF

Offset Design												BANDANA FEDERAL PROJECT - JAMAICA `12` FEDERAL #1 (P&A'd) - OWB - OWB		Offset Site Error:		0.0 usft	
Survey Program:												315-INC-ONLY		Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance											
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning				
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)						
8,200.0	8,180.3	8,166.3	8,163.1	29.1	200.1	56.88	-1,194.4	553.5	998.7	769.6	229.08	4.360					
8,300.0	8,279.9	8,260.7	8,257.5	29.5	202.8	57.27	-1,195.3	553.5	995.1	762.9	232.23	4.285					
8,400.0	8,379.6	8,372.8	8,369.4	29.8	206.2	57.74	-1,196.6	553.5	991.8	755.9	235.92	4.204					
8,500.0	8,479.2	8,472.6	8,469.0	30.2	209.1	58.15	-1,196.6	553.5	987.3	748.1	239.21	4.127					

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

Concho Resources LLC

Anticollision Report

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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 BANDANA FEDERAL PROJECT - JAMAICA '12' FEDERAL #1 (P&A'd) - OWB - OWB													Offset Site Error:	0.0 usft
Survey Program: 315-INC-ONLY													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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,600.0	8,578.9	8,572.2	8,568.7	30.5	212.0	58.57	-1,196.6	553.5	982.9	740.4	242.42	4.054		
8,700.0	8,678.5	8,671.8	8,668.3	30.9	214.8	58.99	-1,196.6	553.5	978.5	732.8	245.62	3.984		
8,800.0	8,778.1	8,767.1	8,763.5	31.3	217.5	59.38	-1,194.6	553.5	972.1	723.4	248.70	3.909		
8,900.0	8,877.8	8,860.5	8,856.9	31.6	220.2	59.79	-1,195.3	553.5	968.6	716.9	251.73	3.848		
9,000.0	8,977.4	8,971.0	8,967.2	32.0	223.3	60.27	-1,196.6	553.5	965.6	710.4	255.20	3.784		
9,100.0	9,077.1	9,070.7	9,066.9	32.3	225.9	60.71	-1,196.6	553.5	961.5	703.3	258.19	3.724		
9,200.0	9,176.7	9,170.3	9,166.5	32.7	228.6	61.15	-1,196.6	553.5	957.4	696.2	261.18	3.666		
9,300.0	9,276.4	9,266.1	9,262.2	33.1	231.1	61.57	-1,194.8	553.5	951.6	687.5	264.07	3.604		
9,400.0	9,376.0	9,360.3	9,356.4	33.4	233.6	61.99	-1,195.5	553.5	948.3	681.4	266.91	3.553		
9,500.0	9,475.6	9,469.5	9,465.4	33.8	236.4	62.48	-1,196.6	553.5	945.4	675.2	270.15	3.500		
9,600.0	9,575.3	9,568.4	9,564.4	34.2	239.1	62.93	-1,195.8	553.5	940.8	667.6	273.12	3.445		
9,700.0	9,674.9	9,658.5	9,654.5	34.5	241.4	63.35	-1,196.4	553.5	937.5	661.7	275.85	3.399		
9,800.0	9,774.6	9,768.5	9,764.4	34.9	244.4	63.86	-1,196.6	553.5	933.9	654.7	279.22	3.345		
9,900.0	9,874.2	9,868.1	9,864.0	35.2	247.2	64.32	-1,196.6	553.5	930.2	647.9	282.32	3.295		
10,000.0	9,973.9	9,965.4	9,961.2	35.6	249.8	64.78	-1,194.8	553.5	924.8	639.4	285.35	3.241		
10,100.0	10,073.5	10,059.7	10,055.5	36.0	252.4	65.23	-1,195.3	553.5	921.8	633.5	288.30	3.197		
10,200.0	10,173.2	10,154.0	10,149.9	36.3	255.0	65.68	-1,196.4	553.5	919.4	628.2	291.24	3.157		
10,300.0	10,272.8	10,266.9	10,262.6	36.7	258.2	66.22	-1,196.6	553.5	916.1	621.3	294.84	3.107		
10,400.0	10,372.4	10,366.6	10,362.2	37.0	261.1	66.70	-1,196.6	553.5	912.7	614.7	298.05	3.062		
10,500.0	10,472.1	10,463.6	10,459.3	37.4	263.9	67.18	-1,194.8	553.5	907.6	606.4	301.19	3.013		
10,600.0	10,571.7	10,558.1	10,553.7	37.8	266.6	67.64	-1,195.3	553.5	904.9	600.7	304.24	2.974		
10,700.0	10,671.4	10,665.8	10,661.2	38.1	269.6	68.17	-1,196.6	553.5	903.0	595.3	307.69	2.935		
10,800.0	10,771.0	10,765.4	10,760.8	38.5	272.7	68.67	-1,196.6	553.5	899.9	588.7	311.13	2.892		
10,900.0	10,870.7	10,865.1	10,860.5	38.9	275.8	69.17	-1,196.6	553.5	896.8	582.3	314.57	2.851		
11,000.0	10,970.3	10,961.7	10,957.0	39.2	278.8	69.67	-1,194.5	553.5	891.8	573.9	317.91	2.805		
11,100.0	11,070.0	11,055.6	11,050.9	39.6	281.7	70.14	-1,195.2	553.5	889.6	568.4	321.17	2.770		
11,200.0	11,169.6	11,164.3	11,159.4	39.9	285.0	70.69	-1,196.6	553.5	888.1	563.2	324.89	2.734		
11,300.0	11,269.2	11,264.0	11,259.0	40.3	288.1	71.20	-1,196.6	553.5	885.4	557.0	328.34	2.697		
11,400.0	11,368.9	11,363.6	11,358.7	40.7	291.2	71.72	-1,196.6	553.5	882.7	550.9	331.78	2.660		
11,500.0	11,468.5	11,459.9	11,454.9	41.0	294.2	72.24	-1,194.3	553.5	877.7	542.6	335.11	2.619		
11,600.0	11,568.2	11,553.3	11,548.2	41.4	297.1	72.72	-1,195.0	553.5	875.9	537.6	338.35	2.589		
11,700.0	11,667.8	11,662.9	11,657.6	41.8	300.4	73.28	-1,196.6	553.5	875.0	532.9	342.11	2.558		
11,800.0	11,767.5	11,762.5	11,757.3	42.1	303.5	73.81	-1,196.6	553.5	872.6	527.1	345.56	2.525		
11,900.0	11,867.1	11,862.2	11,856.9	42.5	306.6	74.34	-1,196.6	553.5	870.3	521.3	349.00	2.494		
12,000.0	11,966.7	11,958.9	11,953.6	42.8	309.6	74.89	-1,194.5	553.5	866.0	513.7	352.36	2.458		
12,100.0	12,066.4	12,053.0	12,047.7	43.2	312.5	75.39	-1,195.1	553.5	864.5	508.9	355.62	2.431		
12,200.0	12,166.0	12,161.5	12,155.8	43.6	315.9	75.95	-1,196.6	553.5	863.8	504.5	359.36	2.404		
12,300.0	12,265.7	12,261.1	12,255.5	43.9	319.2	76.50	-1,196.6	553.5	861.8	498.8	363.03	2.374		
12,400.0	12,365.3	12,360.8	12,355.1	44.3	322.5	77.04	-1,196.6	553.5	859.9	493.2	366.71	2.345		
12,500.0	12,465.0	12,460.1	12,454.4	44.7	325.8	77.63	-1,193.7	553.5	855.2	484.8	370.38	2.309		
12,534.2	12,499.0	12,492.3	12,486.7	44.8	326.9	77.81	-1,193.7	553.5	854.6	483.0	371.58	2.300		
12,550.0	12,514.8	12,507.3	12,501.6	44.8	327.4	61.23	-1,193.8	553.5	854.1	482.0	372.13	2.295		
12,575.0	12,539.6	12,530.9	12,525.2	44.9	328.2	46.09	-1,193.9	553.5	852.4	479.4	373.00	2.285		
12,600.0	12,564.2	12,554.3	12,548.6	45.0	328.9	38.12	-1,194.0	553.5	849.4	475.5	373.87	2.272		
12,625.0	12,588.7	12,577.5	12,571.8	45.1	329.7	33.52	-1,194.2	553.5	845.2	470.4	374.73	2.255		
12,650.0	12,612.8	12,600.4	12,594.7	45.2	330.5	30.68	-1,194.4	553.5	839.8	464.2	375.58	2.236		
12,675.0	12,636.5	12,623.1	12,617.4	45.3	331.2	28.89	-1,194.6	553.5	833.2	456.8	376.42	2.214		
12,700.0	12,659.9	12,645.4	12,639.6	45.4	332.0	27.77	-1,194.9	553.5	825.5	448.3	377.24	2.188		
12,725.0	12,682.7	12,667.2	12,661.5	45.5	332.7	27.12	-1,195.2	553.5	816.6	438.6	378.04	2.160		
12,750.0	12,705.0	12,688.6	12,682.9	45.5	333.4	26.85	-1,195.5	553.5	806.7	427.9	378.83	2.129		
12,775.0	12,726.7	12,709.5	12,703.7	45.6	334.1	26.88	-1,195.9	553.5	795.7	416.1	379.60	2.096		
12,800.0	12,747.7	12,729.7	12,724.0	45.7	334.8	27.17	-1,196.2	553.5	783.6	403.3	380.34	2.060		

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - JAMAICA '12' FEDERAL #1 (P&A'd) - OWB - OWB												Offset Site Error:	0.0 usft
Survey Program: 315-INC-ONLY												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 Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,825.0	12,768.0	12,764.0	12,757.8	45.8	335.9	28.07	-1,196.6	553.5	770.4	388.8	381.58	2.019	
12,850.0	12,787.5	12,783.4	12,777.3	45.9	336.5	28.92	-1,196.6	553.5	756.0	373.7	382.28	1.978	Advise and Monitor
12,875.0	12,806.2	12,802.1	12,796.0	45.9	337.1	30.04	-1,196.6	553.5	740.7	357.7	382.95	1.934	Advise and Monitor
12,900.0	12,823.9	12,819.9	12,813.7	46.0	337.7	31.43	-1,196.6	553.5	724.5	340.9	383.59	1.889	Advise and Monitor
12,925.0	12,840.8	12,836.7	12,830.6	46.1	338.2	33.12	-1,196.6	553.5	707.4	323.2	384.19	1.841	Advise and Monitor
12,950.0	12,856.6	12,852.5	12,846.4	46.2	338.7	35.13	-1,196.6	553.5	689.7	304.9	384.76	1.792	Advise and Monitor
12,975.0	12,871.4	12,867.3	12,861.2	46.2	339.2	37.49	-1,196.6	553.5	671.2	285.9	385.29	1.742	Advise and Monitor
13,000.0	12,885.1	12,881.1	12,874.9	46.3	339.7	40.25	-1,196.6	553.5	652.1	266.3	385.79	1.690	Advise and Monitor
13,025.0	12,897.8	12,893.7	12,887.6	46.4	340.1	43.43	-1,196.6	553.5	632.4	246.2	386.25	1.637	Advise and Monitor
13,050.0	12,909.3	12,905.2	12,899.1	46.4	340.4	47.06	-1,196.6	553.5	612.3	225.6	386.66	1.584	Advise and Monitor
13,075.0	12,919.6	12,915.5	12,909.4	46.5	340.8	51.17	-1,196.6	553.5	591.7	204.7	387.04	1.529	Advise and Monitor
13,100.0	12,928.7	12,924.6	12,918.5	46.5	341.1	55.73	-1,196.6	553.5	570.8	183.5	387.38	1.474	Shut in Producers
13,125.0	12,936.6	12,932.5	12,926.4	46.6	341.3	60.69	-1,196.6	553.5	549.7	162.0	387.68	1.418	Shut in Producers
13,150.0	12,943.2	12,939.2	12,933.0	46.6	341.5	65.97	-1,196.6	553.5	528.4	140.5	387.94	1.362	Shut in Producers
13,175.0	12,948.6	12,944.6	12,938.4	46.7	341.7	71.41	-1,196.6	553.5	507.0	118.9	388.16	1.306	Shut in Producers
13,200.0	12,952.7	12,948.6	12,942.5	46.7	341.8	76.86	-1,196.6	553.5	485.7	97.3	388.33	1.251	Shut in Producers
13,225.0	12,955.5	12,951.4	12,945.3	46.8	341.9	82.13	-1,196.6	553.5	464.4	76.0	388.47	1.196	Shut in Producers
13,250.0	12,957.0	12,953.0	12,946.8	46.8	342.0	87.05	-1,196.6	553.5	443.4	54.9	388.56	1.141	Shut in Producers
13,275.0	12,957.2	12,953.1	12,947.0	46.9	342.0	91.49	-1,196.6	553.5	422.7	34.1	388.62	1.088	Shut in Producers
13,284.0	12,957.0	12,952.9	12,946.8	46.9	342.0	92.95	-1,196.6	553.5	415.4	26.8	388.63	1.069	Shut in Producers
13,300.0	12,956.4	12,952.3	12,946.2	46.9	341.9	92.81	-1,196.6	553.5	402.5	13.9	388.64	1.036	Shut in Producers
13,400.0	12,952.7	12,948.6	12,942.5	47.1	341.8	91.94	-1,196.6	553.5	328.2	-60.6	388.79	0.844	Stop Drilling Now
13,500.0	12,949.0	12,944.9	12,938.8	47.3	341.7	91.07	-1,196.6	553.5	271.0	-118.0	388.97	0.697	Stop Drilling Now
13,600.0	12,945.3	12,941.2	12,935.1	47.5	341.6	90.19	-1,196.6	553.5	243.1	-145.9	388.96	0.625	Stop Drilling Now
13,621.8	12,944.5	12,940.4	12,934.3	47.5	341.6	90.00	-1,196.6	553.5	242.1	-146.8	388.90	0.623	Stop Drilling Now, CC, ES, SF
13,700.0	12,941.6	12,937.5	12,931.4	47.7	341.5	89.32	-1,196.6	553.5	254.4	-134.1	388.53	0.655	Stop Drilling Now
13,800.0	12,937.9	12,933.8	12,927.7	47.9	341.4	88.44	-1,196.6	553.5	300.6	-87.4	387.99	0.775	Stop Drilling Now
13,900.0	12,934.2	12,930.1	12,924.0	48.2	341.2	87.57	-1,196.6	553.5	368.7	-18.9	387.58	0.951	Stop Drilling Now
14,000.0	12,930.5	12,926.4	12,920.3	48.4	341.1	86.69	-1,196.6	553.5	448.9	61.6	387.31	1.159	Shut in Producers
14,100.0	12,926.8	12,922.7	12,916.6	48.7	341.0	85.82	-1,196.6	553.5	535.7	148.6	387.11	1.384	Shut in Producers
14,200.0	12,923.1	12,919.0	12,912.9	48.9	340.9	84.95	-1,196.6	553.5	626.5	239.5	386.96	1.619	Advise and Monitor
14,300.0	12,919.4	12,915.3	12,909.2	49.2	340.8	84.09	-1,196.6	553.5	719.7	332.9	386.83	1.861	Advise and Monitor
14,400.0	12,915.7	12,911.6	12,905.5	49.5	340.6	83.22	-1,196.6	553.5	814.5	427.8	386.72	2.106	
14,500.0	12,912.0	12,907.9	12,901.8	49.9	340.5	82.36	-1,196.6	553.5	910.4	523.8	386.61	2.355	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #601H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12242-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.5	1.5	3.0	3.0	-90.38	-0.2	-30.0	30.0				
100.0	100.0	101.5	101.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.00	4.998	
200.0	200.0	201.5	201.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.04	4.967	
300.0	300.0	301.5	301.5	3.1	3.0	-90.38	-0.2	-30.0	30.0	23.9	6.12	4.902	
400.0	400.0	401.5	401.5	3.2	3.0	-90.38	-0.2	-30.0	30.0	23.8	6.24	4.807	
500.0	500.0	501.5	501.5	3.4	3.1	-90.38	-0.2	-30.0	30.0	23.6	6.40	4.690	
600.0	600.0	601.5	601.5	3.6	3.1	-90.38	-0.2	-30.0	30.0	23.4	6.58	4.557	
700.0	700.0	701.5	701.5	3.8	3.1	-90.38	-0.2	-30.0	30.0	23.2	6.80	4.413	
800.0	800.0	801.5	801.5	4.0	3.2	-90.38	-0.2	-30.0	30.0	23.0	7.04	4.264	
900.0	900.0	901.5	901.5	4.2	3.2	-90.38	-0.2	-30.0	30.0	22.7	7.29	4.113	
1,000.0	1,000.0	1,001.5	1,001.5	4.5	3.2	-90.38	-0.2	-30.0	30.0	22.4	7.57	3.964	
1,100.0	1,100.0	1,101.5	1,101.5	4.8	3.3	-90.38	-0.2	-30.0	30.0	22.1	7.86	3.818	
1,200.0	1,200.0	1,201.5	1,201.5	5.1	3.4	-90.38	-0.2	-30.0	30.0	21.8	8.16	3.677	
1,300.0	1,300.0	1,301.5	1,301.5	5.3	3.4	-90.38	-0.2	-30.0	30.0	21.5	8.47	3.542	
1,400.0	1,400.0	1,401.5	1,401.5	5.6	3.5	-90.38	-0.2	-30.0	30.0	21.2	8.79	3.413	
1,500.0	1,500.0	1,501.5	1,501.5	6.0	3.5	-90.38	-0.2	-30.0	30.0	20.9	9.12	3.290	
1,600.0	1,600.0	1,601.5	1,601.5	6.3	3.6	-90.38	-0.2	-30.0	30.0	20.5	9.45	3.174	
1,700.0	1,700.0	1,701.5	1,701.5	6.6	3.7	-90.38	-0.2	-30.0	30.0	20.2	9.79	3.063	
1,800.0	1,800.0	1,801.5	1,801.5	6.9	3.8	-90.38	-0.2	-30.0	30.0	19.9	10.14	2.958	
1,900.0	1,900.0	1,901.5	1,901.5	7.2	3.9	-90.38	-0.2	-30.0	30.0	19.5	10.49	2.859	
2,000.0	2,000.0	2,001.5	2,001.5	7.6	3.9	-90.38	-0.2	-30.0	30.0	19.2	10.85	2.766	
2,100.0	2,100.0	2,101.5	2,101.5	7.9	4.0	-90.38	-0.2	-30.0	30.0	18.8	11.21	2.677	
2,200.0	2,200.0	2,201.5	2,201.5	8.2	4.1	-90.38	-0.2	-30.0	30.0	18.4	11.57	2.593	
2,300.0	2,300.0	2,301.5	2,301.5	8.6	4.2	-90.38	-0.2	-30.0	30.0	18.1	11.94	2.513	
2,400.0	2,400.0	2,401.5	2,401.5	8.9	4.3	-90.38	-0.2	-30.0	30.0	17.7	12.31	2.438	
2,500.0	2,500.0	2,501.5	2,501.5	9.2	4.4	-90.38	-0.2	-30.0	30.0	17.3	12.68	2.366	
2,510.0	2,510.0	2,511.6	2,511.6	9.3	4.4	153.88	-0.2	-30.0	30.0	17.3	12.71	2.359 CC	
2,600.0	2,600.0	2,602.3	2,602.3	9.6	4.4	153.17	-1.3	-28.6	30.2	17.1	13.04	2.314 ES	
2,700.0	2,699.8	2,702.9	2,702.7	9.9	4.4	151.35	-4.6	-24.5	30.9	17.5	13.40	2.305 SF	
2,741.8	2,741.5	2,744.7	2,744.5	10.0	4.4	151.07	-6.2	-22.5	31.8	18.3	13.55	2.348	
2,800.0	2,799.5	2,802.9	2,802.5	10.2	4.4	151.08	-8.4	-19.8	33.5	19.7	13.76	2.433	
2,900.0	2,899.1	2,902.8	2,902.3	10.5	4.4	151.09	-12.2	-15.1	36.4	22.2	14.13	2.573	
3,000.0	2,998.8	3,002.8	3,002.1	10.8	4.4	151.10	-16.1	-10.3	39.2	24.7	14.50	2.705	
3,100.0	3,098.4	3,102.7	3,101.8	11.2	4.4	151.10	-19.9	-5.6	42.1	27.2	14.88	2.829	
3,200.0	3,198.1	3,202.7	3,201.6	11.5	4.4	151.11	-23.7	-0.9	45.0	29.7	15.27	2.946	
3,300.0	3,297.7	3,302.7	3,301.4	11.8	4.4	151.11	-27.5	3.9	47.8	32.2	15.65	3.056	
3,400.0	3,397.4	3,402.6	3,401.2	12.2	4.5	151.12	-31.3	8.6	50.7	34.7	16.05	3.160	
3,500.0	3,497.0	3,502.6	3,500.9	12.5	4.5	151.12	-35.1	13.3	53.6	37.1	16.44	3.259	
3,600.0	3,596.7	3,602.5	3,600.7	12.9	4.5	151.12	-39.0	18.1	56.5	39.6	16.84	3.352	
3,700.0	3,696.3	3,702.5	3,700.5	13.2	4.5	151.13	-42.8	22.8	59.3	42.1	17.25	3.440	
3,800.0	3,795.9	3,802.5	3,800.3	13.5	4.6	151.13	-46.6	27.5	62.2	44.5	17.65	3.523	
3,900.0	3,895.6	3,902.4	3,900.0	13.9	4.6	151.13	-50.4	32.3	65.1	47.0	18.06	3.602	
4,000.0	3,995.2	4,002.4	3,999.8	14.2	4.6	151.13	-54.2	37.0	67.9	49.5	18.47	3.677	
4,100.0	4,094.9	4,102.3	4,099.6	14.6	4.7	151.14	-58.0	41.7	70.8	51.9	18.89	3.749	
4,200.0	4,194.5	4,202.3	4,199.4	14.9	4.7	151.14	-61.8	46.5	73.7	54.4	19.31	3.816	
4,300.0	4,294.2	4,302.2	4,299.1	15.3	4.8	151.14	-65.7	51.2	76.6	56.8	19.73	3.880	
4,400.0	4,393.8	4,402.2	4,398.9	15.6	4.8	151.14	-69.5	55.9	79.4	59.3	20.15	3.942	
4,500.0	4,493.5	4,502.2	4,498.7	15.9	4.9	151.14	-73.3	60.7	82.3	61.7	20.58	4.000	
4,600.0	4,593.1	4,602.1	4,598.4	16.3	4.9	151.14	-77.1	65.4	85.2	64.2	21.00	4.055	
4,700.0	4,692.7	4,702.1	4,698.2	16.6	5.0	151.15	-80.9	70.1	88.0	66.6	21.43	4.108	
4,800.0	4,792.4	4,802.0	4,798.0	17.0	5.1	151.15	-84.7	74.8	90.9	69.0	21.86	4.158	
4,900.0	4,892.0	4,902.0	4,897.8	17.3	5.1	151.15	-88.5	79.6	93.8	71.5	22.29	4.206	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #601H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12242-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.7	5,002.0	4,997.5	17.7	5.2	151.15	-92.4	84.3	96.7	73.9	22.73	4.252	
5,100.0	5,091.3	5,101.9	5,097.3	18.0	5.3	151.15	-96.2	89.0	99.5	76.4	23.16	4.296	
5,200.0	5,191.0	5,201.9	5,197.1	18.4	5.3	151.15	-100.0	93.8	102.4	78.8	23.60	4.338	
5,300.0	5,290.6	5,301.8	5,296.9	18.7	5.4	151.15	-103.8	98.5	105.3	81.2	24.04	4.379	
5,400.0	5,390.2	5,401.8	5,396.6	19.1	5.5	151.15	-107.6	103.2	108.1	83.7	24.48	4.417	
5,500.0	5,489.9	5,501.7	5,496.4	19.5	5.6	151.15	-111.4	108.0	111.0	86.1	24.92	4.454	
5,600.0	5,589.5	5,601.7	5,596.2	19.8	5.6	151.15	-115.2	112.7	113.9	88.5	25.37	4.490	
5,700.0	5,689.2	5,701.7	5,696.0	20.2	5.7	151.16	-119.1	117.4	116.8	90.9	25.81	4.524	
5,800.0	5,788.8	5,801.6	5,795.7	20.5	5.8	151.16	-122.9	122.2	119.6	93.4	26.26	4.556	
5,900.0	5,888.5	5,901.6	5,895.5	20.9	5.9	151.16	-126.7	126.9	122.5	95.8	26.70	4.588	
6,000.0	5,988.1	6,001.5	5,995.3	21.2	6.0	151.16	-130.5	131.6	125.4	98.2	27.15	4.618	
6,100.0	6,087.8	6,101.5	6,095.1	21.6	6.1	151.16	-134.3	136.4	128.2	100.6	27.60	4.647	
6,200.0	6,187.4	6,201.5	6,194.8	21.9	6.2	151.16	-138.1	141.1	131.1	103.1	28.05	4.675	
6,300.0	6,287.0	6,301.4	6,294.6	22.3	6.3	151.16	-142.0	145.8	134.0	105.5	28.50	4.701	
6,400.0	6,386.7	6,401.4	6,394.4	22.7	6.3	151.16	-145.8	150.6	136.9	107.9	28.95	4.727	
6,500.0	6,486.3	6,501.3	6,494.1	23.0	6.4	151.16	-149.6	155.3	139.7	110.3	29.40	4.752	
6,600.0	6,586.0	6,601.3	6,593.9	23.4	6.5	151.16	-153.4	160.0	142.6	112.7	29.86	4.776	
6,700.0	6,685.6	6,701.3	6,693.7	23.7	6.6	151.16	-157.2	164.7	145.5	115.2	30.31	4.799	
6,800.0	6,785.3	6,801.2	6,793.5	24.1	6.7	151.16	-161.0	169.5	148.3	117.6	30.76	4.822	
6,900.0	6,884.9	6,901.2	6,893.2	24.4	6.8	151.16	-164.8	174.2	151.2	120.0	31.22	4.843	
7,000.0	6,984.6	7,001.1	6,993.0	24.8	6.9	151.16	-168.7	178.9	154.1	122.4	31.68	4.864	
7,100.0	7,084.2	7,101.1	7,092.8	25.2	7.0	151.16	-172.5	183.7	157.0	124.8	32.13	4.884	
7,200.0	7,183.8	7,201.0	7,192.6	25.5	7.1	151.16	-176.3	188.4	159.8	127.2	32.59	4.904	
7,300.0	7,283.5	7,301.0	7,292.3	25.9	7.2	151.16	-180.1	193.1	162.7	129.6	33.05	4.923	
7,400.0	7,383.1	7,401.0	7,392.1	26.2	7.3	151.16	-183.9	197.9	165.6	132.1	33.51	4.941	
7,500.0	7,482.8	7,500.9	7,491.9	26.6	7.4	151.16	-187.7	202.6	168.4	134.5	33.97	4.959	
7,600.0	7,582.4	7,600.9	7,591.7	26.9	7.5	151.16	-191.5	207.3	171.3	136.9	34.43	4.976	
7,700.0	7,682.1	7,700.8	7,691.4	27.3	7.6	151.16	-195.4	212.1	174.2	139.3	34.89	4.993	
7,800.0	7,781.7	7,800.8	7,791.2	27.7	7.8	151.17	-199.2	216.8	177.1	141.7	35.35	5.009	
7,900.0	7,881.3	7,900.8	7,891.0	28.0	7.9	151.17	-203.0	221.5	179.9	144.1	35.81	5.024	
8,000.0	7,981.0	8,000.7	7,990.8	28.4	8.0	151.17	-206.8	226.3	182.8	146.5	36.27	5.039	
8,100.0	8,080.6	8,100.7	8,090.5	28.7	8.1	151.17	-210.6	231.0	185.7	148.9	36.74	5.054	
8,200.0	8,180.3	8,200.6	8,190.3	29.1	8.2	151.17	-214.4	235.7	188.5	151.3	37.20	5.068	
8,300.0	8,279.9	8,300.6	8,290.1	29.5	8.3	151.17	-218.3	240.5	191.4	153.7	37.66	5.082	
8,400.0	8,379.6	8,400.6	8,389.9	29.8	8.4	151.17	-222.1	245.2	194.3	156.2	38.13	5.095	
8,500.0	8,479.2	8,500.5	8,489.6	30.2	8.5	151.17	-225.9	249.9	197.2	158.6	38.59	5.109	
8,600.0	8,578.9	8,600.5	8,589.4	30.5	8.6	151.17	-229.7	254.6	200.0	161.0	39.06	5.121	
8,700.0	8,678.5	8,700.4	8,689.2	30.9	8.7	151.17	-233.5	259.4	202.9	163.4	39.52	5.133	
8,800.0	8,778.1	8,800.4	8,788.9	31.3	8.9	151.17	-237.3	264.1	205.8	165.8	39.99	5.145	
8,900.0	8,877.8	8,900.3	8,888.7	31.6	9.0	151.17	-241.1	268.8	208.6	168.2	40.46	5.157	
9,000.0	8,977.4	9,000.3	8,988.5	32.0	9.1	151.17	-245.0	273.6	211.5	170.6	40.92	5.168	
9,100.0	9,077.1	9,100.3	9,088.3	32.3	9.2	151.17	-248.8	278.3	214.4	173.0	41.39	5.179	
9,200.0	9,176.7	9,200.2	9,188.0	32.7	9.3	151.17	-252.6	283.0	217.3	175.4	41.86	5.190	
9,300.0	9,276.4	9,300.2	9,287.8	33.1	9.4	151.17	-256.4	287.8	220.1	177.8	42.33	5.201	
9,400.0	9,376.0	9,400.1	9,387.6	33.4	9.5	151.17	-260.2	292.5	223.0	180.2	42.79	5.211	
9,500.0	9,475.6	9,500.1	9,487.4	33.8	9.6	151.17	-264.0	297.2	225.9	182.6	43.26	5.221	
9,600.0	9,575.3	9,600.1	9,587.1	34.2	9.8	151.17	-267.8	302.0	228.7	185.0	43.73	5.230	
9,700.0	9,674.9	9,700.0	9,686.9	34.5	9.9	151.17	-271.7	306.7	231.6	187.4	44.20	5.240	
9,800.0	9,774.6	9,800.0	9,786.7	34.9	10.0	151.17	-275.5	311.4	234.5	189.8	44.67	5.249	
9,900.0	9,874.2	9,899.9	9,886.5	35.2	10.1	151.17	-279.3	316.2	237.4	192.2	45.14	5.258	
10,000.0	9,973.9	9,999.9	9,986.2	35.6	10.2	151.17	-283.1	320.9	240.2	194.6	45.61	5.267	
10,100.0	10,073.5	10,099.9	10,086.0	36.0	10.3	151.17	-286.9	325.6	243.1	197.0	46.08	5.275	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #601H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12242-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.0	10,173.2	10,199.8	10,185.8	36.3	10.5	151.17	-290.7	330.4	246.0	199.4	46.55	5.283	
10,300.0	10,272.8	10,299.8	10,285.6	36.7	10.6	151.17	-294.5	335.1	248.8	201.8	47.03	5.291	
10,400.0	10,372.4	10,399.7	10,385.3	37.0	10.7	151.17	-298.4	339.8	251.7	204.2	47.50	5.299	
10,500.0	10,472.1	10,499.7	10,485.1	37.4	10.8	151.17	-302.2	344.5	254.6	206.6	47.97	5.307	
10,600.0	10,571.7	10,599.6	10,584.9	37.8	10.9	151.17	-306.0	349.3	257.5	209.0	48.44	5.315	
10,700.0	10,671.4	10,699.6	10,684.6	38.1	11.1	151.17	-309.8	354.0	260.3	211.4	48.92	5.322	
10,800.0	10,771.0	10,799.6	10,784.4	38.5	11.2	151.17	-313.6	358.7	263.2	213.8	49.39	5.329	
10,900.0	10,870.7	10,899.5	10,884.2	38.9	11.3	151.17	-317.4	363.5	266.1	216.2	49.86	5.336	
11,000.0	10,970.3	10,999.5	10,984.0	39.2	11.4	151.17	-321.3	368.2	268.9	218.6	50.33	5.343	
11,100.0	11,070.0	11,099.4	11,083.7	39.6	11.5	151.17	-325.1	372.9	271.8	221.0	50.81	5.350	
11,200.0	11,169.6	11,199.4	11,183.5	39.9	11.7	151.17	-328.9	377.7	274.7	223.4	51.28	5.356	
11,300.0	11,269.2	11,299.4	11,283.3	40.3	11.8	151.17	-332.7	382.4	277.5	225.8	51.76	5.363	
11,400.0	11,368.9	11,399.3	11,383.1	40.7	11.9	151.17	-336.5	387.1	280.4	228.2	52.23	5.369	
11,500.0	11,468.5	11,499.3	11,482.8	41.0	12.0	151.17	-340.3	391.9	283.3	230.6	52.71	5.375	
11,600.0	11,568.2	11,599.2	11,582.6	41.4	12.1	151.17	-344.1	396.6	286.2	233.0	53.18	5.381	
11,700.0	11,667.8	11,699.2	11,682.4	41.8	12.3	151.17	-348.0	401.3	289.0	235.4	53.66	5.387	
11,800.0	11,767.5	11,799.2	11,782.2	42.1	12.4	151.17	-351.8	406.1	291.9	237.8	54.13	5.392	
11,900.0	11,867.1	11,899.1	11,881.9	42.5	12.5	151.17	-355.6	410.8	294.8	240.2	54.61	5.398	
12,000.0	11,966.7	11,999.1	11,981.7	42.8	12.6	151.17	-359.4	415.5	297.6	242.6	55.08	5.404	
12,100.0	12,066.4	12,099.0	12,081.5	43.2	12.8	151.17	-363.2	420.3	300.5	245.0	55.56	5.409	
12,200.0	12,166.0	12,199.0	12,181.3	43.6	12.9	151.17	-367.0	425.0	303.4	247.4	56.04	5.414	
12,300.0	12,265.7	12,297.1	12,278.9	43.9	13.0	150.57	-374.0	429.6	306.4	250.0	56.44	5.429	
12,400.0	12,365.3	12,389.5	12,368.2	44.3	13.0	146.98	-396.9	434.1	311.2	254.5	56.72	5.487	
12,500.0	12,465.0	12,471.8	12,442.6	44.7	13.0	141.32	-431.5	437.9	321.2	264.1	57.01	5.633	
12,534.2	12,499.0	12,497.1	12,464.2	44.8	13.0	139.20	-444.7	439.0	326.5	269.4	57.14	5.714	
12,550.0	12,514.8	12,508.4	12,473.6	44.8	13.0	121.22	-450.9	439.5	329.3	272.1	57.22	5.756	
12,575.0	12,539.6	12,525.0	12,487.2	44.9	13.1	103.95	-460.5	440.3	334.1	276.7	57.36	5.824	
12,600.0	12,564.2	12,543.5	12,501.9	45.0	13.1	93.69	-471.7	441.1	339.1	281.6	57.50	5.897	
12,625.0	12,588.7	12,560.8	12,515.2	45.1	13.1	86.89	-482.7	441.8	344.3	286.6	57.66	5.970	
12,650.0	12,612.8	12,575.0	12,525.8	45.2	13.1	82.07	-492.1	442.4	349.6	291.7	57.87	6.041	
12,675.0	12,636.5	12,594.9	12,540.3	45.3	13.1	77.90	-505.7	443.2	355.1	297.0	58.03	6.119	
12,700.0	12,659.9	12,611.7	12,552.0	45.4	13.1	74.60	-517.7	443.8	360.6	302.4	58.22	6.193	
12,725.0	12,682.7	12,625.0	12,561.0	45.5	13.1	71.96	-527.6	444.4	366.1	307.7	58.45	6.264	
12,750.0	12,705.0	12,644.9	12,573.9	45.5	13.2	69.32	-542.6	445.1	371.6	313.0	58.61	6.340	
12,775.0	12,726.7	12,661.3	12,584.1	45.6	13.2	67.13	-555.5	445.7	377.1	318.3	58.80	6.412	
12,800.0	12,747.7	12,675.0	12,592.3	45.7	13.2	65.29	-566.5	446.2	382.4	323.4	59.01	6.481	
12,825.0	12,768.0	12,693.8	12,603.0	45.8	13.2	63.42	-582.0	446.8	387.7	328.5	59.17	6.552	
12,850.0	12,787.5	12,710.0	12,611.6	45.9	13.2	61.82	-595.6	447.4	392.8	333.4	59.34	6.619	
12,875.0	12,806.2	12,725.0	12,619.3	45.9	13.3	60.41	-608.5	447.9	397.7	338.2	59.51	6.682	
12,900.0	12,823.9	12,742.0	12,627.5	46.0	13.3	59.07	-623.4	448.4	402.4	342.7	59.66	6.745	
12,925.0	12,840.8	12,757.9	12,634.6	46.1	13.3	57.88	-637.6	448.8	406.9	347.1	59.80	6.803	
12,950.0	12,856.6	12,775.0	12,641.8	46.2	13.3	56.78	-653.1	449.3	411.1	351.2	59.93	6.860	
12,975.0	12,871.4	12,789.6	12,647.4	46.2	13.4	55.84	-666.6	449.7	415.1	355.0	60.06	6.911	
13,000.0	12,885.1	12,805.3	12,653.1	46.3	13.4	54.97	-681.2	450.1	418.8	358.6	60.18	6.959	
13,025.0	12,897.8	12,825.0	12,659.5	46.4	13.4	54.12	-699.8	450.6	422.2	361.9	60.28	7.005	
13,050.0	12,909.3	12,836.7	12,662.9	46.4	13.5	53.51	-711.0	450.9	425.3	364.9	60.39	7.042	
13,075.0	12,919.6	12,850.0	12,666.5	46.5	13.5	52.94	-723.8	451.1	428.1	367.6	60.49	7.077	
13,100.0	12,928.7	12,867.9	12,670.7	46.5	13.5	52.39	-741.3	451.5	430.6	370.0	60.58	7.108	
13,125.0	12,936.6	12,883.5	12,673.9	46.6	13.6	51.95	-756.5	451.8	432.7	372.0	60.66	7.133	
13,150.0	12,943.2	12,900.0	12,676.7	46.6	13.6	51.58	-772.8	452.1	434.5	373.7	60.74	7.153	
13,175.0	12,948.6	12,914.6	12,678.7	46.7	13.6	51.30	-787.2	452.3	435.9	375.1	60.82	7.167	
13,200.0	12,952.7	12,930.1	12,680.3	46.7	13.7	51.08	-802.7	452.5	437.0	376.1	60.89	7.177	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #601H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12242-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,225.0	12,955.5	12,950.0	12,681.7	46.8	13.7	50.93	-822.5	452.8	437.8	376.8	60.96	7.182	
13,250.0	12,957.0	12,961.2	12,682.1	46.8	13.7	50.87	-833.6	452.9	438.1	377.1	61.04	7.178	
13,275.0	12,957.2	12,975.0	12,682.2	46.9	13.8	50.87	-847.5	453.0	438.1	377.0	61.11	7.169	
13,284.0	12,957.0	12,982.3	12,682.1	46.9	13.8	50.89	-854.7	453.1	438.1	376.9	61.13	7.165	
13,300.0	12,956.4	12,994.6	12,681.8	46.9	13.8	50.90	-867.0	453.2	438.0	376.8	61.18	7.159	
13,400.0	12,952.7	13,094.6	12,678.6	47.1	14.1	50.95	-967.0	454.0	437.6	376.2	61.43	7.124	
13,500.0	12,949.0	13,194.6	12,675.4	47.3	14.4	51.00	-1,066.9	454.8	437.3	375.6	61.73	7.085	
13,600.0	12,945.3	13,294.6	12,672.2	47.5	14.8	51.06	-1,166.9	455.5	437.0	374.9	62.07	7.040	
13,700.0	12,941.6	13,394.6	12,669.1	47.7	15.2	51.11	-1,266.8	456.3	436.7	374.2	62.46	6.991	
13,800.0	12,937.9	13,494.6	12,665.9	47.9	15.7	51.16	-1,366.8	457.1	436.3	373.4	62.90	6.937	
13,900.0	12,934.2	13,594.6	12,662.7	48.2	16.2	51.22	-1,466.7	457.9	436.0	372.6	63.38	6.879	
14,000.0	12,930.5	13,694.6	12,659.5	48.4	16.7	51.27	-1,566.7	458.7	435.7	371.8	63.90	6.818	
14,100.0	12,926.8	13,794.6	12,656.4	48.7	17.2	51.32	-1,666.6	459.4	435.4	370.9	64.46	6.754	
14,200.0	12,923.1	13,894.6	12,653.2	48.9	17.8	51.38	-1,766.5	460.2	435.0	370.0	65.06	6.686	
14,300.0	12,919.4	13,994.6	12,650.0	49.2	18.4	51.43	-1,866.5	461.0	434.7	369.0	65.71	6.616	
14,400.0	12,915.7	14,094.6	12,646.8	49.5	19.0	51.49	-1,966.4	461.8	434.4	368.0	66.38	6.543	
14,500.0	12,912.0	14,194.6	12,643.6	49.9	19.7	51.54	-2,066.4	462.6	434.1	367.0	67.10	6.469	
14,600.0	12,908.3	14,294.6	12,640.5	50.2	20.3	51.59	-2,166.3	463.4	433.7	365.9	67.84	6.393	
14,700.0	12,904.6	14,394.6	12,637.3	50.5	21.0	51.65	-2,266.3	464.1	433.4	364.8	68.63	6.316	
14,800.0	12,900.9	14,494.6	12,634.1	50.9	21.7	51.70	-2,366.2	464.9	433.1	363.7	69.44	6.237	
14,900.0	12,897.2	14,594.6	12,630.9	51.2	22.4	51.76	-2,466.2	465.7	432.8	362.5	70.28	6.158	
15,000.0	12,893.5	14,694.6	12,627.7	51.6	23.1	51.81	-2,566.1	466.5	432.4	361.3	71.15	6.078	
15,100.0	12,889.8	14,794.6	12,624.6	52.0	23.8	51.87	-2,666.0	467.3	432.1	360.1	72.05	5.997	
15,200.0	12,886.1	14,894.6	12,621.4	52.4	24.5	51.92	-2,766.0	468.0	431.8	358.8	72.98	5.917	
15,300.0	12,882.4	14,994.5	12,618.2	52.8	25.2	51.98	-2,865.9	468.8	431.5	357.6	73.93	5.836	
15,400.0	12,878.7	15,094.5	12,615.0	53.2	26.0	52.03	-2,965.9	469.6	431.2	356.3	74.91	5.756	
15,500.0	12,875.0	15,194.5	12,611.9	53.6	26.7	52.09	-3,065.8	470.4	430.8	354.9	75.91	5.676	
15,600.0	12,871.3	15,294.5	12,608.7	54.1	27.5	52.14	-3,165.8	471.2	430.5	353.6	76.94	5.596	
15,700.0	12,867.6	15,394.5	12,605.5	54.5	28.2	52.20	-3,265.7	471.9	430.2	352.2	77.98	5.517	
15,800.0	12,863.9	15,494.5	12,602.3	55.0	29.0	52.25	-3,365.7	472.7	429.9	350.8	79.05	5.438	
15,900.0	12,860.2	15,594.5	12,599.1	55.5	29.8	52.31	-3,465.6	473.5	429.6	349.4	80.14	5.360	
16,000.0	12,856.5	15,694.5	12,596.0	55.9	30.6	52.36	-3,565.6	474.3	429.3	348.0	81.24	5.284	
16,100.0	12,852.8	15,794.5	12,592.8	56.4	31.3	52.42	-3,665.5	475.1	428.9	346.6	82.37	5.208	
16,200.0	12,849.1	15,894.5	12,589.6	56.9	32.1	52.47	-3,765.4	475.8	428.6	345.1	83.51	5.132	
16,300.0	12,845.4	15,994.5	12,586.4	57.4	32.9	52.53	-3,865.4	476.6	428.3	343.6	84.67	5.058	
16,400.0	12,841.7	16,094.5	12,583.2	57.9	33.7	52.58	-3,965.3	477.4	428.0	342.1	85.85	4.985	
16,500.0	12,838.0	16,194.5	12,580.1	58.4	34.5	52.64	-4,065.3	478.2	427.7	340.6	87.04	4.914	
16,600.0	12,834.3	16,294.5	12,576.9	59.0	35.3	52.69	-4,165.2	479.0	427.4	339.1	88.25	4.843	
16,700.0	12,830.6	16,394.5	12,573.7	59.5	36.1	52.75	-4,265.2	479.8	427.0	337.6	89.47	4.773	
16,800.0	12,826.9	16,494.5	12,570.5	60.0	36.9	52.81	-4,365.1	480.5	426.7	336.0	90.70	4.705	
16,900.0	12,823.2	16,594.5	12,567.4	60.6	37.7	52.86	-4,465.1	481.3	426.4	334.5	91.95	4.637	
17,000.0	12,819.5	16,694.5	12,564.2	61.1	38.5	52.92	-4,565.0	482.1	426.1	332.9	93.21	4.571	
17,100.0	12,815.8	16,794.5	12,561.0	61.7	39.3	52.97	-4,664.9	482.9	425.8	331.3	94.49	4.506	
17,200.0	12,812.1	16,894.5	12,557.8	62.3	40.1	53.03	-4,764.9	483.7	425.5	329.7	95.78	4.442	
17,300.0	12,808.4	16,994.5	12,554.6	62.8	40.9	53.09	-4,864.8	484.4	425.2	328.1	97.07	4.380	
17,400.0	12,804.7	17,094.5	12,551.5	63.4	41.8	53.14	-4,964.8	485.2	424.9	326.5	98.38	4.318	
17,500.0	12,801.0	17,194.5	12,548.3	64.0	42.6	53.20	-5,064.7	486.0	424.5	324.8	99.70	4.258	
17,600.0	12,797.3	17,294.5	12,545.1	64.6	43.4	53.26	-5,164.7	486.8	424.2	323.2	101.03	4.199	
17,700.0	12,793.6	17,394.5	12,541.9	65.2	44.2	53.31	-5,264.6	487.6	423.9	321.6	102.37	4.141	
17,800.0	12,789.9	17,494.5	12,538.7	65.8	45.0	53.37	-5,364.6	488.3	423.6	319.9	103.72	4.084	
17,900.0	12,786.2	17,594.5	12,535.6	66.4	45.9	53.43	-5,464.5	489.1	423.3	318.2	105.08	4.029	
18,000.0	12,782.5	17,694.5	12,532.4	67.0	46.7	53.48	-5,564.5	489.9	423.0	316.6	106.44	3.974	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #601H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12242-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
18,100.0	12,778.8	17,794.5	12,529.2	67.7	47.5	53.54	-5,664.4	490.7	422.7	314.9	107.82	3.920	
18,200.0	12,775.1	17,894.5	12,526.0	68.3	48.3	53.60	-5,764.3	491.5	422.4	313.2	109.20	3.868	
18,300.0	12,771.4	17,994.5	12,522.9	68.9	49.2	53.66	-5,864.3	492.2	422.1	311.5	110.60	3.816	
18,400.0	12,767.7	18,094.5	12,519.7	69.6	50.0	53.71	-5,964.2	493.0	421.8	309.8	112.00	3.766	
18,500.0	12,764.0	18,194.5	12,516.5	70.2	50.8	53.77	-6,064.2	493.8	421.5	308.1	113.40	3.716	
18,600.0	12,760.3	18,294.5	12,513.3	70.8	51.6	53.83	-6,164.1	494.6	421.1	306.3	114.82	3.668	
18,700.0	12,756.6	18,394.5	12,510.1	71.5	52.5	53.89	-6,264.1	495.4	420.8	304.6	116.24	3.621	
18,800.0	12,752.9	18,494.5	12,507.0	72.1	53.3	53.94	-6,364.0	496.2	420.5	302.9	117.67	3.574	
18,900.0	12,749.2	18,594.5	12,503.8	72.8	54.1	54.00	-6,464.0	496.9	420.2	301.1	119.10	3.528	
19,000.0	12,745.5	18,694.5	12,500.6	73.5	55.0	54.06	-6,563.9	497.7	419.9	299.4	120.54	3.484	
19,100.0	12,741.8	18,794.5	12,497.4	74.1	55.8	54.12	-6,663.8	498.5	419.6	297.6	121.99	3.440	
19,200.0	12,738.1	18,894.5	12,494.2	74.8	56.6	54.17	-6,763.8	499.3	419.3	295.9	123.44	3.397	
19,300.0	12,734.4	18,994.5	12,491.1	75.5	57.5	54.23	-6,863.7	500.1	419.0	294.1	124.90	3.355	
19,400.0	12,730.7	19,094.5	12,487.9	76.1	58.3	54.29	-6,963.7	500.8	418.7	292.3	126.36	3.314	
19,500.0	12,727.0	19,194.5	12,484.7	76.8	59.1	54.35	-7,063.6	501.6	418.4	290.6	127.83	3.273	
19,600.0	12,723.3	19,294.5	12,481.5	77.5	60.0	54.41	-7,163.6	502.4	418.1	288.8	129.31	3.233	
19,700.0	12,719.6	19,394.5	12,478.4	78.2	60.8	54.47	-7,263.5	503.2	417.8	287.0	130.79	3.195	
19,800.0	12,715.9	19,494.5	12,475.2	78.9	61.7	54.52	-7,363.5	504.0	417.5	285.2	132.27	3.156	
19,900.0	12,712.2	19,594.5	12,472.0	79.6	62.5	54.58	-7,463.4	504.7	417.2	283.4	133.76	3.119	
20,000.0	12,708.5	19,694.5	12,468.8	80.3	63.3	54.64	-7,563.4	505.5	416.9	281.6	135.25	3.082	
20,100.0	12,704.8	19,794.5	12,465.6	81.0	64.2	54.70	-7,663.3	506.3	416.6	279.9	136.75	3.046	
20,200.0	12,701.1	19,894.5	12,462.5	81.7	65.0	54.76	-7,763.2	507.1	416.3	278.0	138.26	3.011	
20,300.0	12,697.4	19,994.5	12,459.3	82.4	65.9	54.82	-7,863.2	507.9	416.0	276.2	139.76	2.977	
20,400.0	12,693.7	20,094.5	12,456.1	83.1	66.7	54.88	-7,963.1	508.6	415.7	274.4	141.27	2.943	
20,500.0	12,690.0	20,194.5	12,452.9	83.8	67.5	54.94	-8,063.1	509.4	415.4	272.6	142.79	2.909	
20,553.0	12,688.0	20,247.5	12,451.2	84.2	68.0	54.97	-8,116.1	509.8	415.2	271.7	143.59	2.892	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #602H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	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	0.9	0.9	3.0	3.0	-90.45	-0.7	-90.1	90.1				
100.0	100.0	100.9	100.9	3.0	3.0	-90.45	-0.7	-90.1	90.1	84.1	6.01	15.004	
200.0	200.0	200.9	200.9	3.0	3.0	-90.45	-0.7	-90.1	90.1	84.0	6.08	14.824	
300.0	300.0	300.9	300.9	3.1	3.1	-90.45	-0.7	-90.1	90.1	83.9	6.23	14.456	
400.0	400.0	400.9	400.9	3.2	3.2	-90.45	-0.7	-90.1	90.1	83.6	6.46	13.939	
500.0	500.0	500.9	500.9	3.4	3.4	-90.45	-0.7	-90.1	90.1	83.3	6.76	13.322	
600.0	600.0	600.9	600.9	3.6	3.6	-90.45	-0.7	-90.1	90.1	83.0	7.12	12.650	
700.0	700.0	700.9	700.9	3.8	3.8	-90.45	-0.7	-90.1	90.1	82.6	7.53	11.960	
800.0	800.0	800.9	800.9	4.0	4.0	-90.45	-0.7	-90.1	90.1	82.1	7.99	11.280	
900.0	900.0	900.9	900.9	4.2	4.2	-90.45	-0.7	-90.1	90.1	81.6	8.48	10.628	
1,000.0	1,000.0	1,000.9	1,000.9	4.5	4.5	-90.45	-0.7	-90.1	90.1	81.1	9.00	10.013	
1,100.0	1,100.0	1,100.9	1,100.9	4.8	4.8	-90.45	-0.7	-90.1	90.1	80.6	9.55	9.440	
1,200.0	1,200.0	1,200.9	1,200.9	5.1	5.1	-90.45	-0.7	-90.1	90.1	80.0	10.11	8.910	
1,300.0	1,300.0	1,300.9	1,300.9	5.3	5.4	-90.45	-0.7	-90.1	90.1	79.4	10.70	8.422	
1,400.0	1,400.0	1,400.9	1,400.9	5.6	5.7	-90.45	-0.7	-90.1	90.1	78.8	11.30	7.974	
1,500.0	1,500.0	1,500.9	1,500.9	6.0	6.0	-90.45	-0.7	-90.1	90.1	78.2	11.91	7.564	
1,600.0	1,600.0	1,600.9	1,600.9	6.3	6.3	-90.45	-0.7	-90.1	90.1	77.6	12.54	7.187	
1,700.0	1,700.0	1,700.9	1,700.9	6.6	6.6	-90.45	-0.7	-90.1	90.1	76.9	13.17	6.841	
1,800.0	1,800.0	1,800.9	1,800.9	6.9	6.9	-90.45	-0.7	-90.1	90.1	76.3	13.81	6.523	
1,900.0	1,900.0	1,900.9	1,900.9	7.2	7.2	-90.45	-0.7	-90.1	90.1	75.6	14.46	6.230	
2,000.0	2,000.0	2,000.9	2,000.9	7.6	7.6	-90.45	-0.7	-90.1	90.1	75.0	15.12	5.960	
2,100.0	2,100.0	2,100.9	2,100.9	7.9	7.9	-90.45	-0.7	-90.1	90.1	74.3	15.78	5.711	
2,200.0	2,200.0	2,200.9	2,200.9	8.2	8.2	-90.45	-0.7	-90.1	90.1	73.7	16.44	5.479	
2,300.0	2,300.0	2,300.9	2,300.9	8.6	8.6	-90.45	-0.7	-90.1	90.1	73.0	17.11	5.265	
2,400.0	2,400.0	2,400.9	2,400.9	8.9	8.9	-90.45	-0.7	-90.1	90.1	72.3	17.79	5.066	
2,416.4	2,416.4	2,417.3	2,417.3	8.9	8.9	-90.45	-0.7	-90.1	90.1	72.2	17.90	5.035 CC	
2,500.0	2,500.0	2,500.0	2,500.0	9.2	9.2	-90.45	-0.7	-90.1	90.1	71.6	18.46	4.881 ES, SF	
2,600.0	2,600.0	2,598.0	2,598.0	9.6	9.6	153.84	-1.4	-91.6	93.2	74.1	19.10	4.882	
2,700.0	2,699.8	2,694.6	2,694.4	9.9	9.9	153.86	-3.5	-96.1	102.6	82.9	19.70	5.207	
2,741.8	2,741.5	2,734.6	2,734.4	10.0	10.0	153.87	-4.8	-98.8	108.3	88.4	19.95	5.429	
2,800.0	2,799.5	2,791.8	2,791.3	10.2	10.2	153.91	-6.8	-103.2	117.2	96.9	20.31	5.769	
2,900.0	2,899.1	2,890.6	2,889.8	10.5	10.5	153.97	-10.4	-110.9	132.5	111.5	20.95	6.324	
3,000.0	2,998.8	2,989.4	2,988.2	10.8	10.8	154.02	-13.9	-118.5	147.8	126.2	21.59	6.844	
3,100.0	3,098.4	3,088.3	3,086.7	11.2	11.1	154.05	-17.5	-126.2	163.1	140.8	22.24	7.333	
3,200.0	3,198.1	3,187.1	3,185.2	11.5	11.5	154.08	-21.0	-133.8	178.4	155.5	22.89	7.792	
3,300.0	3,297.7	3,285.9	3,283.6	11.8	11.8	154.11	-24.6	-141.5	193.7	170.1	23.54	8.225	
3,400.0	3,397.4	3,384.7	3,382.1	12.2	12.1	154.13	-28.2	-149.1	209.0	184.7	24.20	8.633	
3,500.0	3,497.0	3,483.5	3,480.6	12.5	12.5	154.15	-31.7	-156.8	224.2	199.4	24.87	9.018	
3,600.0	3,596.7	3,582.4	3,579.0	12.9	12.8	154.17	-35.3	-164.4	239.5	214.0	25.53	9.382	
3,700.0	3,696.3	3,681.2	3,677.5	13.2	13.1	154.18	-38.8	-172.1	254.8	228.6	26.20	9.726	
3,800.0	3,795.9	3,780.0	3,775.9	13.5	13.5	154.19	-42.4	-179.8	270.1	243.3	26.87	10.052	
3,900.0	3,895.6	3,878.8	3,874.4	13.9	13.8	154.21	-46.0	-187.4	285.4	257.9	27.55	10.361	
4,000.0	3,895.2	3,877.7	3,872.9	14.2	14.1	154.22	-49.5	-195.1	300.7	272.5	28.22	10.655	
4,100.0	4,094.9	4,076.5	4,071.3	14.6	14.5	154.23	-53.1	-202.7	316.0	287.1	28.90	10.934	
4,200.0	4,194.5	4,175.3	4,169.8	14.9	14.8	154.23	-56.6	-210.4	331.3	301.7	29.58	11.199	
4,300.0	4,294.2	4,274.1	4,268.2	15.3	15.2	154.24	-60.2	-218.0	346.6	316.3	30.27	11.452	
4,400.0	4,393.8	4,373.0	4,366.7	15.6	15.5	154.25	-63.8	-225.7	361.9	331.0	30.95	11.693	
4,500.0	4,493.5	4,471.8	4,465.2	15.9	15.9	154.26	-67.3	-233.3	377.2	345.6	31.64	11.923	
4,600.0	4,593.1	4,570.6	4,563.6	16.3	16.2	154.26	-70.9	-241.0	392.5	360.2	32.33	12.142	
4,700.0	4,692.7	4,669.4	4,662.1	16.6	16.5	154.27	-74.4	-248.6	407.8	374.8	33.01	12.352	
4,800.0	4,792.4	4,768.3	4,760.6	17.0	16.9	154.27	-78.0	-256.3	423.1	389.4	33.71	12.553	
4,900.0	4,892.0	4,867.1	4,859.0	17.3	17.2	154.28	-81.6	-263.9	438.4	404.0	34.40	12.745	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #602H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,991.7	4,965.9	4,957.5	17.7	17.6	154.28	-85.1	-271.6	453.7	418.6	35.09	12.929	
5,100.0	5,091.3	5,064.7	5,055.9	18.0	17.9	154.29	-88.7	-279.3	469.0	433.2	35.78	13.106	
5,200.0	5,191.0	5,163.5	5,154.4	18.4	18.3	154.29	-92.2	-286.9	484.3	447.8	36.48	13.275	
5,300.0	5,290.6	5,262.4	5,252.9	18.7	18.6	154.29	-95.8	-294.6	499.6	462.4	37.18	13.438	
5,400.0	5,390.2	5,361.2	5,351.3	19.1	19.0	154.30	-99.4	-302.2	514.9	477.0	37.87	13.594	
5,500.0	5,489.9	5,460.0	5,449.8	19.5	19.3	154.30	-102.9	-309.9	530.2	491.6	38.57	13.745	
5,600.0	5,589.5	5,558.8	5,548.3	19.8	19.7	154.30	-106.5	-317.5	545.5	506.2	39.27	13.889	
5,700.0	5,689.2	5,657.7	5,646.7	20.2	20.0	154.31	-110.0	-325.2	560.7	520.8	39.97	14.029	
5,800.0	5,788.8	5,756.5	5,745.2	20.5	20.4	154.31	-113.6	-332.8	576.0	535.4	40.67	14.163	
5,900.0	5,888.5	5,855.3	5,843.6	20.9	20.7	154.31	-117.2	-340.5	591.3	550.0	41.37	14.293	
6,000.0	5,988.1	5,954.1	5,942.1	21.2	21.1	154.31	-120.7	-348.1	606.6	564.6	42.08	14.418	
6,100.0	6,087.8	6,053.0	6,040.6	21.6	21.4	154.32	-124.3	-355.8	621.9	579.2	42.78	14.538	
6,200.0	6,187.4	6,151.8	6,139.0	21.9	21.8	154.32	-127.8	-363.4	637.2	593.7	43.48	14.655	
6,300.0	6,287.0	6,250.6	6,237.5	22.3	22.1	154.32	-131.4	-371.1	652.5	608.3	44.19	14.768	
6,400.0	6,386.7	6,349.4	6,336.0	22.7	22.5	154.32	-135.0	-378.8	667.8	622.9	44.89	14.876	
6,500.0	6,486.3	6,448.2	6,434.4	23.0	22.8	154.32	-138.5	-386.4	683.1	637.5	45.60	14.982	
6,600.0	6,586.0	6,547.1	6,532.9	23.4	23.2	154.33	-142.1	-394.1	698.4	652.1	46.30	15.084	
6,700.0	6,685.6	6,645.9	6,631.3	23.7	23.5	154.33	-145.6	-401.7	713.7	666.7	47.01	15.182	
6,800.0	6,785.3	6,744.7	6,729.8	24.1	23.9	154.33	-149.2	-409.4	729.0	681.3	47.72	15.278	
6,900.0	6,884.9	6,843.5	6,828.3	24.4	24.2	154.33	-152.8	-417.0	744.3	695.9	48.42	15.371	
7,000.0	6,984.6	6,942.4	6,926.7	24.8	24.6	154.33	-156.3	-424.7	759.6	710.5	49.13	15.461	
7,100.0	7,084.2	7,041.2	7,025.2	25.2	25.0	154.33	-159.9	-432.3	774.9	725.0	49.84	15.548	
7,200.0	7,183.8	7,140.0	7,123.6	25.5	25.3	154.34	-163.4	-440.0	790.2	739.6	50.55	15.632	
7,300.0	7,283.5	7,238.8	7,222.1	25.9	25.7	154.34	-167.0	-447.6	805.5	754.2	51.26	15.715	
7,400.0	7,383.1	7,337.7	7,320.6	26.2	26.0	154.34	-170.6	-455.3	820.8	768.8	51.97	15.794	
7,500.0	7,482.8	7,436.5	7,419.0	26.6	26.4	154.34	-174.1	-462.9	836.1	783.4	52.68	15.872	
7,600.0	7,582.4	7,535.3	7,517.5	26.9	26.7	154.34	-177.7	-470.6	851.4	798.0	53.39	15.947	
7,700.0	7,682.1	7,634.1	7,616.0	27.3	27.1	154.34	-181.2	-478.3	866.7	812.6	54.10	16.020	
7,800.0	7,781.7	7,732.9	7,714.4	27.7	27.4	154.34	-184.8	-485.9	882.0	827.1	54.81	16.092	
7,900.0	7,881.3	7,831.8	7,812.9	28.0	27.8	154.34	-188.4	-493.6	897.3	841.7	55.52	16.161	
8,000.0	7,981.0	7,930.6	7,911.3	28.4	28.2	154.35	-191.9	-501.2	912.5	856.3	56.23	16.229	
8,100.0	8,080.6	8,029.4	8,009.8	28.7	28.5	154.35	-195.5	-508.9	927.8	870.9	56.94	16.294	
8,200.0	8,180.3	8,128.2	8,108.3	29.1	28.9	154.35	-199.0	-516.5	943.1	885.5	57.66	16.358	
8,300.0	8,279.9	8,227.1	8,206.7	29.5	29.2	154.35	-202.6	-524.2	958.4	900.1	58.37	16.421	
8,400.0	8,379.6	8,325.9	8,305.2	29.8	29.6	154.35	-206.2	-531.8	973.7	914.7	59.08	16.481	
8,500.0	8,479.2	8,424.7	8,403.7	30.2	29.9	154.35	-209.7	-539.5	989.0	929.2	59.79	16.541	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.57	-0.6	-60.1	60.1				
100.0	100.0	99.8	99.8	3.0	3.0	-90.57	-0.6	-60.1	60.1	54.1	6.01	10.008	
200.0	200.0	199.8	199.8	3.0	3.0	-90.57	-0.6	-60.1	60.1	54.0	6.08	9.890	
300.0	300.0	299.8	299.8	3.1	3.1	-90.57	-0.6	-60.1	60.1	53.9	6.23	9.644	
400.0	400.0	399.8	399.8	3.2	3.2	-90.57	-0.6	-60.1	60.1	53.6	6.46	9.300	
500.0	500.0	499.8	499.8	3.4	3.4	-90.57	-0.6	-60.1	60.1	53.3	6.76	8.889	
600.0	600.0	599.8	599.8	3.6	3.6	-90.57	-0.6	-60.1	60.1	53.0	7.12	8.440	
700.0	700.0	699.8	699.8	3.8	3.8	-90.57	-0.6	-60.1	60.1	52.6	7.53	7.980	
800.0	800.0	799.8	799.8	4.0	4.0	-90.57	-0.6	-60.1	60.1	52.1	7.99	7.527	
900.0	900.0	899.8	899.8	4.2	4.2	-90.57	-0.6	-60.1	60.1	51.6	8.48	7.092	
1,000.0	1,000.0	999.8	999.8	4.5	4.5	-90.57	-0.6	-60.1	60.1	51.1	9.00	6.681	
1,100.0	1,100.0	1,099.8	1,099.8	4.8	4.8	-90.57	-0.6	-60.1	60.1	50.6	9.54	6.299	
1,200.0	1,200.0	1,199.8	1,199.8	5.1	5.1	-90.57	-0.6	-60.1	60.1	50.0	10.11	5.945	
1,300.0	1,300.0	1,299.8	1,299.8	5.3	5.3	-90.57	-0.6	-60.1	60.1	49.4	10.70	5.620	
1,400.0	1,400.0	1,399.8	1,399.8	5.6	5.6	-90.57	-0.6	-60.1	60.1	48.8	11.30	5.321	
1,500.0	1,500.0	1,499.8	1,499.8	6.0	6.0	-90.57	-0.6	-60.1	60.1	48.2	11.91	5.047	
1,600.0	1,600.0	1,599.8	1,599.8	6.3	6.3	-90.57	-0.6	-60.1	60.1	47.6	12.53	4.795	
1,700.0	1,700.0	1,699.8	1,699.8	6.6	6.6	-90.57	-0.6	-60.1	60.1	46.9	13.17	4.564	
1,800.0	1,800.0	1,799.8	1,799.8	6.9	6.9	-90.57	-0.6	-60.1	60.1	46.3	13.81	4.352	
1,900.0	1,900.0	1,899.8	1,899.8	7.2	7.2	-90.57	-0.6	-60.1	60.1	45.6	14.46	4.157	
2,000.0	2,000.0	1,999.8	1,999.8	7.6	7.6	-90.57	-0.6	-60.1	60.1	45.0	15.11	3.977	
2,100.0	2,100.0	2,099.8	2,099.8	7.9	7.9	-90.57	-0.6	-60.1	60.1	44.3	15.77	3.810	
2,200.0	2,200.0	2,199.8	2,199.8	8.2	8.2	-90.57	-0.6	-60.1	60.1	43.7	16.44	3.656	
2,300.0	2,300.0	2,299.8	2,299.8	8.6	8.6	-90.57	-0.6	-60.1	60.1	43.0	17.11	3.513	
2,400.0	2,400.0	2,399.8	2,399.8	8.9	8.9	-90.57	-0.6	-60.1	60.1	42.3	17.78	3.380	
2,500.0	2,500.0	2,499.8	2,499.8	9.2	9.2	-90.57	-0.6	-60.1	60.1	41.6	18.46	3.256 CC, ES	
2,600.0	2,600.0	2,599.8	2,599.8	9.6	9.6	154.41	-0.6	-60.1	61.7	42.5	19.13	3.225 SF	
2,700.0	2,699.8	2,699.6	2,699.6	9.9	9.9	156.32	-0.6	-60.1	66.4	46.6	19.78	3.358	
2,741.8	2,741.5	2,741.3	2,741.3	10.0	10.1	157.37	-0.6	-60.1	69.4	49.3	20.06	3.459	
2,800.0	2,799.5	2,799.3	2,799.3	10.2	10.3	158.83	-0.6	-60.1	73.9	53.5	20.44	3.617	
2,900.0	2,899.1	2,898.9	2,898.9	10.5	10.6	160.96	-0.6	-60.1	81.9	60.8	21.11	3.879	
3,000.0	2,998.8	2,998.6	2,998.6	10.8	10.9	162.71	-0.6	-60.1	89.9	68.1	21.77	4.128	
3,100.0	3,098.4	3,098.2	3,098.2	11.2	11.3	164.18	-0.6	-60.1	98.0	75.5	22.45	4.365	
3,200.0	3,198.1	3,197.9	3,197.9	11.5	11.6	165.42	-0.6	-60.1	106.1	83.0	23.12	4.590	
3,300.0	3,297.7	3,297.5	3,297.5	11.8	12.0	166.48	-0.6	-60.1	114.3	90.5	23.79	4.803	
3,400.0	3,397.4	3,397.2	3,397.2	12.2	12.3	167.40	-0.6	-60.1	122.5	98.0	24.47	5.006	
3,500.0	3,497.0	3,496.8	3,496.8	12.5	12.7	168.21	-0.6	-60.1	130.7	105.6	25.15	5.198	
3,600.0	3,596.7	3,596.5	3,596.5	12.9	13.0	168.92	-0.6	-60.1	139.0	113.2	25.84	5.381	
3,700.0	3,696.3	3,696.1	3,696.1	13.2	13.4	169.55	-0.6	-60.1	147.3	120.8	26.52	5.554	
3,800.0	3,795.9	3,795.7	3,795.7	13.5	13.7	170.11	-0.6	-60.1	155.6	128.4	27.21	5.719	
3,900.0	3,895.6	3,895.4	3,895.4	13.9	14.1	170.62	-0.6	-60.1	163.9	136.0	27.90	5.876	
4,000.0	3,995.2	3,995.0	3,995.0	14.2	14.4	171.08	-0.6	-60.1	172.2	143.6	28.59	6.025	
4,100.0	4,094.9	4,094.7	4,094.7	14.6	14.8	171.49	-0.6	-60.1	180.6	151.3	29.28	6.168	
4,200.0	4,194.5	4,194.3	4,194.3	14.9	15.1	171.87	-0.6	-60.1	188.9	158.9	29.97	6.304	
4,300.0	4,294.2	4,294.0	4,294.0	15.3	15.5	172.22	-0.6	-60.1	197.3	166.6	30.66	6.433	
4,400.0	4,393.8	4,393.6	4,393.6	15.6	15.8	172.53	-0.6	-60.1	205.6	174.3	31.36	6.557	
4,500.0	4,493.5	4,493.3	4,493.3	15.9	16.2	172.83	-0.6	-60.1	214.0	181.9	32.05	6.676	
4,600.0	4,593.1	4,592.9	4,592.9	16.3	16.5	173.10	-0.6	-60.1	222.4	189.6	32.75	6.789	
4,700.0	4,692.7	4,692.5	4,692.5	16.6	16.9	173.35	-0.6	-60.1	230.7	197.3	33.45	6.898	
4,800.0	4,792.4	4,792.2	4,792.2	17.0	17.2	173.58	-0.6	-60.1	239.1	205.0	34.15	7.002	
4,900.0	4,892.0	4,891.8	4,891.8	17.3	17.6	173.80	-0.6	-60.1	247.5	212.6	34.85	7.102	
5,000.0	4,991.7	4,991.5	4,991.5	17.7	17.9	174.01	-0.6	-60.1	255.9	220.3	35.55	7.198	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,091.3	5,091.1	5,091.1	18.0	18.3	174.20	-0.6	-60.1	264.3	228.0	36.25	7.290	
5,200.0	5,191.0	5,190.8	5,190.8	18.4	18.6	174.38	-0.6	-60.1	272.6	235.7	36.95	7.378	
5,300.0	5,290.6	5,290.4	5,290.4	18.7	19.0	174.54	-0.6	-60.1	281.0	243.4	37.66	7.463	
5,400.0	5,390.2	5,390.0	5,390.0	19.1	19.3	174.70	-0.6	-60.1	289.4	251.1	38.36	7.545	
5,500.0	5,489.9	5,489.7	5,489.7	19.5	19.7	174.85	-0.6	-60.1	297.8	258.8	39.06	7.624	
5,600.0	5,589.5	5,589.3	5,589.3	19.8	20.0	174.99	-0.6	-60.1	306.2	266.5	39.77	7.700	
5,700.0	5,689.2	5,689.0	5,689.0	20.2	20.4	175.13	-0.6	-60.1	314.6	274.2	40.47	7.774	
5,800.0	5,788.8	5,788.6	5,788.6	20.5	20.7	175.26	-0.6	-60.1	323.0	281.8	41.18	7.845	
5,900.0	5,888.5	5,888.3	5,888.3	20.9	21.1	175.38	-0.6	-60.1	331.4	289.5	41.88	7.913	
6,000.0	5,988.1	5,987.9	5,987.9	21.2	21.4	175.49	-0.6	-60.1	339.8	297.2	42.59	7.979	
6,100.0	6,087.8	6,087.6	6,087.6	21.6	21.8	175.60	-0.6	-60.1	348.2	304.9	43.30	8.043	
6,200.0	6,187.4	6,187.2	6,187.2	21.9	22.2	175.70	-0.6	-60.1	356.6	312.6	44.01	8.105	
6,300.0	6,287.0	6,286.8	6,286.8	22.3	22.5	175.80	-0.6	-60.1	365.1	320.3	44.71	8.164	
6,400.0	6,386.7	6,386.5	6,386.5	22.7	22.9	175.90	-0.6	-60.1	373.5	328.0	45.42	8.222	
6,500.0	6,486.3	6,486.1	6,486.1	23.0	23.2	175.99	-0.6	-60.1	381.9	335.7	46.13	8.278	
6,600.0	6,586.0	6,585.8	6,585.8	23.4	23.6	176.07	-0.6	-60.1	390.3	343.4	46.84	8.332	
6,700.0	6,685.6	6,685.4	6,685.4	23.7	23.9	176.16	-0.6	-60.1	398.7	351.1	47.55	8.385	
6,800.0	6,785.3	6,785.1	6,785.1	24.1	24.3	176.24	-0.6	-60.1	407.1	358.9	48.26	8.436	
6,900.0	6,884.9	6,884.7	6,884.7	24.4	24.6	176.31	-0.6	-60.1	415.5	366.6	48.97	8.486	
7,000.0	6,984.6	6,984.4	6,984.4	24.8	25.0	176.39	-0.6	-60.1	423.9	374.3	49.68	8.534	
7,100.0	7,084.2	7,084.0	7,084.0	25.2	25.3	176.46	-0.6	-60.1	432.4	382.0	50.39	8.580	
7,200.0	7,183.8	7,183.6	7,183.6	25.5	25.7	176.52	-0.6	-60.1	440.8	389.7	51.10	8.626	
7,300.0	7,283.5	7,283.3	7,283.3	25.9	26.0	176.59	-0.6	-60.1	449.2	397.4	51.81	8.670	
7,400.0	7,383.1	7,382.9	7,382.9	26.2	26.4	176.65	-0.6	-60.1	457.6	405.1	52.52	8.713	
7,500.0	7,482.8	7,482.6	7,482.6	26.6	26.8	176.71	-0.6	-60.1	466.0	412.8	53.23	8.754	
7,600.0	7,582.4	7,582.2	7,582.2	26.9	27.1	176.77	-0.6	-60.1	474.4	420.5	53.95	8.795	
7,700.0	7,682.1	7,681.9	7,681.9	27.3	27.5	176.83	-0.6	-60.1	482.9	428.2	54.66	8.834	
7,800.0	7,781.7	7,781.5	7,781.5	27.7	27.8	176.88	-0.6	-60.1	491.3	435.9	55.37	8.873	
7,900.0	7,881.3	7,881.1	7,881.1	28.0	28.2	176.93	-0.6	-60.1	499.7	443.6	56.08	8.910	
8,000.0	7,981.0	7,980.8	7,980.8	28.4	28.5	176.99	-0.6	-60.1	508.1	451.3	56.79	8.946	
8,100.0	8,080.6	8,080.4	8,080.4	28.7	28.9	177.03	-0.6	-60.1	516.5	459.0	57.51	8.982	
8,200.0	8,180.3	8,180.1	8,180.1	29.1	29.2	177.08	-0.6	-60.1	525.0	466.7	58.22	9.017	
8,300.0	8,279.9	8,279.7	8,279.7	29.5	29.6	177.13	-0.6	-60.1	533.4	474.4	58.93	9.050	
8,400.0	8,379.6	8,379.4	8,379.4	29.8	30.0	177.17	-0.6	-60.1	541.8	482.1	59.65	9.083	
8,500.0	8,479.2	8,479.0	8,479.0	30.2	30.3	177.22	-0.6	-60.1	550.2	489.9	60.36	9.115	
8,600.0	8,578.9	8,578.7	8,578.7	30.5	30.7	177.26	-0.6	-60.1	558.6	497.6	61.07	9.147	
8,700.0	8,678.5	8,678.3	8,678.3	30.9	31.0	177.30	-0.6	-60.1	567.1	505.3	61.79	9.177	
8,800.0	8,778.1	8,777.9	8,777.9	31.3	31.4	177.34	-0.6	-60.1	575.5	513.0	62.50	9.207	
8,900.0	8,877.8	8,877.6	8,877.6	31.6	31.7	177.38	-0.6	-60.1	583.9	520.7	63.22	9.237	
9,000.0	8,977.4	8,977.2	8,977.2	32.0	32.1	177.41	-0.6	-60.1	592.3	528.4	63.93	9.265	
9,100.0	9,077.1	9,076.9	9,076.9	32.3	32.4	177.45	-0.6	-60.1	600.7	536.1	64.65	9.293	
9,200.0	9,176.7	9,176.5	9,176.5	32.7	32.8	177.49	-0.6	-60.1	609.2	543.8	65.36	9.320	
9,300.0	9,276.4	9,276.2	9,276.2	33.1	33.2	177.52	-0.6	-60.1	617.6	551.5	66.07	9.347	
9,400.0	9,376.0	9,375.8	9,375.8	33.4	33.5	177.55	-0.6	-60.1	626.0	559.2	66.79	9.373	
9,500.0	9,475.6	9,475.4	9,475.4	33.8	33.9	177.59	-0.6	-60.1	634.4	566.9	67.50	9.399	
9,600.0	9,575.3	9,575.1	9,575.1	34.2	34.2	177.62	-0.6	-60.1	642.9	574.6	68.22	9.424	
9,700.0	9,674.9	9,674.7	9,674.7	34.5	34.6	177.65	-0.6	-60.1	651.3	582.4	68.93	9.448	
9,800.0	9,774.6	9,774.4	9,774.4	34.9	34.9	177.68	-0.6	-60.1	659.7	590.1	69.65	9.472	
9,900.0	9,874.2	9,874.0	9,874.0	35.2	35.3	177.71	-0.6	-60.1	668.1	597.8	70.37	9.495	
10,000.0	9,973.9	9,973.7	9,973.7	35.6	35.6	177.74	-0.6	-60.1	676.6	605.5	71.08	9.518	
10,100.0	10,073.5	10,073.3	10,073.3	36.0	36.0	177.76	-0.6	-60.1	685.0	613.2	71.80	9.541	
10,200.0	10,173.2	10,173.0	10,173.0	36.3	36.4	177.79	-0.6	-60.1	693.4	620.9	72.51	9.563	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,272.8	10,272.6	10,272.6	36.7	36.7	177.82	-0.6	-60.1	701.8	628.6	73.23	9.584	
10,400.0	10,372.4	10,372.2	10,372.2	37.0	37.1	177.84	-0.6	-60.1	710.3	636.3	73.94	9.605	
10,500.0	10,472.1	10,471.9	10,471.9	37.4	37.4	177.87	-0.6	-60.1	718.7	644.0	74.66	9.626	
10,600.0	10,571.7	10,571.5	10,571.5	37.8	37.8	177.89	-0.6	-60.1	727.1	651.7	75.38	9.647	
10,700.0	10,671.4	10,671.2	10,671.2	38.1	38.1	177.92	-0.6	-60.1	735.5	659.4	76.09	9.666	
10,800.0	10,771.0	10,770.8	10,770.8	38.5	38.5	177.94	-0.6	-60.1	744.0	667.2	76.81	9.686	
10,900.0	10,870.7	10,870.5	10,870.5	38.9	38.9	177.96	-0.6	-60.1	752.4	674.9	77.52	9.705	
11,000.0	10,970.3	10,970.1	10,970.1	39.2	39.2	177.99	-0.6	-60.1	760.8	682.6	78.24	9.724	
11,100.0	11,070.0	11,069.8	11,069.8	39.6	39.6	178.01	-0.6	-60.1	769.2	690.3	78.96	9.742	
11,200.0	11,169.6	11,169.4	11,169.4	39.9	39.9	178.03	-0.6	-60.1	777.7	698.0	79.67	9.761	
11,300.0	11,269.2	11,269.0	11,269.0	40.3	40.3	178.05	-0.6	-60.1	786.1	705.7	80.39	9.778	
11,400.0	11,368.9	11,368.7	11,368.7	40.7	40.6	178.07	-0.6	-60.1	794.5	713.4	81.11	9.796	
11,500.0	11,468.5	11,468.3	11,468.3	41.0	41.0	178.09	-0.6	-60.1	802.9	721.1	81.82	9.813	
11,600.0	11,568.2	11,568.0	11,568.0	41.4	41.3	178.11	-0.6	-60.1	811.4	728.8	82.54	9.830	
11,700.0	11,667.8	11,667.6	11,667.6	41.8	41.7	178.13	-0.6	-60.1	819.8	736.5	83.26	9.846	
11,800.0	11,767.5	11,767.3	11,767.3	42.1	42.1	178.15	-0.6	-60.1	828.2	744.3	83.98	9.863	
11,900.0	11,867.1	11,866.9	11,866.9	42.5	42.4	178.17	-0.6	-60.1	836.7	752.0	84.69	9.879	
12,000.0	11,966.7	11,966.5	11,966.5	42.8	42.8	178.19	-0.6	-60.1	845.1	759.7	85.41	9.894	
12,100.0	12,066.4	12,066.2	12,066.2	43.2	43.1	178.21	-0.6	-60.1	853.5	767.4	86.13	9.910	
12,200.0	12,166.0	12,165.8	12,165.8	43.6	43.5	178.22	-0.6	-60.1	861.9	775.1	86.84	9.925	
12,300.0	12,265.7	12,265.5	12,265.5	43.9	43.8	178.24	-0.6	-60.1	870.4	782.8	87.56	9.940	
12,400.0	12,365.3	12,365.1	12,365.1	44.3	44.2	178.26	-0.6	-60.1	878.8	790.5	88.28	9.955	
12,500.0	12,465.0	12,464.8	12,464.8	44.7	44.6	178.27	-0.7	-60.1	887.2	798.2	89.01	9.967	
12,534.2	12,499.0	12,530.4	12,530.2	44.8	44.8	177.97	-5.6	-61.0	889.4	800.1	89.36	9.954	
12,550.0	12,514.8	12,558.9	12,558.2	44.8	44.9	160.93	-10.5	-61.8	890.2	800.7	89.50	9.947	
12,575.0	12,539.6	12,602.9	12,600.8	44.9	45.0	144.92	-21.3	-63.7	891.4	801.7	89.69	9.939	
12,600.0	12,564.2	12,645.8	12,641.2	45.0	45.1	135.93	-35.5	-66.1	892.7	802.8	89.86	9.933	
12,625.0	12,588.7	12,687.5	12,679.0	45.1	45.2	130.17	-52.7	-69.1	894.0	803.9	90.02	9.930	
12,650.0	12,612.8	12,727.8	12,714.1	45.2	45.3	126.03	-72.3	-72.5	895.3	805.2	90.17	9.929	
12,675.0	12,636.5	12,766.7	12,746.1	45.3	45.4	122.79	-93.9	-76.2	896.8	806.5	90.32	9.929	
12,700.0	12,659.9	12,804.1	12,775.3	45.4	45.5	120.11	-117.2	-80.2	898.4	807.9	90.47	9.930	
12,725.0	12,682.7	12,840.2	12,801.5	45.5	45.6	117.78	-141.6	-84.4	900.2	809.6	90.62	9.933	
12,750.0	12,705.0	12,874.9	12,824.9	45.5	45.7	115.70	-166.8	-88.8	902.1	811.4	90.78	9.937	
12,775.0	12,726.7	12,908.3	12,845.6	45.6	45.8	113.78	-192.6	-93.3	904.3	813.4	90.95	9.943	
12,800.0	12,747.7	12,940.4	12,863.7	45.7	45.8	111.99	-218.8	-97.8	906.7	815.5	91.11	9.951	
12,825.0	12,768.0	12,971.4	12,879.4	45.8	45.9	110.29	-245.0	-102.3	909.2	818.0	91.28	9.961	
12,850.0	12,787.5	13,001.3	12,893.0	45.9	45.9	108.66	-271.3	-106.9	912.1	820.6	91.44	9.974	
12,875.0	12,806.2	13,030.2	12,904.4	45.9	46.0	107.09	-297.4	-111.4	915.1	823.5	91.60	9.990	
12,900.0	12,823.9	13,058.1	12,914.0	46.0	46.0	105.57	-323.3	-115.8	918.4	826.6	91.75	10.009	
12,925.0	12,840.8	13,085.2	12,921.8	46.1	46.0	104.09	-348.8	-120.2	921.9	830.0	91.89	10.032	
12,950.0	12,856.6	13,111.4	12,927.9	46.2	46.1	102.65	-374.0	-124.6	925.6	833.6	92.02	10.058	
12,975.0	12,871.4	13,137.0	12,932.5	46.2	46.1	101.23	-398.7	-128.9	929.5	837.4	92.14	10.088	
13,000.0	12,885.1	13,161.8	12,935.7	46.3	46.1	99.84	-423.0	-133.1	933.6	841.4	92.25	10.121	
13,025.0	12,897.8	13,186.1	12,937.5	46.4	46.1	98.48	-446.8	-137.2	937.9	845.6	92.34	10.158	
13,050.0	12,909.3	13,209.8	12,938.2	46.4	46.1	97.15	-470.2	-141.2	942.4	850.0	92.41	10.198	
13,075.0	12,919.6	13,236.7	12,937.6	46.5	46.1	95.74	-496.8	-145.8	947.0	854.5	92.48	10.240	
13,100.0	12,928.7	13,270.5	12,936.7	46.5	46.2	94.27	-530.0	-151.2	951.5	858.9	92.55	10.281	
13,125.0	12,936.6	13,305.1	12,935.7	46.6	46.2	92.93	-564.2	-156.3	955.8	863.2	92.61	10.320	
13,150.0	12,943.2	13,340.5	12,934.7	46.6	46.2	91.73	-599.3	-161.1	959.9	867.2	92.68	10.357	
13,175.0	12,948.6	13,376.5	12,933.7	46.7	46.3	90.70	-635.1	-165.6	963.6	870.9	92.74	10.391	
13,200.0	12,952.7	13,413.2	12,932.7	46.7	46.3	89.83	-671.5	-169.7	967.0	874.2	92.80	10.420	
13,225.0	12,955.5	13,450.3	12,931.6	46.8	46.3	89.14	-708.4	-173.3	970.0	877.1	92.87	10.445	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
13,250.0	12,957.0	13,487.8	12,930.5	46.8	46.4	88.63	-745.8	-176.5	972.6	879.6		92.94	10.465
13,275.0	12,957.2	13,525.5	12,929.5	46.9	46.4	88.30	-783.3	-179.2	974.7	881.7		93.01	10.479
13,284.0	12,957.0	13,539.1	12,929.1	46.9	46.4	88.22	-796.9	-180.1	975.3	882.3		93.04	10.483
13,300.0	12,956.4	13,563.3	12,928.4	46.9	46.4	88.24	-821.1	-181.5	976.4	883.3		93.09	10.488
13,400.0	12,952.7	13,715.1	12,924.1	47.1	46.6	88.33	-972.7	-185.4	979.7	886.3		93.46	10.483
13,500.0	12,949.0	13,822.4	12,921.1	47.3	46.8	88.38	-1,080.0	-184.7	979.8	886.0		93.79	10.447
13,600.0	12,945.3	13,922.4	12,918.3	47.5	46.9	88.44	-1,179.9	-183.9	979.7	885.6		94.13	10.408
13,700.0	12,941.6	14,022.4	12,915.5	47.7	47.1	88.49	-1,279.9	-183.1	979.7	885.2		94.51	10.366
13,800.0	12,937.9	14,122.4	12,912.7	47.9	47.3	88.54	-1,379.8	-182.3	979.7	884.7		94.92	10.321
13,900.0	12,934.2	14,222.4	12,909.9	48.2	47.5	88.59	-1,479.8	-181.5	979.6	884.3		95.35	10.274
14,000.0	12,930.5	14,322.4	12,907.1	48.4	47.7	88.64	-1,579.7	-180.7	979.6	883.8		95.82	10.224
14,100.0	12,926.8	14,422.4	12,904.3	48.7	48.0	88.70	-1,679.7	-179.9	979.6	883.3		96.31	10.171
14,200.0	12,923.1	14,522.4	12,901.5	48.9	48.2	88.75	-1,779.6	-179.1	979.6	882.7		96.83	10.116
14,300.0	12,919.4	14,622.4	12,898.7	49.2	48.5	88.80	-1,879.6	-178.3	979.5	882.2		97.38	10.059
14,400.0	12,915.7	14,722.4	12,895.9	49.5	48.8	88.85	-1,979.6	-177.6	979.5	881.6		97.96	9.999
14,500.0	12,912.0	14,822.4	12,893.0	49.9	49.0	88.90	-2,079.5	-176.8	979.5	880.9		98.56	9.938
14,600.0	12,908.3	14,922.4	12,890.2	50.2	49.3	88.96	-2,179.5	-176.0	979.5	880.3		99.19	9.875
14,700.0	12,904.6	15,022.3	12,887.4	50.5	49.7	89.01	-2,279.4	-175.2	979.4	879.6		99.84	9.810
14,800.0	12,900.9	15,122.3	12,884.6	50.9	50.0	89.06	-2,379.4	-174.4	979.4	878.9		100.52	9.743
14,900.0	12,897.2	15,222.3	12,881.8	51.2	50.3	89.11	-2,479.3	-173.6	979.4	878.2		101.22	9.676
15,000.0	12,893.5	15,322.3	12,879.0	51.6	50.7	89.17	-2,579.3	-172.8	979.4	877.4		101.95	9.606
15,100.0	12,889.8	15,422.3	12,876.2	52.0	51.0	89.22	-2,679.2	-172.0	979.4	876.7		102.70	9.536
15,200.0	12,886.1	15,522.3	12,873.4	52.4	51.4	89.27	-2,779.2	-171.2	979.3	875.9		103.48	9.464
15,300.0	12,882.4	15,622.3	12,870.6	52.8	51.8	89.32	-2,879.1	-170.5	979.3	875.1		104.27	9.392
15,400.0	12,878.7	15,722.3	12,867.8	53.2	52.2	89.37	-2,979.1	-169.7	979.3	874.2		105.09	9.318
15,500.0	12,875.0	15,822.3	12,865.0	53.6	52.6	89.43	-3,079.0	-168.9	979.3	873.4		105.93	9.244
15,600.0	12,871.3	15,922.3	12,862.2	54.1	53.0	89.48	-3,179.0	-168.1	979.3	872.5		106.80	9.170
15,700.0	12,867.6	16,022.3	12,859.3	54.5	53.5	89.53	-3,278.9	-167.3	979.3	871.6		107.68	9.094
15,800.0	12,863.9	16,122.3	12,856.5	55.0	53.9	89.58	-3,378.9	-166.5	979.3	870.7		108.58	9.019
15,900.0	12,860.2	16,222.3	12,853.7	55.5	54.4	89.64	-3,478.9	-165.7	979.2	869.7		109.50	8.943
16,000.0	12,856.5	16,322.3	12,850.9	55.9	54.8	89.69	-3,578.8	-164.9	979.2	868.8		110.44	8.867
16,100.0	12,852.8	16,422.3	12,848.1	56.4	55.3	89.74	-3,678.8	-164.1	979.2	867.8		111.40	8.790
16,200.0	12,849.1	16,522.3	12,845.3	56.9	55.8	89.79	-3,778.7	-163.4	979.2	866.8		112.38	8.714
16,300.0	12,845.4	16,622.3	12,842.5	57.4	56.3	89.84	-3,878.7	-162.6	979.2	865.8		113.37	8.637
16,400.0	12,841.7	16,722.3	12,839.7	57.9	56.8	89.90	-3,978.6	-161.8	979.2	864.8		114.38	8.561
16,500.0	12,838.0	16,822.3	12,836.9	58.4	57.3	89.95	-4,078.6	-161.0	979.2	863.8		115.41	8.484
16,600.0	12,834.3	16,922.3	12,834.1	59.0	57.8	90.00	-4,178.5	-160.2	979.2	862.7		116.46	8.408
16,700.0	12,830.6	17,022.3	12,831.3	59.5	58.3	90.05	-4,278.5	-159.4	979.2	861.7		117.52	8.332
16,800.0	12,826.9	17,122.3	12,828.5	60.0	58.8	90.10	-4,378.4	-158.6	979.2	860.6		118.59	8.256
16,900.0	12,823.2	17,222.3	12,825.6	60.6	59.4	90.16	-4,478.4	-157.8	979.2	859.5		119.69	8.181
17,000.0	12,819.5	17,322.3	12,822.8	61.1	59.9	90.21	-4,578.3	-157.0	979.2	858.4		120.79	8.106
17,100.0	12,815.8	17,422.3	12,820.0	61.7	60.5	90.26	-4,678.3	-156.3	979.2	857.3		121.91	8.032
17,200.0	12,812.1	17,522.2	12,817.2	62.3	61.0	90.31	-4,778.2	-155.5	979.2	856.1		123.04	7.958
17,300.0	12,808.4	17,622.2	12,814.4	62.8	61.6	90.37	-4,878.2	-154.7	979.2	855.0		124.19	7.884
17,324.4	12,807.5	17,646.6	12,813.7	63.0	61.7	90.38	-4,902.5	-154.5	979.2	854.7		124.47	7.866
17,400.0	12,804.7	17,722.2	12,811.6	63.4	62.2	90.42	-4,978.2	-153.9	979.2	853.8		125.35	7.811
17,500.0	12,801.0	17,822.2	12,808.8	64.0	62.7	90.47	-5,078.1	-153.1	979.2	852.6		126.52	7.739
17,600.0	12,797.3	17,922.2	12,806.0	64.6	63.3	90.52	-5,178.1	-152.3	979.2	851.5		127.71	7.667
17,700.0	12,793.6	18,022.2	12,803.2	65.2	63.9	90.57	-5,278.0	-151.5	979.2	850.3		128.91	7.596
17,800.0	12,789.9	18,122.2	12,800.4	65.8	64.5	90.63	-5,378.0	-150.7	979.2	849.1		130.12	7.525
17,900.0	12,786.2	18,222.2	12,797.6	66.4	65.1	90.68	-5,477.9	-149.9	979.2	847.8		131.34	7.456
18,000.0	12,782.5	18,322.2	12,794.8	67.0	65.7	90.73	-5,577.9	-149.2	979.2	846.6		132.57	7.386

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 BANDANA FEDERAL PROJECT - BANDANA FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.0	12,778.8	18,422.2	12,791.9	67.7	66.4	90.78	-5,677.8	-148.4	979.2	845.4	133.81	7.318	
18,200.0	12,775.1	18,522.2	12,789.1	68.3	67.0	90.84	-5,777.8	-147.6	979.2	844.1	135.06	7.250	
18,300.0	12,771.4	18,622.2	12,786.3	68.9	67.6	90.89	-5,877.7	-146.8	979.2	842.9	136.32	7.183	
18,400.0	12,767.7	18,722.2	12,783.5	69.6	68.2	90.94	-5,977.7	-146.0	979.2	841.6	137.59	7.117	
18,500.0	12,764.0	18,822.2	12,780.7	70.2	68.9	90.99	-6,077.6	-145.2	979.2	840.3	138.88	7.051	
18,600.0	12,760.3	18,922.2	12,777.9	70.8	69.5	91.04	-6,177.6	-144.4	979.2	839.1	140.17	6.986	
18,700.0	12,756.6	19,022.2	12,775.1	71.5	70.2	91.10	-6,277.6	-143.6	979.2	837.8	141.47	6.922	
18,800.0	12,752.9	19,122.2	12,772.3	72.1	70.8	91.15	-6,377.5	-142.8	979.2	836.5	142.78	6.859	
18,900.0	12,749.2	19,222.2	12,769.5	72.8	71.5	91.20	-6,477.5	-142.1	979.3	835.2	144.09	6.796	
19,000.0	12,745.5	19,322.2	12,766.7	73.5	72.1	91.25	-6,577.4	-141.3	979.3	833.9	145.42	6.734	
19,100.0	12,741.8	19,422.2	12,763.9	74.1	72.8	91.31	-6,677.4	-140.5	979.3	832.5	146.75	6.673	
19,200.0	12,738.1	19,522.2	12,761.1	74.8	73.4	91.36	-6,777.3	-139.7	979.3	831.2	148.09	6.613	
19,300.0	12,734.4	19,622.2	12,758.2	75.5	74.1	91.41	-6,877.3	-138.9	979.3	829.9	149.44	6.553	
19,400.0	12,730.7	19,722.2	12,755.4	76.1	74.8	91.46	-6,977.2	-138.1	979.3	828.5	150.80	6.494	
19,500.0	12,727.0	19,822.2	12,752.6	76.8	75.5	91.51	-7,077.2	-137.3	979.4	827.2	152.16	6.436	
19,600.0	12,723.3	19,922.2	12,749.8	77.5	76.1	91.57	-7,177.1	-136.5	979.4	825.8	153.54	6.379	
19,700.0	12,719.6	20,022.1	12,747.0	78.2	76.8	91.62	-7,277.1	-135.7	979.4	824.5	154.91	6.322	
19,800.0	12,715.9	20,122.1	12,744.2	78.9	77.5	91.67	-7,377.0	-135.0	979.4	823.1	156.30	6.266	
19,900.0	12,712.2	20,222.1	12,741.4	79.6	78.2	91.72	-7,477.0	-134.2	979.4	821.7	157.69	6.211	
20,000.0	12,708.5	20,322.1	12,738.6	80.3	78.9	91.78	-7,576.9	-133.4	979.5	820.4	159.09	6.157	
20,100.0	12,704.8	20,422.1	12,735.8	81.0	79.6	91.83	-7,676.9	-132.6	979.5	819.0	160.49	6.103	
20,200.0	12,701.1	20,522.1	12,733.0	81.7	80.3	91.88	-7,776.9	-131.8	979.5	817.6	161.90	6.050	
20,300.0	12,697.4	20,622.1	12,730.2	82.4	81.0	91.93	-7,876.8	-131.0	979.5	816.2	163.32	5.998	
20,400.0	12,693.7	20,722.1	12,727.4	83.1	81.7	91.98	-7,976.8	-130.2	979.5	814.8	164.74	5.946	
20,500.0	12,690.0	20,822.1	12,724.5	83.8	82.4	92.04	-8,076.7	-129.4	979.6	813.4	166.17	5.895	
20,553.0	12,688.0	20,875.1	12,723.1	84.2	82.8	92.06	-8,129.7	-129.0	979.6	812.7	166.92	5.868	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12216-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	2.0	2.0	3.0	4.2	-177.81	-533.1	-20.4	533.5				
100.0	100.0	102.0	102.0	3.0	4.2	-177.81	-533.1	-20.4	533.5	526.2	7.25	73.630	
200.0	200.0	202.0	202.0	3.0	4.2	-177.81	-533.1	-20.4	533.5	526.2	7.29	73.229	
300.0	300.0	302.0	302.0	3.1	4.3	-177.81	-533.1	-20.4	533.5	526.1	7.37	72.385	
400.0	400.0	402.0	402.0	3.2	4.3	-177.81	-533.1	-20.4	533.5	526.0	7.50	71.158	
500.0	500.0	502.0	502.0	3.4	4.3	-177.81	-533.1	-20.4	533.5	525.8	7.66	69.623	
600.0	600.0	602.0	602.0	3.6	4.3	-177.81	-533.1	-20.4	533.5	525.6	7.86	67.858	
700.0	700.0	702.0	702.0	3.8	4.3	-177.81	-533.1	-20.4	533.5	525.4	8.09	65.939	
800.0	800.0	802.0	802.0	4.0	4.4	-177.81	-533.1	-20.4	533.5	525.1	8.35	63.928	
900.0	900.0	902.0	902.0	4.2	4.4	-177.81	-533.1	-20.4	533.5	524.9	8.62	61.879	
1,000.0	1,000.0	1,002.0	1,002.0	4.5	4.4	-177.81	-533.1	-20.4	533.5	524.6	8.92	59.829	
1,100.0	1,100.0	1,102.0	1,102.0	4.8	4.5	-177.81	-533.1	-20.4	533.5	524.3	9.23	57.808	
1,200.0	1,200.0	1,202.0	1,202.0	5.1	4.5	-177.81	-533.1	-20.4	533.5	523.9	9.55	55.837	
1,300.0	1,300.0	1,302.0	1,302.0	5.3	4.5	-177.81	-533.1	-20.4	533.5	523.6	9.89	53.927	
1,400.0	1,400.0	1,402.0	1,402.0	5.6	4.6	-177.81	-533.1	-20.4	533.5	523.2	10.24	52.088	
1,500.0	1,500.0	1,502.0	1,502.0	6.0	4.6	-177.81	-533.1	-20.4	533.5	522.9	10.60	50.325	
1,600.0	1,600.0	1,602.0	1,602.0	6.3	4.7	-177.81	-533.1	-20.4	533.5	522.5	10.97	48.638	
1,700.0	1,700.0	1,702.0	1,702.0	6.6	4.8	-177.81	-533.1	-20.4	533.5	522.1	11.34	47.030	
1,800.0	1,800.0	1,802.0	1,802.0	6.9	4.8	-177.81	-533.1	-20.4	533.5	521.8	11.73	45.497	
1,900.0	1,900.0	1,902.0	1,902.0	7.2	4.9	-177.81	-533.1	-20.4	533.5	521.4	12.11	44.038	
2,000.0	2,000.0	2,002.0	2,002.0	7.6	5.0	-177.81	-533.1	-20.4	533.5	521.0	12.51	42.650	
2,100.0	2,100.0	2,102.0	2,102.0	7.9	5.0	-177.81	-533.1	-20.4	533.5	520.6	12.91	41.330	
2,200.0	2,200.0	2,202.0	2,202.0	8.2	5.1	-177.81	-533.1	-20.4	533.5	520.2	13.31	40.075	
2,300.0	2,300.0	2,302.0	2,302.0	8.6	5.2	-177.81	-533.1	-20.4	533.5	519.8	13.72	38.881	
2,400.0	2,400.0	2,402.0	2,402.0	8.9	5.2	-177.81	-533.1	-20.4	533.5	519.4	14.13	37.745	
2,500.0	2,500.0	2,502.0	2,502.0	9.2	5.3	-177.81	-533.1	-20.4	533.5	518.9	14.55	36.664	
2,600.0	2,600.0	2,602.0	2,602.0	9.6	5.4	66.66	-533.1	-20.4	532.8	517.8	14.96	35.617	
2,700.0	2,699.8	2,701.8	2,701.8	9.9	5.5	67.21	-533.1	-20.4	530.7	515.4	15.36	34.555	
2,741.8	2,741.5	2,743.5	2,743.5	10.0	5.5	67.55	-533.1	-20.4	529.5	514.0	15.53	34.100	
2,800.0	2,799.5	2,801.5	2,801.5	10.2	5.6	68.05	-533.1	-20.4	527.6	511.9	15.76	33.472	
2,900.0	2,899.1	2,901.1	2,901.1	10.5	5.7	68.90	-533.1	-20.4	524.5	508.4	16.17	32.436	
3,000.0	2,998.8	3,000.8	3,000.8	10.8	5.7	69.76	-533.1	-20.4	521.6	505.0	16.58	31.451	
3,100.0	3,098.4	3,100.4	3,100.4	11.2	5.8	70.63	-533.1	-20.4	518.7	501.7	17.00	30.514	
3,200.0	3,198.1	3,200.1	3,200.1	11.5	5.9	71.51	-533.1	-20.4	515.9	498.5	17.42	29.625	
3,300.0	3,297.7	3,299.7	3,299.7	11.8	6.0	72.40	-533.1	-20.4	513.3	495.5	17.84	28.780	
3,400.0	3,397.4	3,399.4	3,399.4	12.2	6.1	73.30	-533.1	-20.4	510.8	492.6	18.26	27.978	
3,500.0	3,497.0	3,499.0	3,499.0	12.5	6.2	74.21	-533.1	-20.4	508.5	489.8	18.68	27.216	
3,600.0	3,596.7	3,598.7	3,598.7	12.9	6.3	75.12	-533.1	-20.4	506.2	487.1	19.11	26.492	
3,700.0	3,696.3	3,698.3	3,698.3	13.2	6.4	76.04	-533.1	-20.4	504.1	484.6	19.54	25.805	
3,800.0	3,795.9	3,797.9	3,797.9	13.5	6.5	76.97	-533.1	-20.4	502.1	482.2	19.96	25.152	
3,900.0	3,895.6	3,897.6	3,897.6	13.9	6.6	77.91	-533.1	-20.4	500.3	479.9	20.39	24.533	
4,000.0	3,995.2	3,997.2	3,997.2	14.2	6.7	78.86	-533.1	-20.4	498.6	477.8	20.82	23.944	
4,100.0	4,094.9	4,096.9	4,096.9	14.6	6.8	79.81	-533.1	-20.4	497.0	475.8	21.25	23.386	
4,200.0	4,194.5	4,196.5	4,196.5	14.9	6.9	80.76	-533.1	-20.4	495.6	473.9	21.68	22.856	
4,300.0	4,294.2	4,296.2	4,296.2	15.3	7.0	81.72	-533.1	-20.4	494.3	472.2	22.11	22.353	
4,400.0	4,393.8	4,395.8	4,395.8	15.6	7.1	82.69	-533.1	-20.4	493.2	470.6	22.55	21.875	
4,500.0	4,493.5	4,495.5	4,495.5	15.9	7.2	83.66	-533.1	-20.4	492.2	469.2	22.98	21.422	
4,600.0	4,593.1	4,595.1	4,595.1	16.3	7.3	84.63	-533.1	-20.4	491.3	467.9	23.40	20.992	
4,700.0	4,692.7	4,694.7	4,694.7	16.6	7.4	85.61	-533.1	-20.4	490.6	466.7	23.83	20.584	
4,800.0	4,792.4	4,794.4	4,794.4	17.0	7.5	86.59	-533.1	-20.4	490.0	465.7	24.26	20.196	
4,900.0	4,892.0	4,894.0	4,894.0	17.3	7.7	87.57	-533.1	-20.4	489.6	464.9	24.69	19.829	
5,000.0	4,991.7	4,993.7	4,993.7	17.7	7.8	88.55	-533.1	-20.4	489.3	464.2	25.12	19.481	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #601H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12216-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,091.3	5,093.3	5,093.3	18.0	7.9	89.54	-533.1	-20.4	489.1	463.6	25.54	19.152	
5,146.9	5,138.1	5,140.1	5,140.1	18.2	7.9	90.00	-533.1	-20.4	489.1	463.4	25.74	19.003	
5,200.0	5,191.0	5,193.0	5,193.0	18.4	8.0	90.52	-533.1	-20.4	489.2	463.2	25.96	18.839	
5,300.0	5,290.6	5,292.6	5,292.6	18.7	8.1	91.51	-533.1	-20.4	489.3	462.9	26.39	18.543	
5,400.0	5,390.2	5,392.2	5,392.2	19.1	8.2	92.49	-533.1	-20.4	489.6	462.8	26.81	18.263	
5,500.0	5,489.9	5,491.9	5,491.9	19.5	8.3	93.47	-533.1	-20.4	490.0	462.8	27.23	17.997	
5,600.0	5,589.5	5,591.5	5,591.5	19.8	8.4	94.45	-533.1	-20.4	490.6	463.0	27.65	17.746	
5,700.0	5,689.2	5,691.2	5,691.2	20.2	8.5	95.43	-533.1	-20.4	491.3	463.3	28.06	17.508	
5,800.0	5,788.8	5,790.8	5,790.8	20.5	8.7	96.40	-533.1	-20.4	492.2	463.7	28.48	17.284	
5,900.0	5,888.5	5,890.5	5,890.5	20.9	8.8	97.37	-533.1	-20.4	493.2	464.3	28.89	17.071	
6,000.0	5,988.1	5,990.1	5,990.1	21.2	8.9	98.34	-533.1	-20.4	494.4	465.1	29.30	16.871	
6,100.0	6,087.8	6,089.8	6,089.8	21.6	9.0	99.30	-533.1	-20.4	495.7	466.0	29.71	16.682	
6,200.0	6,187.4	6,189.4	6,189.4	21.9	9.1	100.25	-533.1	-20.4	497.1	467.0	30.12	16.503	
6,300.0	6,287.0	6,289.0	6,289.0	22.3	9.2	101.20	-533.1	-20.4	498.7	468.2	30.53	16.335	
6,400.0	6,386.7	6,388.7	6,388.7	22.7	9.4	102.15	-533.1	-20.4	500.4	469.5	30.94	16.176	
6,500.0	6,486.3	6,488.3	6,488.3	23.0	9.5	103.08	-533.1	-20.4	502.3	470.9	31.34	16.027	
6,600.0	6,586.0	6,588.0	6,588.0	23.4	9.6	104.01	-533.1	-20.4	504.2	472.5	31.74	15.886	
6,700.0	6,685.6	6,687.6	6,687.6	23.7	9.7	104.94	-533.1	-20.4	506.4	474.2	32.14	15.754	
6,800.0	6,785.3	6,787.3	6,787.3	24.1	9.8	105.85	-533.1	-20.4	508.6	476.1	32.54	15.630	
6,900.0	6,884.9	6,886.9	6,886.9	24.4	9.9	106.76	-533.1	-20.4	511.0	478.0	32.94	15.513	
7,000.0	6,984.6	6,986.6	6,986.6	24.8	10.1	107.66	-533.1	-20.4	513.5	480.1	33.33	15.404	
7,100.0	7,084.2	7,086.2	7,086.2	25.2	10.2	108.54	-533.1	-20.4	516.1	482.4	33.73	15.301	
7,200.0	7,183.8	7,185.8	7,185.8	25.5	10.3	109.42	-533.1	-20.4	518.9	484.7	34.12	15.206	
7,300.0	7,283.5	7,285.5	7,285.5	25.9	10.4	110.29	-533.1	-20.4	521.7	487.2	34.52	15.116	
7,400.0	7,383.1	7,385.1	7,385.1	26.2	10.5	111.16	-533.1	-20.4	524.7	489.8	34.91	15.032	
7,500.0	7,482.8	7,484.8	7,484.8	26.6	10.7	112.01	-533.1	-20.4	527.8	492.5	35.30	14.955	
7,600.0	7,582.4	7,594.0	7,594.0	26.9	10.7	112.79	-533.5	-18.9	530.3	494.6	35.70	14.853	
7,700.0	7,682.1	7,699.7	7,699.6	27.3	10.8	113.23	-534.8	-14.1	531.0	494.8	36.12	14.698	
7,800.0	7,781.7	7,799.6	7,799.4	27.7	10.8	113.60	-536.1	-9.0	531.4	494.8	36.54	14.542	
7,900.0	7,881.3	7,899.6	7,899.2	28.0	10.8	113.96	-537.5	-4.0	531.8	494.9	36.96	14.390	
8,000.0	7,981.0	7,999.5	7,999.0	28.4	10.8	114.33	-538.9	1.1	532.3	494.9	37.37	14.242	
8,100.0	8,080.6	8,099.5	8,098.8	28.7	10.8	114.70	-540.2	6.1	532.8	495.0	37.79	14.097	
8,200.0	8,180.3	8,199.4	8,198.6	29.1	10.9	115.06	-541.6	11.2	533.3	495.0	38.21	13.956	
8,300.0	8,279.9	8,299.4	8,298.4	29.5	10.9	115.43	-542.9	16.2	533.8	495.2	38.63	13.817	
8,400.0	8,379.6	8,399.3	8,398.2	29.8	10.9	115.79	-544.3	21.3	534.3	495.3	39.05	13.682	
8,500.0	8,479.2	8,499.2	8,498.0	30.2	10.9	116.15	-545.6	26.3	534.9	495.4	39.48	13.550	
8,600.0	8,578.9	8,599.2	8,597.8	30.5	11.0	116.51	-547.0	31.4	535.5	495.6	39.90	13.421	
8,700.0	8,678.5	8,699.1	8,697.6	30.9	11.0	116.88	-548.3	36.4	536.1	495.8	40.32	13.295	
8,800.0	8,778.1	8,799.1	8,797.4	31.3	11.0	117.24	-549.7	41.5	536.7	496.0	40.75	13.172	
8,900.0	8,877.8	8,899.0	8,897.2	31.6	11.0	117.60	-551.0	46.5	537.4	496.2	41.17	13.052	
9,000.0	8,977.4	8,998.9	8,997.0	32.0	11.1	117.95	-552.4	51.6	538.1	496.5	41.60	12.934	
9,100.0	9,077.1	9,098.9	9,096.8	32.3	11.1	118.31	-553.7	56.6	538.8	496.7	42.03	12.819	
9,200.0	9,176.7	9,198.8	9,196.6	32.7	11.2	118.67	-555.1	61.7	539.5	497.0	42.46	12.707	
9,300.0	9,276.4	9,298.8	9,296.4	33.1	11.2	119.03	-556.4	66.7	540.2	497.3	42.89	12.597	
9,400.0	9,376.0	9,398.7	9,396.2	33.4	11.2	119.38	-557.8	71.8	541.0	497.7	43.32	12.489	
9,500.0	9,475.6	9,498.6	9,496.0	33.8	11.3	119.73	-559.2	76.8	541.8	498.0	43.75	12.384	
9,600.0	9,575.3	9,598.6	9,595.8	34.2	11.3	120.09	-560.5	81.9	542.6	498.4	44.18	12.281	
9,700.0	9,674.9	9,698.5	9,695.6	34.5	11.4	120.44	-561.9	87.0	543.4	498.8	44.61	12.180	
9,800.0	9,774.6	9,798.5	9,795.5	34.9	11.4	120.79	-563.2	92.0	544.2	499.2	45.04	12.082	
9,900.0	9,874.2	9,898.4	9,895.3	35.2	11.4	121.14	-564.6	97.1	545.1	499.6	45.48	11.986	
10,000.0	9,973.9	9,998.3	9,995.1	35.6	11.5	121.49	-565.9	102.1	546.0	500.0	45.91	11.891	
10,100.0	10,073.5	10,098.3	10,094.9	36.0	11.5	121.84	-567.3	107.2	546.9	500.5	46.35	11.799	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #601H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12216-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
10,200.0	10,173.2	10,198.2	10,194.7	36.3	11.6	122.18	-568.6	112.2	547.8	501.0	46.78	11.709	
10,300.0	10,272.8	10,298.2	10,294.5	36.7	11.6	122.53	-570.0	117.3	548.7	501.5	47.22	11.621	
10,400.0	10,372.4	10,398.1	10,394.3	37.0	11.7	122.87	-571.3	122.3	549.7	502.0	47.66	11.534	
10,500.0	10,472.1	10,498.1	10,494.1	37.4	11.7	123.22	-572.7	127.4	550.7	502.6	48.10	11.449	
10,600.0	10,571.7	10,598.0	10,593.9	37.8	11.8	123.56	-574.0	132.4	551.7	503.1	48.53	11.367	
10,700.0	10,671.4	10,697.9	10,693.7	38.1	11.9	123.90	-575.4	137.5	552.7	503.7	48.97	11.285	
10,800.0	10,771.0	10,797.9	10,793.5	38.5	11.9	124.24	-576.8	142.5	553.7	504.3	49.41	11.206	
10,900.0	10,870.7	10,897.8	10,893.3	38.9	12.0	124.57	-578.1	147.6	554.8	504.9	49.85	11.128	
11,000.0	10,970.3	10,997.8	10,993.1	39.2	12.0	124.91	-579.5	152.6	555.9	505.6	50.30	11.052	
11,100.0	11,070.0	11,097.7	11,092.9	39.6	12.1	125.25	-580.8	157.7	557.0	506.2	50.74	10.977	
11,200.0	11,169.6	11,197.6	11,192.7	39.9	12.2	125.58	-582.2	162.7	558.1	506.9	51.18	10.904	
11,300.0	11,269.2	11,297.6	11,292.5	40.3	12.2	125.91	-583.5	167.8	559.2	507.6	51.62	10.833	
11,400.0	11,368.9	11,397.5	11,392.3	40.7	12.3	126.24	-584.9	172.8	560.4	508.3	52.07	10.763	
11,500.0	11,468.5	11,497.5	11,492.1	41.0	12.3	126.57	-586.2	177.9	561.5	509.0	52.51	10.694	
11,600.0	11,568.2	11,597.4	11,591.9	41.4	12.4	126.90	-587.6	182.9	562.7	509.8	52.96	10.626	
11,700.0	11,667.8	11,697.3	11,691.7	41.8	12.5	127.23	-588.9	188.0	563.9	510.5	53.40	10.561	
11,800.0	11,767.5	11,797.3	11,791.5	42.1	12.5	127.55	-590.3	193.0	565.2	511.3	53.85	10.496	
11,900.0	11,867.1	11,897.2	11,891.3	42.5	12.6	127.88	-591.6	198.1	566.4	512.1	54.29	10.433	
12,000.0	11,966.7	11,997.2	11,991.1	42.8	12.7	128.20	-593.0	203.2	567.7	512.9	54.74	10.370	
12,100.0	12,066.4	12,097.1	12,090.9	43.2	12.8	128.52	-594.4	208.2	569.0	513.8	55.19	10.310	
12,200.0	12,166.0	12,197.0	12,190.7	43.6	12.8	128.84	-595.7	213.3	570.3	514.6	55.64	10.250	
12,300.0	12,265.7	12,493.3	12,471.3	43.9	13.0	136.37	-523.6	246.5	555.8	499.2	56.62	9.817	
12,400.0	12,365.3	12,691.0	12,609.8	44.3	13.2	151.30	-390.7	287.4	516.9	459.8	57.11	9.052	
12,500.0	12,465.0	12,774.5	12,649.0	44.7	13.2	160.27	-319.7	307.4	480.8	424.1	56.70	8.478	
12,534.2	12,499.0	12,792.7	12,655.8	44.8	13.3	162.38	-303.5	311.8	471.3	414.8	56.44	8.350	
12,550.0	12,514.8	12,799.7	12,658.2	44.8	13.3	146.99	-297.1	313.6	467.5	411.2	56.30	8.304	
12,575.0	12,539.6	12,808.3	12,661.1	44.9	13.3	133.26	-289.3	315.7	462.7	406.7	56.07	8.252	
12,600.0	12,564.2	12,814.4	12,663.0	45.0	13.3	126.17	-283.7	317.2	459.4	403.6	55.86	8.224	
12,625.0	12,588.7	12,818.4	12,664.2	45.1	13.3	121.94	-280.1	318.2	457.7	402.0	55.69	8.218 SF	
12,638.7	12,601.9	12,819.8	12,664.7	45.2	13.3	120.22	-278.8	318.5	457.5	401.8	55.63	8.223 CC, ES	
12,650.0	12,612.8	12,820.6	12,664.9	45.2	13.3	118.99	-278.1	318.7	457.6	402.0	55.60	8.231	
12,675.0	12,636.5	12,821.3	12,665.1	45.3	13.3	116.63	-277.4	318.9	459.2	403.6	55.59	8.261	
12,700.0	12,659.9	12,820.7	12,664.9	45.4	13.3	114.52	-278.0	318.7	462.5	406.8	55.67	8.307	
12,725.0	12,682.7	12,819.0	12,664.4	45.5	13.3	112.46	-279.5	318.3	467.3	411.5	55.84	8.368	
12,750.0	12,705.0	12,816.3	12,663.6	45.5	13.3	110.36	-282.0	317.7	473.7	417.6	56.08	8.446	
12,775.0	12,726.7	12,812.9	12,662.5	45.6	13.3	108.16	-285.1	316.8	481.5	425.1	56.37	8.542	
12,800.0	12,747.7	12,808.7	12,661.2	45.7	13.3	105.83	-289.0	315.8	490.6	433.9	56.67	8.657	
12,825.0	12,768.0	12,803.9	12,659.6	45.8	13.3	103.35	-293.4	314.6	500.9	444.0	56.97	8.793	
12,850.0	12,787.5	12,800.0	12,658.3	45.9	13.3	100.90	-296.9	313.6	512.3	455.1	57.24	8.950	
12,875.0	12,806.2	12,792.6	12,655.7	45.9	13.3	97.95	-303.5	311.8	524.6	467.1	57.52	9.121	
12,900.0	12,823.9	12,786.4	12,653.5	46.0	13.3	95.05	-309.2	310.3	537.8	480.0	57.75	9.312	
12,925.0	12,840.8	12,779.7	12,651.0	46.1	13.2	92.03	-315.1	308.6	551.6	493.7	57.96	9.518	
12,950.0	12,856.6	12,775.0	12,649.2	46.2	13.2	89.18	-319.3	307.5	566.1	507.9	58.12	9.740	
12,975.0	12,871.4	12,765.3	12,645.3	46.2	13.2	85.78	-327.9	305.1	580.9	522.6	58.28	9.968	
13,000.0	12,885.1	12,757.7	12,642.1	46.3	13.2	82.60	-334.6	303.3	596.2	537.8	58.40	10.208	
13,025.0	12,897.8	12,750.0	12,638.8	46.4	13.2	79.45	-341.2	301.4	611.7	553.2	58.50	10.457	
13,050.0	12,909.3	12,741.7	12,635.1	46.4	13.2	76.31	-348.4	299.4	627.3	568.8	58.57	10.710	
13,075.0	12,919.6	12,733.4	12,631.3	46.5	13.2	73.26	-355.5	297.4	643.1	584.5	58.63	10.969	
13,100.0	12,928.7	12,725.0	12,627.3	46.5	13.2	70.31	-362.6	295.4	658.9	600.2	58.67	11.230	
13,125.0	12,936.6	12,716.2	12,623.0	46.6	13.2	67.47	-370.0	293.3	674.6	615.9	58.70	11.492	
13,150.0	12,943.2	12,707.3	12,618.5	46.6	13.2	64.78	-377.3	291.3	690.3	631.6	58.72	11.755	
13,175.0	12,948.6	12,700.0	12,614.6	46.7	13.2	62.32	-383.3	289.5	705.7	647.0	58.72	12.019	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FE D PROJECT - GREEN EYESHAD FE D COM #601H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12216-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
13,200.0	12,952.7	12,689.2	12,608.8	46.7	13.2	59.84	-392.1	287.0	721.0	662.3	58.72	12.277	
13,225.0	12,955.5	12,675.0	12,600.9	46.8	13.1	57.42	-403.4	283.8	736.0	677.3	58.73	12.531	
13,250.0	12,957.0	12,675.0	12,600.9	46.8	13.1	55.69	-403.4	283.8	750.6	692.0	58.68	12.793	
13,275.0	12,957.2	12,661.0	12,592.7	46.9	13.1	53.62	-414.3	280.6	764.9	706.2	58.67	13.037	
13,284.0	12,957.0	12,657.6	12,590.6	46.9	13.1	52.97	-416.9	279.8	770.0	711.3	58.66	13.126	
13,300.0	12,956.4	12,650.0	12,586.0	46.9	13.1	52.75	-422.7	278.1	779.0	720.3	58.65	13.282	
13,400.0	12,952.7	12,616.0	12,564.2	47.1	13.1	51.71	-447.7	270.6	838.1	779.5	58.55	14.313	
13,500.0	12,949.0	12,584.4	12,542.3	47.3	13.0	50.67	-469.4	264.0	901.7	843.2	58.48	15.418	
13,600.0	12,945.3	12,550.0	12,516.8	47.5	13.0	49.48	-491.5	257.1	969.3	910.9	58.45	16.584	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #602H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	5.2	5.2	3.0	4.2	-171.43	-533.5	-80.4	539.5				
100.0	100.0	105.2	105.2	3.0	4.2	-171.43	-533.5	-80.4	539.5	532.3	7.25	74.441	
200.0	200.0	205.2	205.2	3.0	4.3	-171.43	-533.5	-80.4	539.5	532.2	7.31	73.795	
300.0	300.0	305.2	305.2	3.1	4.3	-171.43	-533.5	-80.4	539.5	532.1	7.45	72.466	
400.0	400.0	405.2	405.2	3.2	4.4	-171.43	-533.5	-80.4	539.5	531.9	7.65	70.564	
500.0	500.0	505.2	505.2	3.4	4.5	-171.43	-533.5	-80.4	539.5	531.6	7.91	68.228	
600.0	600.0	605.2	605.2	3.6	4.7	-171.43	-533.5	-80.4	539.5	531.3	8.22	65.601	
700.0	700.0	705.2	705.2	3.8	4.8	-171.43	-533.5	-80.4	539.5	530.9	8.59	62.813	
800.0	800.0	805.2	805.2	4.0	5.0	-171.43	-533.5	-80.4	539.5	530.5	9.00	59.968	
900.0	900.0	905.2	905.2	4.2	5.2	-171.43	-533.5	-80.4	539.5	530.1	9.44	57.148	
1,000.0	1,000.0	1,005.2	1,005.2	4.5	5.4	-171.43	-533.5	-80.4	539.5	529.6	9.92	54.406	
1,100.0	1,100.0	1,105.2	1,105.2	4.8	5.6	-171.43	-533.5	-80.4	539.5	529.1	10.42	51.779	
1,200.0	1,200.0	1,205.2	1,205.2	5.1	5.9	-171.43	-533.5	-80.4	539.5	528.6	10.95	49.288	
1,300.0	1,300.0	1,305.2	1,305.2	5.3	6.1	-171.43	-533.5	-80.4	539.5	528.0	11.49	46.943	
1,400.0	1,400.0	1,405.2	1,405.2	5.6	6.4	-171.43	-533.5	-80.4	539.5	527.5	12.06	44.746	
1,500.0	1,500.0	1,505.2	1,505.2	6.0	6.7	-171.43	-533.5	-80.4	539.5	526.9	12.64	42.693	
1,600.0	1,600.0	1,605.2	1,605.2	6.3	7.0	-171.43	-533.5	-80.4	539.5	526.3	13.23	40.780	
1,700.0	1,700.0	1,705.2	1,705.2	6.6	7.3	-171.43	-533.5	-80.4	539.5	525.7	13.83	38.998	
1,800.0	1,800.0	1,805.2	1,805.2	6.9	7.5	-171.43	-533.5	-80.4	539.5	525.1	14.45	37.339	
1,900.0	1,900.0	1,905.2	1,905.2	7.2	7.8	-171.43	-533.5	-80.4	539.5	524.5	15.07	35.794	
2,000.0	2,000.0	2,005.2	2,005.2	7.6	8.1	-171.43	-533.5	-80.4	539.5	523.8	15.70	34.355	
2,100.0	2,100.0	2,105.2	2,105.2	7.9	8.5	-171.43	-533.5	-80.4	539.5	523.2	16.34	33.013	
2,200.0	2,200.0	2,205.2	2,205.2	8.2	8.8	-171.43	-533.5	-80.4	539.5	522.5	16.99	31.760	
2,300.0	2,300.0	2,305.2	2,305.2	8.6	9.1	-171.43	-533.5	-80.4	539.5	521.9	17.64	30.590	
2,400.0	2,400.0	2,405.2	2,405.2	8.9	9.4	-171.43	-533.5	-80.4	539.5	521.2	18.29	29.494	
2,500.0	2,500.0	2,505.2	2,505.2	9.2	9.7	-171.43	-533.5	-80.4	539.5	520.6	18.95	28.468	
2,600.0	2,600.0	2,605.2	2,605.2	9.6	10.0	73.04	-533.5	-80.4	539.0	519.4	19.60	27.496	
2,700.0	2,699.8	2,705.0	2,705.0	9.9	10.4	73.60	-533.5	-80.4	537.5	517.3	20.25	26.547	
2,741.8	2,741.5	2,746.7	2,746.7	10.0	10.5	73.94	-533.5	-80.4	536.6	516.1	20.52	26.153	
2,800.0	2,799.5	2,804.7	2,804.7	10.2	10.7	74.45	-533.5	-80.4	535.3	514.4	20.90	25.616	
2,900.0	2,899.1	2,904.3	2,904.3	10.5	11.0	75.32	-533.5	-80.4	533.1	511.5	21.55	24.737	
3,000.0	2,998.8	3,004.0	3,004.0	10.8	11.4	76.19	-533.5	-80.4	531.0	508.8	22.21	23.911	
3,100.0	3,098.4	3,103.6	3,103.6	11.2	11.7	77.08	-533.5	-80.4	529.0	506.2	22.87	23.134	
3,200.0	3,198.1	3,203.3	3,203.3	11.5	12.0	77.97	-533.5	-80.4	527.2	503.7	23.53	22.403	
3,300.0	3,297.7	3,302.9	3,302.9	11.8	12.4	78.86	-533.5	-80.4	525.5	501.3	24.20	21.714	
3,400.0	3,397.4	3,402.6	3,402.6	12.2	12.7	79.77	-533.5	-80.4	523.9	499.1	24.87	21.066	
3,500.0	3,497.0	3,502.2	3,502.2	12.5	13.0	80.67	-533.5	-80.4	522.5	496.9	25.54	20.454	
3,600.0	3,596.7	3,601.9	3,601.9	12.9	13.4	81.58	-533.5	-80.4	521.2	495.0	26.22	19.877	
3,700.0	3,696.3	3,701.5	3,701.5	13.2	13.7	82.50	-533.5	-80.4	520.0	493.1	26.90	19.332	
3,800.0	3,795.9	3,801.1	3,801.1	13.5	14.0	83.42	-533.5	-80.4	519.0	491.4	27.58	18.817	
3,900.0	3,895.6	3,900.8	3,900.8	13.9	14.4	84.34	-533.5	-80.4	518.1	489.8	28.26	18.330	
4,000.0	3,995.2	4,000.4	4,000.4	14.2	14.7	85.27	-533.5	-80.4	517.3	488.4	28.95	17.870	
4,100.0	4,094.9	4,100.1	4,100.1	14.6	15.1	86.20	-533.5	-80.4	516.7	487.0	29.63	17.435	
4,200.0	4,194.5	4,199.7	4,199.7	14.9	15.4	87.13	-533.5	-80.4	516.2	485.9	30.32	17.023	
4,300.0	4,294.2	4,299.4	4,299.4	15.3	15.8	88.06	-533.5	-80.4	515.8	484.8	31.01	16.633	
4,400.0	4,393.8	4,399.0	4,399.0	15.6	16.1	88.99	-533.5	-80.4	515.6	483.9	31.70	16.264	
4,500.0	4,493.5	4,498.7	4,498.7	15.9	16.4	89.93	-533.5	-80.4	515.5	483.1	32.40	15.914	
4,507.9	4,501.3	4,506.5	4,506.5	16.0	16.5	90.00	-533.5	-80.4	515.5	483.1	32.45	15.887 CC	
4,600.0	4,593.1	4,598.3	4,598.3	16.3	16.8	90.86	-533.5	-80.4	515.6	482.5	33.09	15.582	
4,700.0	4,692.7	4,697.9	4,697.9	16.6	17.1	91.79	-533.5	-80.4	515.8	482.0	33.78	15.267	
4,800.0	4,792.4	4,797.6	4,797.6	17.0	17.5	92.73	-533.5	-80.4	516.1	481.6	34.48	14.969	
4,900.0	4,892.0	4,897.2	4,897.2	17.3	17.8	93.66	-533.5	-80.4	516.6	481.4	35.18	14.685	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #602H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,991.7	4,996.9	4,996.9	17.7	18.2	94.59	-533.5	-80.4	517.2	481.3	35.88	14.417	ES
5,100.0	5,091.3	5,096.5	5,096.5	18.0	18.5	95.51	-533.5	-80.4	517.9	481.4	36.57	14.162	
5,200.0	5,191.0	5,196.2	5,196.2	18.4	18.9	96.44	-533.5	-80.4	518.8	481.6	37.27	13.919	
5,300.0	5,290.6	5,295.8	5,295.8	18.7	19.2	97.36	-533.5	-80.4	519.8	481.9	37.97	13.689	
5,400.0	5,390.2	5,395.4	5,395.4	19.1	19.6	98.27	-533.5	-80.4	521.0	482.3	38.68	13.471	
5,500.0	5,489.9	5,495.1	5,495.1	19.5	19.9	99.18	-533.5	-80.4	522.3	482.9	39.38	13.263	
5,600.0	5,589.5	5,583.7	5,583.7	19.8	20.2	100.08	-533.7	-81.6	524.7	484.7	40.02	13.110	
5,700.0	5,689.2	5,671.3	5,671.2	20.2	20.5	101.16	-534.4	-85.4	529.5	488.8	40.64	13.029	
5,800.0	5,788.8	5,766.3	5,766.0	20.5	20.8	102.48	-535.5	-91.8	536.3	495.0	41.29	12.988	
5,900.0	5,888.5	5,865.2	5,864.7	20.9	21.2	103.82	-536.7	-98.6	543.5	501.5	41.97	12.950	
6,000.0	5,988.1	5,964.2	5,963.3	21.2	21.5	105.13	-537.9	-105.4	551.0	508.4	42.65	12.919	
6,100.0	6,087.8	6,063.1	6,062.0	21.6	21.8	106.40	-539.1	-112.2	558.8	515.5	43.33	12.896	
6,200.0	6,187.4	6,162.0	6,160.7	21.9	22.2	107.64	-540.3	-119.0	566.9	522.9	44.01	12.880	
6,300.0	6,287.0	6,260.9	6,259.4	22.3	22.5	108.84	-541.5	-125.8	575.2	530.5	44.70	12.869	
6,400.0	6,386.7	6,359.8	6,358.1	22.7	22.8	110.01	-542.7	-132.6	583.8	538.4	45.38	12.864	
6,500.0	6,486.3	6,458.8	6,456.8	23.0	23.2	111.14	-543.9	-139.4	592.6	546.5	46.07	12.864	SF
6,600.0	6,586.0	6,557.7	6,555.4	23.4	23.5	112.24	-545.1	-146.2	601.6	554.9	46.75	12.868	
6,700.0	6,685.6	6,656.6	6,654.1	23.7	23.8	113.31	-546.3	-153.0	610.9	563.5	47.44	12.877	
6,800.0	6,785.3	6,755.5	6,752.8	24.1	24.2	114.35	-547.5	-159.8	620.4	572.2	48.13	12.890	
6,900.0	6,884.9	6,854.5	6,851.5	24.4	24.5	115.35	-548.7	-166.6	630.0	581.2	48.82	12.906	
7,000.0	6,984.6	6,953.4	6,950.2	24.8	24.8	116.33	-549.9	-173.4	639.9	590.4	49.51	12.925	
7,100.0	7,084.2	7,052.3	7,048.9	25.2	25.2	117.28	-551.1	-180.2	649.9	599.7	50.20	12.947	
7,200.0	7,183.8	7,151.2	7,147.5	25.5	25.5	118.19	-552.3	-187.0	660.1	609.2	50.89	12.972	
7,300.0	7,283.5	7,250.2	7,246.2	25.9	25.9	119.08	-553.5	-193.8	670.5	618.9	51.58	12.999	
7,400.0	7,383.1	7,349.1	7,344.9	26.2	26.2	119.94	-554.7	-200.6	681.0	628.7	52.27	13.028	
7,500.0	7,482.8	7,448.0	7,443.6	26.6	26.5	120.78	-555.9	-207.4	691.7	638.7	52.97	13.059	
7,600.0	7,582.4	7,546.9	7,542.3	26.9	26.9	121.59	-557.1	-214.2	702.5	648.8	53.66	13.091	
7,700.0	7,682.1	7,645.9	7,641.0	27.3	27.2	122.38	-558.3	-220.9	713.4	659.1	54.35	13.126	
7,800.0	7,781.7	7,744.8	7,739.6	27.7	27.6	123.14	-559.5	-227.7	724.5	669.5	55.05	13.161	
7,900.0	7,881.3	7,843.7	7,838.3	28.0	27.9	123.88	-560.7	-234.5	735.7	680.0	55.75	13.198	
8,000.0	7,981.0	7,942.6	7,937.0	28.4	28.2	124.60	-561.9	-241.3	747.1	690.6	56.44	13.236	
8,100.0	8,080.6	8,041.5	8,035.7	28.7	28.6	125.29	-563.1	-248.1	758.5	701.3	57.14	13.274	
8,200.0	8,180.3	8,140.5	8,134.4	29.1	28.9	125.97	-564.3	-254.9	770.0	712.2	57.84	13.314	
8,300.0	8,279.9	8,239.4	8,233.0	29.5	29.3	126.63	-565.5	-261.7	781.7	723.1	58.54	13.354	
8,400.0	8,379.6	8,338.3	8,331.7	29.8	29.6	127.26	-566.7	-268.5	793.4	734.2	59.23	13.395	
8,500.0	8,479.2	8,437.2	8,430.4	30.2	30.0	127.88	-567.9	-275.3	805.3	745.3	59.93	13.436	
8,600.0	8,578.9	8,536.2	8,529.1	30.5	30.3	128.48	-569.1	-282.1	817.2	756.6	60.63	13.478	
8,700.0	8,678.5	8,635.1	8,627.8	30.9	30.7	129.06	-570.3	-288.9	829.2	767.9	61.33	13.520	
8,800.0	8,778.1	8,734.0	8,726.5	31.3	31.0	129.63	-571.5	-295.7	841.3	779.3	62.03	13.562	
8,900.0	8,877.8	8,832.9	8,825.1	31.6	31.3	130.18	-572.7	-302.5	853.5	790.8	62.74	13.605	
9,000.0	8,977.4	8,931.9	8,923.8	32.0	31.7	130.72	-573.9	-309.3	865.8	802.3	63.44	13.648	
9,100.0	9,077.1	9,030.8	9,022.5	32.3	32.0	131.24	-575.1	-316.1	878.1	814.0	64.14	13.690	
9,200.0	9,176.7	9,129.7	9,121.2	32.7	32.4	131.74	-576.3	-322.9	890.5	825.6	64.84	13.733	
9,300.0	9,276.4	9,228.6	9,219.9	33.1	32.7	132.23	-577.5	-329.7	903.0	837.4	65.54	13.776	
9,400.0	9,376.0	9,327.6	9,318.6	33.4	33.1	132.71	-578.7	-336.5	915.5	849.2	66.25	13.819	
9,500.0	9,475.6	9,426.5	9,417.2	33.8	33.4	133.18	-579.9	-343.3	928.1	861.1	66.95	13.862	
9,600.0	9,575.3	9,525.4	9,515.9	34.2	33.8	133.63	-581.0	-350.1	940.7	873.1	67.66	13.905	
9,700.0	9,674.9	9,624.3	9,614.6	34.5	34.1	134.07	-582.2	-356.9	953.4	885.1	68.36	13.947	
9,800.0	9,774.6	9,723.3	9,713.3	34.9	34.5	134.50	-583.4	-363.7	966.2	897.1	69.07	13.990	
9,900.0	9,874.2	9,822.2	9,812.0	35.2	34.8	134.92	-584.6	-370.5	979.0	909.2	69.77	14.032	
10,000.0	9,973.9	9,921.1	9,910.7	35.6	35.2	135.33	-585.8	-377.2	991.9	921.4	70.48	14.074	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #701H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12511-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.4	1.4	3.0	4.2	178.97	-532.9	9.6	533.0				
100.0	100.0	101.4	101.4	3.0	4.2	178.97	-532.9	9.6	533.0	525.7	7.25	73.561	
200.0	200.0	201.4	201.4	3.0	4.2	178.97	-532.9	9.6	533.0	525.7	7.29	73.160	
300.0	300.0	301.4	301.4	3.1	4.3	178.97	-532.9	9.6	533.0	525.6	7.37	72.317	
400.0	400.0	401.4	401.4	3.2	4.3	178.97	-532.9	9.6	533.0	525.5	7.50	71.092	
500.0	500.0	501.4	501.4	3.4	4.3	178.97	-532.9	9.6	533.0	525.3	7.66	69.558	
600.0	600.0	601.4	601.4	3.6	4.3	178.97	-532.9	9.6	533.0	525.1	7.86	67.795	
700.0	700.0	701.4	701.4	3.8	4.3	178.97	-532.9	9.6	533.0	524.9	8.09	65.877	
800.0	800.0	801.4	801.4	4.0	4.4	178.97	-532.9	9.6	533.0	524.6	8.35	63.869	
900.0	900.0	901.4	901.4	4.2	4.4	178.97	-532.9	9.6	533.0	524.4	8.62	61.821	
1,000.0	1,000.0	1,001.4	1,001.4	4.5	4.4	178.97	-532.9	9.6	533.0	524.1	8.92	59.773	
1,100.0	1,100.0	1,101.4	1,101.4	4.8	4.5	178.97	-532.9	9.6	533.0	523.8	9.23	57.754	
1,200.0	1,200.0	1,201.4	1,201.4	5.1	4.5	178.97	-532.9	9.6	533.0	523.4	9.55	55.784	
1,300.0	1,300.0	1,301.4	1,301.4	5.3	4.5	178.97	-532.9	9.6	533.0	523.1	9.89	53.876	
1,400.0	1,400.0	1,401.4	1,401.4	5.6	4.6	178.97	-532.9	9.6	533.0	522.7	10.24	52.039	
1,500.0	1,500.0	1,501.4	1,501.4	6.0	4.6	178.97	-532.9	9.6	533.0	522.4	10.60	50.277	
1,600.0	1,600.0	1,601.4	1,601.4	6.3	4.7	178.97	-532.9	9.6	533.0	522.0	10.97	48.592	
1,700.0	1,700.0	1,701.4	1,701.4	6.6	4.8	178.97	-532.9	9.6	533.0	521.6	11.34	46.985	
1,800.0	1,800.0	1,801.4	1,801.4	6.9	4.8	178.97	-532.9	9.6	533.0	521.3	11.73	45.454	
1,900.0	1,900.0	1,901.4	1,901.4	7.2	4.9	178.97	-532.9	9.6	533.0	520.9	12.11	43.996	
2,000.0	2,000.0	2,001.4	2,001.4	7.6	5.0	178.97	-532.9	9.6	533.0	520.5	12.51	42.609	
2,100.0	2,100.0	2,101.4	2,101.4	7.9	5.0	178.97	-532.9	9.6	533.0	520.1	12.91	41.290	
2,200.0	2,200.0	2,201.4	2,201.4	8.2	5.1	178.97	-532.9	9.6	533.0	519.7	13.31	40.036	
2,300.0	2,300.0	2,301.4	2,301.4	8.6	5.2	178.97	-532.9	9.6	533.0	519.3	13.72	38.843	
2,400.0	2,400.0	2,401.4	2,401.4	8.9	5.2	178.97	-532.9	9.6	533.0	518.9	14.13	37.708	
2,500.0	2,500.0	2,501.4	2,501.4	9.2	5.3	178.97	-532.9	9.6	533.0	518.4	14.55	36.629	
2,600.0	2,600.0	2,602.6	2,602.6	9.6	5.4	63.24	-532.7	11.4	532.1	517.2	14.93	35.634	
2,700.0	2,699.8	2,703.8	2,703.6	9.9	5.4	63.21	-532.3	16.8	529.4	514.1	15.28	34.651	
2,741.8	2,741.5	2,746.1	2,745.8	10.0	5.4	63.20	-532.0	20.1	527.7	512.3	15.42	34.216	
2,800.0	2,799.5	2,804.2	2,803.7	10.2	5.4	63.12	-531.6	25.2	525.2	509.6	15.63	33.608	
2,900.0	2,899.1	2,904.1	2,903.2	10.5	5.5	62.99	-530.9	33.9	520.8	504.8	15.98	32.595	
3,000.0	2,998.8	3,004.0	3,002.7	10.8	5.5	62.86	-530.2	42.5	516.5	500.1	16.33	31.619	
3,100.0	3,098.4	3,103.9	3,102.3	11.2	5.6	62.73	-529.4	51.2	512.1	495.4	16.69	30.679	
3,200.0	3,198.1	3,203.8	3,201.8	11.5	5.6	62.59	-528.7	59.9	507.8	490.7	17.05	29.774	
3,300.0	3,297.7	3,303.7	3,301.3	11.8	5.6	62.45	-528.0	68.6	503.4	486.0	17.42	28.903	
3,400.0	3,397.4	3,403.6	3,400.8	12.2	5.7	62.31	-527.3	77.2	499.1	481.3	17.78	28.063	
3,500.0	3,497.0	3,503.5	3,500.3	12.5	5.8	62.16	-526.5	85.9	494.7	476.6	18.15	27.253	
3,600.0	3,596.7	3,603.4	3,599.9	12.9	5.8	62.02	-525.8	94.6	490.4	471.9	18.52	26.473	
3,700.0	3,696.3	3,703.3	3,699.4	13.2	5.9	61.87	-525.1	103.3	486.1	467.2	18.90	25.721	
3,800.0	3,795.9	3,803.2	3,798.9	13.5	5.9	61.72	-524.4	111.9	481.7	462.5	19.27	24.995	
3,900.0	3,895.6	3,903.1	3,898.4	13.9	6.0	61.56	-523.6	120.6	477.4	457.8	19.65	24.295	
4,000.0	3,995.2	4,003.0	3,997.9	14.2	6.1	61.40	-522.9	129.3	473.1	453.1	20.03	23.619	
4,100.0	4,094.9	4,102.9	4,097.4	14.6	6.1	61.24	-522.2	138.0	468.8	448.4	20.41	22.966	
4,200.0	4,194.5	4,202.8	4,197.0	14.9	6.2	61.08	-521.5	146.6	464.5	443.7	20.79	22.336	
4,300.0	4,294.2	4,302.7	4,296.5	15.3	6.3	60.91	-520.8	155.3	460.2	439.0	21.18	21.727	
4,400.0	4,393.8	4,402.6	4,396.0	15.6	6.3	60.74	-520.0	164.0	455.8	434.3	21.57	21.138	
4,500.0	4,493.5	4,502.5	4,495.5	15.9	6.4	60.57	-519.3	172.7	451.5	429.6	21.95	20.568	
4,600.0	4,593.1	4,602.4	4,595.0	16.3	6.5	60.39	-518.6	181.4	447.2	424.9	22.34	20.017	
4,700.0	4,692.7	4,702.3	4,694.6	16.6	6.6	60.22	-517.9	190.0	443.0	420.2	22.73	19.484	
4,800.0	4,792.4	4,802.2	4,794.1	17.0	6.6	60.03	-517.1	198.7	438.7	415.5	23.13	18.968	
4,900.0	4,892.0	4,902.1	4,893.6	17.3	6.7	59.85	-516.4	207.4	434.4	410.9	23.52	18.468	
5,000.0	4,991.7	5,002.0	4,993.1	17.7	6.8	59.65	-515.7	216.1	430.1	406.2	23.92	17.984	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #701H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12511-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,091.3	5,101.9	5,092.6	18.0	6.9	59.46	-515.0	224.7	425.8	401.5	24.31	17.515	
5,200.0	5,191.0	5,201.8	5,192.1	18.4	7.0	59.26	-514.2	233.4	421.5	396.8	24.71	17.060	
5,300.0	5,290.6	5,301.7	5,291.7	18.7	7.1	59.06	-513.5	242.1	417.3	392.2	25.11	16.619	
5,400.0	5,390.2	5,401.6	5,391.2	19.1	7.2	58.85	-512.8	250.8	413.0	387.5	25.51	16.191	
5,500.0	5,489.9	5,501.5	5,490.7	19.5	7.2	58.64	-512.1	259.4	408.8	382.9	25.91	15.775	
5,600.0	5,589.5	5,601.4	5,590.2	19.8	7.3	58.43	-511.4	268.1	404.5	378.2	26.31	15.372	
5,700.0	5,689.2	5,701.3	5,689.7	20.2	7.4	58.21	-510.6	276.8	400.3	373.6	26.72	14.981	
5,800.0	5,788.8	5,801.2	5,789.2	20.5	7.5	57.98	-509.9	285.5	396.0	368.9	27.12	14.601	
5,900.0	5,888.5	5,901.1	5,888.8	20.9	7.6	57.75	-509.2	294.1	391.8	364.3	27.53	14.231	
6,000.0	5,988.1	6,001.0	5,988.3	21.2	7.7	57.52	-508.5	302.8	387.6	359.6	27.94	13.872	
6,100.0	6,087.8	6,100.9	6,087.8	21.6	7.8	57.28	-507.7	311.5	383.4	355.0	28.35	13.524	
6,200.0	6,187.4	6,200.8	6,187.3	21.9	7.9	57.04	-507.0	320.2	379.1	350.4	28.76	13.184	
6,300.0	6,287.0	6,300.7	6,286.8	22.3	8.0	56.79	-506.3	328.9	374.9	345.8	29.17	12.854	
6,400.0	6,386.7	6,400.6	6,386.4	22.7	8.1	56.53	-505.6	337.5	370.7	341.2	29.58	12.534	
6,500.0	6,486.3	6,500.5	6,485.9	23.0	8.2	56.27	-504.8	346.2	366.6	336.6	29.99	12.221	
6,600.0	6,586.0	6,600.4	6,585.4	23.4	8.3	56.00	-504.1	354.9	362.4	332.0	30.41	11.917	
6,700.0	6,685.6	6,700.3	6,684.9	23.7	8.4	55.73	-503.4	363.6	358.2	327.4	30.82	11.621	
6,800.0	6,785.3	6,800.2	6,784.4	24.1	8.5	55.45	-502.7	372.2	354.0	322.8	31.24	11.333	
6,900.0	6,884.9	6,900.1	6,883.9	24.4	8.6	55.16	-502.0	380.9	349.9	318.2	31.66	11.052	
7,000.0	6,984.6	7,000.0	6,983.5	24.8	8.7	54.86	-501.2	389.6	345.7	313.7	32.07	10.779	
7,100.0	7,084.2	7,099.9	7,083.0	25.2	8.8	54.56	-500.5	398.3	341.6	309.1	32.49	10.513	
7,200.0	7,183.8	7,199.7	7,182.5	25.5	8.9	54.25	-499.8	406.9	337.5	304.5	32.91	10.253	
7,300.0	7,283.5	7,299.6	7,282.0	25.9	9.0	53.94	-499.1	415.6	333.3	300.0	33.33	10.000	
7,400.0	7,383.1	7,399.5	7,381.5	26.2	9.2	53.61	-498.3	424.3	329.2	295.5	33.76	9.753	
7,500.0	7,482.8	7,499.4	7,481.1	26.6	9.3	53.28	-497.6	433.0	325.1	291.0	34.18	9.513	
7,600.0	7,582.4	7,599.3	7,580.6	26.9	9.4	52.94	-496.9	441.7	321.1	286.4	34.60	9.278	
7,700.0	7,682.1	7,699.2	7,680.1	27.3	9.5	52.59	-496.2	450.3	317.0	281.9	35.03	9.049	
7,800.0	7,781.7	7,799.1	7,779.6	27.7	9.6	52.23	-495.4	459.0	312.9	277.5	35.45	8.826	
7,900.0	7,881.3	7,899.0	7,879.1	28.0	9.7	51.86	-494.7	467.7	308.9	273.0	35.88	8.608	
8,000.0	7,981.0	7,998.9	7,978.6	28.4	9.8	51.49	-494.0	476.4	304.8	268.5	36.31	8.395	
8,100.0	8,080.6	8,098.8	8,078.2	28.7	9.9	51.10	-493.3	485.0	300.8	264.1	36.74	8.188	
8,200.0	8,180.3	8,198.7	8,177.7	29.1	10.0	50.70	-492.6	493.7	296.8	259.6	37.17	7.985	
8,300.0	8,279.9	8,298.6	8,277.2	29.5	10.1	50.29	-491.8	502.4	292.8	255.2	37.60	7.788	
8,400.0	8,379.6	8,398.5	8,376.7	29.8	10.3	49.87	-491.1	511.1	288.8	250.8	38.03	7.595	
8,500.0	8,479.2	8,498.4	8,476.2	30.2	10.4	49.44	-490.4	519.7	284.9	246.4	38.46	7.406	
8,600.0	8,578.9	8,598.3	8,575.7	30.5	10.5	48.99	-489.7	528.4	280.9	242.0	38.89	7.222	
8,700.0	8,678.5	8,698.2	8,675.3	30.9	10.6	48.54	-488.9	537.1	277.0	237.7	39.33	7.043	
8,800.0	8,778.1	8,798.1	8,774.8	31.3	10.7	48.07	-488.2	545.8	273.1	233.3	39.76	6.867	
8,900.0	8,877.8	8,898.0	8,874.3	31.6	10.8	47.58	-487.5	554.4	269.2	229.0	40.20	6.696	
9,000.0	8,977.4	8,997.9	8,973.8	32.0	10.9	47.08	-486.8	563.1	265.3	224.7	40.64	6.529	
9,100.0	9,077.1	9,097.8	9,073.3	32.3	11.1	46.57	-486.0	571.8	261.5	220.4	41.08	6.365	
9,200.0	9,176.7	9,197.7	9,172.9	32.7	11.2	46.04	-485.3	580.5	257.6	216.1	41.52	6.206	
9,300.0	9,276.4	9,297.8	9,272.5	33.1	11.3	45.50	-484.6	589.1	253.8	211.9	41.96	6.050	
9,400.0	9,376.0	9,398.8	9,373.2	33.4	11.4	45.19	-484.0	596.8	249.7	207.3	42.40	5.891	
9,500.0	9,475.6	9,499.7	9,474.1	33.8	11.5	45.27	-483.5	602.6	245.2	202.4	42.82	5.727	
9,600.0	9,575.3	9,600.6	9,574.9	34.2	11.6	45.77	-483.1	606.7	240.3	197.1	43.24	5.557	
9,700.0	9,674.9	9,701.4	9,675.6	34.5	11.7	46.71	-482.9	609.0	235.0	191.3	43.67	5.381	
9,800.0	9,774.6	9,801.8	9,776.0	34.9	11.8	48.11	-482.9	609.6	229.4	185.3	44.12	5.199	
9,900.0	9,874.2	9,901.4	9,875.6	35.2	11.9	49.71	-482.9	609.6	223.8	179.2	44.60	5.019	
10,000.0	9,973.9	10,001.1	9,975.3	35.6	12.0	51.39	-482.9	609.6	218.5	173.4	45.09	4.846	
10,100.0	10,073.5	10,100.7	10,074.9	36.0	12.1	53.16	-482.9	609.6	213.3	167.7	45.59	4.679	
10,200.0	10,173.2	10,200.4	10,174.6	36.3	12.2	55.01	-482.9	609.6	208.3	162.2	46.10	4.519	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #701H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12511-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,272.8	10,300.0	10,274.2	36.7	12.3	56.95	-482.9	609.6	203.6	157.0	46.63	4.367	
10,400.0	10,372.4	10,399.7	10,373.8	37.0	12.3	58.98	-482.9	609.6	199.1	152.0	47.17	4.221	
10,500.0	10,472.1	10,499.3	10,473.5	37.4	12.4	61.10	-482.9	609.6	194.9	147.2	47.73	4.084	
10,600.0	10,571.7	10,598.9	10,573.1	37.8	12.5	63.31	-482.9	609.6	191.0	142.7	48.30	3.954	
10,700.0	10,671.4	10,698.6	10,672.8	38.1	12.6	65.60	-482.9	609.6	187.3	138.4	48.88	3.832	
10,800.0	10,771.0	10,798.2	10,772.4	38.5	12.7	67.99	-482.9	609.6	184.0	134.5	49.47	3.719	
10,900.0	10,870.7	10,897.9	10,872.1	38.9	12.8	70.46	-482.9	609.6	181.0	130.9	50.07	3.614	
11,000.0	10,970.3	10,997.5	10,971.7	39.2	12.9	73.00	-482.9	609.6	178.3	127.7	50.68	3.519	
11,100.0	11,070.0	11,097.2	11,071.4	39.6	13.0	75.62	-482.9	609.6	176.0	124.8	51.30	3.432	
11,200.0	11,169.6	11,196.8	11,171.0	39.9	13.0	78.30	-482.9	609.6	174.1	122.2	51.91	3.355	
11,300.0	11,269.2	11,296.5	11,270.6	40.3	13.1	81.03	-482.9	609.6	172.6	120.1	52.52	3.286	
11,400.0	11,368.9	11,396.1	11,370.3	40.7	13.2	83.80	-482.9	609.6	171.5	118.4	53.13	3.228	
11,500.0	11,468.5	11,495.7	11,469.9	41.0	13.3	86.60	-482.9	609.6	170.8	117.1	53.73	3.179	
11,600.0	11,568.2	11,595.4	11,569.6	41.4	13.4	89.42	-482.9	609.6	170.5	116.2	54.32	3.139	
11,620.4	11,588.5	11,615.7	11,589.9	41.5	13.4	90.00	-482.9	609.6	170.5	116.0	54.44	3.132	
11,700.0	11,667.8	11,695.0	11,669.2	41.8	13.5	92.25	-482.9	609.6	170.6	115.7	54.90	3.108	
11,800.0	11,767.5	11,794.7	11,768.9	42.1	13.6	95.06	-482.9	609.6	171.2	115.7	55.47	3.086	
11,900.0	11,867.1	11,894.3	11,868.5	42.5	13.7	97.84	-482.9	609.6	172.1	116.1	56.01	3.073	
12,000.0	11,966.7	11,994.0	11,968.1	42.8	13.8	100.60	-482.9	609.6	173.5	116.9	56.54	3.068	
12,100.0	12,066.4	12,093.6	12,067.8	43.2	13.9	103.30	-482.9	609.6	175.2	118.2	57.05	3.071	
12,200.0	12,166.0	12,193.2	12,167.4	43.6	14.0	105.94	-482.9	609.6	177.4	119.8	57.54	3.082	
12,300.0	12,265.7	12,292.9	12,267.1	43.9	14.1	108.52	-482.9	609.6	179.9	121.9	58.01	3.101	
12,400.0	12,365.3	12,392.5	12,366.7	44.3	14.2	111.01	-482.9	609.6	182.7	124.3	58.46	3.125	
12,500.0	12,465.0	12,492.2	12,466.4	44.7	14.3	113.43	-482.9	609.6	185.9	127.0	58.90	3.157	
12,534.2	12,499.0	12,532.9	12,507.0	44.8	14.3	114.49	-482.4	609.7	186.8	127.7	59.08	3.162	
12,550.0	12,514.8	12,555.6	12,529.7	44.8	14.3	98.77	-480.9	610.0	186.4	127.2	59.21	3.148	
12,575.0	12,539.6	12,590.4	12,564.2	44.9	14.3	85.87	-476.5	611.0	183.9	124.5	59.42	3.095	
12,600.0	12,564.2	12,623.4	12,596.6	45.0	14.3	81.20	-470.1	612.4	179.6	120.0	59.61	3.012	
12,625.0	12,588.7	12,654.0	12,626.1	45.1	14.3	80.87	-462.3	614.2	173.8	114.1	59.76	2.909	
12,650.0	12,612.8	12,681.7	12,652.3	45.2	14.3	83.12	-453.5	616.1	167.2	107.4	59.82	2.796	
12,675.0	12,636.5	12,706.5	12,675.3	45.3	14.3	86.93	-444.5	618.1	160.5	100.7	59.75	2.685	
12,700.0	12,659.9	12,728.1	12,695.0	45.4	14.3	91.54	-435.7	620.0	154.3	94.8	59.51	2.592	
12,725.0	12,682.7	12,746.9	12,711.6	45.5	14.4	96.29	-427.4	621.9	149.5	90.4	59.06	2.531	
12,750.0	12,705.0	12,762.8	12,725.5	45.5	14.4	100.67	-419.8	623.6	146.9	88.5	58.41	2.515 ES, SF	
12,759.8	12,713.6	12,768.4	12,730.3	45.6	14.4	102.21	-417.0	624.2	146.7	88.5	58.13	2.523 CC	
12,775.0	12,726.7	12,776.2	12,737.0	45.6	14.4	104.34	-413.0	625.1	147.3	89.6	57.68	2.553	
12,800.0	12,747.7	12,787.2	12,746.3	45.7	14.4	107.10	-407.3	626.3	151.0	93.9	57.04	2.647	
12,825.0	12,768.0	12,796.2	12,753.8	45.8	14.4	108.87	-402.4	627.4	158.1	101.5	56.66	2.791	
12,850.0	12,787.5	12,803.2	12,759.6	45.9	14.4	109.63	-398.5	628.3	168.6	112.0	56.60	2.979	
12,875.0	12,806.2	12,808.6	12,763.9	45.9	14.4	109.40	-395.5	628.9	181.9	125.1	56.75	3.205	
12,900.0	12,823.9	12,812.4	12,767.1	46.0	14.4	108.16	-393.3	629.4	197.6	140.6	57.01	3.466	
12,925.0	12,840.8	12,814.9	12,769.1	46.1	14.4	105.94	-391.8	629.7	215.1	157.8	57.29	3.755	
12,950.0	12,856.6	12,816.3	12,770.2	46.2	14.4	102.73	-391.1	629.9	234.2	176.6	57.56	4.069	
12,975.0	12,871.4	12,816.5	12,770.4	46.2	14.4	98.54	-390.9	629.9	254.4	196.6	57.79	4.402	
13,000.0	12,885.1	12,815.9	12,769.8	46.3	14.4	93.44	-391.3	629.9	275.4	217.4	57.99	4.749	
13,025.0	12,897.8	12,814.4	12,768.6	46.4	14.4	87.56	-392.2	629.7	297.0	238.8	58.16	5.106	
13,050.0	12,909.3	12,812.1	12,766.8	46.4	14.4	81.12	-393.5	629.4	319.0	260.7	58.29	5.472	
13,075.0	12,919.6	12,809.1	12,764.4	46.5	14.4	74.38	-395.2	629.0	341.2	282.8	58.41	5.842	
13,100.0	12,928.7	12,805.6	12,761.5	46.5	14.4	67.67	-397.2	628.6	363.6	305.1	58.50	6.215	
13,125.0	12,936.6	12,800.0	12,756.9	46.6	14.4	60.89	-400.3	627.9	386.0	327.4	58.59	6.588	
13,150.0	12,943.2	12,800.0	12,756.9	46.6	14.4	56.02	-400.3	627.9	408.3	349.7	58.61	6.966	
13,175.0	12,948.6	12,791.8	12,750.1	46.7	14.4	50.05	-404.8	626.9	430.4	371.7	58.68	7.335	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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												Offset Site Error:	3.0 usft
GREEN EYESHAD FE D PROJECT - GREEN EYESHAD FE D COM #701H - OWB - PWP1												Offset Well Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12511-MWD+IFR1+FDIR													
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
13,200.0	12,952.7	12,786.3	12,745.6	46.7	14.4	45.39	-407.7	626.2	452.3	393.6	58.71	7.704	
13,225.0	12,955.5	12,775.0	12,736.0	46.8	14.4	40.72	-413.6	624.9	474.0	415.3	58.77	8.066	
13,250.0	12,957.0	12,775.0	12,736.0	46.8	14.4	37.93	-413.6	624.9	495.3	436.5	58.75	8.431	
13,275.0	12,957.2	12,767.8	12,729.8	46.9	14.4	34.86	-417.3	624.1	516.2	457.5	58.76	8.786	
13,284.0	12,957.0	12,765.4	12,727.8	46.9	14.4	33.89	-418.5	623.8	523.7	464.9	58.76	8.913	
13,300.0	12,956.4	12,761.1	12,724.1	46.9	14.4	33.58	-420.6	623.4	536.9	478.1	58.76	9.137	
13,400.0	12,952.7	12,737.1	12,703.0	47.1	14.3	31.91	-431.8	620.9	621.3	562.5	58.76	10.574	
13,500.0	12,949.0	12,716.7	12,684.6	47.3	14.3	30.57	-440.5	619.0	708.2	649.5	58.75	12.055	
13,600.0	12,945.3	12,700.0	12,669.3	47.5	14.3	29.53	-447.0	617.5	797.2	738.5	58.74	13.573	
13,700.0	12,941.6	12,684.2	12,654.6	47.7	14.3	28.58	-452.7	616.3	887.8	829.1	58.74	15.115	
13,800.0	12,937.9	12,675.0	12,646.0	47.9	14.3	28.05	-455.8	615.6	979.7	921.0	58.71	16.687	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12476-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	2.4	2.4	3.0	4.2	-174.60	-533.3	-50.4	535.7				
100.0	100.0	102.4	102.4	3.0	4.2	-174.60	-533.3	-50.4	535.7	528.4	7.25	73.932	
200.0	200.0	202.4	202.4	3.0	4.2	-174.60	-533.3	-50.4	535.7	528.4	7.29	73.529	
300.0	300.0	302.4	302.4	3.1	4.3	-174.60	-533.3	-50.4	535.7	528.3	7.37	72.682	
400.0	400.0	402.4	402.4	3.2	4.3	-174.60	-533.3	-50.4	535.7	528.2	7.50	71.450	
500.0	500.0	502.4	502.4	3.4	4.3	-174.60	-533.3	-50.4	535.7	528.0	7.66	69.909	
600.0	600.0	602.4	602.4	3.6	4.3	-174.60	-533.3	-50.4	535.7	527.8	7.86	68.138	
700.0	700.0	702.4	702.4	3.8	4.3	-174.60	-533.3	-50.4	535.7	527.6	8.09	66.211	
800.0	800.0	802.4	802.4	4.0	4.4	-174.60	-533.3	-50.4	535.7	527.3	8.34	64.194	
900.0	900.0	902.4	902.4	4.2	4.4	-174.60	-533.3	-50.4	535.7	527.1	8.62	62.137	
1,000.0	1,000.0	1,002.4	1,002.4	4.5	4.4	-174.60	-533.3	-50.4	535.7	526.8	8.92	60.080	
1,100.0	1,100.0	1,102.4	1,102.4	4.8	4.5	-174.60	-533.3	-50.4	535.7	526.4	9.23	58.051	
1,200.0	1,200.0	1,202.4	1,202.4	5.1	4.5	-174.60	-533.3	-50.4	535.7	526.1	9.55	56.072	
1,300.0	1,300.0	1,302.4	1,302.4	5.3	4.5	-174.60	-533.3	-50.4	535.7	525.8	9.89	54.155	
1,400.0	1,400.0	1,402.4	1,402.4	5.6	4.6	-174.60	-533.3	-50.4	535.7	525.4	10.24	52.310	
1,500.0	1,500.0	1,502.4	1,502.4	6.0	4.6	-174.60	-533.3	-50.4	535.7	525.1	10.60	50.540	
1,600.0	1,600.0	1,602.4	1,602.4	6.3	4.7	-174.60	-533.3	-50.4	535.7	524.7	10.97	48.847	
1,700.0	1,700.0	1,702.4	1,702.4	6.6	4.8	-174.60	-533.3	-50.4	535.7	524.3	11.34	47.232	
1,800.0	1,800.0	1,802.4	1,802.4	6.9	4.8	-174.60	-533.3	-50.4	535.7	524.0	11.72	45.694	
1,900.0	1,900.0	1,902.4	1,902.4	7.2	4.9	-174.60	-533.3	-50.4	535.7	523.6	12.11	44.229	
2,000.0	2,000.0	2,002.4	2,002.4	7.6	5.0	-174.60	-533.3	-50.4	535.7	523.2	12.51	42.836	
2,100.0	2,100.0	2,102.4	2,102.4	7.9	5.0	-174.60	-533.3	-50.4	535.7	522.8	12.90	41.511	
2,200.0	2,200.0	2,202.4	2,202.4	8.2	5.1	-174.60	-533.3	-50.4	535.7	522.4	13.31	40.250	
2,300.0	2,300.0	2,302.4	2,302.4	8.6	5.2	-174.60	-533.3	-50.4	535.7	522.0	13.72	39.052	
2,400.0	2,400.0	2,402.4	2,402.4	8.9	5.2	-174.60	-533.3	-50.4	535.7	521.5	14.13	37.912	
2,500.0	2,500.0	2,502.9	2,502.9	9.2	5.3	-174.60	-533.3	-50.4	535.7	521.1	14.55	36.826	
2,600.0	2,600.0	2,622.1	2,622.1	9.6	5.4	70.07	-530.9	-51.5	533.2	518.2	14.96	35.652	
2,700.0	2,699.8	2,734.1	2,733.8	9.9	5.5	71.16	-524.8	-54.2	526.2	510.8	15.34	34.304	
2,741.8	2,741.5	2,775.5	2,775.1	10.0	5.5	71.73	-522.1	-55.4	522.6	507.1	15.50	33.716	
2,800.0	2,799.5	2,833.1	2,832.6	10.2	5.6	72.47	-518.5	-57.0	517.7	501.9	15.73	32.915	
2,900.0	2,899.1	2,932.0	2,931.3	10.5	5.7	73.78	-512.2	-59.9	509.3	493.2	16.12	31.601	
3,000.0	2,998.8	3,031.0	3,030.0	10.8	5.7	75.13	-505.9	-62.7	501.2	484.7	16.51	30.363	
3,100.0	3,098.4	3,129.9	3,128.7	11.2	5.8	76.53	-499.5	-65.5	493.5	476.6	16.90	29.200	
3,200.0	3,198.1	3,228.9	3,227.4	11.5	5.9	77.96	-493.2	-68.3	486.0	468.7	17.29	28.106	
3,300.0	3,297.7	3,327.8	3,326.1	11.8	6.0	79.45	-486.9	-71.1	478.8	461.1	17.68	27.080	
3,400.0	3,397.4	3,426.8	3,424.8	12.2	6.1	80.97	-480.6	-73.9	472.0	453.9	18.07	26.118	
3,500.0	3,497.0	3,525.7	3,523.5	12.5	6.2	82.54	-474.3	-76.7	465.5	447.0	18.46	25.218	
3,600.0	3,596.7	3,624.7	3,622.3	12.9	6.3	84.15	-468.0	-79.6	459.4	440.5	18.85	24.376	
3,700.0	3,696.3	3,723.6	3,721.0	13.2	6.3	85.80	-461.7	-82.4	453.7	434.4	19.23	23.591	
3,800.0	3,795.9	3,822.6	3,819.7	13.5	6.4	87.49	-455.4	-85.2	448.3	428.7	19.61	22.860	
3,900.0	3,895.6	3,921.5	3,918.4	13.9	6.5	89.22	-449.1	-88.0	443.4	423.4	19.99	22.181	
4,000.0	3,995.2	4,020.5	4,017.1	14.2	6.6	90.99	-442.8	-90.8	438.8	418.5	20.36	21.551	
4,100.0	4,094.9	4,119.4	4,115.8	14.6	6.7	92.79	-436.5	-93.6	434.8	414.0	20.73	20.968	
4,200.0	4,194.5	4,218.4	4,214.5	14.9	6.8	94.62	-430.2	-96.5	431.1	410.0	21.10	20.431	
4,300.0	4,294.2	4,317.3	4,313.2	15.3	6.9	96.48	-423.9	-99.3	427.9	406.5	21.46	19.936	
4,400.0	4,393.8	4,416.3	4,411.9	15.6	7.0	98.37	-417.6	-102.1	425.2	403.4	21.82	19.483	
4,500.0	4,493.5	4,515.2	4,510.7	15.9	7.1	100.27	-411.3	-104.9	423.0	400.8	22.18	19.068	
4,600.0	4,593.1	4,614.2	4,609.4	16.3	7.2	102.20	-405.0	-107.7	421.2	398.7	22.53	18.692	
4,700.0	4,692.7	4,713.1	4,708.1	16.6	7.3	104.14	-398.7	-110.5	419.9	397.0	22.88	18.350	
4,800.0	4,792.4	4,812.1	4,806.8	17.0	7.4	106.09	-392.4	-113.4	419.2	395.9	23.23	18.042	
4,900.0	4,892.0	4,911.0	4,905.5	17.3	7.5	108.04	-386.1	-116.2	418.9	395.3	23.58	17.765	
4,906.5	4,898.5	4,917.5	4,911.9	17.4	7.5	108.17	-385.7	-116.4	418.9	395.3	23.60	17.749 CC	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12476-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.7	5,010.0	5,004.2	17.7	7.6	110.00	-379.8	-119.0	419.1	395.2	23.92	17.519 ES	
5,100.0	5,091.3	5,109.0	5,102.9	18.0	7.7	111.95	-373.5	-121.8	419.8	395.5	24.27	17.300	
5,200.0	5,191.0	5,207.9	5,201.6	18.4	7.8	113.89	-367.2	-124.6	421.0	396.4	24.61	17.108	
5,300.0	5,290.6	5,306.9	5,300.3	18.7	7.9	115.81	-360.9	-127.4	422.7	397.8	24.95	16.939	
5,400.0	5,390.2	5,405.8	5,399.1	19.1	8.0	117.72	-354.6	-130.3	424.9	399.6	25.30	16.794	
5,500.0	5,489.9	5,504.8	5,497.8	19.5	8.2	119.61	-348.3	-133.1	427.5	401.9	25.65	16.670	
5,600.0	5,589.5	5,603.7	5,596.5	19.8	8.3	121.48	-342.0	-135.9	430.7	404.7	26.00	16.564	
5,700.0	5,689.2	5,702.7	5,695.2	20.2	8.4	123.31	-335.7	-138.7	434.3	407.9	26.36	16.477	
5,800.0	5,788.8	5,801.6	5,793.9	20.5	8.5	125.12	-329.4	-141.5	438.3	411.6	26.71	16.406	
5,900.0	5,888.5	5,900.6	5,892.6	20.9	8.6	126.89	-323.1	-144.3	442.8	415.7	27.08	16.350	
6,000.0	5,988.1	5,999.5	5,991.3	21.2	8.7	128.62	-316.8	-147.2	447.6	420.2	27.45	16.308	
6,100.0	6,087.8	6,098.5	6,090.0	21.6	8.8	130.32	-310.5	-150.0	452.9	425.1	27.83	16.277	
6,200.0	6,187.4	6,197.4	6,188.7	21.9	8.9	131.98	-304.2	-152.8	458.6	430.4	28.21	16.258	
6,300.0	6,287.0	6,296.4	6,287.5	22.3	9.0	133.59	-297.9	-155.6	464.7	436.1	28.60	16.250 SF	
6,400.0	6,386.7	6,395.3	6,386.2	22.7	9.1	135.17	-291.6	-158.4	471.1	442.1	28.99	16.250	
6,500.0	6,486.3	6,494.3	6,484.9	23.0	9.3	136.70	-285.3	-161.2	477.9	448.5	29.39	16.259	
6,600.0	6,586.0	6,593.2	6,583.6	23.4	9.4	138.18	-279.0	-164.0	485.0	455.2	29.80	16.275	
6,700.0	6,685.6	6,692.2	6,682.3	23.7	9.5	139.63	-272.7	-166.9	492.5	462.2	30.22	16.298	
6,800.0	6,785.3	6,791.1	6,781.0	24.1	9.6	141.03	-266.4	-169.7	500.2	469.6	30.64	16.327	
6,900.0	6,884.9	6,890.1	6,879.7	24.4	9.7	142.38	-260.1	-172.5	508.2	477.2	31.06	16.361	
7,000.0	6,984.6	6,989.0	6,978.4	24.8	9.8	143.70	-253.8	-175.3	516.6	485.1	31.50	16.401	
7,100.0	7,084.2	7,088.0	7,077.1	25.2	9.9	144.97	-247.5	-178.1	525.1	493.2	31.93	16.445	
7,200.0	7,183.8	7,186.9	7,175.9	25.5	10.1	146.21	-241.2	-180.9	534.0	501.6	32.38	16.493	
7,300.0	7,283.5	7,285.9	7,274.6	25.9	10.2	147.40	-234.9	-183.8	543.0	510.2	32.82	16.544	
7,400.0	7,383.1	7,384.8	7,373.3	26.2	10.3	148.55	-228.6	-186.6	552.3	519.1	33.28	16.599	
7,500.0	7,482.8	7,485.8	7,474.0	26.6	10.4	149.66	-222.4	-189.3	561.8	528.0	33.74	16.652	
7,600.0	7,582.4	7,588.5	7,576.6	26.9	10.5	150.59	-217.7	-191.4	570.8	536.6	34.19	16.693	
7,700.0	7,682.1	7,691.6	7,679.6	27.3	10.6	151.32	-214.7	-192.8	579.3	544.7	34.64	16.723	
7,800.0	7,781.7	7,795.0	7,783.0	27.7	10.8	151.86	-213.4	-193.4	587.3	552.2	35.09	16.737	
7,900.0	7,881.3	7,895.7	7,883.7	28.0	10.9	152.25	-213.3	-193.4	594.7	559.2	35.51	16.747	
8,000.0	7,981.0	7,995.4	7,983.4	28.4	11.0	152.63	-213.3	-193.4	602.2	566.3	35.93	16.760	
8,100.0	8,080.6	8,095.0	8,083.0	28.7	11.1	152.99	-213.3	-193.4	609.7	573.4	36.35	16.772	
8,200.0	8,180.3	8,194.7	8,182.7	29.1	11.2	153.35	-213.3	-193.4	617.3	580.5	36.77	16.785	
8,300.0	8,279.9	8,294.3	8,282.3	29.5	11.4	153.69	-213.3	-193.4	624.8	587.6	37.20	16.798	
8,400.0	8,379.6	8,394.0	8,382.0	29.8	11.5	154.03	-213.3	-193.4	632.4	594.8	37.62	16.811	
8,500.0	8,479.2	8,493.6	8,481.6	30.2	11.6	154.36	-213.3	-193.4	640.0	601.9	38.04	16.823	
8,600.0	8,578.9	8,593.2	8,581.3	30.5	11.7	154.69	-213.3	-193.4	647.6	609.1	38.46	16.836	
8,700.0	8,678.5	8,692.9	8,680.9	30.9	11.8	155.00	-213.3	-193.4	655.2	616.3	38.89	16.849	
8,800.0	8,778.1	8,792.5	8,780.5	31.3	12.0	155.31	-213.3	-193.4	662.9	623.6	39.31	16.862	
8,900.0	8,877.8	8,892.2	8,880.2	31.6	12.1	155.61	-213.3	-193.4	670.6	630.8	39.74	16.875	
9,000.0	8,977.4	8,991.8	8,979.8	32.0	12.2	155.90	-213.3	-193.4	678.2	638.1	40.16	16.888	
9,100.0	9,077.1	9,091.5	9,079.5	32.3	12.3	156.19	-213.3	-193.4	686.0	645.4	40.59	16.900	
9,200.0	9,176.7	9,191.1	9,179.1	32.7	12.4	156.47	-213.3	-193.4	693.7	652.7	41.01	16.913	
9,300.0	9,276.4	9,290.8	9,278.8	33.1	12.6	156.75	-213.3	-193.4	701.4	660.0	41.44	16.926	
9,400.0	9,376.0	9,390.4	9,378.4	33.4	12.7	157.01	-213.3	-193.4	709.2	667.3	41.87	16.938	
9,500.0	9,475.6	9,490.0	9,478.0	33.8	12.8	157.28	-213.3	-193.4	717.0	674.7	42.30	16.951	
9,600.0	9,575.3	9,589.7	9,577.7	34.2	12.9	157.53	-213.3	-193.4	724.7	682.0	42.72	16.963	
9,700.0	9,674.9	9,689.3	9,677.3	34.5	13.0	157.79	-213.3	-193.4	732.6	689.4	43.15	16.976	
9,800.0	9,774.6	9,789.0	9,772.0	34.9	13.2	158.03	-213.3	-193.4	740.4	696.8	43.58	16.988	
9,900.0	9,874.2	9,888.6	9,876.6	35.2	13.3	158.27	-213.3	-193.4	748.2	704.2	44.01	17.000	
10,000.0	9,973.9	9,988.3	9,976.3	35.6	13.4	158.51	-213.3	-193.4	756.0	711.6	44.44	17.013	
10,100.0	10,073.5	10,087.9	10,075.9	36.0	13.5	158.74	-213.3	-193.4	763.9	719.0	44.87	17.025	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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 GREEN EYESHAD FED PROJECT - GREEN EYESHAD FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 12476-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.0	10,173.2	10,187.6	10,175.6	36.3	13.7	158.97	-213.3	-193.4	771.8	726.5	45.30	17.037	
10,300.0	10,272.8	10,287.2	10,275.2	36.7	13.8	159.19	-213.3	-193.4	779.6	733.9	45.73	17.049	
10,400.0	10,372.4	10,386.8	10,374.8	37.0	13.9	159.41	-213.3	-193.4	787.5	741.4	46.16	17.060	
10,500.0	10,472.1	10,486.5	10,474.5	37.4	14.0	159.62	-213.3	-193.4	795.4	748.8	46.59	17.072	
10,600.0	10,571.7	10,586.1	10,574.1	37.8	14.1	159.83	-213.3	-193.4	803.3	756.3	47.02	17.084	
10,700.0	10,671.4	10,685.8	10,673.8	38.1	14.3	160.04	-213.3	-193.4	811.3	763.8	47.46	17.095	
10,800.0	10,771.0	10,785.4	10,773.4	38.5	14.4	160.24	-213.3	-193.4	819.2	771.3	47.89	17.107	
10,900.0	10,870.7	10,885.1	10,873.1	38.9	14.5	160.44	-213.3	-193.4	827.1	778.8	48.32	17.118	
11,000.0	10,970.3	10,984.7	10,972.7	39.2	14.6	160.63	-213.3	-193.4	835.1	786.3	48.75	17.129	
11,100.0	11,070.0	11,084.3	11,072.4	39.6	14.8	160.82	-213.3	-193.4	843.1	793.9	49.19	17.140	
11,200.0	11,169.6	11,184.0	11,172.0	39.9	14.9	161.01	-213.3	-193.4	851.0	801.4	49.62	17.151	
11,300.0	11,269.2	11,283.6	11,271.6	40.3	15.0	161.19	-213.3	-193.4	859.0	809.0	50.05	17.162	
11,400.0	11,368.9	11,383.3	11,371.3	40.7	15.1	161.37	-213.3	-193.4	867.0	816.5	50.49	17.173	
11,500.0	11,468.5	11,482.9	11,470.9	41.0	15.3	161.55	-213.3	-193.4	875.0	824.1	50.92	17.183	
11,600.0	11,568.2	11,582.6	11,570.6	41.4	15.4	161.72	-213.3	-193.4	883.0	831.6	51.36	17.194	
11,700.0	11,667.8	11,682.2	11,670.2	41.8	15.5	161.89	-213.3	-193.4	891.0	839.2	51.79	17.204	
11,800.0	11,767.5	11,781.9	11,769.9	42.1	15.6	162.06	-213.3	-193.4	899.0	846.8	52.23	17.214	
11,900.0	11,867.1	11,881.5	11,869.5	42.5	15.8	162.22	-213.3	-193.4	907.1	854.4	52.66	17.225	
12,000.0	11,966.7	11,981.1	11,969.1	42.8	15.9	162.38	-213.3	-193.4	915.1	862.0	53.10	17.235	
12,100.0	12,066.4	12,080.8	12,068.8	43.2	16.0	162.54	-213.3	-193.4	923.1	869.6	53.53	17.245	
12,200.0	12,166.0	12,180.4	12,168.4	43.6	16.1	162.69	-213.3	-193.4	931.2	877.2	53.97	17.255	
12,300.0	12,265.7	12,280.1	12,268.1	43.9	16.3	162.85	-213.3	-193.4	939.2	884.8	54.40	17.264	
12,400.0	12,365.3	12,379.7	12,367.7	44.3	16.4	163.00	-213.3	-193.4	947.3	892.5	54.84	17.274	
12,500.0	12,465.0	12,479.5	12,464.5	44.7	16.5	163.14	-213.3	-193.4	955.4	900.1	55.25	17.292	
12,534.2	12,499.0	12,504.3	12,492.3	44.8	16.5	163.23	-212.5	-193.4	958.3	902.9	55.38	17.305	
12,550.0	12,514.8	12,516.0	12,504.0	44.8	16.5	146.45	-211.7	-193.4	959.8	904.4	55.44	17.313	
12,575.0	12,539.6	12,534.3	12,522.2	44.9	16.5	130.99	-209.8	-193.4	962.5	907.0	55.54	17.328	
12,600.0	12,564.2	12,550.0	12,537.7	45.0	16.5	122.63	-207.7	-193.4	965.6	909.9	55.66	17.348	
12,625.0	12,588.7	12,568.9	12,556.3	45.1	16.5	117.68	-204.4	-193.5	969.1	913.3	55.79	17.371	
12,650.0	12,612.8	12,585.0	12,572.0	45.2	16.5	114.39	-201.0	-193.5	973.1	917.1	55.93	17.399	
12,675.0	12,636.5	12,600.0	12,586.6	45.3	16.5	112.05	-197.4	-193.5	977.5	921.4	56.07	17.433	
12,700.0	12,659.9	12,613.9	12,600.0	45.4	16.5	110.26	-193.7	-193.5	982.4	926.2	56.23	17.473	
12,725.0	12,682.7	12,625.0	12,610.6	45.5	16.5	108.74	-190.4	-193.6	987.9	931.5	56.39	17.520	
12,750.0	12,705.0	12,638.3	12,623.2	45.5	16.5	107.55	-186.2	-193.6	994.0	937.4	56.56	17.573	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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												Offset Site Error:	0.0 usft
Survey Program: 70-MWD, 1292-Standard Keeper 104, 11808-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	
12,775.0	12,726.7	20,778.5	12,807.7	45.6	72.5	-86.01	-444.0	1,763.1	998.4	880.8	117.63	8.487	
12,800.0	12,747.7	20,790.3	12,807.4	45.7	72.6	-86.56	-455.7	1,763.0	994.4	876.5	117.93	8.432	
12,825.0	12,768.0	20,803.1	12,807.0	45.8	72.8	-86.91	-468.6	1,762.9	990.9	872.7	118.21	8.383	
12,850.0	12,787.5	20,817.0	12,806.7	45.9	72.9	-87.07	-482.4	1,762.8	988.0	869.5	118.49	8.338	
12,875.0	12,806.2	20,831.8	12,806.3	45.9	73.0	-87.09	-497.2	1,762.7	985.5	866.8	118.76	8.299	
12,900.0	12,823.9	20,847.5	12,805.9	46.0	73.1	-86.99	-512.9	1,762.6	983.5	864.5	119.02	8.264	
12,925.0	12,840.8	20,864.0	12,805.6	46.1	73.3	-86.80	-529.4	1,762.6	981.9	862.7	119.27	8.233	
12,950.0	12,856.6	20,881.0	12,805.2	46.2	73.4	-86.54	-546.4	1,762.5	980.7	861.2	119.51	8.206	
12,975.0	12,871.4	20,898.9	12,804.9	46.2	73.6	-86.21	-564.3	1,762.5	979.8	860.1	119.75	8.182	
13,000.0	12,885.1	20,917.6	12,804.7	46.3	73.7	-85.85	-582.9	1,762.6	979.2	859.2	119.99	8.161	
13,025.0	12,897.8	20,937.0	12,804.5	46.4	73.9	-85.46	-602.3	1,762.7	978.9	858.7	120.22	8.142	
13,050.0	12,909.3	20,956.9	12,804.3	46.4	74.1	-85.06	-622.3	1,762.8	978.8	858.3	120.46	8.126	
13,055.1	12,911.5	20,961.0	12,804.3	46.4	74.1	-84.98	-626.4	1,762.8	978.8	858.3	120.50	8.122	
13,075.0	12,919.6	20,977.2	12,804.3	46.5	74.2	-84.67	-642.6	1,763.0	978.8	858.1	120.68	8.110	
13,100.0	12,928.7	20,998.1	12,804.3	46.5	74.4	-84.30	-663.5	1,763.2	979.0	858.1	120.91	8.097	
13,125.0	12,936.6	21,019.5	12,804.5	46.6	74.6	-83.96	-684.9	1,763.6	979.3	858.1	121.14	8.084	
13,150.0	12,943.2	21,044.0	12,804.7	46.6	74.8	-83.62	-709.4	1,764.0	979.7	858.3	121.39	8.070	
13,175.0	12,948.6	21,062.7	12,805.0	46.7	75.0	-83.40	-728.0	1,764.4	980.1	858.5	121.60	8.060	
13,200.0	12,952.7	21,084.2	12,805.5	46.7	75.2	-83.21	-749.6	1,765.0	980.6	858.7	121.82	8.049	
13,225.0	12,955.5	21,106.0	12,806.0	46.8	75.3	-83.06	-771.3	1,765.6	981.1	859.0	122.04	8.039	
13,250.0	12,957.0	21,127.8	12,806.7	46.8	75.5	-82.98	-793.1	1,766.3	981.6	859.3	122.27	8.028	
13,275.0	12,957.2	21,158.5	12,807.7	46.9	75.8	-82.98	-823.8	1,767.4	982.1	859.5	122.57	8.012	
13,284.0	12,957.0	21,172.9	12,808.1	46.9	75.9	-83.01	-838.2	1,767.7	982.2	859.5	122.71	8.004	
13,300.0	12,956.4	21,198.5	12,808.8	46.9	76.1	-83.11	-863.8	1,768.2	982.2	859.3	122.96	7.988	
13,400.0	12,952.7	21,338.4	12,812.0	47.1	77.3	-83.58	-1,003.6	1,766.9	979.8	855.5	124.24	7.886	
13,500.0	12,949.0	21,460.9	12,809.9	47.3	78.4	-83.67	-1,125.9	1,760.5	973.5	848.1	125.35	7.766	
13,600.0	12,945.3	21,550.3	12,807.3	47.5	79.1	-83.68	-1,215.2	1,756.0	967.5	841.1	126.35	7.657	
13,700.0	12,941.6	21,648.0	12,804.8	47.7	80.0	-83.71	-1,312.7	1,751.6	962.1	834.7	127.39	7.552	
13,800.0	12,937.9	21,738.3	12,802.2	47.9	80.7	-83.72	-1,402.9	1,747.6	957.0	828.6	128.42	7.452	
13,900.0	12,934.2	21,818.2	12,798.8	48.2	81.4	-83.68	-1,482.7	1,745.7	953.8	824.4	129.40	7.371	
14,000.0	12,930.5	21,913.4	12,794.8	48.4	82.2	-83.64	-1,577.8	1,744.6	951.9	821.4	130.47	7.296	
14,100.0	12,926.8	22,014.0	12,792.2	48.7	83.1	-83.70	-1,678.3	1,743.7	950.2	818.6	131.59	7.221	
14,200.0	12,923.1	22,112.0	12,791.2	48.9	83.9	-83.85	-1,776.4	1,742.9	948.3	815.6	132.71	7.146	
14,300.0	12,919.4	22,200.5	12,792.9	49.2	84.7	-84.14	-1,864.8	1,743.3	947.4	813.6	133.79	7.081	
14,331.1	12,918.2	22,228.3	12,793.9	49.3	84.9	-84.26	-1,892.7	1,743.7	947.3	813.2	134.13	7.063 CC	
14,400.0	12,915.7	22,287.8	12,796.4	49.5	85.4	-84.55	-1,952.1	1,744.9	947.6	812.7	134.86	7.026 ES	
14,500.0	12,912.0	22,367.9	12,797.0	49.9	86.1	-84.78	-2,032.1	1,747.5	949.7	813.8	135.86	6.990	
14,600.0	12,908.3	22,465.7	12,795.0	50.2	86.9	-84.89	-2,129.8	1,751.6	952.9	815.9	137.03	6.954	
14,700.0	12,904.6	22,556.0	12,793.8	50.5	87.7	-85.04	-2,220.0	1,755.9	956.7	818.6	138.13	6.926	
14,800.0	12,900.9	22,632.6	12,793.4	50.9	88.4	-85.21	-2,296.4	1,760.9	962.2	823.1	139.06	6.919	
14,900.0	12,897.2	22,724.1	12,792.0	51.2	89.1	-85.36	-2,387.5	1,768.6	969.6	829.4	140.17	6.917 SF	
15,000.0	12,893.5	22,807.8	12,789.1	51.6	89.9	-85.40	-2,470.9	1,776.3	977.9	836.7	141.18	6.927	
15,100.0	12,889.8	22,904.4	12,786.0	52.0	90.7	-85.47	-2,566.8	1,786.5	987.7	845.3	142.38	6.937	
15,200.0	12,886.1	22,993.6	12,783.4	52.4	91.5	-85.55	-2,655.5	1,796.0	997.5	854.0	143.47	6.953	

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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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=30' @ 3409.2usft (TBD)

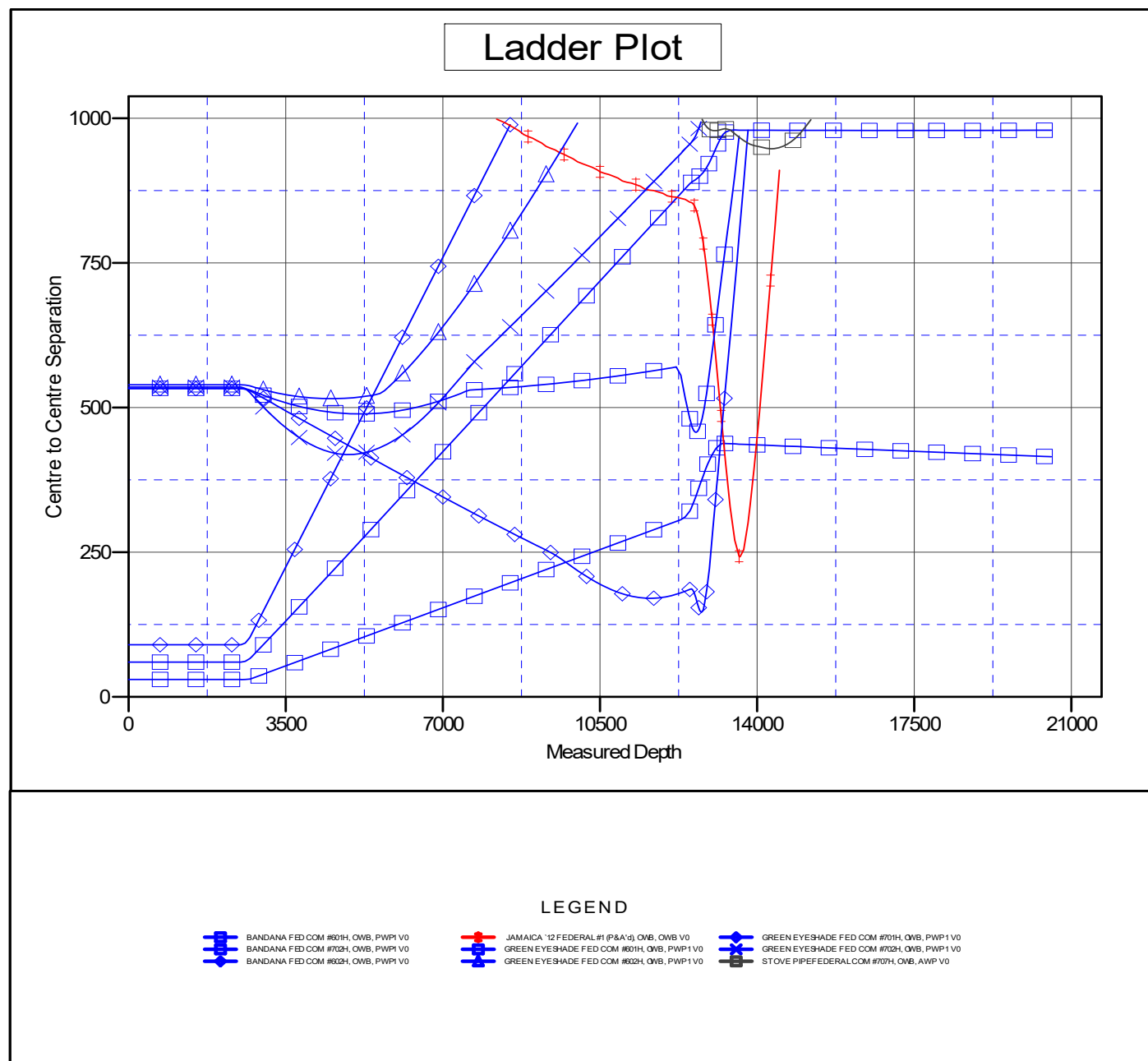
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FED COM #701H

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

Grid Convergence at Surface is: 0.49°



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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FED COM #701H	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=30' @ 3409.2usft (TBD)

Offset Depths are relative to Offset Datum

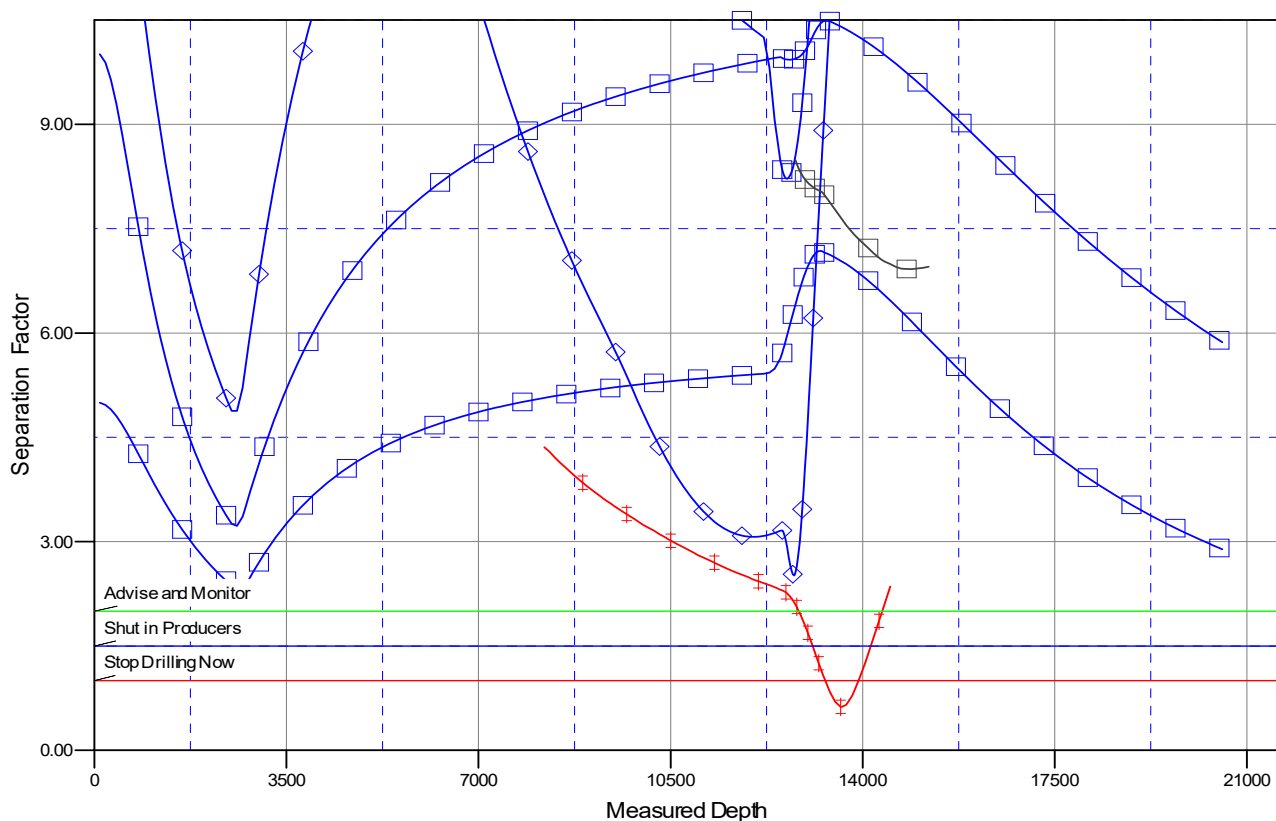
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FED COM #701H

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

Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

BANDANA FED COM #601H, OWB, PWP1 V0
BANDANA FED COM #702H, OWB, PWP1 V0
BANDANA FED COM #802H, OWB, PWP1 V0

JAMAICA 12 FEDERAL #1 (P&A'd), OWB, OWB V0
GREEN EYESHAD FED COM #601H, OWB, PWP1 V0
GREEN EYESHAD FED COM #702H, OWB, PWP1 V0

GREEN EYESHAD FED COM #701H, OWB, PWP1 V0
GREEN EYESHAD FED COM #702H, OWB, PWP1 V0
STOVE PIPE FEDERAL COM #707H, OWB, AWP V0

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
BANDANA FEDERAL PROJECT
BANDANA FED COM #701H**

OWB

Plan: PWP1

Standard Survey Report

19 January, 2021

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	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	BANDANA FED COM #701H			
Well Position	+N/-S	0.0 usft	Northing:	417,870.30 usft
	+E/-W	0.0 usft	Easting:	782,895.00 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Ground Level:	3,379.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/15/2020	6.53	59.87	47,515.09844315

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	174.03	

Survey Tool Program	Date	1/19/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,553.0	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	
1,400.0	0.00	0.00	1,400.0	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 BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	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)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	115.72	2,600.0	-0.8	1.6	0.9	2.00	2.00	0.00
2,700.0	4.00	115.72	2,699.8	-3.0	6.3	3.7	2.00	2.00	0.00
2,741.8	4.84	115.72	2,741.5	-4.4	9.2	5.4	2.00	2.00	0.00
Start 9792.3 hold at 2741.8 MD									
2,800.0	4.84	115.72	2,799.5	-6.6	13.6	7.9	0.00	0.00	0.00
2,900.0	4.84	115.72	2,899.1	-10.2	21.2	12.4	0.00	0.00	0.00
3,000.0	4.84	115.72	2,998.8	-13.9	28.8	16.8	0.00	0.00	0.00
3,100.0	4.84	115.72	3,098.4	-17.5	36.4	21.2	0.00	0.00	0.00
3,200.0	4.84	115.72	3,198.1	-21.2	44.0	25.7	0.00	0.00	0.00
3,300.0	4.84	115.72	3,297.7	-24.9	51.6	30.1	0.00	0.00	0.00
3,400.0	4.84	115.72	3,397.4	-28.5	59.2	34.5	0.00	0.00	0.00
3,500.0	4.84	115.72	3,497.0	-32.2	66.8	38.9	0.00	0.00	0.00
3,600.0	4.84	115.72	3,596.7	-35.8	74.4	43.4	0.00	0.00	0.00
3,700.0	4.84	115.72	3,696.3	-39.5	82.0	47.8	0.00	0.00	0.00
3,800.0	4.84	115.72	3,795.9	-43.1	89.6	52.2	0.00	0.00	0.00
3,900.0	4.84	115.72	3,895.6	-46.8	97.2	56.7	0.00	0.00	0.00
4,000.0	4.84	115.72	3,995.2	-50.5	104.8	61.1	0.00	0.00	0.00
4,100.0	4.84	115.72	4,094.9	-54.1	112.4	65.5	0.00	0.00	0.00
4,200.0	4.84	115.72	4,194.5	-57.8	120.0	70.0	0.00	0.00	0.00
4,300.0	4.84	115.72	4,294.2	-61.4	127.5	74.4	0.00	0.00	0.00
4,400.0	4.84	115.72	4,393.8	-65.1	135.1	78.8	0.00	0.00	0.00
4,500.0	4.84	115.72	4,493.5	-68.8	142.7	83.2	0.00	0.00	0.00
4,600.0	4.84	115.72	4,593.1	-72.4	150.3	87.7	0.00	0.00	0.00
4,700.0	4.84	115.72	4,692.7	-76.1	157.9	92.1	0.00	0.00	0.00
4,800.0	4.84	115.72	4,792.4	-79.7	165.5	96.5	0.00	0.00	0.00
4,900.0	4.84	115.72	4,892.0	-83.4	173.1	101.0	0.00	0.00	0.00
5,000.0	4.84	115.72	4,991.7	-87.1	180.7	105.4	0.00	0.00	0.00
5,100.0	4.84	115.72	5,091.3	-90.7	188.3	109.8	0.00	0.00	0.00
5,200.0	4.84	115.72	5,191.0	-94.4	195.9	114.3	0.00	0.00	0.00
5,300.0	4.84	115.72	5,290.6	-98.0	203.5	118.7	0.00	0.00	0.00
5,400.0	4.84	115.72	5,390.2	-101.7	211.1	123.1	0.00	0.00	0.00
5,500.0	4.84	115.72	5,489.9	-105.4	218.7	127.5	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,600.0	4.84	115.72	5,589.5	-109.0	226.3	132.0	0.00	0.00	0.00	
5,700.0	4.84	115.72	5,689.2	-112.7	233.9	136.4	0.00	0.00	0.00	
5,800.0	4.84	115.72	5,788.8	-116.3	241.5	140.8	0.00	0.00	0.00	
5,900.0	4.84	115.72	5,888.5	-120.0	249.1	145.3	0.00	0.00	0.00	
6,000.0	4.84	115.72	5,988.1	-123.6	256.7	149.7	0.00	0.00	0.00	
6,100.0	4.84	115.72	6,087.8	-127.3	264.3	154.1	0.00	0.00	0.00	
6,200.0	4.84	115.72	6,187.4	-131.0	271.9	158.6	0.00	0.00	0.00	
6,300.0	4.84	115.72	6,287.0	-134.6	279.5	163.0	0.00	0.00	0.00	
6,400.0	4.84	115.72	6,386.7	-138.3	287.1	167.4	0.00	0.00	0.00	
6,500.0	4.84	115.72	6,486.3	-141.9	294.7	171.8	0.00	0.00	0.00	
6,600.0	4.84	115.72	6,586.0	-145.6	302.3	176.3	0.00	0.00	0.00	
6,700.0	4.84	115.72	6,685.6	-149.3	309.8	180.7	0.00	0.00	0.00	
6,800.0	4.84	115.72	6,785.3	-152.9	317.4	185.1	0.00	0.00	0.00	
6,900.0	4.84	115.72	6,884.9	-156.6	325.0	189.6	0.00	0.00	0.00	
7,000.0	4.84	115.72	6,984.6	-160.2	332.6	194.0	0.00	0.00	0.00	
7,100.0	4.84	115.72	7,084.2	-163.9	340.2	198.4	0.00	0.00	0.00	
7,200.0	4.84	115.72	7,183.8	-167.6	347.8	202.8	0.00	0.00	0.00	
7,300.0	4.84	115.72	7,283.5	-171.2	355.4	207.3	0.00	0.00	0.00	
7,400.0	4.84	115.72	7,383.1	-174.9	363.0	211.7	0.00	0.00	0.00	
7,500.0	4.84	115.72	7,482.8	-178.5	370.6	216.1	0.00	0.00	0.00	
7,600.0	4.84	115.72	7,582.4	-182.2	378.2	220.6	0.00	0.00	0.00	
7,700.0	4.84	115.72	7,682.1	-185.9	385.8	225.0	0.00	0.00	0.00	
7,800.0	4.84	115.72	7,781.7	-189.5	393.4	229.4	0.00	0.00	0.00	
7,900.0	4.84	115.72	7,881.3	-193.2	401.0	233.9	0.00	0.00	0.00	
8,000.0	4.84	115.72	7,981.0	-196.8	408.6	238.3	0.00	0.00	0.00	
8,100.0	4.84	115.72	8,080.6	-200.5	416.2	242.7	0.00	0.00	0.00	
8,200.0	4.84	115.72	8,180.3	-204.1	423.8	247.1	0.00	0.00	0.00	
8,300.0	4.84	115.72	8,279.9	-207.8	431.4	251.6	0.00	0.00	0.00	
8,400.0	4.84	115.72	8,379.6	-211.5	439.0	256.0	0.00	0.00	0.00	
8,500.0	4.84	115.72	8,479.2	-215.1	446.6	260.4	0.00	0.00	0.00	
8,600.0	4.84	115.72	8,578.9	-218.8	454.2	264.9	0.00	0.00	0.00	
8,700.0	4.84	115.72	8,678.5	-222.4	461.8	269.3	0.00	0.00	0.00	
8,800.0	4.84	115.72	8,778.1	-226.1	469.4	273.7	0.00	0.00	0.00	
8,900.0	4.84	115.72	8,877.8	-229.8	477.0	278.2	0.00	0.00	0.00	
9,000.0	4.84	115.72	8,977.4	-233.4	484.6	282.6	0.00	0.00	0.00	
9,100.0	4.84	115.72	9,077.1	-237.1	492.1	287.0	0.00	0.00	0.00	
9,200.0	4.84	115.72	9,176.7	-240.7	499.7	291.4	0.00	0.00	0.00	
9,300.0	4.84	115.72	9,276.4	-244.4	507.3	295.9	0.00	0.00	0.00	
9,400.0	4.84	115.72	9,376.0	-248.1	514.9	300.3	0.00	0.00	0.00	
9,500.0	4.84	115.72	9,475.6	-251.7	522.5	304.7	0.00	0.00	0.00	
9,600.0	4.84	115.72	9,575.3	-255.4	530.1	309.2	0.00	0.00	0.00	
9,700.0	4.84	115.72	9,674.9	-259.0	537.7	313.6	0.00	0.00	0.00	
9,800.0	4.84	115.72	9,774.6	-262.7	545.3	318.0	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	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)
9,900.0	4.84	115.72	9,874.2	-266.4	552.9	322.5	0.00	0.00	0.00
10,000.0	4.84	115.72	9,973.9	-270.0	560.5	326.9	0.00	0.00	0.00
10,100.0	4.84	115.72	10,073.5	-273.7	568.1	331.3	0.00	0.00	0.00
10,200.0	4.84	115.72	10,173.2	-277.3	575.7	335.7	0.00	0.00	0.00
10,300.0	4.84	115.72	10,272.8	-281.0	583.3	340.2	0.00	0.00	0.00
10,400.0	4.84	115.72	10,372.4	-284.6	590.9	344.6	0.00	0.00	0.00
10,500.0	4.84	115.72	10,472.1	-288.3	598.5	349.0	0.00	0.00	0.00
10,600.0	4.84	115.72	10,571.7	-292.0	606.1	353.5	0.00	0.00	0.00
10,700.0	4.84	115.72	10,671.4	-295.6	613.7	357.9	0.00	0.00	0.00
10,800.0	4.84	115.72	10,771.0	-299.3	621.3	362.3	0.00	0.00	0.00
10,900.0	4.84	115.72	10,870.7	-302.9	628.9	366.8	0.00	0.00	0.00
11,000.0	4.84	115.72	10,970.3	-306.6	636.5	371.2	0.00	0.00	0.00
11,100.0	4.84	115.72	11,070.0	-310.3	644.1	375.6	0.00	0.00	0.00
11,200.0	4.84	115.72	11,169.6	-313.9	651.7	380.0	0.00	0.00	0.00
11,300.0	4.84	115.72	11,269.2	-317.6	659.3	384.5	0.00	0.00	0.00
11,400.0	4.84	115.72	11,368.9	-321.2	666.9	388.9	0.00	0.00	0.00
11,500.0	4.84	115.72	11,468.5	-324.9	674.4	393.3	0.00	0.00	0.00
11,600.0	4.84	115.72	11,568.2	-328.6	682.0	397.8	0.00	0.00	0.00
11,700.0	4.84	115.72	11,667.8	-332.2	689.6	402.2	0.00	0.00	0.00
11,800.0	4.84	115.72	11,767.5	-335.9	697.2	406.6	0.00	0.00	0.00
11,900.0	4.84	115.72	11,867.1	-339.5	704.8	411.1	0.00	0.00	0.00
12,000.0	4.84	115.72	11,966.7	-343.2	712.4	415.5	0.00	0.00	0.00
12,100.0	4.84	115.72	12,066.4	-346.9	720.0	419.9	0.00	0.00	0.00
12,200.0	4.84	115.72	12,166.0	-350.5	727.6	424.3	0.00	0.00	0.00
12,300.0	4.84	115.72	12,265.7	-354.2	735.2	428.8	0.00	0.00	0.00
12,400.0	4.84	115.72	12,365.3	-357.8	742.8	433.2	0.00	0.00	0.00
12,500.0	4.84	115.72	12,465.0	-361.5	750.4	437.6	0.00	0.00	0.00
12,534.2	4.84	115.72	12,499.0	-362.7	753.0	439.1	0.00	0.00	0.00
Start DLS 12.00 TFO 63.75									
12,600.0	10.93	156.27	12,564.2	-369.7	758.0	446.6	12.00	9.26	61.59
12,700.0	22.45	168.81	12,659.9	-397.2	765.6	474.7	12.00	11.51	12.54
12,800.0	34.29	173.00	12,747.7	-444.0	772.7	522.1	12.00	11.84	4.19
12,900.0	46.20	175.22	12,823.9	-508.2	779.2	586.5	12.00	11.92	2.22
13,000.0	58.15	176.69	12,885.1	-586.8	784.7	665.3	12.00	11.94	1.47
13,100.0	70.10	177.82	12,928.7	-676.6	788.9	755.0	12.00	11.96	1.13
13,200.0	82.07	178.78	12,952.7	-773.4	791.8	851.6	12.00	11.96	0.97
13,284.0	92.12	179.55	12,957.0	-857.2	793.0	935.1	12.00	11.97	0.91
Start 7269.0 hold at 13284.0 MD									
13,300.0	92.12	179.55	12,956.4	-873.2	793.1	951.0	0.00	0.00	0.00
13,400.0	92.12	179.55	12,952.7	-973.1	793.9	1,050.4	0.00	0.00	0.00
13,500.0	92.12	179.55	12,949.0	-1,073.0	794.7	1,149.9	0.00	0.00	0.00
13,600.0	92.12	179.55	12,945.3	-1,172.9	795.5	1,249.4	0.00	0.00	0.00
13,700.0	92.12	179.55	12,941.6	-1,272.9	796.3	1,348.8	0.00	0.00	0.00
13,800.0	92.12	179.55	12,937.9	-1,372.8	797.0	1,448.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	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)
13,900.0	92.12	179.55	12,934.2	-1,472.7	797.8	1,547.8	0.00	0.00	0.00
14,000.0	92.12	179.55	12,930.5	-1,572.7	798.6	1,647.2	0.00	0.00	0.00
14,100.0	92.12	179.55	12,926.8	-1,672.6	799.4	1,746.7	0.00	0.00	0.00
14,200.0	92.12	179.55	12,923.1	-1,772.5	800.2	1,846.2	0.00	0.00	0.00
14,300.0	92.12	179.55	12,919.4	-1,872.4	800.9	1,945.6	0.00	0.00	0.00
14,400.0	92.12	179.55	12,915.7	-1,972.4	801.7	2,045.1	0.00	0.00	0.00
14,500.0	92.12	179.55	12,912.0	-2,072.3	802.5	2,144.6	0.00	0.00	0.00
14,600.0	92.12	179.55	12,908.3	-2,172.2	803.3	2,244.0	0.00	0.00	0.00
14,700.0	92.12	179.55	12,904.6	-2,272.2	804.1	2,343.5	0.00	0.00	0.00
14,800.0	92.12	179.55	12,900.9	-2,372.1	804.9	2,443.0	0.00	0.00	0.00
14,900.0	92.12	179.55	12,897.2	-2,472.0	805.6	2,542.4	0.00	0.00	0.00
15,000.0	92.12	179.55	12,893.5	-2,571.9	806.4	2,641.9	0.00	0.00	0.00
15,100.0	92.12	179.55	12,889.8	-2,671.9	807.2	2,741.4	0.00	0.00	0.00
15,200.0	92.12	179.55	12,886.1	-2,771.8	808.0	2,840.8	0.00	0.00	0.00
15,300.0	92.12	179.55	12,882.4	-2,871.7	808.8	2,940.3	0.00	0.00	0.00
15,400.0	92.12	179.55	12,878.7	-2,971.7	809.6	3,039.8	0.00	0.00	0.00
15,500.0	92.12	179.55	12,875.0	-3,071.6	810.3	3,139.2	0.00	0.00	0.00
15,600.0	92.12	179.55	12,871.3	-3,171.5	811.1	3,238.7	0.00	0.00	0.00
15,700.0	92.12	179.55	12,867.6	-3,271.4	811.9	3,338.2	0.00	0.00	0.00
15,800.0	92.12	179.55	12,863.9	-3,371.4	812.7	3,437.6	0.00	0.00	0.00
15,900.0	92.12	179.55	12,860.2	-3,471.3	813.5	3,537.1	0.00	0.00	0.00
16,000.0	92.12	179.55	12,856.5	-3,571.2	814.3	3,636.6	0.00	0.00	0.00
16,100.0	92.12	179.55	12,852.8	-3,671.2	815.0	3,736.1	0.00	0.00	0.00
16,200.0	92.12	179.55	12,849.1	-3,771.1	815.8	3,835.5	0.00	0.00	0.00
16,300.0	92.12	179.55	12,845.4	-3,871.0	816.6	3,935.0	0.00	0.00	0.00
16,400.0	92.12	179.55	12,841.7	-3,970.9	817.4	4,034.5	0.00	0.00	0.00
16,500.0	92.12	179.55	12,838.0	-4,070.9	818.2	4,133.9	0.00	0.00	0.00
16,600.0	92.12	179.55	12,834.3	-4,170.8	819.0	4,233.4	0.00	0.00	0.00
16,700.0	92.12	179.55	12,830.6	-4,270.7	819.7	4,332.9	0.00	0.00	0.00
16,800.0	92.12	179.55	12,826.9	-4,370.7	820.5	4,432.3	0.00	0.00	0.00
16,900.0	92.12	179.55	12,823.2	-4,470.6	821.3	4,531.8	0.00	0.00	0.00
17,000.0	92.12	179.55	12,819.5	-4,570.5	822.1	4,631.3	0.00	0.00	0.00
17,100.0	92.12	179.55	12,815.8	-4,670.4	822.9	4,730.7	0.00	0.00	0.00
17,200.0	92.12	179.55	12,812.1	-4,770.4	823.7	4,830.2	0.00	0.00	0.00
17,300.0	92.12	179.55	12,808.4	-4,870.3	824.4	4,929.7	0.00	0.00	0.00
17,400.0	92.12	179.55	12,804.7	-4,970.2	825.2	5,029.1	0.00	0.00	0.00
17,500.0	92.12	179.55	12,801.0	-5,070.2	826.0	5,128.6	0.00	0.00	0.00
17,600.0	92.12	179.55	12,797.3	-5,170.1	826.8	5,228.1	0.00	0.00	0.00
17,700.0	92.12	179.55	12,793.6	-5,270.0	827.6	5,327.5	0.00	0.00	0.00
17,800.0	92.12	179.55	12,789.9	-5,369.9	828.3	5,427.0	0.00	0.00	0.00
17,900.0	92.12	179.55	12,786.2	-5,469.9	829.1	5,526.5	0.00	0.00	0.00
18,000.0	92.12	179.55	12,782.5	-5,569.8	829.9	5,625.9	0.00	0.00	0.00
18,100.0	92.12	179.55	12,778.8	-5,669.7	830.7	5,725.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	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)
18,200.0	92.12	179.55	12,775.1	-5,769.7	831.5	5,824.9	0.00	0.00	0.00
18,300.0	92.12	179.55	12,771.4	-5,869.6	832.3	5,924.3	0.00	0.00	0.00
18,400.0	92.12	179.55	12,767.7	-5,969.5	833.0	6,023.8	0.00	0.00	0.00
18,500.0	92.12	179.55	12,764.0	-6,069.4	833.8	6,123.3	0.00	0.00	0.00
18,600.0	92.12	179.55	12,760.3	-6,169.4	834.6	6,222.7	0.00	0.00	0.00
18,700.0	92.12	179.55	12,756.6	-6,269.3	835.4	6,322.2	0.00	0.00	0.00
18,800.0	92.12	179.55	12,752.9	-6,369.2	836.2	6,421.7	0.00	0.00	0.00
18,900.0	92.12	179.55	12,749.2	-6,469.2	837.0	6,521.1	0.00	0.00	0.00
19,000.0	92.12	179.55	12,745.5	-6,569.1	837.7	6,620.6	0.00	0.00	0.00
19,100.0	92.12	179.55	12,741.8	-6,669.0	838.5	6,720.1	0.00	0.00	0.00
19,200.0	92.12	179.55	12,738.1	-6,768.9	839.3	6,819.5	0.00	0.00	0.00
19,300.0	92.12	179.55	12,734.4	-6,868.9	840.1	6,919.0	0.00	0.00	0.00
19,400.0	92.12	179.55	12,730.7	-6,968.8	840.9	7,018.5	0.00	0.00	0.00
19,500.0	92.12	179.55	12,727.0	-7,068.7	841.7	7,117.9	0.00	0.00	0.00
19,600.0	92.12	179.55	12,723.3	-7,168.7	842.4	7,217.4	0.00	0.00	0.00
19,700.0	92.12	179.55	12,719.6	-7,268.6	843.2	7,316.9	0.00	0.00	0.00
19,800.0	92.12	179.55	12,715.9	-7,368.5	844.0	7,416.3	0.00	0.00	0.00
19,900.0	92.12	179.55	12,712.2	-7,468.4	844.8	7,515.8	0.00	0.00	0.00
20,000.0	92.12	179.55	12,708.5	-7,568.4	845.6	7,615.3	0.00	0.00	0.00
20,100.0	92.12	179.55	12,704.8	-7,668.3	846.4	7,714.7	0.00	0.00	0.00
20,200.0	92.12	179.55	12,701.1	-7,768.2	847.1	7,814.2	0.00	0.00	0.00
20,300.0	92.12	179.55	12,697.4	-7,868.2	847.9	7,913.7	0.00	0.00	0.00
20,400.0	92.12	179.55	12,693.7	-7,968.1	848.7	8,013.1	0.00	0.00	0.00
20,500.0	92.12	179.55	12,690.0	-8,068.0	849.5	8,112.6	0.00	0.00	0.00
20,553.0	92.12	179.55	12,688.0	-8,121.0	849.9	8,165.4	0.00	0.00	0.00
TD at 20553.0									

Design Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (BANDANA FED	0.00	0.00	12,687.2	-8,071.0	849.5	409,799.30	783,744.50	32° 7' 24.014 N	103° 25' 0.483 W		
- plan misses target center by 4.1usft at 20500.0usft MD (12690.0 TVD, -8068.0 N, 849.5 E)											
- Point											
PBHL (BANDANA FEI	2.12	359.55	12,688.0	-8,121.0	849.9	409,749.30	783,744.90	32° 7' 23.519 N	103° 25' 0.484 W		
- plan hits target center											
- Rectangle (sides W100.0 H7,820.0 D20.0)											
FTP (BANDANA FED	0.00	0.00	12,957.0	-352.4	788.3	417,517.90	783,683.30	32° 8' 40.396 N	103° 25' 0.431 W		
- plan misses target center by 205.1usft at 12900.0usft MD (12823.9 TVD, -508.2 N, 779.2 E)											
- Circle (radius 50.0)											

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FED COM #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.2usft (TBD)
Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.2usft (TBD)
Well:	BANDANA FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2742	2742	-4	9	Start 9792.3 hold at 2741.8 MD
12,534	12,499	-363	753	Start DLS 12.00 TFO 63.75
13,284	12,957	-857	793	Start 7269.0 hold at 13284.0 MD
20,553	12,688	-8121	850	TD at 20553.0

Checked By: _____ Approved By: _____ Date: _____



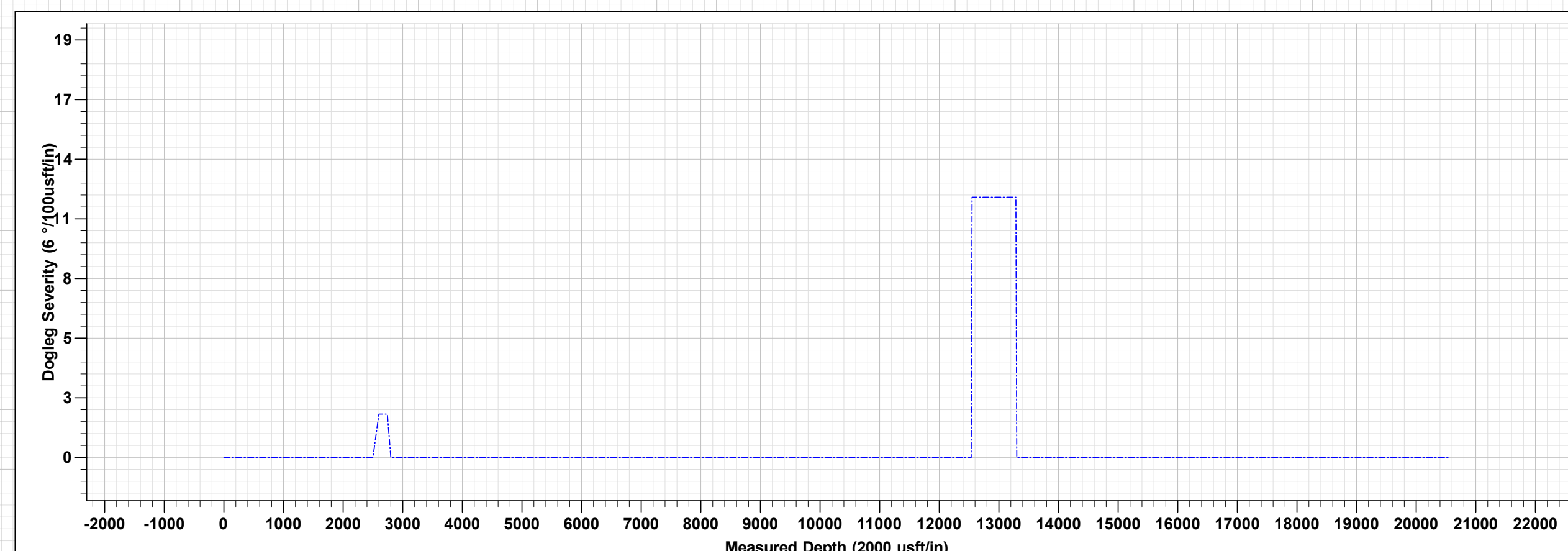
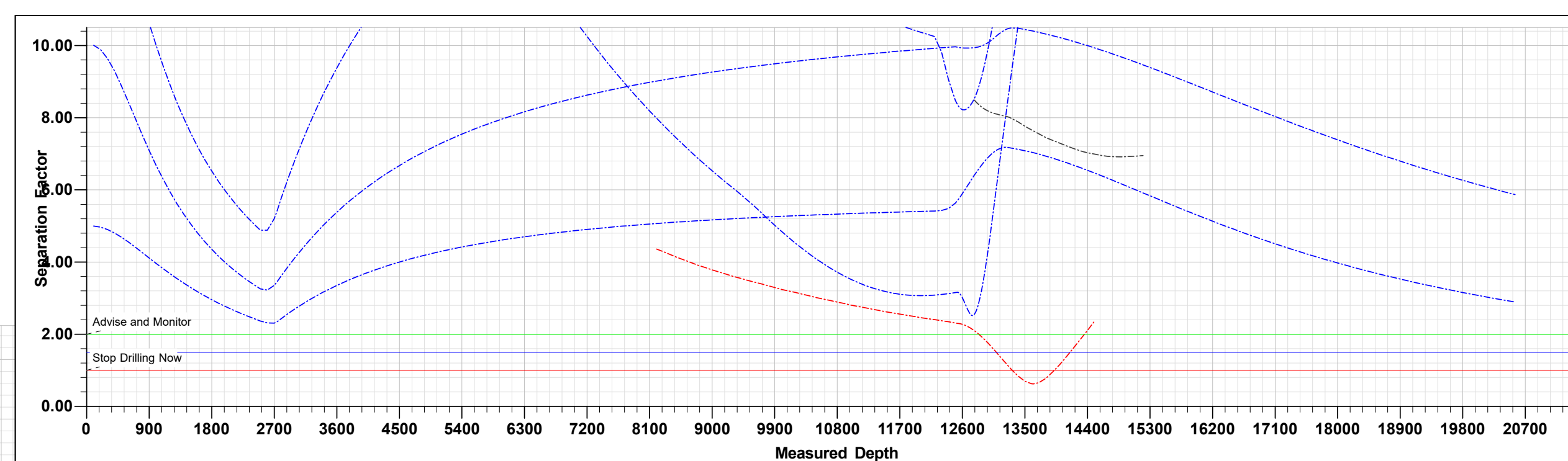
Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FED COM #701H
Wellbore: OWB
Design: PWP1
GL: 3379.2
*KB=30' @ 3409.2usft (TBD)

WELL DETAILS: BANDANA FED COM #701H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	417870.30	782895.00	32° 8' 43.950 N	103° 25' 9.564 W

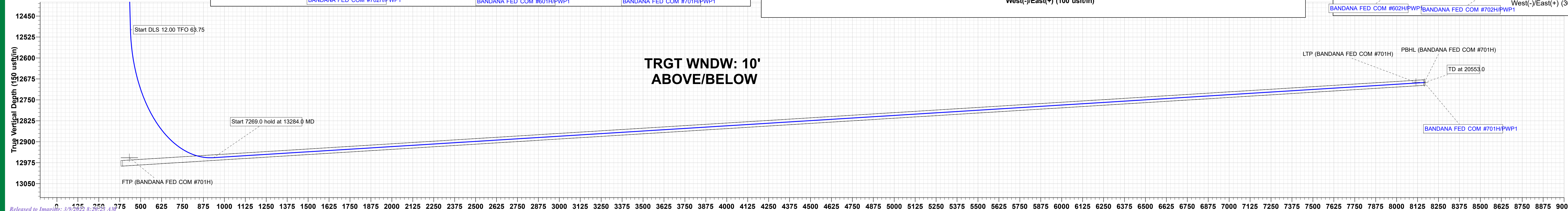
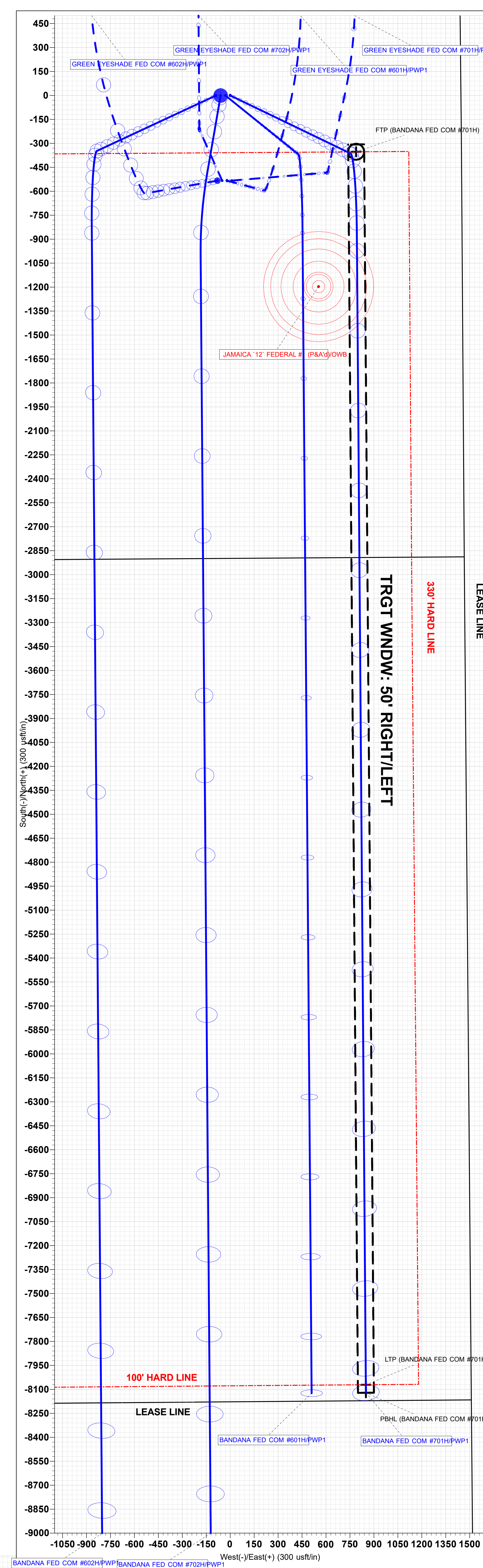
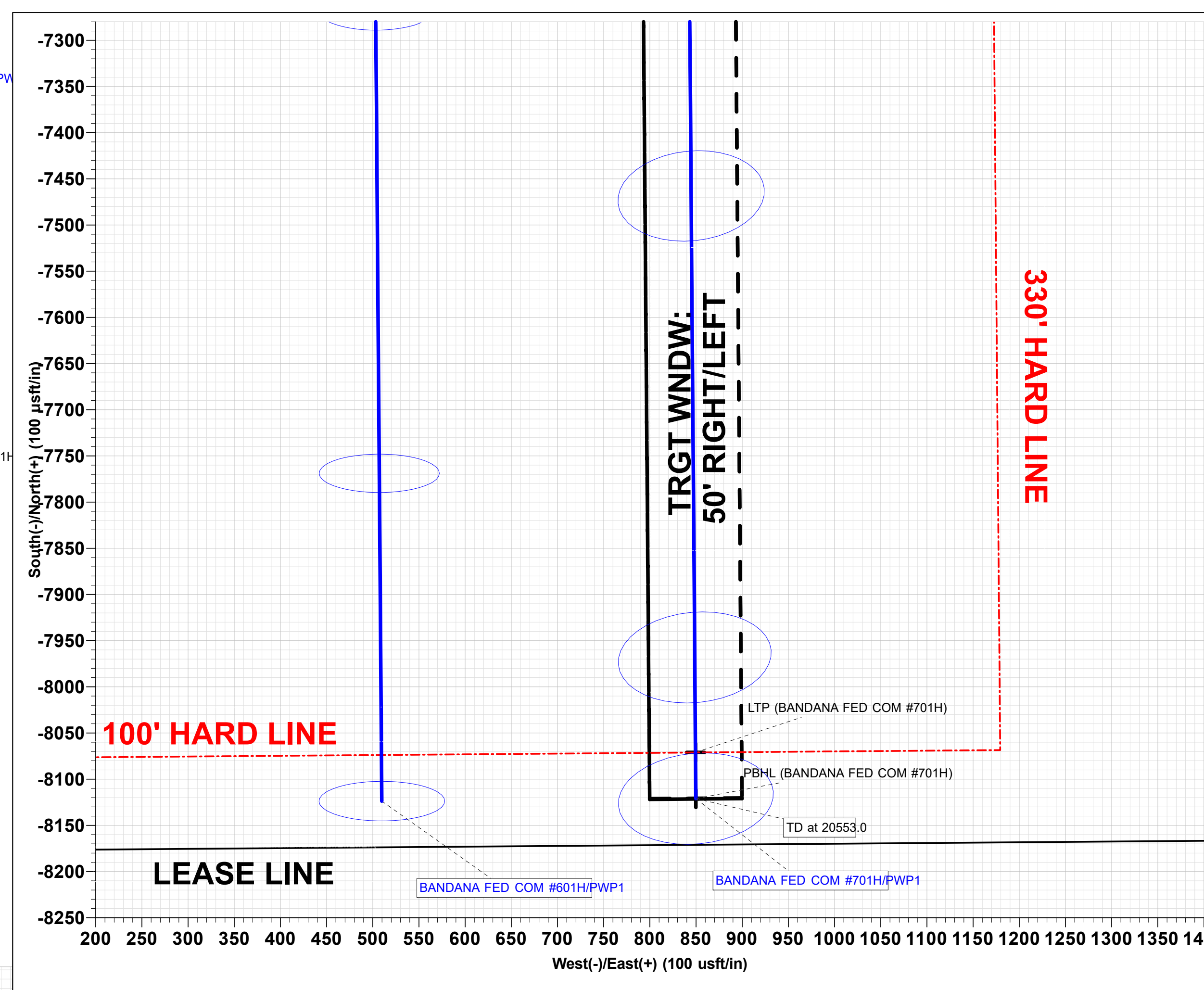
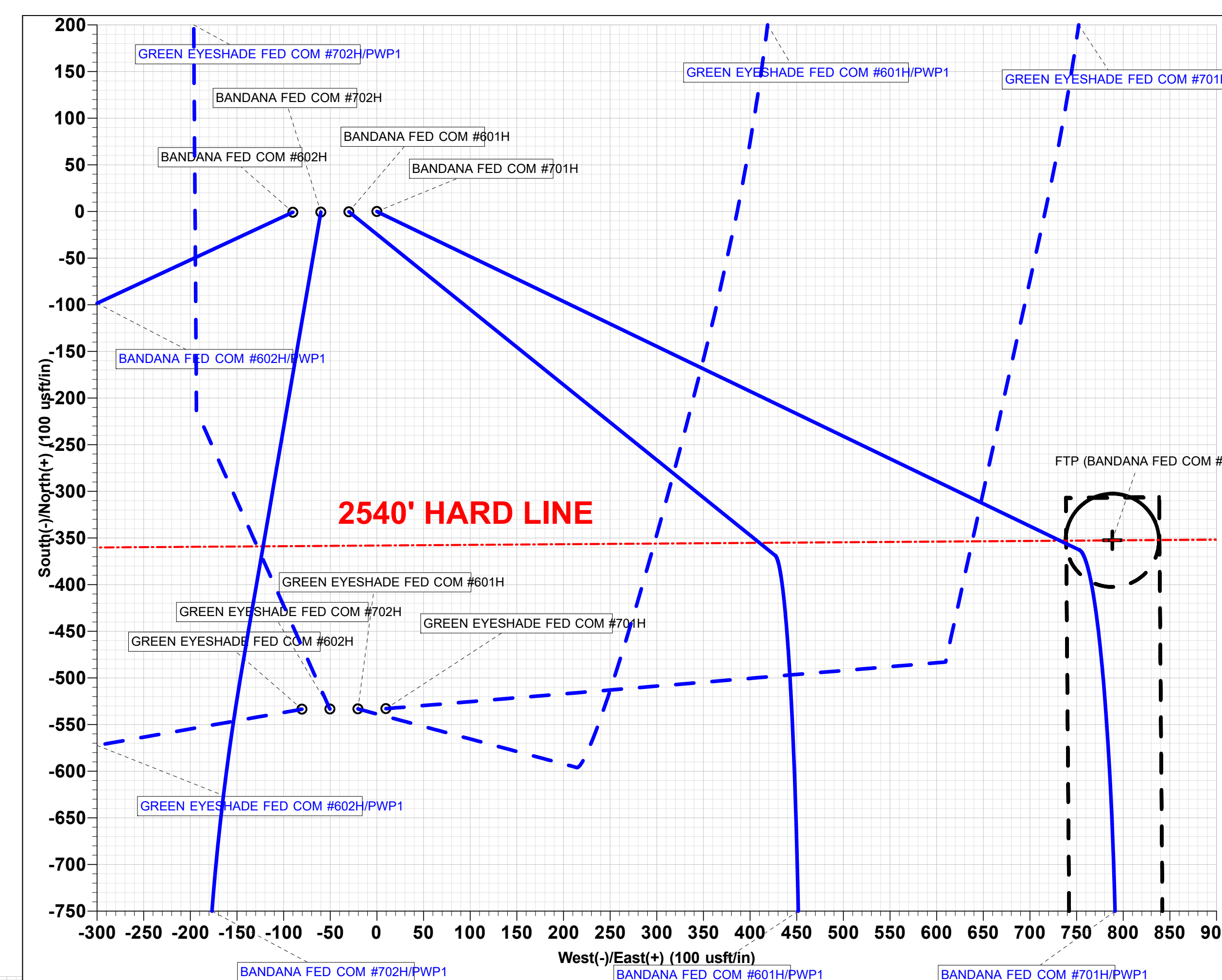
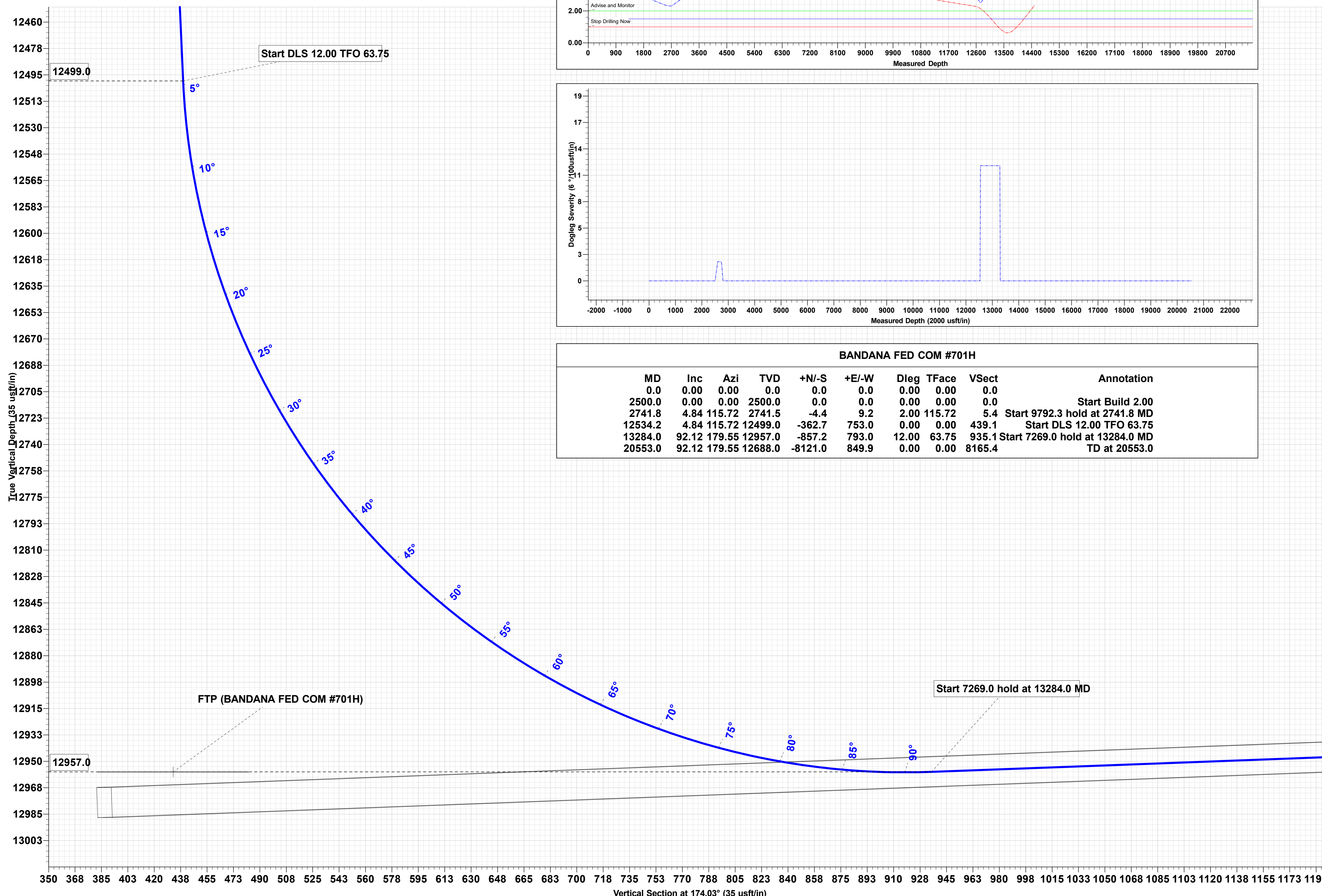
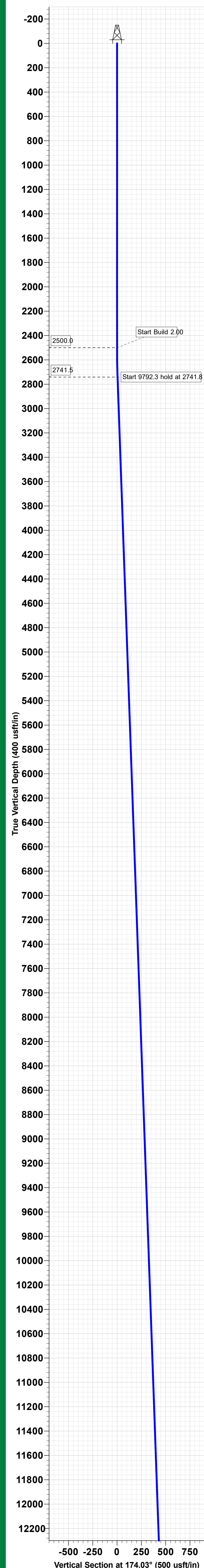
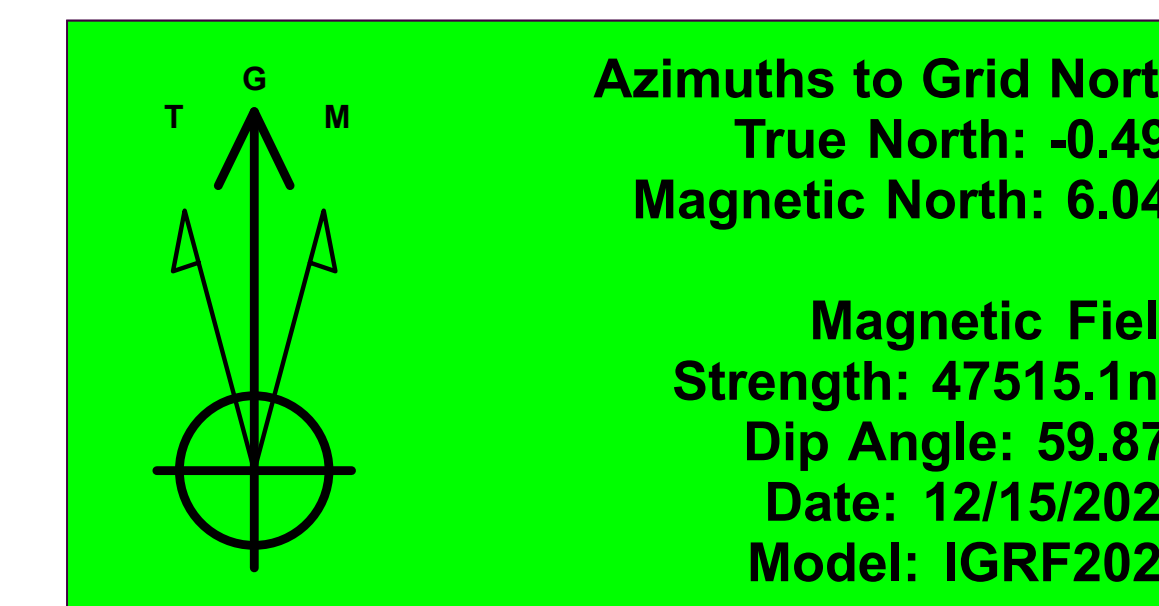
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (BANDANA FED COM #701H)	12687.2	-8071.0	849.5	409799.30	783744.50	32° 7' 24.014 N	103° 25' 0.483 W
PBHL (BANDANA FED COM #701H)	12688.0	-8121.0	849.9	409749.30	783744.90	32° 7' 23.519 N	103° 25' 0.484 W
FTP (BANDANA FED COM #701H)	12957.0	-352.4	788.3	417517.90	783683.30	32° 8' 40.396 N	103° 25' 0.431 W



BANDANA FED COM #701H

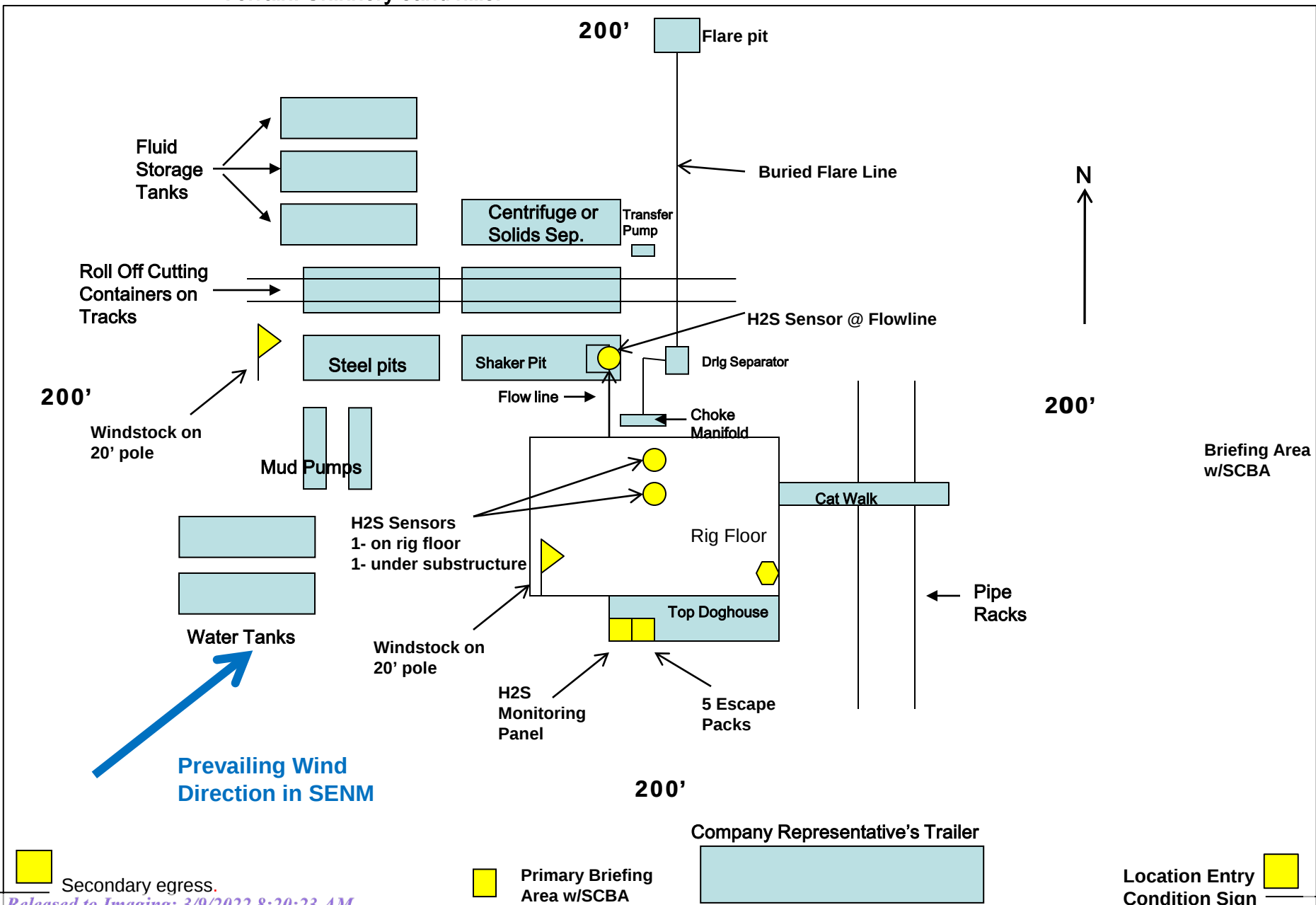
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2741.8	4.84	115.72	2741.5	-4.4	9.2	2.00	115.72	5.4	Start 9792.3 hold at 2741.8 MD
12534.2	4.84	115.72	12499.0	-362.7	753.0	0.00	0.00	439.1	Start DLS 12.00 TFO 63.75
13284.0	92.12	179.55	12957.0	-857.2	793.0	12.00	63.75	935.1	Start 7269.0 hold at 13284.0 MD
20553.0	92.12	179.55	12688.0	-8121.0	849.9	0.00	0.00	8165.4	TD at 20553.0



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 87761

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 87761
	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	3/9/2022
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	3/9/2022
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	3/9/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/9/2022