

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

HOBBS OCD

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NM121958
WELL NAME & NO.:	710H – Dominator 25 Federal Com
SURFACE HOLE FOOTAGE:	280'/S & 2032'/W
BOTTOM HOLE FOOTAGE:	200'/N & 1750'/W
LOCATION:	Section 25, T. 25 S., R. 33 E.
COUNTY:	Lea County, New Mexico

MAY 07 2018

RECEIVED

Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☒ Conventional	☐ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

A. Hydrogen Sulfide

1. 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 **1100** feet (a minimum of 25 feet 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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.
3. The minimum required fill of cement behind the **5 1/2 X 5** 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7 5/8** inch intermediate casing shoe shall be **10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)**

D. SPECIAL REQUIREMENT(S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

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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)

☒ Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.

During office hours call (575) 627-0272.

After office hours call (575)

☒ 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.
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.
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: 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. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - 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.
- 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.

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

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TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Below Ground-level Abandoned Well Marker
 - Range
 - Watershed
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Range

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Watershed

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

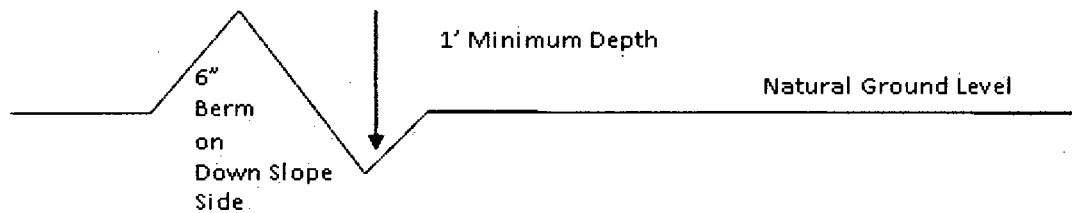
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

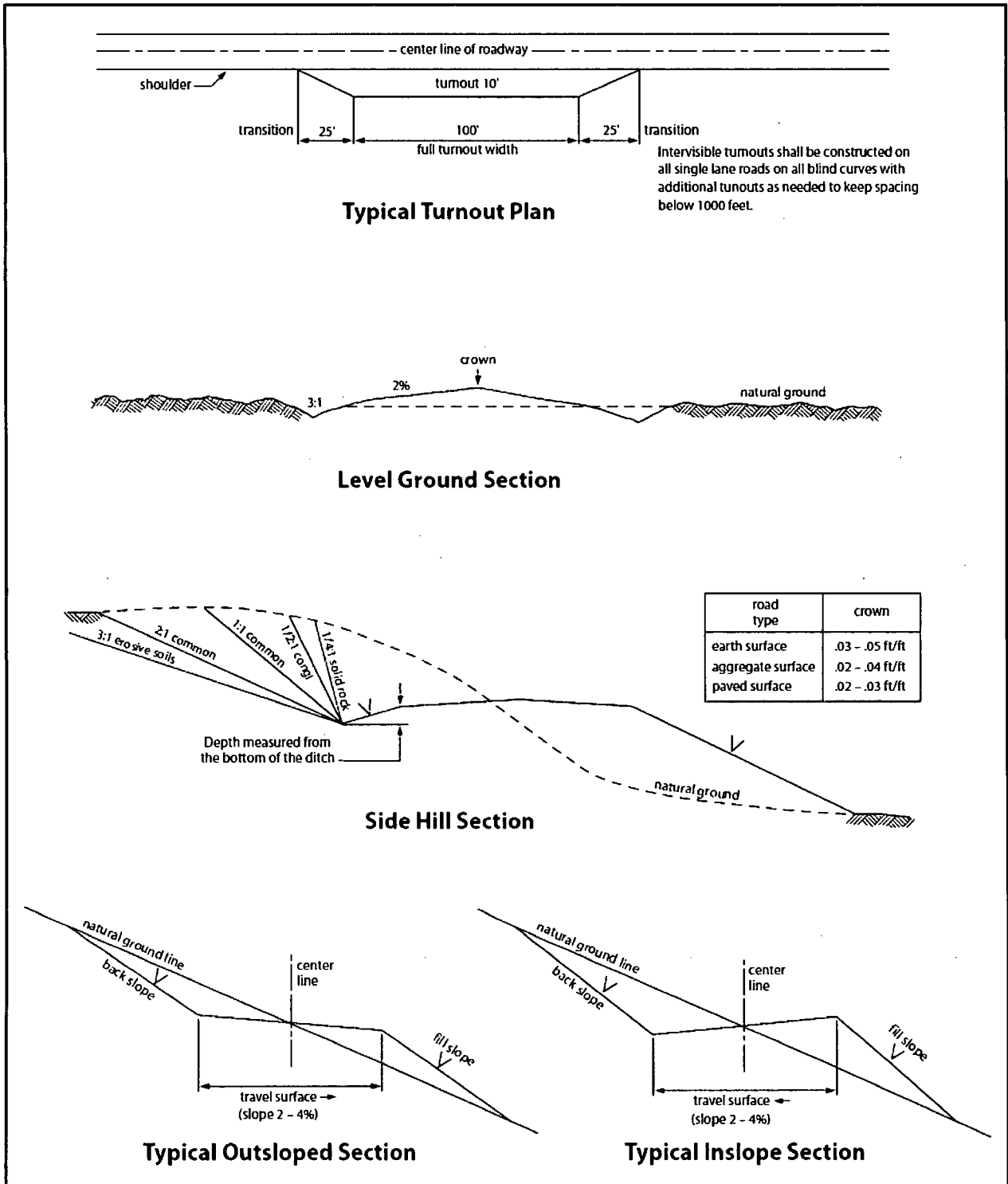


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third

parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed

is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

- a. **Lesser Prairie-Chicken:** Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and

loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

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.

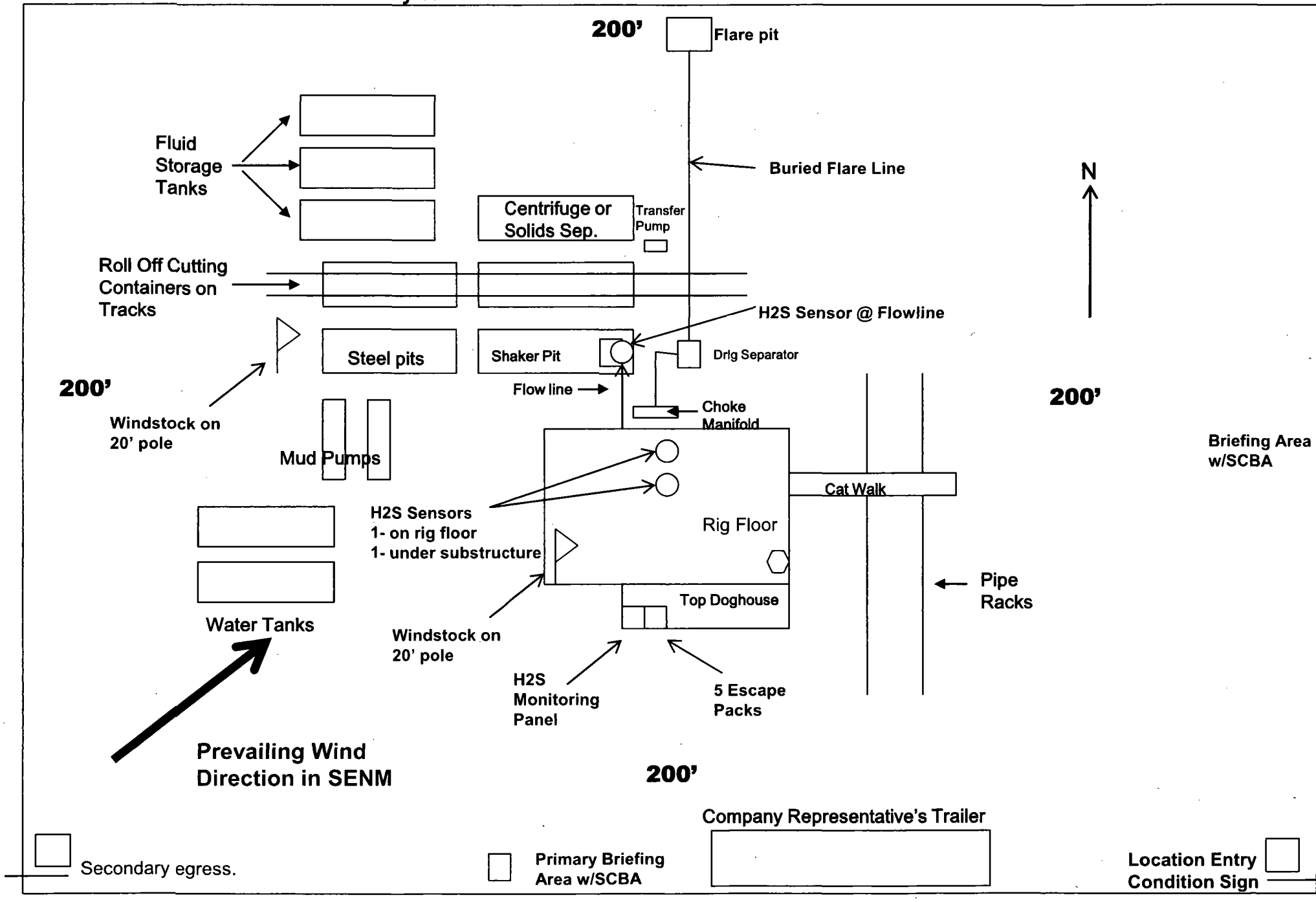
2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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.

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

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



- 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

Concho Operating

DrilTech L.L.C.

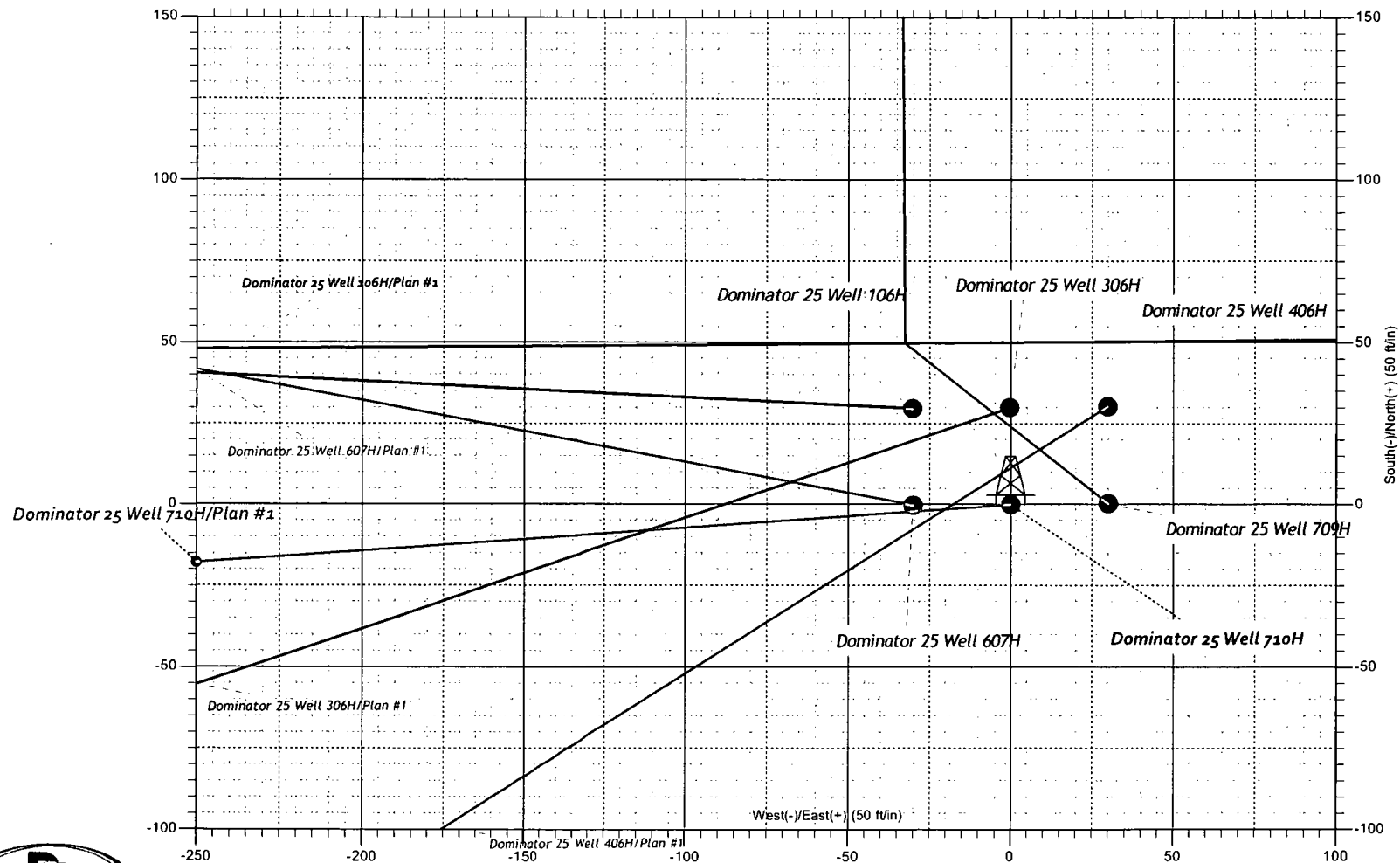
SURFACE LOCATION

US State Plane 1927 (Exact solution)
New Mexico East 3001
Elevation: 3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Dominator 25 Federal Com
Latitude 32.095°N
Longitude 103.528°W
Northing 399180.00
Easting 749529.80
Dominator 25 Well 710H

LEGEND

- Dominator 25 Well 607H, Wellbore #1, Plan #1 V0
- Dominator 25 Well 406H, Wellbore #1, Plan #1 V0
- Dominator 25 Well 709H, Wellbore #1, Plan #1 V0
- Dominator 25 Well 306H, Wellbore #1, Plan #1 V0
- Dominator 25 Well 106H, Wellbore #1, Plan #1 V0
- Plan #1

Dominator 25 Well 709H/Plan #1





Concho Operating

**Lea County, NM (Nad 27)
Dominator 25 Federal Com
Dominator 25 Well 710H**

**Wellbore #1
Plan #1**

Anticollision Report

15 November, 2017



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Corn	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD + Stations Interval 50.00ft
Depth Range:	0.00 to 999,999.00ft
Results Limited by:	Maximum center-center distance of 2,500.00 ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date 11/15/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	17,373.71	Plan #1 (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Dominator 25 Federal Corn						
Dominator 25 Well 106H - Wellbore #1 - Plan #1	1,101.36	1,101.76	42.36	36.31	7.003	CC
Dominator 25 Well 106H - Wellbore #1 - Plan #1	1,150.00	1,150.28	42.38	36.05	6.694	ES
Dominator 25 Well 106H - Wellbore #1 - Plan #1	9,150.00	9,152.46	121.18	68.85	2.316	SF
Dominator 25 Well 306H - Wellbore #1 - Plan #1	2,612.13	2,611.93	30.00	18.55	2.620	CC
Dominator 25 Well 306H - Wellbore #1 - Plan #1	6,900.00	6,900.77	43.68	12.41	1.397	Level 3, ES, SF
Dominator 25 Well 406H - Wellbore #1 - Plan #1	2,009.20	2,010.45	9.63	1.02	1.119	Level 2, CC, ES, SF
Dominator 25 Well 607H - Wellbore #1 - Plan #1	1,050.00	1,050.60	30.00	25.57	6.770	CC
Dominator 25 Well 607H - Wellbore #1 - Plan #1	12,050.00	12,048.29	67.78	14.51	1.272	Level 3, ES, SF
Dominator 25 Well 709H - Wellbore #1 - Plan #1	2,612.13	2,612.03	30.00	18.55	2.620	CC, ES
Dominator 25 Well 709H - Wellbore #1 - Plan #1	17,373.73	17,180.88	275.56	106.57	1.631	SF

Offset Design Dominator 25 Federal Corn - Dominator 25 Well 106H - Wellbore #1 - Plan #1												
Survey Program: 0-Copy of MWD												
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning	Offset Site Error: 0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				
0.00	0.00	0.40	0.00	0.00	0.00	-45.48	29.70	-30.20	42.36			
50.00	50.00	50.40	50.00	0.02	0.06	-45.48	29.70	-30.20	42.36	42.27	0.09	482.768
100.00	100.00	100.40	100.00	0.08	0.13	-45.48	29.70	-30.20	42.36	42.15	0.21	203.168
150.00	150.00	150.40	150.00	0.19	0.31	-45.48	29.70	-30.20	42.36	41.86	0.50	84.697
200.00	200.00	200.40	200.00	0.30	0.49	-45.48	29.70	-30.20	42.36	41.57	0.79	53.500
250.00	250.00	250.40	250.00	0.42	0.67	-45.48	29.70	-30.20	42.36	41.27	1.08	39.099
300.00	300.00	300.40	300.00	0.53	0.85	-45.48	29.70	-30.20	42.36	40.98	1.37	30.806
350.00	350.00	350.40	350.00	0.64	1.02	-45.48	29.70	-30.20	42.36	40.69	1.67	25.416
400.00	400.00	400.40	400.00	0.75	1.20	-45.48	29.70	-30.20	42.36	40.40	1.96	21.631
450.00	450.00	450.40	450.00	0.87	1.38	-45.48	29.70	-30.20	42.36	40.11	2.25	18.827
500.00	500.00	500.40	500.00	0.98	1.56	-45.48	29.70	-30.20	42.36	39.82	2.54	16.667
550.00	550.00	550.40	550.00	1.09	1.74	-45.48	29.70	-30.20	42.36	39.52	2.83	14.951
600.00	600.00	600.40	600.00	1.20	1.92	-45.48	29.70	-30.20	42.36	39.23	3.12	13.556
650.00	650.00	650.40	650.00	1.32	2.10	-45.48	29.70	-30.20	42.36	38.94	3.42	12.399
700.00	700.00	700.40	700.00	1.43	2.28	-45.48	29.70	-30.20	42.36	38.65	3.71	11.423
750.00	750.00	750.40	750.00	1.54	2.46	-45.48	29.70	-30.20	42.36	38.36	4.00	10.591
800.00	800.00	800.40	800.00	1.65	2.64	-45.48	29.70	-30.20	42.36	38.07	4.29	9.871

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



Anticollision Report

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Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 106H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-Copy of MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
850.00	850.00	850.40	850.00	1.77	2.82	-45.48	29.70	-30.20	42.36	37.77	4.58	9.243		
900.00	900.00	900.40	900.00	1.88	3.00	-45.48	29.70	-30.20	42.36	37.48	4.87	8.690		
950.00	950.00	950.40	950.00	1.99	3.18	-45.48	29.70	-30.20	42.36	37.19	5.17	8.199		
1,000.00	1,000.00	1,000.40	1,000.00	2.10	3.35	-45.48	29.70	-30.20	42.36	36.90	5.46	7.761		
1,050.00	1,050.00	1,050.40	1,050.00	2.22	3.53	-45.48	29.70	-30.20	42.36	36.61	5.75	7.367		
1,100.00	1,100.00	1,100.40	1,100.00	2.33	3.71	-45.48	29.70	-30.20	42.36	36.32	6.04	7.012		
1,101.36	1,101.36	1,101.76	1,101.36	2.33	3.72	-45.48	29.70	-30.20	42.36	36.31	6.05	7.003 CC		
1,150.00	1,150.00	1,150.28	1,149.88	2.44	3.89	-45.50	29.70	-30.23	42.38	36.05	6.33	6.694 ES		
1,200.00	1,200.00	1,199.86	1,199.46	2.55	4.06	-45.96	29.73	-30.74	42.77	36.15	6.62	6.463		
1,250.00	1,250.00	1,249.42	1,249.01	2.66	4.23	-46.96	29.78	-31.89	43.65	36.75	6.90	6.327		
1,300.00	1,300.00	1,298.95	1,298.50	2.78	4.41	-48.43	29.87	-33.69	45.05	37.87	7.18	6.274		
1,350.00	1,350.00	1,348.42	1,347.91	2.89	4.58	-50.29	29.99	-36.12	46.99	39.53	7.46	6.298		
1,400.00	1,400.00	1,397.81	1,397.21	3.00	4.75	-52.43	30.14	-39.18	49.51	41.77	7.74	6.396		
1,450.00	1,450.00	1,447.12	1,446.38	3.11	4.92	-54.73	30.32	-42.88	52.64	44.62	8.02	6.562		
1,500.00	1,500.00	1,503.32	1,495.75	3.23	5.12	-57.06	30.53	-47.13	56.32	47.99	8.33	6.762		
1,550.00	1,550.00	1,546.49	1,545.37	3.34	5.28	-59.15	30.75	-51.46	60.13	51.54	8.59	6.999		
1,600.00	1,600.00	1,596.30	1,594.99	3.45	5.46	-60.98	30.96	-55.80	64.01	55.13	8.88	7.211		
1,650.00	1,650.00	1,646.11	1,644.61	3.56	5.64	-62.60	31.17	-60.14	67.95	58.79	9.16	7.416		
1,700.00	1,700.00	1,704.08	1,694.23	3.68	5.84	-64.04	31.39	-64.47	71.94	62.46	9.48	7.589		
1,750.00	1,750.00	1,745.73	1,743.85	3.79	6.00	-65.33	31.60	-68.81	75.97	66.23	9.74	7.801		
1,800.00	1,800.00	1,804.46	1,793.47	3.90	6.21	-66.49	31.81	-73.14	80.03	69.97	10.06	7.957		
1,850.00	1,850.00	1,845.35	1,843.09	4.01	6.36	-67.54	32.03	-77.48	84.12	73.81	10.31	8.156		
1,900.00	1,900.00	1,904.84	1,892.71	4.13	6.58	-68.49	32.24	-81.82	88.24	77.60	10.64	8.296		
1,950.00	1,950.00	1,944.97	1,942.33	4.24	6.73	-69.36	32.45	-86.15	92.38	81.49	10.89	8.483		
2,000.00	2,000.00	2,005.22	1,991.95	4.35	6.95	-70.15	32.67	-90.49	96.54	85.32	11.22	8.607		
2,050.00	2,050.00	2,044.59	2,041.57	4.46	7.09	-70.88	32.88	-94.82	100.72	89.25	11.47	8.782		
2,100.00	2,100.00	2,105.60	2,091.19	4.58	7.32	-71.55	33.09	-99.16	104.91	93.11	11.80	8.892		
2,150.00	2,150.00	2,144.21	2,140.81	4.69	7.46	-72.16	33.30	-103.50	109.11	97.06	12.05	9.057		
2,200.00	2,200.00	2,194.02	2,190.43	4.80	7.65	-72.73	33.52	-107.83	113.33	100.99	12.34	9.186		
2,250.00	2,250.00	2,243.82	2,240.05	4.91	7.83	-73.26	33.73	-112.17	117.55	104.93	12.63	9.310		
2,300.00	2,300.00	2,293.63	2,289.67	5.02	8.02	-73.76	33.94	-116.50	121.79	108.87	12.92	9.429		
2,350.00	2,350.00	2,343.44	2,339.29	5.14	8.21	-74.22	34.16	-120.84	126.03	112.82	13.21	9.543		
2,400.00	2,400.00	2,406.75	2,388.91	5.25	8.44	-74.65	34.37	-125.18	130.28	116.74	13.55	9.618		
2,450.00	2,450.00	2,443.06	2,438.53	5.36	8.58	-75.05	34.58	-129.51	134.54	120.75	13.79	9.758		
2,500.00	2,500.00	2,507.13	2,488.15	5.47	8.82	-75.43	34.80	-133.85	138.80	124.67	14.13	9.824		
2,550.00	2,550.00	2,542.68	2,537.77	5.59	8.95	-75.78	35.01	-138.18	143.07	128.71	14.37	9.958		
2,600.00	2,600.00	2,607.51	2,587.39	5.70	9.20	-76.12	35.22	-142.52	147.35	132.64	14.71	10.015		
2,612.13	2,612.13	2,604.58	2,599.43	5.73	9.18	-76.20	35.28	-143.57	148.39	133.66	14.73	10.074		
2,650.00	2,650.00	2,642.32	2,637.03	5.81	9.33	-76.64	35.44	-146.86	151.45	136.51	14.94	10.135		
2,700.00	2,699.99	2,707.81	2,686.71	5.91	9.57	-77.41	35.65	-151.20	154.95	139.67	15.28	10.139		
2,750.00	2,749.97	2,742.11	2,736.44	6.01	9.70	-77.27	35.86	-155.54	157.83	142.33	15.50	10.181		
2,800.00	2,799.92	2,807.94	2,786.20	6.11	9.95	-77.20	36.08	-159.89	160.08	144.25	15.84	10.108		
2,850.00	2,849.85	2,842.03	2,835.98	6.21	10.08	-77.21	36.29	-164.24	161.71	145.66	16.06	10.070		
2,900.00	2,899.73	2,907.98	2,885.78	6.31	10.33	-77.29	36.51	-168.59	162.72	146.33	16.39	9.925		
2,912.13	2,911.82	2,904.15	2,897.86	6.33	10.31	-77.32	36.56	-169.65	162.87	146.47	16.41	9.928		
2,950.00	2,949.58	2,942.01	2,935.59	6.41	10.46	-77.42	36.72	-172.95	163.28	146.66	16.62	9.826		
3,000.00	2,999.42	3,007.99	2,985.39	6.52	10.71	-77.55	36.93	-177.30	163.82	146.87	16.96	9.662		
3,050.00	3,049.27	3,042.01	3,035.20	6.62	10.84	-77.68	37.15	-181.65	164.37	147.19	17.18	9.567		
3,100.00	3,099.11	3,092.00	3,085.00	6.73	11.02	-77.81	37.36	-186.00	164.91	147.45	17.46	9.444		
3,150.00	3,148.96	3,142.00	3,134.81	6.84	11.21	-77.94	37.58	-190.35	165.46	147.71	17.75	9.323		
3,200.00	3,198.80	3,208.01	3,184.61	6.94	11.46	-78.07	37.79	-194.71	166.01	147.92	18.09	9.178		
3,250.00	3,248.65	3,241.99	3,234.42	7.05	11.59	-78.20	38.00	-199.06	166.55	148.24	18.31	9.094		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 106H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-Copy of MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
3,300.00	3,298.50	3,308.02	3,284.22	7.16	11.84	18.32	38.22	-203.41	167.10	148.44	18.66	8.957		
3,350.00	3,348.34	3,341.98	3,334.03	7.27	11.97	18.45	38.43	-207.76	167.65	148.77	18.88	8.878		
3,400.00	3,398.19	3,391.97	3,383.83	7.38	12.16	18.57	38.65	-212.12	168.20	149.03	19.17	8.774		
3,450.00	3,448.03	3,441.97	3,433.64	7.50	12.35	18.70	38.86	-216.47	168.75	149.29	19.46	8.673		
3,500.00	3,497.88	3,508.03	3,483.44	7.61	12.60	18.82	39.07	-220.82	169.30	149.50	19.80	8.550		
3,550.00	3,547.73	3,541.96	3,533.25	7.72	12.73	18.94	39.29	-225.17	169.85	149.82	20.03	8.480		
3,600.00	3,597.57	3,591.96	3,583.06	7.84	12.92	19.07	39.50	-229.52	170.41	150.09	20.32	8.387		
3,650.00	3,647.42	3,641.95	3,632.86	7.95	13.11	19.19	39.72	-233.88	170.96	150.35	20.61	8.296		
3,700.00	3,697.26	3,708.05	3,682.67	8.07	13.36	19.31	39.93	-238.23	171.52	150.56	20.95	8.185		
3,750.00	3,747.11	3,741.94	3,732.47	8.18	13.49	19.43	40.15	-242.58	172.07	150.89	21.18	8.122		
3,800.00	3,796.95	3,808.06	3,782.28	8.30	13.75	19.55	40.36	-246.93	172.63	151.09	21.53	8.017		
3,850.00	3,846.80	3,841.94	3,832.08	8.42	13.87	19.66	40.57	-251.28	173.18	151.42	21.76	7.957		
3,900.00	3,896.65	3,891.93	3,881.89	8.53	14.06	19.78	40.79	-255.64	173.74	151.69	22.05	7.878		
3,950.00	3,946.49	3,941.93	3,931.69	8.65	14.26	19.90	41.00	-259.99	174.30	151.95	22.35	7.800		
4,000.00	3,996.34	3,991.92	3,981.50	8.77	14.45	20.01	41.22	-264.34	174.86	152.22	22.64	7.725		
4,050.00	4,046.18	4,041.92	4,031.30	8.89	14.64	20.13	41.43	-268.69	175.42	152.49	22.93	7.651		
4,100.00	4,096.03	4,108.09	4,081.11	9.01	14.89	20.24	41.64	-273.05	175.98	152.70	23.28	7.560		
4,150.00	4,145.88	4,141.91	4,130.91	9.13	15.02	20.35	41.86	-277.40	176.54	153.03	23.51	7.509		
4,200.00	4,195.72	4,191.90	4,180.72	9.25	15.21	20.47	42.07	-281.75	177.10	153.30	23.80	7.440		
4,250.00	4,245.57	4,241.90	4,230.53	9.37	15.40	20.58	42.29	-286.10	177.66	153.57	24.10	7.373		
4,300.00	4,295.41	4,291.90	4,280.33	9.49	15.59	20.69	42.50	-290.45	178.23	153.84	24.39	7.308		
4,350.00	4,345.26	4,341.89	4,330.14	9.61	15.78	20.80	42.71	-294.81	178.79	154.11	24.68	7.244		
4,400.00	4,395.11	4,408.11	4,379.94	9.73	16.03	20.91	42.93	-299.16	179.35	154.32	25.03	7.164		
4,450.00	4,444.95	4,441.88	4,429.75	9.85	16.16	21.02	43.14	-303.51	179.92	154.65	25.27	7.120		
4,500.00	4,494.80	4,508.12	4,479.55	9.97	16.42	21.13	43.36	-307.86	180.48	154.86	25.62	7.044		
4,550.00	4,544.64	4,541.87	4,529.36	10.09	16.55	21.24	43.57	-312.21	181.05	155.19	25.86	7.002		
4,600.00	4,594.49	4,608.13	4,579.16	10.22	16.80	21.34	43.78	-316.57	181.62	155.41	26.21	6.929		
4,650.00	4,644.33	4,641.87	4,628.97	10.34	16.93	21.45	44.00	-320.92	182.18	155.74	26.45	6.889		
4,700.00	4,694.18	4,691.86	4,678.77	10.46	17.12	21.56	44.21	-325.27	182.75	156.01	26.74	6.834		
4,750.00	4,744.03	4,741.86	4,728.58	10.58	17.31	21.66	44.43	-329.62	183.32	156.28	27.04	6.780		
4,800.00	4,793.87	4,808.15	4,778.38	10.71	17.56	21.77	44.64	-333.98	183.89	156.50	27.39	6.713		
4,850.00	4,843.72	4,841.85	4,828.19	10.83	17.69	21.87	44.85	-338.33	184.46	156.83	27.63	6.676		
4,900.00	4,893.56	4,908.16	4,878.00	10.95	17.95	21.97	45.07	-342.68	185.03	157.05	27.98	6.612		
4,950.00	4,943.41	4,941.84	4,927.80	11.08	18.07	22.08	45.28	-347.03	185.60	157.38	28.22	6.577		
5,000.00	4,993.26	5,008.17	4,977.61	11.20	18.33	22.18	45.50	-351.38	186.17	157.60	28.58	6.515		
5,050.00	5,043.10	5,041.83	5,027.41	11.33	18.46	22.28	45.71	-355.74	186.75	157.93	28.81	6.481		
5,100.00	5,092.95	5,091.83	5,077.22	11.45	18.65	22.38	45.92	-360.09	187.32	158.21	29.11	6.435		
5,150.00	5,142.79	5,141.82	5,127.02	11.58	18.84	22.48	46.14	-364.44	187.89	158.49	29.41	6.389		
5,200.00	5,192.64	5,192.32	5,177.33	11.70	19.03	22.58	46.35	-368.82	188.45	158.75	29.71	6.343		
5,250.00	5,242.48	5,244.82	5,229.67	11.83	19.23	22.73	46.55	-372.89	188.56	158.54	30.02	6.281		
5,300.00	5,292.33	5,297.30	5,282.04	11.95	19.43	22.93	46.72	-376.23	188.01	157.68	30.33	6.199		
5,350.00	5,342.18	5,349.75	5,334.42	12.08	19.62	23.20	46.85	-378.86	188.81	156.17	30.64	6.098		
5,400.00	5,392.02	5,402.15	5,386.79	12.20	19.81	23.54	46.94	-380.76	184.95	154.01	30.94	5.978		
5,450.00	5,441.87	5,454.48	5,439.11	12.33	19.99	23.95	47.00	-381.95	182.44	151.21	31.23	5.841		
5,500.00	5,491.71	5,506.72	5,491.34	12.46	20.17	24.44	47.02	-382.42	179.29	147.76	31.53	5.687		
5,550.00	5,541.56	5,556.93	5,541.56	12.58	20.34	24.97	47.02	-382.42	175.73	143.91	31.82	5.523		
5,600.00	5,591.41	5,606.78	5,591.41	12.71	20.51	25.52	47.02	-382.42	172.18	140.07	32.11	5.361		
5,650.00	5,641.25	5,656.63	5,641.25	12.83	20.67	26.09	47.02	-382.42	168.65	136.24	32.41	5.203		
5,700.00	5,691.10	5,706.47	5,691.10	12.96	20.84	26.69	47.02	-382.42	165.13	132.42	32.71	5.049		
5,750.00	5,740.94	5,756.32	5,740.94	13.09	21.01	27.32	47.02	-382.42	161.63	128.63	33.01	4.897		
5,800.00	5,790.79	5,806.16	5,790.79	13.21	21.18	27.97	47.02	-382.42	158.15	124.85	33.30	4.749		
5,850.00	5,840.64	5,856.01	5,840.64	13.34	21.34	28.65	47.02	-382.42	154.70	121.09	33.61	4.603		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 106H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-Copy of MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,900.00	5,890.48	5,905.85	5,890.48	13.47	21.51	29.36		47.02	-382.42	151.26	117.36	33.91	4.461	
5,950.00	5,940.33	5,955.70	5,940.33	13.60	21.68	30.11		47.02	-382.42	147.86	113.65	34.21	4.322	
6,000.00	5,990.17	6,005.55	5,990.17	13.72	21.85	30.89		47.02	-382.42	144.47	109.96	34.52	4.186	
6,050.00	6,040.02	6,055.39	6,040.02	13.85	22.02	31.70		47.02	-382.42	141.12	106.30	34.82	4.053	
6,100.00	6,089.86	6,105.24	6,089.86	13.98	22.19	32.56		47.02	-382.42	137.79	102.66	35.13	3.922	
6,150.00	6,139.71	6,155.08	6,139.71	14.11	22.35	33.46		47.02	-382.42	134.50	99.06	35.44	3.795	
6,200.00	6,189.56	6,204.93	6,189.56	14.23	22.52	34.40		47.02	-382.42	131.24	95.49	35.75	3.671	
6,210.79	6,200.31	6,215.68	6,200.31	14.26	22.56	34.61		47.02	-382.42	130.54	94.72	35.82	3.645	
6,250.00	6,239.42	6,254.79	6,239.42	14.35	22.69	35.32		47.02	-382.42	128.18	92.13	36.05	3.555	
6,300.00	6,289.32	6,304.70	6,289.32	14.46	22.86	36.11		47.02	-382.42	125.68	89.32	36.35	3.457	
6,350.00	6,339.26	6,354.64	6,339.26	14.56	23.03	36.76		47.02	-382.42	123.72	87.09	36.64	3.377	
6,400.00	6,389.23	6,404.60	6,389.23	14.66	23.20	37.24		47.02	-382.42	122.30	85.39	36.92	3.313	
6,450.00	6,439.22	6,454.59	6,439.22	14.75	23.37	37.55		47.02	-382.42	121.41	84.22	37.19	3.265	
6,500.00	6,489.21	6,504.59	6,489.21	14.84	23.54	37.68		47.02	-382.42	121.04	83.58	37.46	3.232	
6,510.79	6,500.00	6,515.37	6,500.00	14.86	23.58	-56.37		47.02	-382.42	121.03	83.51	37.51	3.226	
6,550.00	6,539.21	6,554.59	6,539.21	14.93	23.71	-56.37		47.02	-382.42	121.03	83.30	37.72	3.208	
6,600.00	6,589.21	6,604.59	6,589.21	15.03	23.88	-56.37		47.02	-382.42	121.03	83.03	38.00	3.185	
6,650.00	6,639.21	6,654.59	6,639.21	15.13	24.05	-56.37		47.02	-382.42	121.03	82.75	38.27	3.162	
6,700.00	6,689.21	6,704.59	6,689.21	15.23	24.22	-56.37		47.02	-382.42	121.03	82.48	38.55	3.140	
6,750.00	6,739.21	6,754.59	6,739.21	15.33	24.40	-56.37		47.02	-382.42	121.03	82.20	38.83	3.117	
6,800.00	6,789.21	6,804.59	6,789.21	15.43	24.57	-56.37		47.02	-382.42	121.03	81.92	39.10	3.095	
6,850.00	6,839.21	6,854.59	6,839.21	15.54	24.74	-56.37		47.02	-382.42	121.03	81.64	39.38	3.073	
6,900.00	6,889.21	6,904.59	6,889.21	15.64	24.91	-56.37		47.02	-382.42	121.03	81.37	39.66	3.052	
6,950.00	6,939.21	6,954.59	6,939.21	15.74	25.08	-56.37		47.02	-382.42	121.03	81.09	39.94	3.030	
7,000.00	6,989.21	7,004.59	6,989.21	15.84	25.25	-56.37		47.02	-382.42	121.03	80.81	40.22	3.009	
7,050.00	7,039.21	7,054.59	7,039.21	15.95	25.42	-56.37		47.02	-382.42	121.03	80.53	40.50	2.989	
7,100.00	7,089.21	7,104.59	7,089.21	16.05	25.60	-56.37		47.02	-382.42	121.03	80.25	40.77	2.968	
7,150.00	7,139.21	7,154.59	7,139.21	16.15	25.77	-56.37		47.02	-382.42	121.03	79.97	41.05	2.948	
7,200.00	7,189.21	7,204.59	7,189.21	16.26	25.94	-56.37		47.02	-382.42	121.03	79.70	41.33	2.928	
7,250.00	7,239.21	7,254.59	7,239.21	16.36	26.11	-56.37		47.02	-382.42	121.03	79.42	41.61	2.909	
7,300.00	7,289.21	7,304.59	7,289.21	16.46	26.28	-56.37		47.02	-382.42	121.03	79.14	41.89	2.889	
7,350.00	7,339.21	7,354.59	7,339.21	16.56	26.46	-56.37		47.02	-382.42	121.03	78.86	42.17	2.870	
7,400.00	7,389.21	7,404.59	7,389.21	16.67	26.63	-56.37		47.02	-382.42	121.03	78.58	42.45	2.851	
7,450.00	7,439.21	7,454.59	7,439.21	16.77	26.80	-56.37		47.02	-382.42	121.03	78.30	42.73	2.832	
7,500.00	7,489.21	7,504.59	7,489.21	16.88	26.97	-56.37		47.02	-382.42	121.03	78.02	43.01	2.814	
7,550.00	7,539.21	7,554.59	7,539.21	16.98	27.15	-56.37		47.02	-382.42	121.03	77.74	43.29	2.796	
7,600.00	7,589.21	7,604.59	7,589.21	17.08	27.32	-56.37		47.02	-382.42	121.03	77.46	43.57	2.778	
7,650.00	7,639.21	7,654.59	7,639.21	17.19	27.49	-56.37		47.02	-382.42	121.03	77.18	43.85	2.760	
7,700.00	7,689.21	7,704.59	7,689.21	17.29	27.66	-56.37		47.02	-382.42	121.03	76.90	44.13	2.742	
7,750.00	7,739.21	7,754.59	7,739.21	17.40	27.84	-56.37		47.02	-382.42	121.03	76.62	44.41	2.725	
7,800.00	7,789.21	7,804.59	7,789.21	17.50	28.01	-56.37		47.02	-382.42	121.03	76.33	44.69	2.708	
7,850.00	7,839.21	7,854.59	7,839.21	17.60	28.18	-56.37		47.02	-382.42	121.03	76.05	44.97	2.691	
7,900.00	7,889.21	7,904.59	7,889.21	17.71	28.36	-56.37		47.02	-382.42	121.03	75.77	45.25	2.674	
7,950.00	7,939.21	7,954.59	7,939.21	17.81	28.53	-56.37		47.02	-382.42	121.03	75.49	45.54	2.658	
8,000.00	7,989.21	8,004.59	7,989.21	17.92	28.70	-56.37		47.02	-382.42	121.03	75.21	45.82	2.642	
8,050.00	8,039.21	8,054.59	8,039.21	18.02	28.88	-56.37		47.02	-382.42	121.03	74.93	46.10	2.625	
8,100.00	8,089.21	8,104.59	8,089.21	18.13	29.05	-56.37		47.02	-382.42	121.03	74.65	46.38	2.609	
8,150.00	8,139.21	8,154.59	8,139.21	18.23	29.22	-56.37		47.02	-382.42	121.03	74.36	46.66	2.594	
8,200.00	8,189.21	8,204.59	8,189.21	18.34	29.40	-56.37		47.02	-382.42	121.03	74.08	46.94	2.578	
8,250.00	8,239.21	8,254.59	8,239.21	18.44	29.57	-56.37		47.02	-382.42	121.03	73.80	47.23	2.563	
8,300.00	8,289.21	8,304.59	8,289.21	18.55	29.74	-56.37		47.02	-382.42	121.03	73.52	47.51	2.547	
8,350.00	8,339.21	8,354.59	8,339.21	18.65	29.92	-56.37		47.02	-382.42	121.03	73.24	47.79	2.532	

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 106H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-Copy of MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,400.00	8,389.21	8,404.59	8,389.21	18.76	30.09	-56.37	47.02	-382.42	121.03	72.95	48.07	2.518		
8,450.00	8,439.21	8,454.59	8,439.21	18.87	30.27	-56.37	47.02	-382.42	121.03	72.67	48.36	2.503		
8,500.00	8,489.21	8,504.59	8,489.21	18.97	30.44	-56.37	47.02	-382.42	121.03	72.39	48.64	2.488		
8,550.00	8,539.21	8,554.59	8,539.21	19.08	30.61	-56.37	47.02	-382.42	121.03	72.11	48.92	2.474		
8,600.00	8,589.21	8,604.59	8,589.21	19.18	30.79	-56.37	47.02	-382.42	121.03	71.82	49.20	2.460		
8,650.00	8,639.21	8,654.59	8,639.21	19.29	30.96	-56.37	47.02	-382.42	121.03	71.54	49.49	2.446		
8,700.00	8,689.21	8,704.59	8,689.21	19.39	31.14	-56.37	47.02	-382.42	121.03	71.26	49.77	2.432		
8,750.00	8,739.21	8,754.59	8,739.21	19.50	31.31	-56.37	47.02	-382.42	121.03	70.97	50.05	2.418		
8,800.00	8,789.21	8,804.59	8,789.21	19.61	31.48	-56.37	47.02	-382.42	121.03	70.69	50.34	2.404		
8,850.00	8,839.21	8,854.59	8,839.21	19.71	31.66	-56.37	47.02	-382.42	121.03	70.41	50.62	2.391		
8,900.00	8,889.21	8,904.59	8,889.21	19.82	31.83	-56.37	47.02	-382.42	121.03	70.12	50.90	2.378		
8,950.00	8,939.21	8,954.59	8,939.21	19.92	32.01	-56.37	47.02	-382.42	121.03	69.84	51.19	2.364		
9,000.00	8,989.21	9,004.59	8,989.21	20.03	32.18	-56.37	47.02	-382.42	121.03	69.56	51.47	2.351		
9,050.00	9,039.21	9,054.59	9,039.21	20.14	32.36	-56.37	47.02	-382.42	121.03	69.27	51.75	2.339		
9,100.00	9,089.21	9,104.59	9,089.21	20.24	32.53	-56.37	47.02	-382.42	121.03	68.99	52.04	2.326		
9,104.71	9,093.93	9,109.30	9,093.93	20.25	32.55	-56.37	47.02	-382.42	121.03	68.96	52.06	2.325		
9,150.00	9,139.21	9,152.46	9,137.09	20.35	32.70	-56.28	47.26	-382.43	121.18	68.85	52.33	2.316 SF		
9,200.00	9,189.21	9,195.96	9,180.44	20.46	32.85	-55.00	50.59	-382.45	123.38	70.79	52.59	2.346		
9,250.00	9,239.21	9,238.50	9,222.38	20.56	33.00	-52.40	57.66	-382.51	128.40	75.67	52.73	2.435		
9,300.00	9,289.21	9,279.48	9,262.03	20.67	33.14	-48.93	67.97	-382.58	136.62	83.93	52.69	2.593		
9,350.00	9,339.21	9,318.42	9,298.75	20.78	33.26	-45.04	80.88	-382.68	148.40	95.99	52.40	2.832		
9,400.00	9,389.21	9,354.99	9,332.17	20.88	33.38	-41.16	95.69	-382.80	163.92	112.07	51.85	3.161		
9,450.00	9,439.21	9,389.01	9,362.16	20.99	33.48	-37.55	111.73	-382.92	183.15	132.09	51.07	3.587		
9,500.00	9,489.21	9,420.43	9,388.79	21.10	33.57	-34.34	128.41	-383.05	205.89	155.78	50.12	4.108		
9,550.00	9,539.21	9,450.00	9,412.79	21.20	33.65	-31.50	145.67	-383.18	231.81	182.68	49.13	4.718		
9,600.00	9,589.21	9,475.00	9,432.22	21.31	33.72	-29.26	161.40	-383.30	260.55	212.59	47.96	5.433		
9,650.00	9,639.21	9,500.00	9,450.80	21.42	33.78	-27.19	178.13	-383.43	291.74	244.77	46.97	6.211		
9,700.00	9,689.21	9,525.00	9,468.47	21.53	33.85	-25.28	195.80	-383.56	325.09	278.92	46.17	7.041		
9,750.00	9,739.21	9,541.98	9,479.94	21.63	33.89	-24.07	208.33	-383.66	360.22	315.20	45.03	8.000		
9,800.00	9,789.21	9,560.34	9,491.83	21.74	33.93	-22.85	222.31	-383.76	396.96	352.80	44.17	8.988		
9,850.00	9,839.21	9,575.00	9,500.93	21.85	33.97	-21.93	233.80	-383.85	435.08	391.81	43.27	10.056		
9,900.00	9,889.21	9,592.47	9,511.31	21.95	34.01	-20.90	247.85	-383.96	474.37	431.70	42.67	11.117		
9,950.00	9,939.21	9,606.55	9,519.30	22.06	34.05	-20.12	259.45	-384.05	514.69	472.66	42.03	12.245		
10,000.00	9,989.21	9,619.49	9,526.34	22.17	34.08	-19.44	270.31	-384.13	555.91	514.45	41.46	13.408		
10,050.00	10,039.21	9,631.40	9,532.55	22.28	34.11	-18.85	280.47	-384.21	597.92	556.97	40.95	14.600		
10,100.00	10,089.21	9,642.39	9,538.06	22.38	34.14	-18.32	289.98	-384.28	640.62	600.12	40.50	15.818		
10,150.00	10,139.21	9,650.00	9,541.74	22.49	34.16	-17.97	296.64	-384.33	683.94	643.93	40.01	17.093		
10,200.00	10,189.21	9,661.97	9,547.32	22.60	34.19	-17.43	307.22	-384.41	727.78	688.03	39.75	18.310		
10,250.00	10,239.21	9,675.00	9,553.09	22.71	34.23	-16.88	318.91	-384.50	772.14	732.57	39.57	19.515		
10,300.00	10,289.21	9,675.00	9,553.09	22.82	34.23	-16.88	318.91	-384.50	816.89	777.83	39.06	20.913		
10,350.00	10,339.21	9,686.42	9,557.88	22.92	34.26	-16.42	329.27	-384.58	862.01	823.08	38.93	22.142		
10,400.00	10,389.21	9,700.00	9,563.26	23.03	34.30	-15.90	341.74	-384.68	907.56	868.68	38.89	23.339		
10,450.00	10,439.21	9,700.00	9,563.26	23.14	34.30	-15.90	341.74	-384.68	953.29	914.75	38.55	24.730		
10,500.00	10,489.21	9,700.00	9,563.26	23.25	34.30	-15.90	341.74	-384.68	999.43	961.17	38.27	26.118		
10,550.00	10,539.21	9,712.14	9,567.76	23.35	34.34	-15.45	353.02	-384.76	1,045.70	1,007.43	38.28	27.321		
10,600.00	10,589.21	9,725.00	9,572.22	23.46	34.38	-15.00	365.08	-384.85	1,092.34	1,054.03	38.31	28.512		
10,650.00	10,639.21	9,725.00	9,572.22	23.57	34.38	-15.00	365.08	-384.85	1,139.04	1,100.92	38.13	29.876		
10,700.00	10,689.21	9,725.00	9,572.22	23.68	34.38	-15.00	365.08	-384.85	1,186.01	1,148.04	37.97	31.234		
10,750.00	10,739.21	9,725.00	9,572.22	23.79	34.38	-15.00	365.08	-384.85	1,233.21	1,195.36	37.85	32.583		
10,800.00	10,789.21	9,736.59	9,575.96	23.89	34.41	-14.62	376.05	-384.94	1,280.44	1,242.51	37.93	33.760		
10,850.00	10,839.21	9,740.71	9,577.22	24.00	34.42	-14.48	379.97	-384.97	1,327.89	1,289.98	37.90	35.032		
10,900.00	10,889.21	9,750.00	9,579.94	24.11	34.45	-14.19	388.85	-385.04	1,375.51	1,337.54	37.97	36.227		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 106H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-Copy of MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,950.00	10,939.21	9,750.00	9,579.94	24.22	34.45	-14.19	388.85	-385.04	1,423.19	1,385.27	37.92	37.535		
11,000.00	10,989.21	9,750.00	9,579.94	24.33	34.45	-14.19	388.85	-385.04	1,471.02	1,433.14	37.88	38.833		
11,050.00	11,039.21	9,750.00	9,579.94	24.44	34.45	-14.19	388.85	-385.04	1,518.99	1,481.12	37.86	40.119		
11,100.00	11,089.21	9,750.00	9,579.94	24.54	34.45	-14.19	388.85	-385.04	1,567.08	1,529.23	37.86	41.395		
11,150.00	11,139.21	9,761.47	9,583.07	24.65	34.49	-13.84	399.88	-385.12	1,615.11	1,577.12	37.99	42.513		
11,200.00	11,189.21	9,764.38	9,583.82	24.76	34.50	-13.76	402.70	-385.14	1,663.33	1,625.30	38.04	43.731		
11,250.00	11,239.21	9,775.00	9,586.42	24.87	34.54	-13.45	412.99	-385.22	1,711.71	1,673.54	38.17	44.847		
11,300.00	11,289.21	9,775.00	9,586.42	24.98	34.54	-13.45	412.99	-385.22	1,760.04	1,721.84	38.20	46.078		
11,350.00	11,339.21	9,775.00	9,586.42	25.09	34.54	-13.45	412.99	-385.22	1,808.46	1,770.22	38.24	47.298		
11,400.00	11,389.21	9,775.00	9,586.42	25.20	34.54	-13.45	412.99	-385.22	1,856.96	1,818.68	38.28	48.507		
11,450.00	11,439.21	9,775.00	9,586.42	25.30	34.54	-13.45	412.99	-385.22	1,905.54	1,867.20	38.34	49.705		
11,500.00	11,489.21	9,775.00	9,586.42	25.41	34.54	-13.45	412.99	-385.22	1,954.19	1,915.79	38.40	50.892		
11,550.00	11,539.21	9,775.00	9,586.42	25.52	34.54	-13.45	412.99	-385.22	2,002.91	1,964.44	38.47	52.066		
11,600.00	11,589.21	9,775.00	9,586.42	25.63	34.54	-13.45	412.99	-385.22	2,051.69	2,013.14	38.54	53.231		
11,650.00	11,639.21	9,785.67	9,588.79	25.74	34.57	-13.16	423.39	-385.30	2,100.38	2,061.67	38.71	54.266		
11,700.00	11,689.21	9,787.59	9,589.19	25.85	34.58	-13.11	425.27	-385.31	2,149.21	2,110.41	38.80	55.389		
11,750.00	11,739.21	9,789.45	9,589.58	25.96	34.59	-13.06	427.09	-385.33	2,198.09	2,159.18	38.90	56.500		
11,800.00	11,789.21	9,800.00	9,591.61	26.07	34.62	-12.78	437.44	-385.41	2,247.10	2,208.03	39.07	57.515		
11,850.00	11,839.21	9,800.00	9,591.61	26.17	34.62	-12.78	437.44	-385.41	2,296.03	2,256.86	39.16	58.625		
11,900.00	11,889.21	9,800.00	9,591.61	26.28	34.62	-12.78	437.44	-385.41	2,344.99	2,305.73	39.26	59.725		
11,950.00	11,939.21	9,800.00	9,591.61	26.39	34.62	-12.78	437.44	-385.41	2,394.00	2,354.64	39.37	60.814		
12,000.00	11,989.21	9,800.00	9,591.61	26.50	34.62	-12.78	437.44	-385.41	2,443.05	2,403.58	39.47	61.892		
12,050.00	12,039.21	9,800.00	9,591.61	26.61	34.62	-12.78	437.44	-385.41	2,492.14	2,452.56	39.58	62.960		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.20	0.00	0.00	0.00	-0.57	30.00	-0.30	30.00					
50.00	50.00	49.80	50.00	0.02	0.04	-0.57	30.00	-0.30	30.00	29.94	0.06	473.682		
100.00	100.00	100.20	100.00	0.08	0.08	-0.57	30.00	-0.30	30.00	29.84	0.16	187.470		
150.00	150.00	149.80	150.00	0.19	0.19	-0.57	30.00	-0.30	30.00	29.62	0.38	78.149		
200.00	200.00	200.20	200.00	0.30	0.31	-0.57	30.00	-0.30	30.00	29.39	0.61	49.218		
250.00	250.00	249.80	250.00	0.42	0.42	-0.57	30.00	-0.30	30.00	29.17	0.83	35.998		
300.00	300.00	300.20	300.00	0.53	0.53	-0.57	30.00	-0.30	30.00	28.94	1.06	28.327		
350.00	350.00	349.80	350.00	0.64	0.64	-0.57	30.00	-0.30	30.00	28.72	1.28	23.385		
400.00	400.00	400.20	400.00	0.75	0.75	-0.57	30.00	-0.30	30.00	28.49	1.51	19.887		
450.00	450.00	449.80	450.00	0.87	0.87	-0.57	30.00	-0.30	30.00	28.27	1.73	17.317		
500.00	500.00	500.20	500.00	0.98	0.98	-0.57	30.00	-0.30	30.00	28.04	1.96	15.321		
550.00	550.00	549.80	550.00	1.09	1.09	-0.57	30.00	-0.30	30.00	27.82	2.18	13.749		
600.00	600.00	600.20	600.00	1.20	1.20	-0.57	30.00	-0.30	30.00	27.59	2.41	12.461		
650.00	650.00	649.80	650.00	1.32	1.32	-0.57	30.00	-0.30	30.00	27.37	2.63	11.401		
700.00	700.00	700.20	700.00	1.43	1.43	-0.57	30.00	-0.30	30.00	27.14	2.86	10.500		
750.00	750.00	749.80	750.00	1.54	1.54	-0.57	30.00	-0.30	30.00	26.92	3.08	9.737		
800.00	800.00	800.20	800.00	1.65	1.65	-0.57	30.00	-0.30	30.00	26.69	3.31	9.073		
850.00	850.00	849.80	850.00	1.77	1.77	-0.57	30.00	-0.30	30.00	26.47	3.53	8.498		
900.00	900.00	900.20	900.00	1.88	1.88	-0.57	30.00	-0.30	30.00	26.25	3.76	7.987		
950.00	950.00	949.80	950.00	1.99	1.99	-0.57	30.00	-0.30	30.00	26.02	3.98	7.538		
1,000.00	1,000.00	1,000.20	1,000.00	2.10	2.10	-0.57	30.00	-0.30	30.00	25.80	4.21	7.133		
1,050.00	1,050.00	1,049.80	1,050.00	2.22	2.21	-0.57	30.00	-0.30	30.00	25.57	4.43	6.773		
1,100.00	1,100.00	1,100.20	1,100.00	2.33	2.33	-0.57	30.00	-0.30	30.00	25.35	4.66	6.445		
1,150.00	1,150.00	1,149.80	1,150.00	2.44	2.44	-0.57	30.00	-0.30	30.00	25.12	4.88	6.149		
1,200.00	1,200.00	1,200.20	1,200.00	2.55	2.55	-0.57	30.00	-0.30	30.00	24.90	5.10	5.877		
1,250.00	1,250.00	1,249.80	1,250.00	2.66	2.66	-0.57	30.00	-0.30	30.00	24.67	5.33	5.630		
1,300.00	1,300.00	1,300.20	1,300.00	2.78	2.78	-0.57	30.00	-0.30	30.00	24.45	5.55	5.401		
1,350.00	1,350.00	1,349.80	1,350.00	2.89	2.89	-0.57	30.00	-0.30	30.00	24.22	5.78	5.192		
1,400.00	1,400.00	1,400.20	1,400.00	3.00	3.00	-0.57	30.00	-0.30	30.00	24.00	6.00	4.997		
1,450.00	1,450.00	1,449.80	1,450.00	3.11	3.11	-0.57	30.00	-0.30	30.00	23.77	6.23	4.817		
1,500.00	1,500.00	1,500.20	1,500.00	3.23	3.23	-0.57	30.00	-0.30	30.00	23.55	6.45	4.649		
1,550.00	1,550.00	1,549.80	1,550.00	3.34	3.34	-0.57	30.00	-0.30	30.00	23.32	6.68	4.493		
1,600.00	1,600.00	1,600.20	1,600.00	3.45	3.45	-0.57	30.00	-0.30	30.00	23.10	6.90	4.346		
1,650.00	1,650.00	1,649.80	1,650.00	3.56	3.56	-0.57	30.00	-0.30	30.00	22.87	7.13	4.210		
1,700.00	1,700.00	1,700.20	1,700.00	3.68	3.68	-0.57	30.00	-0.30	30.00	22.65	7.35	4.080		
1,750.00	1,750.00	1,749.80	1,750.00	3.79	3.79	-0.57	30.00	-0.30	30.00	22.43	7.58	3.960		
1,800.00	1,800.00	1,800.20	1,800.00	3.90	3.90	-0.57	30.00	-0.30	30.00	22.20	7.80	3.845		
1,850.00	1,850.00	1,849.80	1,850.00	4.01	4.01	-0.57	30.00	-0.30	30.00	21.98	8.03	3.738		
1,900.00	1,900.00	1,900.20	1,900.00	4.13	4.13	-0.57	30.00	-0.30	30.00	21.75	8.25	3.636		
1,950.00	1,950.00	1,949.80	1,950.00	4.24	4.24	-0.57	30.00	-0.30	30.00	21.53	8.48	3.540		
2,000.00	2,000.00	2,000.20	2,000.00	4.35	4.35	-0.57	30.00	-0.30	30.00	21.30	8.70	3.448		
2,050.00	2,050.00	2,049.80	2,050.00	4.46	4.46	-0.57	30.00	-0.30	30.00	21.08	8.93	3.362		
2,100.00	2,100.00	2,100.20	2,100.00	4.58	4.58	-0.57	30.00	-0.30	30.00	20.85	9.15	3.279		
2,150.00	2,150.00	2,149.80	2,150.00	4.69	4.69	-0.57	30.00	-0.30	30.00	20.63	9.37	3.200		
2,200.00	2,200.00	2,200.20	2,200.00	4.80	4.80	-0.57	30.00	-0.30	30.00	20.40	9.60	3.125		
2,250.00	2,250.00	2,249.80	2,250.00	4.91	4.91	-0.57	30.00	-0.30	30.00	20.18	9.82	3.054		
2,300.00	2,300.00	2,300.20	2,300.00	5.02	5.03	-0.57	30.00	-0.30	30.00	19.95	10.05	2.985		
2,350.00	2,350.00	2,349.80	2,350.00	5.14	5.14	-0.57	30.00	-0.30	30.00	19.73	10.27	2.920		
2,400.00	2,400.00	2,400.20	2,400.00	5.25	5.25	-0.57	30.00	-0.30	30.00	19.50	10.50	2.857		
2,450.00	2,450.00	2,449.80	2,450.00	5.36	5.36	-0.57	30.00	-0.30	30.00	19.28	10.72	2.798		
2,500.00	2,500.00	2,500.20	2,500.00	5.47	5.47	-0.57	30.00	-0.30	30.00	19.05	10.95	2.740		
2,550.00	2,550.00	2,549.80	2,550.00	5.59	5.59	-0.57	30.00	-0.30	30.00	18.83	11.17	2.685		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
2,600.00	2,600.00	2,600.20	2,600.00	5.70	5.70	-0.57	30.00	-0.30	30.00	18.60	11.40	2.632		
2,612.13	2,612.13	2,611.93	2,612.13	5.73	5.73	-0.57	30.00	-0.30	30.00	18.55	11.45	2.620 CC		
2,650.00	2,650.00	2,649.80	2,650.00	5.81	5.81	93.85	30.00	-0.30	30.01	18.40	11.62	2.584		
2,700.00	2,699.99	2,700.21	2,699.99	5.91	5.92	95.41	30.00	-0.30	30.08	18.25	11.83	2.542		
2,750.00	2,749.97	2,749.77	2,749.97	6.01	6.04	98.19	30.00	-0.30	30.26	18.21	12.04	2.512		
2,800.00	2,799.92	2,800.28	2,799.92	6.11	6.15	102.13	30.00	-0.30	30.63	18.37	12.26	2.499		
2,850.00	2,849.85	2,849.65	2,849.85	6.21	6.26	107.10	30.00	-0.30	31.34	18.87	12.47	2.513		
2,900.00	2,899.73	2,899.53	2,899.73	6.31	6.37	112.87	30.00	-0.30	32.52	19.83	12.68	2.564		
2,912.13	2,911.82	2,911.69	2,911.89	6.33	6.40	114.34	29.99	-0.32	32.88	20.15	12.73	2.582		
2,950.00	2,949.58	2,949.68	2,949.88	6.41	6.48	118.52	29.89	-0.61	34.00	21.11	12.89	2.638		
3,000.00	2,999.42	2,999.92	3,000.11	6.52	6.58	122.97	29.57	-1.55	35.30	22.21	13.09	2.697		
3,050.00	3,049.27	3,050.22	3,050.38	6.62	6.67	126.45	29.04	-3.12	36.29	23.00	13.29	2.732		
3,100.00	3,099.11	3,100.57	3,100.68	6.73	6.77	129.14	28.29	-5.32	36.87	23.39	13.48	2.735		
3,150.00	3,148.96	3,150.96	3,150.97	6.84	6.87	131.17	27.32	-8.14	36.97	23.30	13.67	2.704		
3,200.00	3,198.80	3,201.20	3,201.09	6.94	6.97	132.66	26.16	-11.54	36.60	22.74	13.87	2.640		
3,250.00	3,248.65	3,251.19	3,250.94	7.05	7.07	134.07	24.97	-15.05	36.15	22.08	14.07	2.570		
3,300.00	3,298.50	3,301.18	3,300.79	7.16	7.17	135.52	23.77	-18.55	35.72	21.45	14.27	2.503		
3,350.00	3,348.34	3,351.17	3,350.65	7.27	7.27	137.00	22.58	-22.06	35.31	20.84	14.47	2.440		
3,400.00	3,398.19	3,401.16	3,400.50	7.38	7.37	138.52	21.38	-25.57	34.93	20.25	14.68	2.380		
3,450.00	3,448.03	3,451.15	3,450.35	7.50	7.47	140.06	20.18	-29.07	34.57	19.69	14.88	2.323		
3,500.00	3,497.88	3,501.14	3,500.20	7.61	7.58	141.64	18.99	-32.58	34.24	19.16	15.08	2.270		
3,550.00	3,547.73	3,551.13	3,550.06	7.72	7.68	143.25	17.79	-36.08	33.93	18.65	15.29	2.220		
3,600.00	3,597.57	3,601.12	3,599.91	7.84	7.79	144.89	16.59	-39.59	33.65	18.16	15.49	2.173		
3,650.00	3,647.42	3,651.11	3,649.76	7.95	7.89	146.55	15.40	-43.10	33.40	17.71	15.69	2.128		
3,700.00	3,697.26	3,701.10	3,699.61	8.07	8.00	148.23	14.20	-46.60	33.18	17.28	15.90	2.087		
3,750.00	3,747.11	3,751.09	3,749.47	8.18	8.11	149.94	13.00	-50.11	32.98	16.88	16.10	2.048		
3,800.00	3,796.95	3,801.08	3,799.32	8.30	8.22	151.67	11.81	-53.62	32.82	16.51	16.31	2.013		
3,850.00	3,846.80	3,851.07	3,849.17	8.42	8.33	153.41	10.61	-57.12	32.69	16.17	16.51	1.979		
3,900.00	3,896.65	3,901.06	3,899.02	8.53	8.44	155.16	9.42	-60.63	32.58	15.87	16.72	1.949		
3,950.00	3,946.49	3,951.05	3,948.88	8.65	8.55	156.93	8.22	-64.13	32.51	15.59	16.92	1.921		
4,000.00	3,996.34	4,001.04	3,998.73	8.77	8.66	158.70	7.02	-67.64	32.47	15.34	17.13	1.896		
4,042.31	4,038.52	4,043.34	4,040.92	8.87	8.75	160.20	6.01	-70.61	32.46	15.15	17.30	1.876		
4,050.00	4,046.18	4,051.03	4,048.58	8.89	8.77	160.47	5.83	-71.15	32.46	15.12	17.34	1.872		
4,100.00	4,096.03	4,101.02	4,098.43	9.01	8.88	162.24	4.63	-74.65	32.48	14.94	17.54	1.851		
4,150.00	4,145.88	4,151.01	4,148.29	9.13	8.99	164.01	3.43	-78.16	32.53	14.78	17.75	1.833		
4,200.00	4,195.72	4,201.00	4,198.14	9.25	9.11	165.77	2.24	-81.66	32.61	14.65	17.96	1.816		
4,250.00	4,245.57	4,250.99	4,247.99	9.37	9.22	167.52	1.04	-85.17	32.72	14.56	18.17	1.801		
4,300.00	4,295.41	4,300.98	4,297.84	9.49	9.34	169.26	-0.15	-88.68	32.87	14.49	18.38	1.788		
4,350.00	4,345.26	4,350.97	4,347.70	9.61	9.45	170.98	-1.35	-92.18	33.04	14.45	18.59	1.777		
4,400.00	4,395.11	4,400.96	4,397.55	9.73	9.57	172.68	-2.55	-95.69	33.24	14.44	18.80	1.768		
4,450.00	4,444.95	4,450.95	4,447.40	9.85	9.68	174.36	-3.74	-99.20	33.48	14.46	19.02	1.760		
4,500.00	4,494.80	4,500.94	4,497.25	9.97	9.80	176.01	-4.94	-102.70	33.74	14.50	19.23	1.754		
4,550.00	4,544.64	4,550.93	4,547.11	10.09	9.91	177.64	-6.14	-106.21	34.02	14.57	19.45	1.749		
4,600.00	4,594.49	4,600.92	4,596.96	10.22	10.03	179.24	-7.33	-109.71	34.34	14.67	19.67	1.746		
4,650.00	4,644.33	4,650.91	4,646.81	10.34	10.15	-179.19	-8.53	-113.22	34.68	14.79	19.89	1.743		
4,700.00	4,694.18	4,700.90	4,696.66	10.46	10.26	-177.66	-9.73	-116.73	35.04	14.93	20.11	1.742		
4,750.00	4,744.03	4,750.89	4,746.52	10.58	10.38	-176.15	-10.92	-120.23	35.44	15.10	20.34	1.742		
4,800.00	4,793.87	4,800.88	4,796.37	10.71	10.50	-174.68	-12.12	-123.74	35.85	15.29	20.56	1.744		
4,850.00	4,843.72	4,850.87	4,846.22	10.83	10.62	-173.25	-13.31	-127.25	36.29	15.50	20.79	1.746		
4,900.00	4,893.56	4,900.86	4,896.07	10.95	10.74	-171.84	-14.51	-130.75	36.75	15.73	21.02	1.749		
4,950.00	4,943.41	4,950.85	4,945.93	11.08	10.86	-170.48	-15.71	-134.26	37.23	15.98	21.25	1.752		
5,000.00	4,993.26	5,000.84	4,995.78	11.20	10.98	-169.15	-16.90	-137.76	37.73	16.26	21.48	1.757		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	+N/-S (ft)		+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,050.00	5,043.10	5,050.83	5,045.63	11.33	11.10	-167.85	-18.10	-141.27	38.25	16.54	21.71	1.762		
5,100.00	5,092.95	5,100.82	5,095.48	11.45	11.22	-166.60	-19.30	-144.78	38.80	16.85	21.94	1.768		
5,150.00	5,142.79	5,150.81	5,145.33	11.58	11.34	-165.37	-20.49	-148.28	39.35	17.18	22.18	1.774		
5,200.00	5,192.64	5,200.80	5,195.19	11.70	11.46	-164.18	-21.69	-151.79	39.93	17.52	22.42	1.781		
5,250.00	5,242.48	5,250.79	5,245.04	11.83	11.58	-163.03	-22.89	-155.29	40.52	17.87	22.65	1.789		
5,300.00	5,292.33	5,300.78	5,294.89	11.95	11.70	-161.91	-24.08	-158.80	41.13	18.24	22.89	1.797		
5,350.00	5,342.18	5,350.77	5,344.74	12.08	11.82	-160.82	-25.28	-162.31	41.76	18.63	23.13	1.805		
5,400.00	5,392.02	5,400.76	5,394.60	12.20	11.94	-159.77	-26.47	-165.81	42.40	19.02	23.37	1.814		
5,450.00	5,441.87	5,450.75	5,444.45	12.33	12.06	-158.74	-27.67	-169.32	43.05	19.44	23.62	1.823		
5,500.00	5,491.71	5,500.74	5,494.30	12.46	12.18	-157.75	-28.87	-172.83	43.72	19.86	23.86	1.832		
5,550.00	5,541.56	5,550.73	5,544.15	12.58	12.30	-156.79	-30.06	-176.33	44.40	20.29	24.10	1.842		
5,600.00	5,591.41	5,600.72	5,594.01	12.71	12.43	-155.85	-31.26	-179.84	45.09	20.74	24.35	1.852		
5,650.00	5,641.25	5,650.71	5,643.86	12.83	12.55	-154.95	-32.46	-183.34	45.79	21.20	24.59	1.862		
5,700.00	5,691.10	5,700.70	5,693.71	12.96	12.67	-154.07	-33.65	-186.85	46.51	21.67	24.84	1.872		
5,750.00	5,740.94	5,750.69	5,743.56	13.09	12.79	-153.22	-34.85	-190.36	47.23	22.14	25.09	1.883		
5,800.00	5,790.79	5,800.68	5,793.42	13.21	12.92	-152.40	-36.05	-193.86	47.97	22.63	25.33	1.893		
5,850.00	5,840.64	5,850.67	5,843.27	13.34	13.04	-151.60	-37.24	-197.37	48.71	23.13	25.58	1.904		
5,900.00	5,890.48	5,900.66	5,893.12	13.47	13.16	-150.82	-38.44	-200.88	49.46	23.63	25.83	1.915		
5,950.00	5,940.33	5,950.65	5,942.97	13.60	13.29	-150.07	-39.63	-204.38	50.23	24.14	26.08	1.926		
6,000.00	5,990.17	6,000.64	5,992.83	13.72	13.41	-149.34	-40.83	-207.89	51.00	24.66	26.33	1.937		
6,050.00	6,040.02	6,050.63	6,042.68	13.85	13.53	-148.63	-42.03	-211.39	51.78	25.19	26.58	1.948		
6,100.00	6,089.86	6,100.61	6,092.53	13.98	13.66	-147.94	-43.22	-214.90	52.56	25.73	26.83	1.959		
6,150.00	6,139.71	6,150.60	6,142.38	14.11	13.78	-147.28	-44.42	-218.41	53.36	26.27	27.09	1.970		
6,200.00	6,189.56	6,200.59	6,192.24	14.23	13.91	-146.63	-45.62	-221.91	54.16	26.82	27.34	1.981		
6,210.79	6,200.31	6,211.38	6,202.99	14.26	13.93	-146.50	-45.87	-222.67	54.33	26.94	27.39	1.983		
6,250.00	6,239.42	6,250.59	6,242.09	14.35	14.03	-145.89	-46.81	-225.42	54.80	27.21	27.58	1.987		
6,300.00	6,289.32	6,300.57	6,291.94	14.46	14.15	-144.78	-48.01	-228.92	54.92	27.09	27.84	1.973		
6,350.00	6,339.26	6,350.55	6,341.78	14.56	14.28	-143.27	-49.20	-232.43	54.54	26.45	28.09	1.942		
6,400.00	6,389.23	6,400.51	6,391.60	14.66	14.40	-141.30	-50.40	-235.93	53.69	25.34	28.36	1.893		
6,450.00	6,439.22	6,450.44	6,441.39	14.75	14.53	-138.80	-51.59	-239.44	52.41	23.78	28.63	1.830		
6,500.00	6,489.21	6,500.33	6,491.15	14.84	14.65	-135.67	-52.79	-242.94	50.76	21.83	28.93	1.755		
6,510.79	6,500.00	6,511.09	6,501.88	14.86	14.68	131.04	-53.05	-243.69	50.36	21.37	28.99	1.737		
6,550.00	6,539.21	6,550.20	6,540.88	14.93	14.78	133.98	-53.98	-246.43	48.97	19.73	29.23	1.675		
6,600.00	6,589.21	6,600.06	6,590.60	15.03	14.90	137.96	-55.18	-249.93	47.39	17.84	29.55	1.604		
6,650.00	6,639.21	6,649.92	6,640.33	15.13	15.03	142.19	-56.37	-253.43	46.05	16.18	29.86	1.542		
6,700.00	6,689.21	6,700.22	6,690.05	15.23	15.15	146.65	-57.56	-256.92	44.98	14.80	30.18	1.490 Level 3		
6,750.00	6,739.21	6,749.65	6,739.78	15.33	15.28	151.29	-58.76	-260.42	44.19	13.72	30.48	1.450 Level 3		
6,800.00	6,789.21	6,800.49	6,789.50	15.43	15.41	156.07	-59.95	-263.92	43.71	12.95	30.76	1.421 Level 3		
6,850.00	6,839.21	6,849.37	6,839.23	15.54	15.53	160.92	-61.14	-267.42	43.53	12.51	31.02	1.403 Level 3		
6,852.50	6,841.72	6,851.87	6,841.72	15.54	15.53	161.16	-61.20	-267.59	43.53	12.50	31.04	1.403 Level 3		
6,900.00	6,889.21	6,900.77	6,888.95	15.64	15.66	165.77	-62.34	-270.91	43.68	12.41	31.27	1.397 Level 3, ES, SF		
6,950.00	6,939.21	6,949.10	6,938.68	15.74	15.78	170.56	-63.53	-274.41	44.13	12.64	31.49	1.402 Level 3		
7,000.00	6,989.21	7,001.04	6,988.40	15.84	15.91	175.22	-64.72	-277.91	44.89	13.19	31.69	1.416 Level 3		
7,050.00	7,039.21	7,048.82	7,038.13	15.95	16.03	179.69	-65.92	-281.41	45.93	14.06	31.87	1.441 Level 3		
7,100.00	7,089.21	7,101.32	7,087.86	16.05	16.16	-176.05	-67.11	-284.90	47.24	15.20	32.04	1.475 Level 3		
7,150.00	7,139.21	7,148.55	7,137.58	16.15	16.28	-172.04	-68.30	-288.40	48.80	16.61	32.19	1.516		
7,200.00	7,189.21	7,201.59	7,187.31	16.26	16.42	-168.30	-69.50	-291.90	50.58	18.24	32.34	1.564		
7,250.00	7,239.21	7,248.27	7,237.03	16.36	16.53	-164.83	-70.69	-295.39	52.56	20.09	32.48	1.618		
7,300.00	7,289.21	7,301.87	7,286.76	16.46	16.67	-161.62	-71.88	-298.89	54.73	22.10	32.63	1.677		
7,350.00	7,339.21	7,348.00	7,336.48	16.56	16.79	-158.66	-73.07	-302.39	57.05	24.28	32.77	1.741		
7,400.00	7,389.21	7,402.14	7,386.21	16.67	16.92	-155.93	-74.27	-305.89	59.51	26.59	32.92	1.808		
7,450.00	7,439.21	7,447.72	7,435.93	16.77	17.04	-153.43	-75.46	-309.38	62.10	29.03	33.06	1.878		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
7,500.00	7,489.21	7,502.42	7,485.66	16.88	17.18	-151.13	-76.65	-312.88	64.79	31.56	1.950			
7,550.00	7,539.21	7,547.45	7,535.38	16.98	17.29	-149.02	-77.85	-316.38	67.58	34.20	2.025			
7,600.00	7,589.21	7,602.69	7,585.11	17.08	17.43	-147.08	-79.04	-319.88	70.46	36.90	2.100			
7,650.00	7,639.21	7,647.17	7,634.83	17.19	17.55	-145.29	-80.23	-323.37	73.40	39.69	2.178			
7,700.00	7,689.21	7,702.97	7,684.56	17.29	17.69	-143.64	-81.43	-326.87	76.42	42.52	2.255			
7,750.00	7,739.21	7,746.90	7,734.29	17.40	17.80	-142.12	-82.62	-330.37	79.49	45.43	2.334			
7,800.00	7,789.21	7,803.24	7,784.01	17.50	17.94	-140.71	-83.81	-333.86	82.62	48.36	2.412			
7,850.00	7,839.21	7,846.62	7,833.74	17.60	18.05	-139.40	-85.01	-337.36	85.79	51.37	2.492			
7,900.00	7,889.21	7,903.52	7,883.46	17.71	18.20	-138.19	-86.20	-340.86	89.00	54.38	2.571			
7,950.00	7,939.21	7,946.35	7,933.19	17.81	18.31	-137.06	-87.39	-344.36	92.25	57.46	2.651			
8,000.00	7,989.21	8,003.79	7,982.91	17.92	18.45	-136.01	-88.59	-347.85	95.53	60.53	2.729			
8,050.00	8,039.21	8,046.07	8,032.64	18.02	18.56	-135.03	-89.78	-351.35	98.85	63.67	2.810			
8,100.00	8,089.21	8,104.07	8,082.36	18.13	18.71	-134.12	-90.97	-354.85	102.19	66.79	2.887			
8,150.00	8,139.21	8,145.80	8,132.09	18.23	18.82	-133.26	-92.17	-358.35	105.55	69.98	2.967			
8,200.00	8,189.21	8,204.34	8,181.81	18.34	18.96	-132.45	-93.36	-361.84	108.94	73.14	3.043			
8,250.00	8,239.21	8,245.52	8,231.54	18.44	19.07	-131.70	-94.55	-365.34	112.34	76.37	3.123			
8,300.00	8,289.21	8,295.38	8,281.27	18.55	19.20	-130.98	-95.75	-368.84	115.77	79.59	3.200			
8,350.00	8,339.21	8,345.66	8,331.41	18.65	19.32	-130.31	-96.94	-372.34	119.19	82.80	3.276			
8,400.00	8,389.21	8,397.08	8,382.72	18.76	19.44	-129.75	-98.00	-375.44	122.15	85.56	3.338			
8,450.00	8,439.21	8,448.57	8,434.14	18.87	19.54	-129.32	-98.83	-377.88	124.50	87.71	3.384			
8,500.00	8,489.21	8,500.12	8,485.66	18.97	19.64	-129.02	-99.45	-379.67	126.23	89.23	3.412			
8,550.00	8,539.21	8,551.72	8,537.24	19.08	19.73	-128.84	-99.83	-380.81	127.32	90.12	3.423			
8,600.00	8,589.21	8,603.34	8,588.86	19.18	19.83	-128.76	-99.99	-381.28	127.77	90.38	3.417			
8,650.00	8,639.21	8,653.69	8,639.21	19.29	19.92	-128.76	-100.00	-381.30	127.79	90.19	3.399			
8,700.00	8,689.21	8,703.69	8,689.21	19.39	20.02	-128.76	-100.00	-381.30	127.79	89.99	3.380			
8,750.00	8,739.21	8,753.69	8,739.21	19.50	20.11	-128.76	-100.00	-381.30	127.79	89.77	3.362			
8,800.00	8,789.21	8,803.69	8,789.21	19.61	20.21	-128.76	-100.00	-381.30	127.79	89.56	3.343			
8,850.00	8,839.21	8,853.69	8,839.21	19.71	20.31	-128.76	-100.00	-381.30	127.79	89.35	3.325			
8,900.00	8,889.21	8,903.69	8,889.21	19.82	20.41	-128.76	-100.00	-381.30	127.79	89.14	3.307			
8,950.00	8,939.21	8,953.69	8,939.21	19.92	20.50	-128.76	-100.00	-381.30	127.79	88.93	3.289			
9,000.00	8,989.21	9,003.69	8,989.21	20.03	20.60	-128.76	-100.00	-381.30	127.79	88.72	3.271			
9,050.00	9,039.21	9,053.69	9,039.21	20.14	20.70	-128.76	-100.00	-381.30	127.79	88.51	3.253			
9,100.00	9,089.21	9,103.69	9,089.21	20.24	20.80	-128.76	-100.00	-381.30	127.79	88.30	3.236			
9,150.00	9,139.21	9,153.69	9,139.21	20.35	20.90	-128.76	-100.00	-381.30	127.79	88.08	3.218			
9,200.00	9,189.21	9,203.69	9,189.21	20.46	21.00	-128.76	-100.00	-381.30	127.79	87.87	3.201			
9,250.00	9,239.21	9,253.69	9,239.21	20.56	21.09	-128.76	-100.00	-381.30	127.79	87.66	3.184			
9,300.00	9,289.21	9,303.69	9,289.21	20.67	21.19	-128.76	-100.00	-381.30	127.79	87.45	3.168			
9,350.00	9,339.21	9,353.69	9,339.21	20.78	21.29	-128.76	-100.00	-381.30	127.79	87.23	3.151			
9,400.00	9,389.21	9,403.69	9,389.21	20.88	21.39	-128.76	-100.00	-381.30	127.79	87.02	3.135			
9,450.00	9,439.21	9,453.69	9,439.21	20.99	21.49	-128.76	-100.00	-381.30	127.79	86.81	3.118			
9,500.00	9,489.21	9,503.69	9,489.21	21.10	21.59	-128.76	-100.00	-381.30	127.79	86.60	3.102			
9,550.00	9,539.21	9,553.69	9,539.21	21.20	21.69	-128.76	-100.00	-381.30	127.79	86.38	3.086			
9,600.00	9,589.21	9,603.69	9,589.21	21.31	21.79	-128.76	-100.00	-381.30	127.79	86.17	3.070			
9,650.00	9,639.21	9,653.69	9,639.21	21.42	21.89	-128.76	-100.00	-381.30	127.79	85.96	3.055			
9,700.00	9,689.21	9,703.69	9,689.21	21.53	21.99	-128.76	-100.00	-381.30	127.79	85.74	3.039			
9,750.00	9,739.21	9,761.75	9,747.19	21.63	22.10	-127.85	-97.44	-381.32	126.47	84.31	3.000			
9,800.00	9,789.21	9,820.01	9,804.62	21.74	22.21	-124.25	-87.90	-381.39	121.64	79.51	2.887			
9,850.00	9,839.21	9,875.20	9,857.58	21.85	22.29	-117.72	-72.48	-381.51	114.30	72.20	2.715			
9,900.00	9,889.21	9,926.21	9,904.65	21.95	22.37	-108.20	-52.88	-381.66	106.40	64.14	2.517			
9,950.00	9,939.21	9,972.49	9,945.32	22.06	22.42	-96.18	-30.84	-381.83	100.95	58.23	2.363			
9,972.02	9,961.23	9,991.32	9,961.23	22.11	22.45	-90.44	-20.77	-381.91	100.26	57.33	2.335			
10,000.00	9,989.21	10,013.91	9,979.77	22.17	22.47	-83.10	-7.86	-382.00	101.53	58.44	2.356			

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,050.00	10,039.21	10,050.68	10,008.58	22.28	22.51	-70.82	14.97	-382.18	110.76	67.99	42.76	2.590		
10,100.00	10,089.21	10,083.17	10,032.50	22.38	22.55	-60.52	36.93	-382.35	128.83	87.11	41.72	3.088		
10,150.00	10,139.21	10,111.82	10,052.33	22.49	22.57	-52.42	57.62	-382.50	154.10	113.71	40.39	3.815		
10,200.00	10,189.21	10,137.12	10,068.77	22.60	22.60	-46.20	76.84	-382.65	184.63	145.51	39.12	4.720		
10,250.00	10,239.21	10,159.49	10,082.44	22.71	22.62	-41.44	94.55	-382.79	218.92	180.88	38.04	5.755		
10,300.00	10,289.21	10,179.34	10,093.86	22.82	22.65	-37.75	110.77	-382.91	255.96	218.82	37.14	6.891		
10,350.00	10,339.21	10,200.00	10,105.03	22.92	22.67	-34.39	128.16	-383.04	295.08	258.53	36.56	8.072		
10,400.00	10,389.21	10,212.79	10,111.56	23.03	22.69	-32.52	139.15	-383.13	335.73	299.90	35.83	9.370		
10,450.00	10,439.21	10,225.00	10,117.52	23.14	22.70	-30.88	149.81	-383.21	377.67	342.38	35.29	10.703		
10,500.00	10,489.21	10,239.70	10,124.33	23.25	22.72	-29.07	162.84	-383.31	420.60	385.62	34.98	12.025		
10,550.00	10,539.21	10,250.00	10,128.86	23.35	22.74	-27.91	172.09	-383.38	464.37	429.73	34.64	13.407		
10,600.00	10,589.21	10,261.69	10,133.76	23.46	22.76	-26.67	182.70	-383.46	508.82	474.39	34.43	14.779		
10,650.00	10,639.21	10,275.00	10,139.02	23.57	22.78	-25.37	194.93	-383.55	553.87	519.55	34.32	16.137		
10,700.00	10,689.21	10,275.00	10,139.02	23.68	22.78	-25.37	194.93	-383.55	599.41	565.42	33.99	17.636		
10,750.00	10,739.21	10,287.91	10,143.79	23.79	22.80	-24.20	206.92	-383.64	645.31	611.33	33.98	18.992		
10,800.00	10,789.21	10,300.00	10,147.97	23.89	22.83	-23.19	218.27	-383.73	691.66	657.68	33.98	20.355		
10,850.00	10,839.21	10,300.00	10,147.97	24.00	22.83	-23.19	218.27	-383.73	738.25	704.44	33.81	21.833		
10,900.00	10,889.21	10,308.28	10,150.66	24.11	22.85	-22.54	226.09	-383.79	785.15	751.34	33.81	23.220		
10,950.00	10,939.21	10,314.08	10,152.46	24.22	22.86	-22.10	231.61	-383.83	832.30	798.50	33.80	24.622		
11,000.00	10,989.21	10,325.00	10,155.68	24.33	22.89	-21.32	242.04	-383.91	879.72	845.84	33.88	25.969		
11,050.00	11,039.21	10,325.00	10,155.68	24.44	22.89	-21.32	242.04	-383.91	927.23	893.40	33.84	27.404		
11,100.00	11,089.21	10,325.00	10,155.68	24.54	22.89	-21.32	242.04	-383.91	974.99	941.17	33.82	28.829		
11,150.00	11,139.21	10,333.59	10,158.04	24.65	22.91	-20.73	250.30	-383.98	1,022.86	988.94	33.91	30.163		
11,200.00	11,189.21	10,337.71	10,159.12	24.76	22.92	-20.46	254.28	-384.01	1,070.89	1,036.92	33.97	31.528		
11,250.00	11,239.21	10,341.58	10,160.11	24.87	22.93	-20.22	258.02	-384.03	1,119.04	1,085.01	34.03	32.882		
11,300.00	11,289.21	10,350.00	10,162.14	24.98	22.96	-19.70	266.19	-384.10	1,167.35	1,133.20	34.14	34.189		
11,350.00	11,339.21	10,350.00	10,162.14	25.09	22.96	-19.70	266.19	-384.10	1,215.69	1,181.49	34.20	35.550		
11,400.00	11,389.21	10,350.00	10,162.14	25.20	22.96	-19.70	266.19	-384.10	1,264.17	1,229.91	34.26	36.899		
11,450.00	11,439.21	10,350.00	10,162.14	25.30	22.96	-19.70	266.19	-384.10	1,312.75	1,278.42	34.33	38.235		
11,500.00	11,489.21	10,350.00	10,162.14	25.41	22.96	-19.70	266.19	-384.10	1,361.44	1,327.03	34.42	39.560		
11,550.00	11,539.21	10,360.60	10,164.50	25.52	22.99	-19.07	276.53	-384.18	1,410.07	1,375.50	34.57	40.789		
11,600.00	11,589.21	10,363.22	10,165.04	25.63	23.00	-18.93	279.08	-384.20	1,458.85	1,424.17	34.68	42.068		
11,650.00	11,639.21	10,365.70	10,165.55	25.74	23.00	-18.79	281.51	-384.21	1,507.69	1,472.90	34.79	43.336		
11,700.00	11,689.21	10,375.00	10,167.33	25.85	23.04	-18.28	290.64	-384.28	1,556.66	1,521.71	34.94	44.546		
11,750.00	11,739.21	10,375.00	10,167.33	25.96	23.04	-18.28	290.64	-384.28	1,605.57	1,570.52	35.05	45.806		
11,800.00	11,789.21	10,375.00	10,167.33	26.07	23.04	-18.28	290.64	-384.28	1,654.56	1,619.39	35.16	47.055		
11,850.00	11,839.21	10,375.00	10,167.33	26.17	23.04	-18.28	290.64	-384.28	1,703.60	1,668.32	35.28	48.290		
11,900.00	11,889.21	10,375.00	10,167.33	26.28	23.04	-18.28	290.64	-384.28	1,752.69	1,717.29	35.40	49.514		
11,950.00	11,939.21	10,375.00	10,167.33	26.39	23.04	-18.28	290.64	-384.28	1,801.84	1,766.32	35.52	50.725		
12,000.00	11,989.21	10,375.00	10,167.33	26.50	23.04	-18.28	290.64	-384.28	1,851.03	1,815.38	35.65	51.925		
12,050.00	12,039.21	10,375.00	10,167.33	26.61	23.04	-18.28	290.64	-384.28	1,900.26	1,864.48	35.78	53.111		
12,100.00	12,089.21	10,375.00	10,167.33	26.72	23.04	-18.28	290.64	-384.28	1,949.54	1,913.62	35.91	54.287		
12,150.00	12,139.21	10,385.10	10,169.06	26.83	23.07	-17.76	300.59	-384.36	1,998.71	1,962.63	36.09	55.387		
12,200.00	12,189.21	10,386.62	10,169.30	26.94	23.08	-17.69	302.09	-384.37	2,048.01	2,011.78	36.23	56.530		
12,250.00	12,239.21	10,388.08	10,169.53	27.05	23.08	-17.62	303.54	-384.38	2,097.34	2,060.97	36.37	57.662		
12,284.40	12,273.62	10,389.06	10,169.68	27.12	23.09	-17.57	304.50	-384.39	2,131.29	2,094.82	36.47	58.434		
12,300.00	12,289.21	10,389.54	10,169.75	27.16	23.09	-14.25	304.98	-384.39	2,146.65	2,110.13	36.52	58.783		
12,325.00	12,314.17	10,400.00	10,171.23	27.21	23.13	-11.01	315.33	-384.47	2,171.19	2,134.57	36.62	59.289		
12,350.00	12,339.01	10,400.00	10,171.23	27.26	23.13	-9.11	315.33	-384.47	2,195.29	2,158.61	36.68	59.846		
12,375.00	12,363.67	10,400.00	10,171.23	27.32	23.13	-7.76	315.33	-384.47	2,219.04	2,182.30	36.74	60.397		
12,400.00	12,388.09	10,400.00	10,171.23	27.37	23.13	-6.77	315.33	-384.47	2,242.39	2,205.60	36.80	60.940		
12,425.00	12,412.19	10,400.00	10,171.23	27.42	23.13	-6.01	315.33	-384.47	2,265.29	2,228.44	36.85	61.475		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 306H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
12,450.00	12,435.91	10,400.00	10,171.23	27.48	23.13	-5.41	315.33	-384.47	2,287.69	2,250.79	36.90	62.000		
12,475.00	12,459.19	10,400.00	10,171.23	27.53	23.13	-4.92	315.33	-384.47	2,309.54	2,272.60	36.94	62.513		
12,500.00	12,481.96	10,400.00	10,171.23	27.58	23.13	-4.52	315.33	-384.47	2,330.80	2,293.81	36.99	63.014		
12,525.00	12,504.16	10,400.00	10,171.23	27.63	23.13	-4.19	315.33	-384.47	2,351.43	2,314.40	37.03	63.501		
12,550.00	12,525.73	10,400.00	10,171.23	27.68	23.13	-3.91	315.33	-384.47	2,371.39	2,334.32	37.07	63.973		
12,575.00	12,546.60	10,410.13	10,172.44	27.72	23.17	-3.65	325.39	-384.55	2,390.51	2,353.38	37.13	64.379		
12,600.00	12,566.73	10,412.93	10,172.74	27.77	23.18	-3.44	328.18	-384.57	2,408.93	2,371.76	37.17	64.804		
12,625.00	12,586.05	10,425.00	10,173.83	27.82	23.23	-3.25	340.19	-384.66	2,426.66	2,389.43	37.23	65.173		
12,650.00	12,604.52	10,425.00	10,173.83	27.87	23.23	-3.10	340.19	-384.66	2,443.39	2,406.13	37.26	65.573		
12,675.00	12,622.08	10,425.00	10,173.83	27.91	23.23	-2.97	340.19	-384.66	2,459.28	2,421.99	37.29	65.952		
12,700.00	12,638.69	10,425.00	10,173.83	27.96	23.23	-2.86	340.19	-384.66	2,474.30	2,436.98	37.31	66.309		
12,725.00	12,654.29	10,425.00	10,173.83	28.01	23.23	-2.76	340.19	-384.66	2,488.42	2,451.08	37.34	66.642		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	44.52	30.30	29.80	42.50					
50.00	50.00	50.00	50.00	0.02	0.04	44.52	30.30	29.80	42.50	42.44	0.06	669.307		
100.00	100.00	100.00	100.00	0.08	0.08	44.52	30.30	29.80	42.50	42.34	0.16	266.309		
150.00	150.00	150.00	150.00	0.19	0.19	44.52	30.30	29.80	42.50	42.11	0.38	110.573		
200.00	200.00	200.00	200.00	0.30	0.30	44.52	30.30	29.80	42.50	41.89	0.61	69.771		
250.00	250.00	250.00	250.00	0.42	0.42	44.52	30.30	29.80	42.50	41.66	0.83	50.965		
300.00	300.00	300.00	300.00	0.53	0.53	44.52	30.30	29.80	42.50	41.44	1.06	40.144		
350.00	350.00	350.00	350.00	0.64	0.64	44.52	30.30	29.80	42.50	41.22	1.28	33.114		
400.00	400.00	400.00	400.00	0.75	0.75	44.52	30.30	29.80	42.50	40.99	1.51	28.179		
450.00	450.00	450.00	450.00	0.87	0.87	44.52	30.30	29.80	42.50	40.77	1.73	24.524		
500.00	500.00	500.00	500.00	0.98	0.98	44.52	30.30	29.80	42.50	40.54	1.96	21.708		
550.00	550.00	550.00	550.00	1.09	1.09	44.52	30.30	29.80	42.50	40.32	2.18	19.473		
600.00	600.00	600.00	600.00	1.20	1.20	44.52	30.30	29.80	42.50	40.09	2.41	17.654		
650.00	650.00	650.00	650.00	1.32	1.32	44.52	30.30	29.80	42.50	39.87	2.63	16.147		
700.00	700.00	700.00	700.00	1.43	1.43	44.52	30.30	29.80	42.50	39.64	2.86	14.876		
750.00	750.00	750.00	750.00	1.54	1.54	44.52	30.30	29.80	42.50	39.42	3.08	13.791		
800.00	800.00	800.00	800.00	1.65	1.65	44.52	30.30	29.80	42.50	39.19	3.31	12.854		
850.00	850.00	850.00	850.00	1.77	1.77	44.52	30.30	29.80	42.50	38.97	3.53	12.036		
900.00	900.00	900.00	900.00	1.88	1.88	44.52	30.30	29.80	42.50	38.74	3.76	11.315		
950.00	950.00	950.00	950.00	1.99	1.99	44.52	30.30	29.80	42.50	38.52	3.98	10.676		
1,000.00	1,000.00	1,000.00	1,000.00	2.10	2.10	44.52	30.30	29.80	42.50	38.29	4.21	10.106		
1,050.00	1,050.00	1,050.00	1,050.00	2.22	2.22	44.52	30.30	29.80	42.50	38.07	4.43	9.593		
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	44.52	30.30	29.80	42.50	37.84	4.65	9.130		
1,150.00	1,150.00	1,150.00	1,150.00	2.44	2.44	44.52	30.30	29.80	42.50	37.62	4.88	8.709		
1,200.00	1,200.00	1,200.00	1,200.00	2.55	2.55	44.52	30.30	29.80	42.50	37.39	5.10	8.326		
1,250.00	1,250.00	1,250.05	1,250.05	2.66	2.66	44.52	30.30	29.80	42.50	37.17	5.33	7.976		
1,300.00	1,300.00	1,300.59	1,300.59	2.78	2.77	44.40	30.09	29.47	42.12	36.58	5.54	7.599		
1,350.00	1,350.00	1,351.12	1,351.12	2.89	2.86	44.06	29.52	28.57	41.10	35.35	5.75	7.150		
1,400.00	1,400.00	1,401.60	1,401.56	3.00	2.95	43.48	28.60	27.11	39.44	33.49	5.95	6.626		
1,450.00	1,450.00	1,452.04	1,451.94	3.11	3.05	42.57	27.32	25.10	37.15	30.99	6.16	6.032		
1,500.00	1,500.00	1,502.31	1,502.12	3.23	3.15	41.25	25.69	22.54	34.24	27.88	6.36	5.381		
1,550.00	1,550.00	1,552.21	1,551.91	3.34	3.25	39.58	23.97	19.82	31.16	24.58	6.58	4.739		
1,600.00	1,600.00	1,602.10	1,601.70	3.45	3.35	37.55	22.24	17.10	28.11	21.32	6.78	4.143		
1,650.00	1,650.00	1,652.00	1,651.50	3.56	3.45	35.02	20.52	14.38	25.10	18.10	7.00	3.587		
1,700.00	1,700.00	1,701.90	1,701.29	3.68	3.56	31.81	18.80	11.66	22.16	14.94	7.21	3.072		
1,750.00	1,750.00	1,751.79	1,751.08	3.79	3.67	27.64	17.07	8.94	19.30	11.87	7.43	2.598		
1,800.00	1,800.00	1,801.69	1,800.87	3.90	3.77	22.06	15.35	6.22	16.58	8.94	7.65	2.169		
1,850.00	1,850.00	1,851.58	1,850.66	4.01	3.88	14.41	13.62	3.50	14.08	6.21	7.87	1.789		
1,900.00	1,900.00	1,901.48	1,900.45	4.13	3.99	3.76	11.90	0.78	11.93	3.83	8.10	1.473 Level 3		
1,950.00	1,950.00	1,951.37	1,950.25	4.24	4.10	-10.78	10.17	-1.94	10.36	2.03	8.33	1.243 Level 2		
2,000.00	2,000.00	2,001.27	2,000.04	4.35	4.22	-28.86	8.45	-4.66	9.65	1.08	8.57	1.126 Level 2		
2,009.20	2,009.20	2,010.45	2,009.20	4.37	4.24	-32.38	8.13	-5.16	9.63	1.02	8.61	1.119 Level 2, CC, ES, SF		
2,050.00	2,050.00	2,051.17	2,049.83	4.46	4.33	-47.64	6.73	-7.38	9.98	1.20	8.78	1.137 Level 2		
2,100.00	2,100.00	2,101.06	2,099.62	4.58	4.44	-63.65	5.00	-10.09	11.27	2.28	8.99	1.254 Level 3		
2,150.00	2,150.00	2,150.96	2,149.41	4.69	4.56	-75.66	3.28	-12.81	13.24	4.05	9.19	1.440 Level 3		
2,200.00	2,200.00	2,200.85	2,199.21	4.80	4.67	-84.29	1.55	-15.53	15.63	6.23	9.40	1.663		
2,250.00	2,250.00	2,250.75	2,249.00	4.91	4.79	-90.54	-0.17	-18.25	18.28	8.67	9.61	1.902		
2,300.00	2,300.00	2,300.65	2,298.79	5.02	4.90	-95.17	-1.90	-20.97	21.09	11.27	9.82	2.147		
2,350.00	2,350.00	2,350.54	2,348.58	5.14	5.02	-98.69	-3.62	-23.69	24.01	13.97	10.04	2.392		
2,400.00	2,400.00	2,400.44	2,398.37	5.25	5.14	-101.44	-5.35	-26.41	26.99	16.74	10.25	2.633		
2,450.00	2,450.00	2,450.33	2,448.16	5.36	5.25	-103.64	-7.07	-29.13	30.03	19.56	10.47	2.868		
2,500.00	2,500.00	2,500.23	2,497.96	5.47	5.37	-105.44	-8.79	-31.85	33.10	22.41	10.69	3.097		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1														Offset Site Error:	0.00 ft
Survey Program: 0-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
2,550.00	2,550.00	2,550.12	2,547.75	5.59	5.49	-106.92	-10.52	-34.57	36.20	25.29	10.91	3.319			
2,600.00	2,600.00	2,600.02	2,597.54	5.70	5.61	-108.18	-12.24	-37.29	39.32	28.20	11.13	3.534			
2,612.13	2,612.13	2,612.13	2,609.62	5.73	5.64	-108.45	-12.66	-37.95	40.08	28.90	11.18	3.585			
2,650.00	2,650.00	2,649.93	2,647.34	5.81	5.73	-15.24	-13.97	-40.01	42.28	30.94	11.34	3.728			
2,700.00	2,699.99	2,700.14	2,697.17	5.91	5.85	-16.45	-15.69	-42.73	44.64	33.08	11.55	3.863			
2,750.00	2,749.97	2,749.82	2,747.03	6.01	5.97	-17.77	-17.42	-45.45	46.39	34.64	11.76	3.945			
2,800.00	2,799.92	2,800.21	2,796.89	6.11	6.09	-19.26	-19.15	-48.17	47.55	35.59	11.96	3.975			
2,850.00	2,849.85	2,849.77	2,846.77	6.21	6.21	-20.96	-20.87	-50.90	48.13	35.96	12.17	3.955			
2,900.00	2,899.73	2,899.74	2,896.63	6.31	6.33	-22.91	-22.60	-53.62	48.15	35.77	12.38	3.890			
2,912.13	2,911.82	2,911.86	2,908.73	6.33	6.36	-23.43	-23.02	-54.28	48.07	35.65	12.43	3.868			
2,950.00	2,949.58	2,949.70	2,946.49	6.41	6.45	-25.10	-24.33	-56.34	47.80	35.22	12.59	3.798			
3,000.00	2,999.42	3,000.33	2,996.36	6.52	6.58	-27.32	-26.05	-59.07	47.51	34.71	12.80	3.712			
3,050.00	3,049.27	3,049.63	3,046.22	6.62	6.70	-29.57	-27.78	-61.79	47.28	34.27	13.01	3.634			
3,100.00	3,099.11	3,100.40	3,096.08	6.73	6.82	-31.84	-29.51	-64.51	47.13	33.91	13.23	3.564			
3,150.00	3,148.96	3,149.56	3,145.94	6.84	6.94	-34.12	-31.24	-67.24	47.06	33.62	13.44	3.501			
3,175.56	3,174.44	3,175.10	3,171.42	6.89	7.00	-35.28	-32.12	-68.63	47.05	33.50	13.55	3.472			
3,200.00	3,198.80	3,200.47	3,195.80	6.94	7.07	-36.40	-32.96	-69.96	47.06	33.40	13.66	3.445			
3,250.00	3,248.65	3,249.49	3,245.66	7.05	7.19	-38.68	-34.69	-72.68	47.13	33.25	13.88	3.395			
3,300.00	3,298.50	3,300.54	3,295.52	7.16	7.31	-40.94	-36.42	-75.41	47.28	33.17	14.11	3.351			
3,350.00	3,348.34	3,349.42	3,345.38	7.27	7.43	-43.19	-38.14	-78.13	47.50	33.17	14.33	3.315			
3,400.00	3,398.19	3,400.61	3,395.24	7.38	7.56	-45.42	-39.87	-80.85	47.80	33.23	14.56	3.282			
3,450.00	3,448.03	3,449.35	3,445.10	7.50	7.68	-47.61	-41.60	-83.57	48.16	33.37	14.79	3.256			
3,500.00	3,497.88	3,500.68	3,494.96	7.61	7.80	-49.77	-43.32	-86.30	48.60	33.57	15.03	3.234			
3,550.00	3,547.73	3,549.28	3,544.82	7.72	7.92	-51.89	-45.05	-89.02	49.10	33.84	15.26	3.217			
3,600.00	3,597.57	3,600.75	3,594.68	7.84	8.05	-53.96	-46.78	-91.74	49.67	34.16	15.50	3.204			
3,650.00	3,647.42	3,649.21	3,644.54	7.95	8.17	-55.99	-48.50	-94.47	50.30	34.56	15.74	3.195			
3,700.00	3,697.26	3,700.82	3,694.41	8.07	8.30	-57.95	-50.23	-97.19	50.99	35.01	15.99	3.190			
3,750.00	3,747.11	3,749.14	3,744.27	8.18	8.42	-59.87	-51.96	-99.91	51.75	35.52	16.23	3.189			
3,800.00	3,796.95	3,800.89	3,794.13	8.30	8.55	-61.73	-53.68	-102.64	52.55	36.08	16.48	3.189			
3,850.00	3,846.80	3,849.07	3,843.99	8.42	8.67	-63.53	-55.41	-105.36	53.42	36.69	16.72	3.194			
3,900.00	3,896.65	3,900.96	3,893.85	8.53	8.80	-65.27	-57.14	-108.08	54.33	37.35	16.97	3.201			
3,950.00	3,946.49	3,949.00	3,943.71	8.65	8.92	-66.95	-58.86	-110.80	55.29	38.07	17.22	3.211			
4,000.00	3,996.34	3,998.97	3,993.57	8.77	9.04	-68.58	-60.59	-113.53	56.30	38.83	17.47	3.222			
4,050.00	4,046.18	4,048.93	4,043.43	8.89	9.17	-70.14	-62.32	-116.25	57.35	39.63	17.72	3.236			
4,100.00	4,096.03	4,101.11	4,093.29	9.01	9.30	-71.65	-64.04	-118.97	58.44	40.46	17.98	3.250			
4,150.00	4,145.88	4,148.86	4,143.15	9.13	9.41	-73.10	-65.77	-121.70	59.57	41.34	18.23	3.268			
4,200.00	4,195.72	4,201.18	4,193.01	9.25	9.54	-74.50	-67.50	-124.42	60.74	42.25	18.49	3.285			
4,250.00	4,245.57	4,248.79	4,242.87	9.37	9.66	-75.84	-69.22	-127.14	61.94	43.21	18.74	3.306			
4,300.00	4,295.41	4,301.25	4,292.73	9.49	9.80	-77.13	-70.95	-129.86	63.18	44.18	19.00	3.329			
4,350.00	4,345.26	4,348.72	4,342.59	9.61	9.91	-78.37	-72.68	-132.59	64.45	45.20	19.25	3.346			
4,400.00	4,395.11	4,401.32	4,392.45	9.73	10.05	-79.57	-74.40	-135.31	65.74	46.23	19.51	3.370			
4,450.00	4,444.95	4,448.65	4,442.32	9.85	10.16	-80.71	-76.13	-138.03	67.07	47.31	19.76	3.395			
4,500.00	4,494.80	4,498.61	4,492.18	9.97	10.29	-81.81	-77.86	-140.76	68.41	48.40	20.01	3.419			
4,550.00	4,544.64	4,548.58	4,542.04	10.09	10.41	-82.87	-79.58	-143.48	69.79	49.52	20.27	3.443			
4,600.00	4,594.49	4,601.46	4,591.90	10.22	10.55	-83.89	-81.31	-146.20	71.18	50.65	20.53	3.467			
4,650.00	4,644.33	4,648.51	4,641.76	10.34	10.66	-84.87	-83.04	-148.93	72.60	51.82	20.78	3.494			
4,700.00	4,694.18	4,701.53	4,691.62	10.46	10.80	-85.81	-84.77	-151.65	74.04	53.00	21.04	3.519			
4,750.00	4,744.03	4,748.44	4,741.48	10.58	10.92	-86.71	-86.49	-154.37	75.50	54.21	21.29	3.546			
4,800.00	4,793.87	4,801.60	4,791.34	10.71	11.05	-87.58	-88.22	-157.09	76.97	55.42	21.55	3.571			
4,850.00	4,843.72	4,848.37	4,841.20	10.83	11.17	-88.42	-89.95	-159.82	78.46	56.66	21.80	3.599			
4,900.00	4,893.56	4,901.67	4,891.06	10.95	11.30	-89.23	-91.67	-162.54	79.97	57.91	22.06	3.625			
4,950.00	4,943.41	4,948.30	4,940.92	11.08	11.42	-90.00	-93.40	-165.26	81.50	59.19	22.31	3.653			

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,993.26	5,001.74	4,990.78	11.20	11.55	-90.75	-95.13	-167.99	83.03	60.46	22.58	3.678		
5,050.00	5,043.10	5,048.23	5,040.64	11.33	11.67	-91.47	-96.85	-170.71	84.59	61.76	22.82	3.706		
5,100.00	5,092.95	5,101.81	5,090.50	11.45	11.80	-92.16	-98.58	-173.43	86.15	63.06	23.09	3.732		
5,150.00	5,142.79	5,148.16	5,140.36	11.58	11.92	-92.83	-100.31	-176.16	87.73	64.39	23.33	3.760		
5,200.00	5,192.64	5,201.88	5,190.23	11.70	12.06	-93.48	-102.03	-178.88	89.32	65.72	23.60	3.785		
5,250.00	5,242.48	5,248.09	5,240.09	11.83	12.17	-94.10	-103.76	-181.60	90.92	67.07	23.84	3.813		
5,300.00	5,292.33	5,301.95	5,289.95	11.95	12.31	-94.70	-105.49	-184.32	92.52	68.42	24.11	3.838		
5,350.00	5,342.18	5,348.02	5,339.81	12.08	12.42	-95.28	-107.21	-187.05	94.14	69.79	24.35	3.866		
5,400.00	5,392.02	5,402.02	5,389.67	12.20	12.56	-95.84	-108.94	-189.77	95.77	71.16	24.62	3.890		
5,450.00	5,441.87	5,447.95	5,439.53	12.33	12.68	-96.39	-110.67	-192.49	97.41	72.55	24.86	3.918		
5,500.00	5,491.71	5,502.09	5,489.39	12.46	12.81	-96.91	-112.39	-195.22	99.06	73.93	25.13	3.942		
5,550.00	5,541.56	5,547.88	5,539.25	12.58	12.93	-97.42	-114.12	-197.94	100.71	75.34	25.37	3.969		
5,600.00	5,591.41	5,602.16	5,589.11	12.71	13.07	-97.91	-115.85	-200.66	102.37	76.73	25.64	3.993		
5,650.00	5,641.25	5,647.80	5,638.97	12.83	13.18	-98.38	-117.57	-203.39	104.04	78.16	25.88	4.020		
5,700.00	5,691.10	5,702.23	5,688.83	12.96	13.32	-98.84	-119.30	-206.11	105.72	79.57	26.15	4.043		
5,750.00	5,740.94	5,747.73	5,738.69	13.09	13.43	-99.29	-121.03	-208.83	107.40	81.01	26.39	4.070		
5,800.00	5,790.79	5,802.30	5,788.55	13.21	13.57	-99.72	-122.75	-211.55	109.09	82.43	26.66	4.092		
5,850.00	5,840.64	5,847.66	5,838.41	13.34	13.69	-100.14	-124.48	-214.28	110.78	83.88	26.90	4.118		
5,900.00	5,890.48	5,902.37	5,888.28	13.47	13.82	-100.54	-126.21	-217.00	112.48	85.32	27.17	4.141		
5,950.00	5,940.33	5,947.59	5,938.14	13.60	13.94	-100.94	-127.93	-219.72	114.19	86.78	27.41	4.166		
6,000.00	5,990.17	6,002.44	5,988.00	13.72	14.08	-101.32	-129.66	-222.45	115.90	88.22	27.68	4.188		
6,050.00	6,040.02	6,047.52	6,037.86	13.85	14.19	-101.69	-131.39	-225.17	117.62	89.70	27.92	4.213		
6,100.00	6,089.86	6,102.51	6,087.72	13.98	14.33	-102.05	-133.11	-227.89	119.34	91.15	28.18	4.234		
6,150.00	6,139.71	6,147.45	6,137.58	14.11	14.44	-102.40	-134.84	-230.62	121.06	92.64	28.43	4.259		
6,200.00	6,189.56	6,202.58	6,187.44	14.23	14.58	-102.74	-136.57	-233.34	122.79	94.10	28.69	4.279		
6,210.79	6,200.31	6,208.20	6,198.19	14.26	14.60	-102.81	-136.94	-233.93	123.17	94.43	28.74	4.286		
6,250.00	6,239.42	6,247.39	6,237.30	14.35	14.70	-103.00	-138.30	-236.06	124.48	95.56	28.92	4.304		
6,300.00	6,289.32	6,302.64	6,287.18	14.46	14.84	-102.97	-140.02	-238.79	126.03	96.85	29.17	4.320		
6,350.00	6,339.26	6,347.34	6,337.05	14.56	14.95	-102.66	-141.75	-241.51	127.43	98.05	29.38	4.337		
6,400.00	6,389.23	6,402.70	6,386.91	14.66	15.09	-102.07	-143.48	-244.23	128.70	99.08	29.61	4.346		
6,450.00	6,439.22	6,447.25	6,436.75	14.75	15.20	-101.20	-145.20	-246.95	129.85	100.04	29.81	4.356		
6,500.00	6,489.21	6,502.83	6,486.56	14.84	15.34	-100.07	-146.93	-249.67	130.92	100.89	30.03	4.360		
6,510.79	6,500.00	6,507.93	6,497.31	14.86	15.36	166.15	-147.30	-250.26	131.14	101.08	30.06	4.363		
6,550.00	6,539.21	6,547.06	6,536.36	14.93	15.45	167.19	-148.65	-252.39	131.97	101.75	30.22	4.367		
6,600.00	6,589.21	6,603.04	6,586.15	15.03	15.60	168.49	-150.38	-255.11	133.08	102.64	30.44	4.372		
6,650.00	6,639.21	6,646.86	6,635.94	15.13	15.71	169.78	-152.10	-257.83	134.27	103.63	30.64	4.383		
6,700.00	6,689.21	6,703.25	6,685.73	15.23	15.85	171.04	-153.83	-260.55	135.52	104.66	30.86	4.391		
6,750.00	6,739.21	6,746.65	6,735.52	15.33	15.96	172.28	-155.55	-263.27	136.84	105.79	31.05	4.407		
6,800.00	6,789.21	6,803.46	6,785.32	15.43	16.10	173.49	-157.27	-265.99	138.22	106.94	31.27	4.420		
6,850.00	6,839.21	6,846.44	6,835.11	15.54	16.21	174.68	-159.00	-268.71	139.66	108.20	31.46	4.439		
6,900.00	6,889.21	6,903.67	6,884.90	15.64	16.36	175.85	-160.72	-271.43	141.16	109.48	31.68	4.455		
6,950.00	6,939.21	6,946.23	6,934.69	15.74	16.47	176.99	-162.45	-274.15	142.72	110.85	31.87	4.478		
7,000.00	6,989.21	7,003.87	6,984.48	15.84	16.61	178.10	-164.17	-276.87	144.33	112.24	32.09	4.498		
7,050.00	7,039.21	7,046.02	7,034.27	15.95	16.72	179.19	-165.90	-279.59	145.99	113.72	32.27	4.524		
7,100.00	7,089.21	7,104.08	7,084.07	16.05	16.87	-179.75	-167.62	-282.30	147.71	115.22	32.49	4.546		
7,150.00	7,139.21	7,145.81	7,133.86	16.15	16.97	-178.71	-169.34	-285.02	149.48	116.81	32.67	4.575		
7,200.00	7,189.21	7,204.29	7,183.65	16.26	17.12	-177.69	-171.07	-287.74	151.29	118.40	32.89	4.600		
7,250.00	7,239.21	7,245.61	7,233.44	16.36	17.23	-176.70	-172.79	-290.46	153.16	120.09	33.07	4.631		
7,300.00	7,289.21	7,304.50	7,283.23	16.46	17.37	-175.73	-174.52	-293.18	155.06	121.77	33.29	4.658		
7,350.00	7,339.21	7,345.40	7,333.03	16.56	17.48	-174.79	-176.24	-295.90	157.01	123.54	33.47	4.691		
7,400.00	7,389.21	7,404.71	7,382.82	16.67	17.63	-173.87	-177.97	-298.62	159.00	125.31	33.69	4.720		
7,450.00	7,439.21	7,445.19	7,432.61	16.77	17.73	-172.97	-179.69	-301.34	161.04	127.17	33.87	4.755		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,500.00	7,489.21	7,504.92	7,482.40	16.88	17.88	-172.10	-181.42	-304.06	163.11	129.02	34.09	4.785		
7,550.00	7,539.21	7,544.98	7,532.19	16.98	17.98	-171.24	-183.14	-306.78	165.21	130.95	34.26	4.822		
7,600.00	7,589.21	7,605.12	7,581.98	17.08	18.14	-170.41	-184.86	-309.50	167.36	132.87	34.49	4.853		
7,650.00	7,639.21	7,644.77	7,631.78	17.19	18.24	-169.60	-186.59	-312.22	169.53	134.87	34.66	4.891		
7,700.00	7,689.21	7,705.33	7,681.57	17.29	18.39	-168.81	-188.31	-314.94	171.74	136.86	34.89	4.923		
7,750.00	7,739.21	7,744.56	7,731.36	17.40	18.49	-168.04	-190.04	-317.65	173.98	138.92	35.06	4.962		
7,800.00	7,789.21	7,805.54	7,781.15	17.50	18.65	-167.29	-191.76	-320.37	176.26	140.97	35.29	4.995		
7,850.00	7,839.21	7,844.35	7,830.94	17.60	18.74	-166.56	-193.49	-323.09	178.56	143.10	35.46	5.035		
7,900.00	7,889.21	7,905.75	7,880.74	17.71	18.90	-165.85	-195.21	-325.81	180.89	145.20	35.69	5.068		
7,950.00	7,939.21	7,944.15	7,930.53	17.81	19.00	-165.16	-196.93	-328.53	183.25	147.38	35.86	5.110		
8,000.00	7,989.21	8,005.96	7,980.32	17.92	19.16	-164.48	-198.66	-331.25	185.63	149.54	36.09	5.143		
8,050.00	8,039.21	8,043.94	8,030.11	18.02	19.25	-163.83	-200.38	-333.97	188.04	151.77	36.27	5.185		
8,100.00	8,089.21	8,106.17	8,079.90	18.13	19.41	-163.18	-202.11	-336.69	190.47	153.97	36.50	5.219		
8,150.00	8,139.21	8,143.73	8,129.69	18.23	19.50	-162.56	-203.83	-339.41	192.93	156.26	36.67	5.261		
8,200.00	8,189.21	8,206.38	8,179.49	18.34	19.66	-161.95	-205.56	-342.13	195.41	158.50	36.90	5.295		
8,250.00	8,239.21	8,243.52	8,229.28	18.44	19.76	-161.35	-207.28	-344.85	197.91	160.83	37.08	5.338		
8,300.00	8,289.21	8,293.42	8,279.07	18.55	19.89	-160.77	-209.01	-347.57	200.43	163.15	37.28	5.376		
8,350.00	8,339.21	8,343.31	8,328.86	18.65	20.01	-160.21	-210.73	-350.29	202.97	165.48	37.48	5.415		
8,400.00	8,389.21	8,406.79	8,378.65	18.76	20.17	-159.66	-212.45	-353.00	205.53	167.81	37.72	5.449		
8,450.00	8,439.21	8,443.10	8,428.44	18.87	20.27	-159.12	-214.18	-355.72	208.11	170.21	37.89	5.492		
8,500.00	8,489.21	8,507.00	8,478.24	18.97	20.43	-158.60	-215.90	-358.44	210.70	172.57	38.13	5.526		
8,550.00	8,539.21	8,542.90	8,528.03	19.08	20.52	-158.08	-217.63	-361.16	213.32	175.01	38.30	5.569		
8,600.00	8,589.21	8,592.79	8,577.82	19.18	20.65	-157.58	-219.35	-363.88	215.95	177.44	38.51	5.608		
8,650.00	8,639.21	8,642.69	8,627.61	19.29	20.77	-157.10	-221.08	-366.60	218.59	179.88	38.72	5.646		
8,700.00	8,689.21	8,692.58	8,677.40	19.39	20.90	-156.62	-222.80	-369.32	221.25	182.33	38.92	5.685		
8,750.00	8,739.21	8,742.48	8,727.20	19.50	21.03	-156.16	-224.52	-372.04	223.93	184.80	39.13	5.723		
8,800.00	8,789.21	8,793.60	8,778.22	19.61	21.15	-155.70	-226.25	-374.76	226.56	187.22	39.34	5.759		
8,850.00	8,839.21	8,846.16	8,830.71	19.71	21.25	-155.33	-227.69	-377.03	228.70	189.17	39.53	5.785		
8,900.00	8,889.21	8,898.78	8,883.29	19.82	21.34	-155.07	-228.74	-378.69	230.28	190.55	39.73	5.796		
8,950.00	8,939.21	8,951.45	8,935.94	19.92	21.43	-154.90	-229.41	-379.75	231.27	191.35	39.92	5.794		
9,000.00	8,989.21	9,004.14	8,988.63	20.03	21.52	-154.83	-229.69	-380.19	231.69	191.58	40.11	5.776		
9,050.00	9,039.21	9,054.72	9,039.21	20.14	21.61	-154.83	-229.70	-380.20	231.70	191.39	40.31	5.748		
9,100.00	9,089.21	9,104.72	9,089.21	20.24	21.70	-154.83	-229.70	-380.20	231.70	191.19	40.52	5.719		
9,150.00	9,139.21	9,154.72	9,139.21	20.35	21.79	-154.83	-229.70	-380.20	231.70	190.99	40.72	5.690		
9,200.00	9,189.21	9,204.72	9,189.21	20.46	21.88	-154.83	-229.70	-380.20	231.70	190.78	40.92	5.663		
9,250.00	9,239.21	9,254.72	9,239.21	20.56	21.97	-154.83	-229.70	-380.20	231.70	190.58	41.12	5.635		
9,300.00	9,289.21	9,304.72	9,289.21	20.67	22.05	-154.83	-229.70	-380.20	231.70	190.38	41.32	5.608		
9,350.00	9,339.21	9,354.72	9,339.21	20.78	22.14	-154.83	-229.70	-380.20	231.70	190.18	41.52	5.580		
9,400.00	9,389.21	9,404.72	9,389.21	20.88	22.23	-154.83	-229.70	-380.20	231.70	189.98	41.72	5.553		
9,450.00	9,439.21	9,454.72	9,439.21	20.99	22.32	-154.83	-229.70	-380.20	231.70	189.78	41.93	5.527		
9,500.00	9,489.21	9,504.72	9,489.21	21.10	22.41	-154.83	-229.70	-380.20	231.70	189.58	42.13	5.500		
9,550.00	9,539.21	9,554.72	9,539.21	21.20	22.50	-154.83	-229.70	-380.20	231.70	189.37	42.33	5.474		
9,600.00	9,589.21	9,604.72	9,589.21	21.31	22.59	-154.83	-229.70	-380.20	231.70	189.17	42.53	5.448		
9,650.00	9,639.21	9,654.72	9,639.21	21.42	22.68	-154.83	-229.70	-380.20	231.70	188.97	42.73	5.422		
9,700.00	9,689.21	9,704.72	9,689.21	21.53	22.77	-154.83	-229.70	-380.20	231.70	188.77	42.94	5.396		
9,750.00	9,739.21	9,754.72	9,739.21	21.63	22.86	-154.83	-229.70	-380.20	231.70	188.56	43.14	5.371		
9,800.00	9,789.21	9,804.72	9,789.21	21.74	22.95	-154.83	-229.70	-380.20	231.70	188.36	43.34	5.346		
9,850.00	9,839.21	9,854.72	9,839.21	21.85	23.04	-154.83	-229.70	-380.20	231.70	188.15	43.55	5.321		
9,900.00	9,889.21	9,904.72	9,889.21	21.95	23.13	-154.83	-229.70	-380.20	231.70	187.95	43.75	5.296		
9,950.00	9,939.21	9,954.72	9,939.21	22.06	23.22	-154.83	-229.70	-380.20	231.70	187.75	43.96	5.271		
10,000.00	9,989.21	10,004.72	9,989.21	22.17	23.31	-154.83	-229.70	-380.20	231.70	187.54	44.16	5.247		
10,050.00	10,039.21	10,054.72	10,039.21	22.28	23.40	-154.83	-229.70	-380.20	231.70	187.34	44.36	5.223		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference	Highside Toolface (°)	Offset Wellbore Centre +N-S (ft)	+E-W (ft)	Distance Between Centres (ft)	Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.00	10,089.21	10,104.72	10,089.21	22.38	23.49	-154.83	-229.70	-380.20	231.70	187.13	44.57	5.199		
10,150.00	10,139.21	10,158.87	10,143.36	22.49	23.59	-154.82	-229.61	-380.20	231.66	186.89	44.77	5.175		
10,200.00	10,189.21	10,246.42	10,230.24	22.60	23.73	-153.74	-219.88	-380.28	226.63	182.13	44.49	5.093		
10,250.00	10,239.21	10,327.88	10,308.24	22.71	23.81	-150.79	-196.73	-380.45	213.91	170.25	43.66	4.899		
10,300.00	10,289.21	10,399.79	10,372.96	22.82	23.86	-145.76	-165.54	-380.69	194.94	152.30	42.64	4.572		
10,350.00	10,339.21	10,461.09	10,423.91	22.92	23.88	-138.32	-131.52	-380.95	171.67	129.82	41.85	4.102		
10,400.00	10,389.21	10,512.37	10,462.89	23.03	23.88	-128.17	-98.25	-381.21	146.50	104.80	41.70	3.513		
10,450.00	10,439.21	10,554.97	10,492.42	23.14	23.88	-115.48	-67.56	-381.44	122.68	80.08	42.60	2.880		
10,500.00	10,489.21	10,590.41	10,514.81	23.25	23.87	-101.37	-40.11	-381.65	105.17	60.66	44.50	2.363		
10,539.47	10,528.68	10,614.21	10,528.68	23.33	23.87	-90.44	-20.77	-381.80	100.15	54.47	45.68	2.192		
10,550.00	10,539.21	10,620.03	10,531.93	23.35	23.87	-87.68	-15.94	-381.84	100.53	54.78	45.76	2.197		
10,600.00	10,589.21	10,644.98	10,545.16	23.46	23.86	-75.90	5.21	-382.00	112.46	67.91	44.55	2.524		
10,650.00	10,639.21	10,666.18	10,555.52	23.57	23.86	-66.49	23.71	-382.14	137.89	95.76	42.13	3.273		
10,700.00	10,689.21	10,684.35	10,563.73	23.68	23.85	-59.23	39.91	-382.27	171.63	131.60	40.03	4.287		
10,750.00	10,739.21	10,700.00	10,570.32	23.79	23.85	-53.66	54.11	-382.37	210.15	171.62	38.53	5.454		
10,800.00	10,789.21	10,713.71	10,575.70	23.89	23.85	-49.30	66.72	-382.47	251.55	214.04	37.50	6.707		
10,850.00	10,839.21	10,725.00	10,579.85	24.00	23.85	-46.07	77.21	-382.55	294.79	258.02	36.77	8.017		
10,900.00	10,889.21	10,736.30	10,583.77	24.11	23.84	-43.12	87.82	-382.63	339.30	303.00	36.30	9.347		
10,950.00	10,939.21	10,745.73	10,586.83	24.22	23.84	-40.88	96.73	-382.70	384.72	348.77	35.95	10.700		
11,000.00	10,989.21	10,750.00	10,588.17	24.33	23.84	-39.92	100.79	-382.73	430.87	395.25	35.62	12.096		
11,050.00	11,039.21	10,761.72	10,591.64	24.44	23.84	-37.47	111.98	-382.82	477.47	441.93	35.55	13.433		
11,100.00	11,089.21	10,768.56	10,593.54	24.54	23.84	-36.15	118.55	-382.87	524.54	489.10	35.44	14.802		
11,150.00	11,139.21	10,775.00	10,595.24	24.65	23.84	-34.97	124.76	-382.92	571.95	536.57	35.38	16.167		
11,200.00	11,189.21	10,775.00	10,595.24	24.76	23.84	-34.97	124.76	-382.92	619.69	584.42	35.27	17.569		
11,250.00	11,239.21	10,785.60	10,597.85	24.87	23.85	-33.17	135.04	-382.99	667.57	632.23	35.34	18.889		
11,300.00	11,289.21	10,790.36	10,598.95	24.98	23.85	-32.41	139.66	-383.03	715.70	680.34	35.36	20.239		
11,350.00	11,339.21	10,800.00	10,601.04	25.09	23.85	-30.97	149.08	-383.10	764.06	728.60	35.45	21.550		
11,400.00	11,389.21	10,800.00	10,601.04	25.20	23.85	-30.97	149.08	-383.10	812.46	777.00	35.47	22.907		
11,450.00	11,439.21	10,800.00	10,601.04	25.30	23.85	-30.97	149.08	-383.10	861.05	825.55	35.50	24.253		
11,500.00	11,489.21	10,800.00	10,601.04	25.41	23.85	-30.97	149.08	-383.10	909.80	874.24	35.56	25.588		
11,550.00	11,539.21	10,809.25	10,602.86	25.52	23.86	-29.68	158.14	-383.17	958.54	922.85	35.69	26.858		
11,600.00	11,589.21	10,812.28	10,603.42	25.63	23.86	-29.28	161.12	-383.19	1,007.42	971.64	35.78	28.153		
11,650.00	11,639.21	10,815.11	10,603.93	25.74	23.86	-28.91	163.91	-383.22	1,056.39	1,020.50	35.89	29.436		
11,700.00	11,689.21	10,825.00	10,605.57	25.85	23.87	-27.69	173.66	-383.29	1,105.50	1,069.46	36.04	30.677		
11,750.00	11,739.21	10,825.00	10,605.57	25.96	23.87	-27.69	173.66	-383.29	1,154.55	1,118.42	36.14	31.951		
11,800.00	11,789.21	10,825.00	10,605.57	26.07	23.87	-27.69	173.66	-383.29	1,203.69	1,167.45	36.24	33.214		
11,850.00	11,839.21	10,825.00	10,605.57	26.17	23.87	-27.69	173.66	-383.29	1,252.89	1,216.54	36.35	34.466		
11,900.00	11,889.21	10,825.00	10,605.57	26.28	23.87	-27.69	173.66	-383.29	1,302.15	1,265.68	36.47	35.706		
11,950.00	11,939.21	10,825.00	10,605.57	26.39	23.87	-27.69	173.66	-383.29	1,351.46	1,314.87	36.59	36.934		
12,000.00	11,989.21	10,825.00	10,605.57	26.50	23.87	-27.69	173.66	-383.29	1,400.83	1,364.11	36.72	38.151		
12,050.00	12,039.21	10,825.00	10,605.57	26.61	23.87	-27.69	173.66	-383.29	1,450.24	1,413.39	36.85	39.356		
12,100.00	12,089.21	10,834.23	10,606.91	26.72	23.88	-26.64	182.79	-383.36	1,499.57	1,462.55	37.02	40.510		
12,150.00	12,139.21	10,835.84	10,607.13	26.83	23.88	-26.46	184.38	-383.37	1,549.01	1,511.85	37.16	41.686		
12,200.00	12,189.21	10,837.37	10,607.33	26.94	23.88	-26.29	185.90	-383.38	1,598.47	1,561.17	37.30	42.852		
12,250.00	12,239.21	10,838.82	10,607.51	27.05	23.88	-26.14	187.34	-383.39	1,647.97	1,610.52	37.45	44.006		
12,284.40	12,273.62	10,839.79	10,607.63	27.12	23.88	-26.04	188.30	-383.40	1,682.03	1,644.48	37.55	44.795		
12,300.00	12,289.21	10,840.27	10,607.69	27.16	23.88	-20.77	188.78	-383.41	1,697.45	1,659.86	37.60	45.151		
12,325.00	12,314.17	10,850.00	10,608.80	27.21	23.90	-15.48	198.45	-383.48	1,722.10	1,684.40	37.69	45.687		
12,350.00	12,339.01	10,850.00	10,608.80	27.26	23.90	-12.56	198.45	-383.48	1,746.36	1,708.60	37.76	46.252		
12,375.00	12,363.67	10,850.00	10,608.80	27.32	23.90	-10.55	198.45	-383.48	1,770.31	1,732.49	37.82	46.810		
12,400.00	12,388.09	10,850.00	10,608.80	27.37	23.90	-9.09	198.45	-383.48	1,793.89	1,756.02	37.88	47.360		
12,425.00	12,412.19	10,850.00	10,608.80	27.42	23.90	-7.99	198.45	-383.48	1,817.07	1,779.13	37.93	47.900		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
12,450.00	12,435.91	10,850.00	10,608.80	27.48	23.90	-7.13	198.45	-383.48	1,839.78	1,801.79	37.99	48.430		
12,475.00	12,459.19	10,850.00	10,608.80	27.53	23.90	-6.44	198.45	-383.48	1,861.99	1,823.95	38.04	48.948		
12,500.00	12,481.96	10,850.00	10,608.80	27.58	23.90	-5.89	198.45	-383.48	1,883.65	1,845.56	38.09	49.452		
12,525.00	12,504.16	10,850.00	10,608.80	27.63	23.90	-5.42	198.45	-383.48	1,904.73	1,866.59	38.14	49.942		
12,550.00	12,525.73	10,860.25	10,609.75	27.68	23.91	-5.00	208.65	-383.56	1,925.05	1,886.84	38.21	50.383		
12,575.00	12,546.60	10,863.29	10,609.98	27.72	23.92	-4.66	211.68	-383.58	1,944.75	1,906.49	38.26	50.832		
12,600.00	12,566.73	10,875.00	10,610.73	27.77	23.94	-4.36	223.37	-383.67	1,963.82	1,925.50	38.32	51.241		
12,625.00	12,586.05	10,875.00	10,610.73	27.82	23.94	-4.12	223.37	-383.67	1,981.99	1,943.62	38.37	51.661		
12,650.00	12,604.52	10,875.00	10,610.73	27.87	23.94	-3.92	223.37	-383.67	1,999.39	1,960.98	38.41	52.060		
12,675.00	12,622.08	10,875.00	10,610.73	27.91	23.94	-3.74	223.37	-383.67	2,016.00	1,977.55	38.45	52.438		
12,700.00	12,638.69	10,875.00	10,610.73	27.96	23.94	-3.58	223.37	-383.67	2,031.80	1,993.31	38.49	52.794		
12,725.00	12,654.29	10,875.00	10,610.73	28.01	23.94	-3.45	223.37	-383.67	2,046.75	2,008.23	38.53	53.127		
12,750.00	12,668.85	10,888.29	10,611.22	28.07	23.98	-3.31	236.65	-383.77	2,060.63	2,022.04	38.58	53.406		
12,775.00	12,682.33	10,901.64	10,611.34	28.12	24.01	-3.20	249.99	-383.87	2,073.80	2,035.16	38.64	53.669		
12,800.00	12,694.69	10,901.64	10,611.34	28.18	24.01	-3.11	249.99	-383.87	2,085.83	2,047.15	38.68	53.924		
12,825.00	12,705.89	10,907.52	10,611.37	28.25	24.03	-3.03	244.10	-383.83	2,096.94	2,058.20	38.74	54.134		
12,850.00	12,715.91	10,918.60	10,611.26	28.32	24.07	-2.95	266.96	-384.00	2,107.05	2,068.27	38.78	54.327		
12,875.00	12,724.72	10,941.95	10,611.15	28.40	24.16	-2.88	290.31	-384.18	2,115.96	2,077.11	38.85	54.463		
12,900.00	12,732.29	10,965.74	10,611.04	28.49	24.26	-2.82	314.10	-384.37	2,123.63	2,084.71	38.92	54.568		
12,925.00	12,738.60	10,989.90	10,610.93	28.58	24.38	-2.77	338.25	-384.55	2,130.05	2,091.07	38.98	54.641		
12,950.00	12,743.64	11,014.36	10,610.81	28.68	24.51	-2.73	362.71	-384.74	2,135.20	2,096.15	39.05	54.675		
12,975.00	12,747.39	11,039.06	10,610.70	28.79	24.65	-2.71	387.41	-384.93	2,139.06	2,099.94	39.12	54.673		
13,000.00	12,749.84	11,063.92	10,610.58	28.90	24.79	-2.69	412.27	-385.12	2,141.63	2,102.43	39.20	54.637		
13,025.00	12,750.99	11,088.89	10,610.46	29.02	24.95	-2.68	437.23	-385.31	2,142.89	2,103.62	39.27	54.569		
13,036.61	12,751.08	11,100.49	10,610.41	29.07	25.02	-2.68	448.84	-385.40	2,143.03	2,103.73	39.30	54.526		
13,050.00	12,751.01	11,113.88	10,610.35	29.14	25.11	-2.68	462.23	-385.50	2,143.03	2,103.68	39.35	54.466		
13,100.00	12,750.78	11,163.88	10,610.11	29.41	25.46	-2.68	512.23	-385.88	2,143.03	2,103.52	39.51	54.241		
13,150.00	12,750.55	11,213.88	10,609.88	29.71	25.84	-2.68	562.23	-386.27	2,143.04	2,103.35	39.69	54.000		
13,200.00	12,750.32	11,263.88	10,609.64	30.02	26.24	-2.68	612.23	-386.65	2,143.04	2,103.17	39.87	53.747		
13,250.00	12,750.09	11,313.88	10,609.41	30.37	26.67	-2.68	662.22	-387.03	2,143.04	2,102.97	40.08	53.476		
13,300.00	12,749.86	11,363.88	10,609.17	30.73	27.12	-2.68	712.22	-387.42	2,143.05	2,102.76	40.29	53.194		
13,350.00	12,749.62	11,413.88	10,608.94	31.13	27.59	-2.68	762.22	-387.80	2,143.05	2,102.53	40.51	52.896		
13,400.00	12,749.39	11,463.88	10,608.70	31.53	28.09	-2.68	812.22	-388.18	2,143.05	2,102.30	40.75	52.588		
13,450.00	12,749.16	11,513.88	10,608.47	31.97	28.60	-2.68	862.22	-388.57	2,143.06	2,102.05	41.00	52.266		
13,500.00	12,748.93	11,563.88	10,608.23	32.41	29.14	-2.68	912.21	-388.95	2,143.06	2,101.80	41.26	51.936		
13,550.00	12,748.70	11,613.88	10,608.00	32.89	29.69	-2.68	962.21	-389.33	2,143.06	2,101.52	41.54	51.593		
13,600.00	12,748.47	11,663.88	10,607.77	33.38	30.26	-2.68	1,012.21	-389.71	2,143.07	2,101.24	41.82	51.244		
13,650.00	12,748.24	11,713.88	10,607.53	33.89	30.84	-2.68	1,062.21	-390.10	2,143.07	2,100.95	42.12	50.883		
13,700.00	12,748.00	11,763.88	10,607.30	34.41	31.44	-2.68	1,112.21	-390.48	2,143.07	2,100.65	42.42	50.517		
13,750.00	12,747.77	11,813.88	10,607.06	34.96	32.05	-2.68	1,162.20	-390.86	2,143.08	2,100.34	42.74	50.142		
13,800.00	12,747.54	11,863.88	10,606.83	35.51	32.69	-2.68	1,212.20	-391.25	2,143.08	2,100.01	43.07	49.763		
13,850.00	12,747.31	11,913.88	10,606.59	36.08	33.33	-2.68	1,262.20	-391.63	2,143.08	2,099.68	43.40	49.375		
13,900.00	12,747.08	11,963.88	10,606.36	36.66	33.98	-2.68	1,312.20	-392.01	2,143.09	2,099.34	43.75	48.986		
13,950.00	12,746.85	12,013.88	10,606.12	37.26	34.65	-2.68	1,362.20	-392.40	2,143.09	2,098.98	44.11	48.589		
14,000.00	12,746.62	12,063.88	10,605.89	37.87	35.32	-2.68	1,412.19	-392.78	2,143.09	2,098.62	44.47	48.191		
14,050.00	12,746.38	12,113.88	10,605.65	38.50	36.01	-2.68	1,462.19	-393.16	2,143.10	2,098.25	44.85	47.788		
14,100.00	12,746.15	12,163.88	10,605.42	39.13	36.71	-2.68	1,512.19	-393.54	2,143.10	2,097.87	45.23	47.385		
14,150.00	12,745.92	12,213.88	10,605.18	39.78	37.41	-2.68	1,562.19	-393.93	2,143.10	2,097.48	45.62	46.976		
14,200.00	12,745.69	12,263.88	10,604.95	40.43	38.13	-2.68	1,612.19	-394.31	2,143.10	2,097.09	46.02	46.569		
14,250.00	12,745.46	12,313.88	10,604.71	41.10	38.85	-2.68	1,662.18	-394.69	2,143.11	2,096.68	46.43	46.159		
14,300.00	12,745.23	12,363.88	10,604.48	41.77	39.58	-2.68	1,712.18	-395.08	2,143.11	2,096.27	46.84	45.750		
14,350.00	12,745.00	12,413.88	10,604.24	42.45	40.32	-2.68	1,762.18	-395.46	2,143.11	2,095.85	47.27	45.339		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
14,400.00	12,744.76	12,463.88	10,604.01	43.14	41.06	-2.68	1,812.18	-395.84	2,143.12	2,095.42	47.70	44.930		
14,450.00	12,744.53	12,513.88	10,603.77	43.85	41.81	-2.68	1,862.18	-396.23	2,143.12	2,094.98	48.14	44.519		
14,500.00	12,744.30	12,563.88	10,603.54	44.55	42.57	-2.68	1,912.17	-396.61	2,143.12	2,094.54	48.58	44.112		
14,550.00	12,744.07	12,613.88	10,603.30	45.27	43.34	-2.68	1,962.17	-396.99	2,143.13	2,094.09	49.04	43.704		
14,600.00	12,743.84	12,663.88	10,603.07	45.99	44.11	-2.68	2,012.17	-397.37	2,143.13	2,093.63	49.50	43.299		
14,650.00	12,743.61	12,713.88	10,602.84	46.72	44.88	-2.68	2,062.17	-397.76	2,143.13	2,093.17	49.96	42.895		
14,700.00	12,743.38	12,763.88	10,602.60	47.45	45.66	-2.68	2,112.17	-398.14	2,143.14	2,092.70	50.43	42.494		
14,750.00	12,743.14	12,813.88	10,602.37	48.20	46.45	-2.68	2,162.16	-398.52	2,143.14	2,092.23	50.91	42.094		
14,800.00	12,742.91	12,863.88	10,602.13	48.94	47.24	-2.68	2,212.16	-398.91	2,143.14	2,091.75	51.40	41.698		
14,850.00	12,742.68	12,913.88	10,601.90	49.70	48.03	-2.68	2,262.16	-399.29	2,143.15	2,091.26	51.89	41.303		
14,900.00	12,742.45	12,963.88	10,601.66	50.45	48.83	-2.68	2,312.16	-399.67	2,143.15	2,090.77	52.38	40.913		
14,950.00	12,742.22	13,013.88	10,601.43	51.22	49.63	-2.68	2,362.16	-400.06	2,143.15	2,090.27	52.89	40.524		
15,000.00	12,741.99	13,063.88	10,601.19	51.99	50.44	-2.68	2,412.15	-400.44	2,143.16	2,089.77	53.39	40.140		
15,050.00	12,741.76	13,113.88	10,600.96	52.76	51.25	-2.68	2,462.15	-400.82	2,143.16	2,089.26	53.90	39.758		
15,100.00	12,741.52	13,163.88	10,600.72	53.54	52.06	-2.68	2,512.15	-401.21	2,143.16	2,088.74	54.42	39.381		
15,150.00	12,741.29	13,213.88	10,600.49	54.32	52.88	-2.68	2,562.15	-401.59	2,143.17	2,088.22	54.94	39.007		
15,200.00	12,741.06	13,263.88	10,600.25	55.10	53.70	-2.68	2,612.15	-401.97	2,143.17	2,087.70	55.47	38.637		
15,250.00	12,740.83	13,313.88	10,600.02	55.90	54.52	-2.68	2,662.14	-402.35	2,143.17	2,087.17	56.00	38.269		
15,300.00	12,740.60	13,363.88	10,599.78	56.69	55.34	-2.68	2,712.14	-402.74	2,143.18	2,086.64	56.54	37.907		
15,350.00	12,740.37	13,413.88	10,599.55	57.49	56.17	-2.68	2,762.14	-403.12	2,143.18	2,086.10	57.08	37.548		
15,400.00	12,740.14	13,463.88	10,599.31	58.28	57.00	-2.68	2,812.14	-403.50	2,143.18	2,085.56	57.62	37.194		
15,450.00	12,739.90	13,513.88	10,599.08	59.09	57.83	-2.68	2,862.14	-403.89	2,143.19	2,085.01	58.17	36.842		
15,500.00	12,739.67	13,563.88	10,598.84	59.90	58.67	-2.68	2,912.13	-404.27	2,143.19	2,084.46	58.72	36.496		
15,550.00	12,739.44	13,613.88	10,598.61	60.71	59.51	-2.68	2,962.13	-404.65	2,143.19	2,083.91	59.28	36.153		
15,600.00	12,739.21	13,663.88	10,598.38	61.52	60.35	-2.68	3,012.13	-405.04	2,143.20	2,083.35	59.84	35.814		
15,650.00	12,738.98	13,713.88	10,598.14	62.33	61.19	-2.68	3,062.13	-405.42	2,143.20	2,082.79	60.41	35.479		
15,700.00	12,738.75	13,763.88	10,597.91	63.15	62.03	-2.68	3,112.13	-405.80	2,143.20	2,082.23	60.97	35.149		
15,750.00	12,738.52	13,813.88	10,597.67	63.97	62.88	-2.68	3,162.12	-406.18	2,143.21	2,081.66	61.55	34.822		
15,800.00	12,738.28	13,863.88	10,597.44	64.80	63.73	-2.68	3,212.12	-406.57	2,143.21	2,081.09	62.12	34.501		
15,850.00	12,738.05	13,913.88	10,597.20	65.62	64.58	-2.68	3,262.12	-406.95	2,143.21	2,080.51	62.70	34.182		
15,900.00	12,737.82	13,963.88	10,596.97	66.45	65.43	-2.68	3,312.12	-407.33	2,143.21	2,079.93	63.28	33.868		
15,950.00	12,737.59	14,013.88	10,596.73	67.28	66.28	-2.68	3,362.12	-407.72	2,143.22	2,079.35	63.87	33.558		
16,000.00	12,737.36	14,063.88	10,596.50	68.11	67.14	-2.68	3,412.11	-408.10	2,143.22	2,078.77	64.45	33.252		
16,050.00	12,737.13	14,113.88	10,596.26	68.95	67.99	-2.68	3,462.11	-408.48	2,143.22	2,078.18	65.04	32.950		
16,100.00	12,736.90	14,163.88	10,596.03	69.79	68.85	-2.68	3,512.11	-408.87	2,143.23	2,077.59	65.64	32.652		
16,150.00	12,736.66	14,213.88	10,595.79	70.62	69.71	-2.68	3,562.11	-409.25	2,143.23	2,077.00	66.24	32.358		
16,200.00	12,736.43	14,263.88	10,595.56	71.46	70.57	-2.68	3,612.11	-409.63	2,143.23	2,076.40	66.83	32.068		
16,250.00	12,736.20	14,313.88	10,595.32	72.31	71.43	-2.68	3,662.10	-410.01	2,143.24	2,075.80	67.44	31.782		
16,300.00	12,735.97	14,363.88	10,595.09	73.15	72.30	-2.68	3,712.10	-410.40	2,143.24	2,075.20	68.04	31.499		
16,350.00	12,735.74	14,413.88	10,594.85	74.00	73.16	-2.68	3,762.10	-410.78	2,143.24	2,074.60	68.65	31.221		
16,400.00	12,735.51	14,463.88	10,594.62	74.84	74.03	-2.68	3,812.10	-411.16	2,143.25	2,073.99	69.26	30.946		
16,450.00	12,735.28	14,513.88	10,594.38	75.69	74.89	-2.68	3,862.10	-411.55	2,143.25	2,073.38	69.87	30.675		
16,500.00	12,735.04	14,563.88	10,594.15	76.54	75.76	-2.68	3,912.09	-411.93	2,143.25	2,072.77	70.48	30.408		
16,550.00	12,734.81	14,613.88	10,593.92	77.39	76.63	-2.68	3,962.09	-412.31	2,143.26	2,072.16	71.10	30.144		
16,600.00	12,734.58	14,663.88	10,593.68	78.25	77.50	-2.67	4,012.09	-412.70	2,143.26	2,071.54	71.72	29.884		
16,650.00	12,734.35	14,713.88	10,593.45	79.10	78.37	-2.67	4,062.09	-413.08	2,143.26	2,070.92	72.34	29.627		
16,700.00	12,734.12	14,763.88	10,593.21	79.96	79.24	-2.67	4,112.09	-413.46	2,143.27	2,070.30	72.96	29.374		
16,750.00	12,733.89	14,813.88	10,592.98	80.82	80.12	-2.67	4,162.08	-413.85	2,143.27	2,069.68	73.59	29.124		
16,800.00	12,733.66	14,863.88	10,592.74	81.67	80.99	-2.67	4,212.08	-414.23	2,143.27	2,069.06	74.22	28.878		
16,850.00	12,733.42	14,913.88	10,592.51	82.53	81.86	-2.67	4,262.08	-414.61	2,143.28	2,068.43	74.85	28.635		
16,900.00	12,733.19	14,963.88	10,592.27	83.39	82.74	-2.67	4,312.08	-414.99	2,143.28	2,067.80	75.48	28.396		
16,950.00	12,732.96	15,013.88	10,592.04	84.26	83.62	-2.67	4,362.08	-415.38	2,143.28	2,067.17	76.11	28.160		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 406H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
17,000.00	12,732.73	15,063.88	10,591.80	85.12	84.49	-2.67	4,412.07	-415.76	2,143.29	2,066.54	76.75	27.927		
17,050.00	12,732.50	15,113.88	10,591.57	85.98	85.37	-2.67	4,462.07	-416.14	2,143.29	2,065.91	77.38	27.697		
17,100.00	12,732.27	15,163.88	10,591.33	86.85	86.25	-2.67	4,512.07	-416.53	2,143.29	2,065.27	78.02	27.470		
17,150.00	12,732.04	15,213.88	10,591.10	87.71	87.13	-2.67	4,562.07	-416.91	2,143.30	2,064.63	78.66	27.247		
17,200.00	12,731.80	15,263.88	10,590.86	88.58	88.01	-2.67	4,612.07	-417.29	2,143.30	2,064.00	79.30	27.026		
17,250.00	12,731.57	15,313.88	10,590.63	89.45	88.89	-2.67	4,662.06	-417.68	2,143.30	2,063.35	79.95	26.809		
17,300.00	12,731.34	15,363.88	10,590.39	90.32	89.77	-2.67	4,712.06	-418.06	2,143.31	2,062.71	80.59	26.594		
17,350.00	12,731.11	15,413.88	10,590.16	91.19	90.65	-2.67	4,762.06	-418.44	2,143.31	2,062.07	81.24	26.383		
17,373.73	12,731.00	15,437.62	10,590.05	91.60	91.07	-2.67	4,785.79	-418.62	2,143.31	2,061.76	81.55	26.283		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.60	0.00	0.00	0.00	-90.38	-0.20	-30.00	30.00					
50.00	50.00	50.60	50.00	0.02	0.04	-90.38	-0.20	-30.00	30.00	29.94	0.06	468.943		
100.00	100.00	100.60	100.00	0.08	0.08	-90.38	-0.20	-30.00	30.00	29.84	0.16	186.418		
150.00	150.00	150.60	150.00	0.19	0.19	-90.38	-0.20	-30.00	30.00	29.62	0.39	77.783		
200.00	200.00	200.60	200.00	0.30	0.31	-90.38	-0.20	-30.00	30.00	29.39	0.61	49.144		
250.00	250.00	250.60	250.00	0.42	0.42	-90.38	-0.20	-30.00	30.00	29.17	0.84	35.919		
300.00	300.00	300.60	300.00	0.53	0.53	-90.38	-0.20	-30.00	30.00	28.94	1.06	28.303		
350.00	350.00	350.60	350.00	0.64	0.64	-90.38	-0.20	-30.00	30.00	28.72	1.28	23.351		
400.00	400.00	400.60	400.00	0.75	0.76	-90.38	-0.20	-30.00	30.00	28.49	1.51	19.874		
450.00	450.00	450.60	450.00	0.87	0.87	-90.38	-0.20	-30.00	30.00	28.27	1.73	17.299		
500.00	500.00	500.60	500.00	0.98	0.98	-90.38	-0.20	-30.00	30.00	28.04	1.96	15.314		
550.00	550.00	550.60	550.00	1.09	1.09	-90.38	-0.20	-30.00	30.00	27.82	2.18	13.738		
600.00	600.00	600.60	600.00	1.20	1.20	-90.38	-0.20	-30.00	30.00	27.59	2.41	12.456		
650.00	650.00	650.60	650.00	1.32	1.32	-90.38	-0.20	-30.00	30.00	27.37	2.63	11.393		
700.00	700.00	700.60	700.00	1.43	1.43	-90.38	-0.20	-30.00	30.00	27.14	2.86	10.497		
750.00	750.00	750.60	750.00	1.54	1.54	-90.38	-0.20	-30.00	30.00	26.92	3.08	9.731		
800.00	800.00	800.60	800.00	1.65	1.65	-90.38	-0.20	-30.00	30.00	26.69	3.31	9.070		
850.00	850.00	850.60	850.00	1.77	1.77	-90.38	-0.20	-30.00	30.00	26.47	3.53	8.493		
900.00	900.00	900.60	900.00	1.88	1.88	-90.38	-0.20	-30.00	30.00	26.24	3.76	7.985		
950.00	950.00	950.60	950.00	1.99	1.99	-90.38	-0.20	-30.00	30.00	26.02	3.98	7.534		
1,000.00	1,000.00	1,000.60	1,000.00	2.10	2.10	-90.38	-0.20	-30.00	30.00	25.79	4.21	7.132		
1,050.00	1,050.00	1,050.60	1,050.00	2.22	2.22	-90.38	-0.20	-30.00	30.00	25.57	4.43	6.770 CC		
1,100.00	1,100.00	1,100.28	1,099.68	2.33	2.32	-90.30	-0.16	-30.22	30.22	25.57	4.65	6.498		
1,150.00	1,150.00	1,149.88	1,149.28	2.44	2.42	-90.00	0.00	-31.06	31.07	26.20	4.86	6.387		
1,200.00	1,200.00	1,199.46	1,198.82	2.55	2.53	-89.51	0.28	-32.53	32.55	27.48	5.08	6.413		
1,250.00	1,250.00	1,248.98	1,248.30	2.66	2.63	-88.88	0.68	-34.63	34.68	29.39	5.29	6.556		
1,300.00	1,300.00	1,298.44	1,297.68	2.78	2.74	-88.16	1.20	-37.36	37.45	31.95	5.50	6.806		
1,350.00	1,350.00	1,348.05	1,347.18	2.89	2.84	-87.43	1.83	-40.66	40.80	35.08	5.72	7.137		
1,400.00	1,400.00	1,397.93	1,396.94	3.00	2.95	-86.79	2.48	-44.08	44.25	38.32	5.93	7.458		
1,450.00	1,450.00	1,447.81	1,446.70	3.11	3.07	-86.24	3.13	-47.50	47.71	41.56	6.15	7.756		
1,500.00	1,500.00	1,502.31	1,496.45	3.23	3.19	-85.76	3.78	-50.92	51.18	44.80	6.38	8.021		
1,550.00	1,550.00	1,547.57	1,546.21	3.34	3.29	-85.34	4.42	-54.33	54.65	48.06	6.59	8.293		
1,600.00	1,600.00	1,602.56	1,595.97	3.45	3.42	-84.98	5.07	-57.75	58.11	51.29	6.82	8.521		
1,650.00	1,650.00	1,647.32	1,645.72	3.56	3.52	-84.65	5.72	-61.17	61.59	54.56	7.03	8.761		
1,700.00	1,700.00	1,702.80	1,695.48	3.68	3.65	-84.36	6.37	-64.59	65.06	57.80	7.26	8.959		
1,750.00	1,750.00	1,747.08	1,745.24	3.79	3.76	-84.10	7.02	-68.01	68.53	61.06	7.47	9.174		
1,800.00	1,800.00	1,803.04	1,794.99	3.90	3.89	-83.87	7.67	-71.42	72.01	64.30	7.70	9.346		
1,850.00	1,850.00	1,846.84	1,844.75	4.01	4.00	-83.65	8.32	-74.84	75.49	67.57	7.91	9.539		
1,900.00	1,900.00	1,903.29	1,894.51	4.13	4.13	-83.46	8.97	-78.26	78.96	70.82	8.15	9.690		
1,950.00	1,950.00	1,946.59	1,944.26	4.24	4.24	-83.28	9.62	-81.68	82.44	74.09	8.36	9.865		
2,000.00	2,000.00	2,003.53	1,994.02	4.35	4.37	-83.12	10.27	-85.10	85.92	77.33	8.60	9.997		
2,050.00	2,050.00	2,046.35	2,043.78	4.46	4.48	-82.97	10.92	-88.52	89.40	80.60	8.80	10.157		
2,100.00	2,100.00	2,103.77	2,093.53	4.58	4.62	-82.83	11.57	-91.93	92.88	83.84	9.04	10.273		
2,150.00	2,150.00	2,146.10	2,143.29	4.69	4.72	-82.70	12.22	-95.35	96.37	87.12	9.25	10.420		
2,200.00	2,200.00	2,204.02	2,193.05	4.80	4.86	-82.58	12.87	-98.77	99.85	90.36	9.49	10.522		
2,250.00	2,250.00	2,245.86	2,242.80	4.91	4.96	-82.46	13.52	-102.19	103.33	93.63	9.69	10.658		
2,300.00	2,300.00	2,304.26	2,292.56	5.02	5.11	-82.36	14.17	-105.61	106.81	96.87	9.94	10.749		
2,350.00	2,350.00	2,345.62	2,342.32	5.14	5.21	-82.26	14.82	-109.02	110.29	100.15	10.14	10.875		
2,400.00	2,400.00	2,404.50	2,392.07	5.25	5.36	-82.17	15.47	-112.44	113.78	103.39	10.39	10.955		
2,450.00	2,450.00	2,445.37	2,441.83	5.36	5.46	-82.08	16.12	-115.86	117.26	106.67	10.59	11.073		
2,500.00	2,500.00	2,495.25	2,491.59	5.47	5.58	-82.00	16.77	-119.28	120.74	109.93	10.81	11.166		
2,550.00	2,550.00	2,545.13	2,541.34	5.59	5.70	-81.92	17.42	-122.70	124.23	113.19	11.04	11.254		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
2,600.00	2,600.00	2,604.99	2,591.10	5.70	5.85	-81.85	18.07	-126.11	127.71	116.43	11.28	11.317		
2,612.13	2,612.13	2,607.11	2,603.17	5.73	5.86	-81.83	18.22	-126.94	128.56	117.24	11.32	11.360		
2,650.00	2,650.00	2,644.90	2,640.87	5.81	5.95	12.29	18.72	-129.53	131.01	119.53	11.48	11.411		
2,700.00	2,699.99	2,705.17	2,690.67	5.91	6.10	12.43	19.37	-132.96	133.70	121.98	11.72	11.407		
2,750.00	2,749.97	2,744.78	2,740.51	6.01	6.20	12.61	20.02	-136.38	135.74	123.83	11.91	11.400		
2,800.00	2,799.92	2,794.76	2,790.36	6.11	6.33	12.86	20.67	-139.80	137.15	125.03	12.12	11.319		
2,850.00	2,849.85	2,844.75	2,840.23	6.21	6.45	13.16	21.32	-143.23	137.92	125.60	12.33	11.187		
2,900.00	2,899.73	2,905.26	2,890.10	6.31	6.60	13.53	21.97	-146.66	138.07	125.50	12.56	10.989		
2,912.13	2,911.82	2,906.87	2,902.20	6.33	6.61	13.63	22.13	-147.49	138.01	125.41	12.59	10.960		
2,950.00	2,949.58	2,944.73	2,939.97	6.41	6.70	13.94	22.62	-150.08	137.76	125.01	12.75	10.801		
3,000.00	2,999.42	3,005.28	2,989.83	6.52	6.86	14.36	23.27	-153.51	137.44	124.45	12.99	10.580		
3,050.00	3,049.27	3,044.70	3,039.70	6.62	6.95	14.78	23.92	-156.93	137.13	123.95	13.18	10.403		
3,100.00	3,099.11	3,105.31	3,089.57	6.73	7.11	15.20	24.58	-160.36	136.83	123.41	13.42	10.195		
3,150.00	3,148.96	3,144.68	3,139.44	6.84	7.21	15.62	25.23	-163.78	136.54	122.92	13.61	10.030		
3,200.00	3,198.80	3,205.33	3,189.30	6.94	7.36	16.04	25.88	-167.21	136.25	122.39	13.85	9.835		
3,250.00	3,248.65	3,244.66	3,239.17	7.05	7.46	16.47	26.53	-170.64	135.97	121.92	14.05	9.680		
3,300.00	3,298.50	3,305.35	3,289.04	7.16	7.61	16.90	27.18	-174.06	135.70	121.41	14.29	9.497		
3,350.00	3,348.34	3,344.64	3,338.90	7.27	7.71	17.33	27.83	-177.49	135.43	120.95	14.48	9.351		
3,400.00	3,398.19	3,394.63	3,388.77	7.38	7.84	17.76	28.48	-180.91	135.17	120.47	14.70	9.194		
3,450.00	3,448.03	3,444.62	3,438.64	7.50	7.96	18.19	29.13	-184.34	134.92	120.00	14.92	9.042		
3,500.00	3,497.88	3,505.39	3,488.51	7.61	8.12	18.62	29.78	-187.76	134.68	119.51	15.17	8.880		
3,550.00	3,547.73	3,544.59	3,538.37	7.72	8.22	19.06	30.44	-191.19	134.45	119.08	15.36	8.751		
3,600.00	3,597.57	3,605.42	3,588.24	7.84	8.37	19.50	31.09	-194.62	134.22	118.61	15.61	8.599		
3,650.00	3,647.42	3,644.57	3,638.11	7.95	8.47	19.93	31.74	-198.04	134.00	118.19	15.81	8.477		
3,700.00	3,697.26	3,705.44	3,687.97	8.07	8.62	20.37	32.39	-201.47	133.79	117.74	16.05	8.334		
3,750.00	3,747.11	3,744.55	3,737.84	8.18	8.72	20.81	33.04	-204.89	133.59	117.33	16.25	8.219		
3,800.00	3,796.95	3,794.54	3,787.71	8.30	8.85	21.26	33.69	-208.32	133.39	116.91	16.48	8.096		
3,850.00	3,846.80	3,844.53	3,837.58	8.42	8.98	21.70	34.34	-211.74	133.21	116.50	16.70	7.975		
3,900.00	3,896.65	3,905.48	3,887.44	8.53	9.13	22.15	34.99	-215.17	133.03	116.07	16.95	7.847		
3,950.00	3,946.49	3,944.51	3,937.31	8.65	9.23	22.59	35.64	-218.60	132.86	115.70	17.15	7.745		
4,000.00	3,996.34	4,005.51	3,987.18	8.77	9.39	23.04	36.29	-222.02	132.69	115.29	17.41	7.624		
4,050.00	4,046.18	4,044.48	4,037.05	8.89	9.48	23.49	36.95	-225.45	132.54	114.93	17.61	7.527		
4,100.00	4,096.03	4,105.53	4,086.91	9.01	9.64	23.94	37.60	-228.87	132.39	114.53	17.86	7.413		
4,150.00	4,145.88	4,144.46	4,136.78	9.13	9.74	24.39	38.25	-232.30	132.25	114.19	18.06	7.321		
4,200.00	4,195.72	4,205.55	4,186.65	9.25	9.89	24.84	38.90	-235.72	132.12	113.80	18.32	7.213		
4,250.00	4,245.57	4,244.44	4,236.51	9.37	9.99	25.29	39.55	-239.15	132.00	113.48	18.52	7.127		
4,300.00	4,295.41	4,305.57	4,286.38	9.49	10.15	25.74	40.20	-242.58	131.89	113.11	18.78	7.023		
4,350.00	4,345.26	4,344.42	4,336.25	9.61	10.25	26.20	40.85	-246.00	131.78	112.80	18.98	6.942		
4,400.00	4,395.11	4,394.41	4,386.12	9.73	10.38	26.65	41.50	-249.43	131.68	112.47	19.21	6.853		
4,450.00	4,444.95	4,444.40	4,435.98	9.85	10.50	27.11	42.15	-252.85	131.59	112.15	19.45	6.767		
4,500.00	4,494.80	4,505.62	4,485.85	9.97	10.66	27.56	42.81	-256.28	131.51	111.81	19.71	6.674		
4,550.00	4,544.64	4,544.37	4,535.72	10.09	10.76	28.02	43.46	-259.70	131.44	111.53	19.91	6.601		
4,600.00	4,594.49	4,594.36	4,585.58	10.22	10.88	28.47	44.11	-263.13	131.38	111.23	20.15	6.521		
4,650.00	4,644.33	4,644.35	4,635.45	10.34	11.01	28.93	44.76	-266.56	131.32	110.94	20.38	6.443		
4,700.00	4,694.18	4,694.34	4,685.32	10.46	11.14	29.39	45.41	-269.98	131.27	110.66	20.62	6.367		
4,750.00	4,744.03	4,744.41	4,735.26	10.58	11.27	29.85	46.06	-273.41	131.23	110.38	20.85	6.293		
4,800.00	4,793.87	4,796.10	4,786.86	10.71	11.38	30.36	46.66	-276.58	130.85	109.76	21.08	6.206		
4,850.00	4,843.72	4,847.77	4,838.46	10.83	11.48	30.97	47.14	-279.06	129.82	108.52	21.30	6.094		
4,900.00	4,893.56	4,899.39	4,890.05	10.95	11.57	31.68	47.48	-280.86	128.17	106.65	21.52	5.956		
4,950.00	4,943.41	4,950.95	4,941.59	11.08	11.66	32.50	47.69	-281.96	125.88	104.15	21.73	5.792		
5,000.00	4,993.26	5,002.42	4,993.06	11.20	11.75	33.45	47.77	-282.39	122.99	101.04	21.95	5.603		
5,050.00	5,043.10	5,052.46	5,043.10	11.33	11.84	34.49	47.77	-282.39	119.74	97.55	22.18	5.398		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1														Offset Site Error:	0.00 ft
Survey Program: 0-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)										
5,100.00	5,092.95	5,102.30	5,092.95	11.45	11.94	35.58	47.77	-282.39	116.52	94.11	22.41	5.198			
5,150.00	5,142.79	5,152.15	5,142.79	11.58	12.04	36.73	47.77	-282.39	113.35	90.69	22.66	5.003			
5,200.00	5,192.64	5,201.99	5,192.64	11.70	12.13	37.95	47.77	-282.39	110.23	87.33	22.90	4.814			
5,250.00	5,242.48	5,251.84	5,242.48	11.83	12.23	39.24	47.77	-282.39	107.16	84.01	23.14	4.630			
5,300.00	5,292.33	5,301.69	5,292.33	11.95	12.33	40.60	47.77	-282.39	104.14	80.75	23.39	4.452			
5,350.00	5,342.18	5,351.53	5,342.18	12.08	12.43	42.04	47.77	-282.39	101.19	77.55	23.64	4.280			
5,400.00	5,392.02	5,401.38	5,392.02	12.20	12.53	43.57	47.77	-282.39	98.31	74.41	23.90	4.113			
5,450.00	5,441.87	5,451.22	5,441.87	12.33	12.63	45.19	47.77	-282.39	95.50	71.34	24.16	3.953			
5,500.00	5,491.71	5,501.07	5,491.71	12.46	12.73	46.91	47.77	-282.39	92.77	68.35	24.42	3.799			
5,550.00	5,541.56	5,550.91	5,541.56	12.58	12.83	48.73	47.77	-282.39	90.14	65.45	24.69	3.651			
5,600.00	5,591.41	5,600.76	5,591.41	12.71	12.93	50.65	47.77	-282.39	87.59	62.64	24.95	3.510			
5,650.00	5,641.25	5,650.61	5,641.25	12.83	13.03	52.69	47.77	-282.39	85.15	59.93	25.23	3.376			
5,700.00	5,691.10	5,700.45	5,691.10	12.96	13.13	54.84	47.77	-282.39	82.83	57.33	25.50	3.248			
5,750.00	5,740.94	5,750.30	5,740.94	13.09	13.23	57.12	47.77	-282.39	80.63	54.85	25.78	3.128			
5,800.00	5,790.79	5,800.14	5,790.79	13.21	13.33	59.52	47.77	-282.39	78.57	52.50	26.06	3.015			
5,850.00	5,840.64	5,849.99	5,840.64	13.34	13.43	62.04	47.77	-282.39	76.65	50.30	26.35	2.909			
5,900.00	5,890.48	5,900.16	5,890.48	13.47	13.53	64.68	47.77	-282.39	74.88	48.25	26.63	2.812			
5,950.00	5,940.33	5,949.68	5,940.33	13.60	13.63	67.45	47.77	-282.39	73.29	46.37	26.92	2.723			
6,000.00	5,990.17	6,000.47	5,990.17	13.72	13.73	70.33	47.77	-282.39	71.87	44.67	27.20	2.642			
6,050.00	6,040.02	6,049.37	6,040.02	13.85	13.83	73.32	47.77	-282.39	70.64	43.16	27.48	2.571			
6,100.00	6,089.86	6,100.78	6,089.86	13.98	13.94	76.41	47.77	-282.39	69.61	41.85	27.76	2.508			
6,150.00	6,139.71	6,149.07	6,139.71	14.11	14.04	79.57	47.77	-282.39	68.79	40.76	28.03	2.454			
6,200.00	6,189.56	6,201.09	6,189.56	14.23	14.14	82.81	47.77	-282.39	68.19	39.89	28.30	2.410			
6,210.79	6,200.31	6,209.66	6,200.31	14.26	14.16	83.51	47.77	-282.39	68.09	39.74	28.35	2.402			
6,250.00	6,239.42	6,248.77	6,239.42	14.35	14.24	85.92	47.77	-282.39	67.82	39.28	28.54	2.376			
6,300.00	6,289.32	6,301.32	6,289.32	14.46	14.35	88.51	47.77	-282.39	67.67	38.90	28.78	2.352			
6,334.71	6,323.99	6,333.34	6,323.99	14.53	14.41	90.00	47.77	-282.39	67.65	38.73	28.92	2.339			
6,350.00	6,339.26	6,348.62	6,339.26	14.56	14.45	90.57	47.77	-282.39	67.66	38.67	28.98	2.335			
6,400.00	6,389.23	6,401.42	6,389.23	14.66	14.55	92.07	47.77	-282.39	67.70	38.51	29.19	2.319			
6,450.00	6,439.22	6,448.57	6,439.22	14.75	14.65	93.02	47.77	-282.39	67.75	38.37	29.38	2.306			
6,500.00	6,489.21	6,501.43	6,489.21	14.84	14.76	93.42	47.77	-282.39	67.77	38.19	29.58	2.291			
6,510.79	6,500.00	6,509.36	6,500.00	14.86	14.78	-0.63	47.77	-282.39	67.77	38.16	29.62	2.288			
6,550.00	6,539.21	6,548.57	6,539.21	14.93	14.86	-0.63	47.77	-282.39	67.77	38.00	29.77	2.276			
6,600.00	6,589.21	6,601.43	6,589.21	15.03	14.97	-0.63	47.77	-282.39	67.77	37.80	29.98	2.261			
6,650.00	6,639.21	6,648.57	6,639.21	15.13	15.07	-0.63	47.77	-282.39	67.77	37.60	30.18	2.246			
6,700.00	6,689.21	6,701.43	6,689.21	15.23	15.17	-0.63	47.77	-282.39	67.77	37.39	30.39	2.230			
6,750.00	6,739.21	6,748.57	6,739.21	15.33	15.27	-0.63	47.77	-282.39	67.77	37.19	30.59	2.216			
6,800.00	6,789.21	6,801.43	6,789.21	15.43	15.38	-0.63	47.77	-282.39	67.77	36.98	30.80	2.201			
6,850.00	6,839.21	6,848.57	6,839.21	15.54	15.48	-0.63	47.77	-282.39	67.77	36.77	31.00	2.186			
6,900.00	6,889.21	6,901.43	6,889.21	15.64	15.59	-0.63	47.77	-282.39	67.77	36.56	31.21	2.171			
6,950.00	6,939.21	6,948.57	6,939.21	15.74	15.69	-0.63	47.77	-282.39	67.77	36.36	31.41	2.158			
7,000.00	6,989.21	7,001.43	6,989.21	15.84	15.80	-0.63	47.77	-282.39	67.77	36.15	31.62	2.143			
7,050.00	7,039.21	7,048.57	7,039.21	15.95	15.90	-0.63	47.77	-282.39	67.77	35.95	31.83	2.130			
7,100.00	7,089.21	7,101.43	7,089.21	16.05	16.01	-0.63	47.77	-282.39	67.77	35.73	32.04	2.115			
7,150.00	7,139.21	7,148.57	7,139.21	16.15	16.11	-0.63	47.77	-282.39	67.77	35.53	32.24	2.102			
7,200.00	7,189.21	7,201.43	7,189.21	16.26	16.22	-0.63	47.77	-282.39	67.77	35.32	32.45	2.088			
7,250.00	7,239.21	7,248.57	7,239.21	16.36	16.32	-0.63	47.77	-282.39	67.77	35.12	32.66	2.075			
7,300.00	7,289.21	7,301.43	7,289.21	16.46	16.43	-0.63	47.77	-282.39	67.77	34.90	32.87	2.062			
7,350.00	7,339.21	7,348.57	7,339.21	16.56	16.53	-0.63	47.77	-282.39	67.77	34.70	33.07	2.049			
7,400.00	7,389.21	7,401.43	7,389.21	16.67	16.64	-0.63	47.77	-282.39	67.77	34.48	33.29	2.036			
7,450.00	7,439.21	7,448.57	7,439.21	16.77	16.74	-0.63	47.77	-282.39	67.77	34.28	33.49	2.024			
7,500.00	7,489.21	7,501.43	7,489.21	16.88	16.85	-0.63	47.77	-282.39	67.77	34.07	33.71	2.011			

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
7,550.00	7,539.21	7,548.57	7,539.21	16.98	16.95	-0.63	47.77	-282.39	67.77	33.86	1.999			
7,600.00	7,589.21	7,601.43	7,589.21	17.08	17.06	-0.63	47.77	-282.39	67.77	33.65	1.986			
7,650.00	7,639.21	7,648.57	7,639.21	17.19	17.16	-0.63	47.77	-282.39	67.77	33.44	1.974			
7,700.00	7,689.21	7,701.43	7,689.21	17.29	17.27	-0.63	47.77	-282.39	67.77	33.23	1.962			
7,750.00	7,739.21	7,748.57	7,739.21	17.40	17.37	-0.63	47.77	-282.39	67.77	33.02	1.950			
7,800.00	7,789.21	7,801.43	7,789.21	17.50	17.48	-0.63	47.77	-282.39	67.77	32.81	1.938			
7,850.00	7,839.21	7,848.57	7,839.21	17.60	17.58	-0.63	47.77	-282.39	67.77	32.60	1.927			
7,900.00	7,889.21	7,901.43	7,889.21	17.71	17.69	-0.63	47.77	-282.39	67.77	32.39	1.915			
7,950.00	7,939.21	7,948.57	7,939.21	17.81	17.80	-0.63	47.77	-282.39	67.77	32.18	1.904			
8,000.00	7,989.21	8,001.43	7,989.21	17.92	17.91	-0.63	47.77	-282.39	67.77	31.96	1.893			
8,050.00	8,039.21	8,048.57	8,039.21	18.02	18.01	-0.63	47.77	-282.39	67.77	31.76	1.882			
8,100.00	8,089.21	8,101.43	8,089.21	18.13	18.12	-0.63	47.77	-282.39	67.77	31.54	1.871			
8,150.00	8,139.21	8,148.57	8,139.21	18.23	18.22	-0.63	47.77	-282.39	67.77	31.34	1.860			
8,200.00	8,189.21	8,201.43	8,189.21	18.34	18.33	-0.63	47.77	-282.39	67.77	31.12	1.849			
8,250.00	8,239.21	8,248.57	8,239.21	18.44	18.43	-0.63	47.77	-282.39	67.77	30.91	1.839			
8,300.00	8,289.21	8,301.43	8,289.21	18.55	18.55	-0.63	47.77	-282.39	67.77	30.69	1.828			
8,350.00	8,339.21	8,348.57	8,339.21	18.65	18.65	-0.63	47.77	-282.39	67.77	30.49	1.818			
8,400.00	8,389.21	8,401.43	8,389.21	18.76	18.76	-0.63	47.77	-282.39	67.77	30.27	1.807			
8,450.00	8,439.21	8,448.57	8,439.21	18.87	18.86	-0.63	47.77	-282.39	67.77	30.06	1.797			
8,500.00	8,489.21	8,501.43	8,489.21	18.97	18.97	-0.63	47.77	-282.39	67.77	29.84	1.787			
8,550.00	8,539.21	8,548.57	8,539.21	19.08	19.07	-0.63	47.77	-282.39	67.77	29.64	1.777			
8,600.00	8,589.21	8,601.43	8,589.21	19.18	19.19	-0.63	47.77	-282.39	67.77	29.42	1.767			
8,650.00	8,639.21	8,648.57	8,639.21	19.29	19.29	-0.63	47.77	-282.39	67.77	29.21	1.758			
8,700.00	8,689.21	8,701.43	8,689.21	19.39	19.40	-0.63	47.77	-282.39	67.77	28.99	1.748			
8,750.00	8,739.21	8,748.57	8,739.21	19.50	19.50	-0.63	47.77	-282.39	67.77	28.79	1.738			
8,800.00	8,789.21	8,801.43	8,789.21	19.61	19.62	-0.63	47.77	-282.39	67.77	28.57	1.729			
8,850.00	8,839.21	8,848.57	8,839.21	19.71	19.72	-0.63	47.77	-282.39	67.77	28.36	1.719			
8,900.00	8,889.21	8,901.43	8,889.21	19.82	19.83	-0.63	47.77	-282.39	67.77	28.14	1.710			
8,950.00	8,939.21	8,948.57	8,939.21	19.92	19.93	-0.63	47.77	-282.39	67.77	27.93	1.701			
9,000.00	8,989.21	9,001.43	8,989.21	20.03	20.05	-0.63	47.77	-282.39	67.77	27.71	1.692			
9,050.00	9,039.21	9,048.57	9,039.21	20.14	20.15	-0.63	47.77	-282.39	67.77	27.50	1.683			
9,100.00	9,089.21	9,101.43	9,089.21	20.24	20.26	-0.63	47.77	-282.39	67.77	27.28	1.674			
9,150.00	9,139.21	9,148.57	9,139.21	20.35	20.36	-0.63	47.77	-282.39	67.77	27.08	1.665			
9,200.00	9,189.21	9,201.43	9,189.21	20.46	20.48	-0.63	47.77	-282.39	67.77	26.85	1.656			
9,250.00	9,239.21	9,248.57	9,239.21	20.56	20.58	-0.63	47.77	-282.39	67.77	26.65	1.648			
9,300.00	9,289.21	9,301.43	9,289.21	20.67	20.69	-0.63	47.77	-282.39	67.77	26.43	1.639			
9,350.00	9,339.21	9,348.57	9,339.21	20.78	20.79	-0.63	47.77	-282.39	67.77	26.22	1.631			
9,400.00	9,389.21	9,401.43	9,389.21	20.88	20.91	-0.63	47.77	-282.39	67.77	26.00	1.622			
9,450.00	9,439.21	9,448.57	9,439.21	20.99	21.01	-0.63	47.77	-282.39	67.77	25.79	1.614			
9,500.00	9,489.21	9,501.43	9,489.21	21.10	21.12	-0.63	47.77	-282.39	67.77	25.57	1.606			
9,550.00	9,539.21	9,548.57	9,539.21	21.20	21.23	-0.63	47.77	-282.39	67.77	25.36	1.598			
9,600.00	9,589.21	9,601.43	9,589.21	21.31	21.34	-0.63	47.77	-282.39	67.77	25.14	1.590			
9,650.00	9,639.21	9,648.57	9,639.21	21.42	21.44	-0.63	47.77	-282.39	67.77	24.93	1.582			
9,700.00	9,689.21	9,701.43	9,689.21	21.53	21.56	-0.63	47.77	-282.39	67.77	24.71	1.574			
9,750.00	9,739.21	9,748.57	9,739.21	21.63	21.66	-0.63	47.77	-282.39	67.77	24.50	1.566			
9,800.00	9,789.21	9,801.43	9,789.21	21.74	21.77	-0.63	47.77	-282.39	67.77	24.27	1.558			
9,850.00	9,839.21	9,848.57	9,839.21	21.85	21.87	-0.63	47.77	-282.39	67.77	24.06	1.551			
9,900.00	9,889.21	9,901.43	9,889.21	21.95	21.99	-0.63	47.77	-282.39	67.77	23.84	1.543			
9,950.00	9,939.21	9,948.57	9,939.21	22.06	22.09	-0.63	47.77	-282.39	67.77	23.63	1.535			
10,000.00	9,989.21	10,001.43	9,989.21	22.17	22.21	-0.63	47.77	-282.39	67.77	23.41	1.528			
10,050.00	10,039.21	10,048.57	10,039.21	22.28	22.31	-0.63	47.77	-282.39	67.77	23.20	1.521			
10,100.00	10,089.21	10,101.43	10,089.21	22.38	22.42	-0.63	47.77	-282.39	67.77	22.98	1.513			

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,150.00	10,139.21	10,148.57	10,139.21	22.49	22.52	-0.63	47.77	-282.39	67.77	22.77	45.00	1.506		
10,200.00	10,189.21	10,201.43	10,189.21	22.60	22.64	-0.63	47.77	-282.39	67.77	22.55	45.23	1.499 Level 3		
10,250.00	10,239.21	10,248.57	10,239.21	22.71	22.74	-0.63	47.77	-282.39	67.77	22.34	45.44	1.492 Level 3		
10,300.00	10,289.21	10,301.43	10,289.21	22.82	22.86	-0.63	47.77	-282.39	67.77	22.11	45.66	1.484 Level 3		
10,350.00	10,339.21	10,348.57	10,339.21	22.92	22.96	-0.63	47.77	-282.39	67.77	21.90	45.87	1.478 Level 3		
10,400.00	10,389.21	10,401.43	10,389.21	23.03	23.07	-0.63	47.77	-282.39	67.77	21.68	46.09	1.470 Level 3		
10,450.00	10,439.21	10,448.57	10,439.21	23.14	23.18	-0.63	47.77	-282.39	67.77	21.47	46.30	1.464 Level 3		
10,500.00	10,489.21	10,501.43	10,489.21	23.25	23.29	-0.63	47.77	-282.39	67.77	21.25	46.53	1.457 Level 3		
10,550.00	10,539.21	10,548.57	10,539.21	23.35	23.39	-0.63	47.77	-282.39	67.77	21.04	46.74	1.450 Level 3		
10,600.00	10,589.21	10,601.43	10,589.21	23.46	23.51	-0.63	47.77	-282.39	67.77	20.81	46.96	1.443 Level 3		
10,650.00	10,639.21	10,648.57	10,639.21	23.57	23.61	-0.63	47.77	-282.39	67.77	20.60	47.17	1.437 Level 3		
10,700.00	10,689.21	10,701.43	10,689.21	23.68	23.73	-0.63	47.77	-282.39	67.77	20.38	47.39	1.430 Level 3		
10,750.00	10,739.21	10,748.57	10,739.21	23.79	23.83	-0.63	47.77	-282.39	67.77	20.17	47.61	1.424 Level 3		
10,800.00	10,789.21	10,801.43	10,789.21	23.89	23.95	-0.63	47.77	-282.39	67.77	19.94	47.83	1.417 Level 3		
10,850.00	10,839.21	10,848.57	10,839.21	24.00	24.05	-0.63	47.77	-282.39	67.77	19.73	48.04	1.411 Level 3		
10,900.00	10,889.21	10,901.43	10,889.21	24.11	24.16	-0.63	47.77	-282.39	67.77	19.51	48.26	1.404 Level 3		
10,950.00	10,939.21	10,948.57	10,939.21	24.22	24.27	-0.63	47.77	-282.39	67.77	19.30	48.47	1.398 Level 3		
11,000.00	10,989.21	11,001.43	10,989.21	24.33	24.38	-0.63	47.77	-282.39	67.77	19.08	48.70	1.392 Level 3		
11,050.00	11,039.21	11,048.57	11,039.21	24.44	24.48	-0.63	47.77	-282.39	67.77	18.86	48.91	1.386 Level 3		
11,100.00	11,089.21	11,101.43	11,089.21	24.54	24.60	-0.63	47.77	-282.39	67.77	18.64	49.13	1.379 Level 3		
11,150.00	11,139.21	11,148.57	11,139.21	24.65	24.70	-0.63	47.77	-282.39	67.77	18.43	49.34	1.373 Level 3		
11,200.00	11,189.21	11,201.43	11,189.21	24.76	24.82	-0.63	47.77	-282.39	67.77	18.20	49.57	1.367 Level 3		
11,250.00	11,239.21	11,248.57	11,239.21	24.87	24.92	-0.63	47.77	-282.39	67.77	17.99	49.78	1.361 Level 3		
11,300.00	11,289.21	11,301.43	11,289.21	24.98	25.04	-0.63	47.77	-282.39	67.77	17.77	50.00	1.355 Level 3		
11,350.00	11,339.21	11,348.57	11,339.21	25.09	25.14	-0.63	47.77	-282.39	67.77	17.56	50.22	1.350 Level 3		
11,400.00	11,389.21	11,401.43	11,389.21	25.20	25.26	-0.63	47.77	-282.39	67.77	17.33	50.44	1.344 Level 3		
11,450.00	11,439.21	11,448.57	11,439.21	25.30	25.36	-0.63	47.77	-282.39	67.77	17.12	50.65	1.338 Level 3		
11,500.00	11,489.21	11,501.43	11,489.21	25.41	25.47	-0.63	47.77	-282.39	67.77	16.90	50.88	1.332 Level 3		
11,550.00	11,539.21	11,548.57	11,539.21	25.52	25.58	-0.63	47.77	-282.39	67.77	16.69	51.09	1.327 Level 3		
11,600.00	11,589.21	11,601.43	11,589.21	25.63	25.69	-0.63	47.77	-282.39	67.77	16.46	51.31	1.321 Level 3		
11,650.00	11,639.21	11,648.57	11,639.21	25.74	25.80	-0.63	47.77	-282.39	67.77	16.25	51.52	1.315 Level 3		
11,700.00	11,689.21	11,701.43	11,689.21	25.85	25.91	-0.63	47.77	-282.39	67.77	16.02	51.75	1.310 Level 3		
11,750.00	11,739.21	11,748.57	11,739.21	25.96	26.02	-0.63	47.77	-282.39	67.77	15.81	51.96	1.304 Level 3		
11,800.00	11,789.21	11,801.43	11,789.21	26.07	26.13	-0.63	47.77	-282.39	67.77	15.59	52.19	1.299 Level 3		
11,850.00	11,839.21	11,848.57	11,839.21	26.17	26.23	-0.63	47.77	-282.39	67.77	15.38	52.40	1.293 Level 3		
11,900.00	11,889.21	11,901.43	11,889.21	26.28	26.35	-0.63	47.77	-282.39	67.77	15.15	52.62	1.288 Level 3		
11,950.00	11,939.21	11,948.57	11,939.21	26.39	26.45	-0.63	47.77	-282.39	67.77	14.94	52.84	1.283 Level 3		
12,000.00	11,989.21	12,001.43	11,989.21	26.50	26.57	-0.63	47.77	-282.39	67.77	14.71	53.06	1.277 Level 3		
12,007.56	11,996.77	12,006.13	11,996.77	26.52	26.58	-0.63	47.77	-282.39	67.77	14.69	53.09	1.277 Level 3		
12,050.00	12,039.21	12,048.29	12,038.94	26.61	26.67	-0.63	47.77	-282.39	67.78	14.51	53.27	1.272 Level 3, ES, SF		
12,100.00	12,089.21	12,091.94	12,082.51	26.72	26.77	-0.62	49.94	-282.41	70.27	16.88	53.39	1.316 Level 3		
12,150.00	12,139.21	12,134.84	12,124.97	26.83	26.87	-0.61	55.95	-282.46	77.27	23.94	53.34	1.449 Level 3		
12,200.00	12,189.21	12,176.34	12,165.38	26.94	26.96	-0.59	65.36	-282.53	88.63	35.50	53.13	1.668		
12,250.00	12,239.21	12,215.92	12,203.02	27.05	27.05	-0.57	77.57	-282.62	104.07	51.27	52.79	1.971		
12,284.40	12,273.62	12,241.84	12,227.07	27.12	27.11	-0.56	87.24	-282.70	116.91	64.39	52.52	2.226		
12,300.00	12,289.21	12,253.30	12,237.53	27.16	27.14	-0.11	91.93	-282.73	123.06	70.68	52.38	2.349		
12,325.00	12,314.17	12,271.51	12,253.90	27.21	27.18	-0.10	99.89	-282.79	132.65	80.51	52.14	2.544		
12,350.00	12,339.01	12,289.55	12,269.81	27.26	27.22	-0.10	108.38	-282.86	141.90	90.02	51.88	2.735		
12,375.00	12,363.67	12,307.43	12,285.25	27.32	27.26	-0.09	117.39	-282.93	150.82	99.21	51.60	2.923		
12,400.00	12,388.09	12,325.00	12,300.09	27.37	27.30	-0.08	126.80	-283.00	159.38	108.07	51.30	3.107		
12,425.00	12,412.19	12,342.75	12,314.72	27.42	27.34	-0.08	136.85	-283.08	167.57	116.57	51.01	3.285		
12,450.00	12,435.91	12,360.21	12,328.74	27.48	27.38	-0.08	147.27	-283.16	175.40	124.71	50.69	3.460		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Between Centres (ft)	Ellipses (ft)					
12,475.00	12,459.19	12,377.57	12,342.28	27.53	27.42	-0.07	158.12	-283.24	182.85	132.48	50.37	3.630	
12,500.00	12,481.96	12,394.82	12,355.34	27.58	27.46	-0.07	169.39	-283.32	189.91	139.88	50.04	3.795	
12,525.00	12,504.16	12,411.97	12,367.91	27.63	27.50	-0.07	181.05	-283.41	196.58	146.88	49.70	3.955	
12,550.00	12,525.73	12,429.03	12,380.00	27.68	27.54	-0.06	193.09	-283.51	202.86	153.50	49.36	4.110	
12,575.00	12,546.60	12,446.01	12,391.59	27.72	27.59	-0.06	205.50	-283.60	208.72	159.71	49.01	4.258	
12,600.00	12,566.73	12,462.92	12,402.69	27.77	27.63	-0.06	218.25	-283.70	214.18	165.51	48.67	4.401	
12,625.00	12,586.05	12,479.76	12,413.29	27.82	27.68	-0.06	231.34	-283.80	219.22	170.89	48.33	4.536	
12,650.00	12,604.52	12,496.54	12,423.38	27.87	27.72	-0.06	244.75	-283.90	223.83	175.85	47.99	4.664	
12,675.00	12,622.08	12,513.27	12,432.97	27.91	27.77	-0.05	258.45	-284.01	228.03	180.37	47.65	4.785	
12,700.00	12,638.69	12,529.95	12,442.05	27.96	27.82	-0.05	272.45	-284.11	231.79	184.46	47.33	4.898	
12,725.00	12,654.29	12,546.59	12,450.61	28.01	27.88	-0.05	286.71	-284.22	235.12	188.11	47.01	5.002	
12,750.00	12,668.85	12,563.19	12,458.65	28.07	27.93	-0.05	301.24	-284.33	238.02	191.32	46.71	5.096	
12,775.00	12,682.33	12,579.77	12,466.17	28.12	27.99	-0.05	316.00	-284.45	240.48	194.07	46.41	5.181	
12,800.00	12,694.69	12,596.31	12,473.16	28.18	28.05	-0.05	331.00	-284.56	242.50	196.36	46.14	5.256	
12,825.00	12,705.89	12,612.84	12,479.62	28.25	28.11	-0.05	346.21	-284.68	244.08	198.20	45.88	5.320	
12,850.00	12,715.91	12,629.35	12,485.55	28.32	28.18	-0.05	361.62	-284.79	245.21	199.57	45.64	5.373	
12,875.00	12,724.72	12,645.86	12,490.93	28.40	28.25	-0.05	377.22	-284.91	245.90	200.48	45.42	5.414	
12,900.00	12,732.29	12,662.35	12,495.77	28.49	28.32	-0.05	392.99	-285.03	246.14	200.92	45.23	5.443	
12,925.00	12,738.60	12,678.85	12,500.07	28.58	28.40	-0.05	408.92	-285.16	245.94	200.89	45.06	5.459	
12,950.00	12,743.64	12,695.35	12,503.81	28.68	28.47	-0.05	424.99	-285.28	245.30	200.39	44.91	5.462	
12,975.00	12,747.39	12,711.86	12,507.00	28.79	28.55	-0.05	441.18	-285.40	244.21	199.41	44.79	5.452	
13,000.00	12,749.84	12,728.39	12,509.62	28.90	28.63	-0.05	457.50	-285.53	242.67	197.97	44.71	5.428	
13,025.00	12,750.99	12,744.93	12,511.68	29.02	28.72	-0.05	473.91	-285.65	240.70	196.05	44.65	5.391	
13,036.61	12,751.08	12,752.62	12,512.45	29.07	28.76	-0.05	481.57	-285.71	239.63	195.00	44.63	5.369	
13,050.00	12,751.01	12,761.51	12,513.18	29.14	28.81	-0.05	490.43	-285.78	238.47	193.85	44.62	5.344	
13,100.00	12,750.78	12,794.89	12,514.45	29.41	28.99	-0.05	523.77	-286.03	236.34	191.67	44.67	5.291	
13,105.71	12,750.76	12,798.76	12,514.44	29.44	29.01	-0.05	527.64	-286.06	236.31	191.63	44.68	5.289	
13,150.00	12,750.55	12,843.06	12,514.24	29.71	29.28	-0.05	571.93	-286.40	236.32	191.53	44.78	5.277	
13,200.00	12,750.32	12,906.94	12,514.00	30.02	29.68	-0.05	621.93	-286.78	236.32	191.41	44.91	5.262	
13,250.00	12,750.09	12,943.06	12,513.77	30.37	29.94	-0.05	671.93	-287.17	236.32	191.29	45.03	5.248	
13,300.00	12,749.86	13,006.94	12,513.53	30.73	30.40	-0.05	721.93	-287.55	236.33	191.14	45.19	5.229	
13,350.00	12,749.62	13,043.06	12,513.30	31.13	30.69	-0.05	771.93	-287.93	236.33	191.00	45.33	5.213	
13,400.00	12,749.39	13,106.94	12,513.06	31.53	31.21	-0.05	821.92	-288.31	236.33	190.82	45.51	5.192	
13,450.00	12,749.16	13,143.06	12,512.83	31.97	31.54	-0.04	871.92	-288.70	236.34	190.66	45.67	5.175	
13,500.00	12,748.93	13,206.94	12,512.59	32.41	32.11	-0.04	921.92	-289.08	236.34	190.46	45.88	5.151	
13,550.00	12,748.70	13,243.06	12,512.36	32.89	32.46	-0.04	971.92	-289.46	236.34	190.28	46.06	5.131	
13,600.00	12,748.47	13,293.06	12,512.12	33.38	32.95	-0.04	1,021.92	-289.84	236.35	190.08	46.26	5.109	
13,650.00	12,748.24	13,343.06	12,511.89	33.89	33.46	-0.04	1,071.91	-290.22	236.35	189.86	46.49	5.084	
13,700.00	12,748.00	13,406.94	12,511.65	34.41	34.13	-0.04	1,121.91	-290.61	236.35	189.61	46.75	5.056	
13,750.00	12,747.77	13,443.06	12,511.42	34.96	34.53	-0.04	1,171.91	-290.99	236.36	189.40	46.96	5.033	
13,800.00	12,747.54	13,506.94	12,511.18	35.51	35.24	-0.04	1,221.91	-291.37	236.36	189.12	47.24	5.003	
13,850.00	12,747.31	13,543.06	12,510.95	36.08	35.66	-0.04	1,271.91	-291.75	236.36	188.89	47.47	4.979	
13,900.00	12,747.08	13,606.94	12,510.71	36.66	36.40	-0.04	1,321.90	-292.14	236.37	188.59	47.78	4.947	
13,950.00	12,746.85	13,643.06	12,510.48	37.26	36.84	-0.04	1,371.90	-292.52	236.37	188.35	48.02	4.922	
14,000.00	12,746.62	13,706.94	12,510.24	37.87	37.62	-0.04	1,421.90	-292.90	236.37	188.02	48.35	4.889	
14,050.00	12,746.38	13,743.06	12,510.01	38.50	38.08	-0.04	1,471.90	-293.28	236.38	187.76	48.61	4.862	
14,100.00	12,746.15	13,806.94	12,509.78	39.13	38.89	-0.04	1,521.90	-293.66	236.38	187.42	48.96	4.828	
14,150.00	12,745.92	13,843.06	12,509.54	39.78	39.36	-0.04	1,571.89	-294.05	236.38	187.14	49.24	4.801	
14,200.00	12,745.69	13,906.94	12,509.31	40.43	40.20	-0.04	1,621.89	-294.43	236.39	186.78	49.61	4.765	
14,250.00	12,745.46	13,943.06	12,509.07	41.10	40.69	-0.04	1,671.89	-294.81	236.39	186.49	49.90	4.737	
14,300.00	12,745.23	14,006.94	12,508.84	41.77	41.55	-0.04	1,721.89	-295.19	236.39	186.10	50.29	4.701	
14,350.00	12,745.00	14,043.06	12,508.60	42.45	42.05	-0.03	1,771.89	-295.58	236.40	185.80	50.60	4.672	

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,400.00	12,744.76	14,106.94	12,508.37	43.14	42.93	-0.03	-0.03	1,821.88	-295.96	236.40	185.40	51.00	4.635	
14,450.00	12,744.53	14,143.06	12,508.13	43.85	43.45	-0.03	-0.03	1,871.88	-296.34	236.40	185.08	51.33	4.606	
14,500.00	12,744.30	14,206.94	12,507.90	44.55	44.35	-0.03	-0.03	1,921.88	-296.72	236.41	184.66	51.75	4.568	
14,550.00	12,744.07	14,243.06	12,507.66	45.27	44.87	-0.03	-0.03	1,971.88	-297.10	236.41	184.33	52.08	4.539	
14,600.00	12,743.84	14,306.94	12,507.43	45.99	45.80	-0.03	-0.03	2,021.88	-297.49	236.41	183.89	52.53	4.501	
14,650.00	12,743.61	14,343.06	12,507.19	46.72	46.33	-0.03	-0.03	2,071.87	-297.87	236.42	183.54	52.87	4.471	
14,700.00	12,743.38	14,406.94	12,506.96	47.45	47.27	-0.03	-0.03	2,121.87	-298.25	236.42	183.09	53.33	4.433	
14,750.00	12,743.14	14,443.06	12,506.72	48.20	47.81	-0.03	-0.03	2,171.87	-298.63	236.42	182.73	53.69	4.403	
14,800.00	12,742.91	14,506.94	12,506.49	48.94	48.77	-0.03	-0.03	2,221.87	-299.02	236.43	182.26	54.17	4.365	
14,850.00	12,742.68	14,543.06	12,506.25	49.70	49.32	-0.03	-0.03	2,271.87	-299.40	236.43	181.89	54.54	4.335	
14,900.00	12,742.45	14,606.94	12,506.02	50.45	50.29	-0.03	-0.03	2,321.86	-299.78	236.43	181.41	55.03	4.297	
14,950.00	12,742.22	14,643.06	12,505.78	51.22	50.84	-0.03	-0.03	2,371.86	-300.16	236.44	181.03	55.41	4.267	
15,000.00	12,741.99	14,706.94	12,505.55	51.99	51.82	-0.03	-0.03	2,421.86	-300.55	236.44	180.53	55.91	4.229	
15,050.00	12,741.76	14,743.06	12,505.32	52.76	52.39	-0.03	-0.03	2,471.86	-300.93	236.44	180.14	56.30	4.200	
15,100.00	12,741.52	14,806.94	12,505.08	53.54	53.38	-0.03	-0.03	2,521.86	-301.31	236.45	179.63	56.82	4.161	
15,150.00	12,741.29	14,843.06	12,504.85	54.32	53.95	-0.03	-0.03	2,571.85	-301.69	236.45	179.23	57.22	4.132	
15,200.00	12,741.06	14,906.94	12,504.61	55.10	54.96	-0.02	-0.02	2,621.85	-302.07	236.45	178.70	57.75	4.094	
15,250.00	12,740.83	14,943.06	12,504.38	55.90	55.53	-0.02	-0.02	2,671.85	-302.46	236.46	178.29	58.16	4.065	
15,300.00	12,740.60	15,006.94	12,504.14	56.69	56.54	-0.02	-0.02	2,721.85	-302.84	236.46	177.75	58.71	4.028	
15,350.00	12,740.37	15,043.06	12,503.91	57.49	57.12	-0.02	-0.02	2,771.85	-303.22	236.46	177.34	59.13	3.999	
15,400.00	12,740.14	15,106.94	12,503.67	58.28	58.15	-0.02	-0.02	2,821.84	-303.60	236.47	176.79	59.68	3.962	
15,450.00	12,739.90	15,143.06	12,503.44	59.09	58.73	-0.02	-0.02	2,871.84	-303.99	236.47	176.36	60.11	3.934	
15,500.00	12,739.67	15,206.94	12,503.20	59.90	59.76	-0.02	-0.02	2,921.84	-304.37	236.47	175.80	60.68	3.897	
15,550.00	12,739.44	15,243.06	12,502.97	60.71	60.35	-0.02	-0.02	2,971.84	-304.75	236.48	175.37	61.11	3.870	
15,600.00	12,739.21	15,306.94	12,502.73	61.52	61.39	-0.02	-0.02	3,021.84	-305.13	236.48	174.79	61.69	3.833	
15,650.00	12,738.98	15,343.06	12,502.50	62.33	61.98	-0.02	-0.02	3,071.83	-305.51	236.48	174.35	62.13	3.806	
15,700.00	12,738.75	15,406.94	12,502.26	63.15	63.03	-0.02	-0.02	3,121.83	-305.90	236.49	173.77	62.72	3.771	
15,750.00	12,738.52	15,443.06	12,502.03	63.97	63.63	-0.02	-0.02	3,171.83	-306.28	236.49	173.32	63.17	3.744	
15,800.00	12,738.28	15,493.06	12,501.79	64.80	64.45	-0.02	-0.02	3,221.83	-306.66	236.49	172.80	63.69	3.713	
15,850.00	12,738.05	15,543.06	12,501.56	65.62	65.28	-0.02	-0.02	3,271.83	-307.04	236.50	172.27	64.23	3.682	
15,900.00	12,737.82	15,606.94	12,501.32	66.45	66.34	-0.02	-0.02	3,321.82	-307.43	236.50	171.67	64.83	3.648	
15,950.00	12,737.59	15,643.06	12,501.09	67.28	66.94	-0.02	-0.02	3,371.82	-307.81	236.50	171.21	65.30	3.622	
16,000.00	12,737.36	15,706.94	12,500.86	68.11	68.01	-0.02	-0.02	3,421.82	-308.19	236.51	170.59	65.91	3.588	
16,050.00	12,737.13	15,743.06	12,500.62	68.95	68.61	-0.02	-0.02	3,471.82	-308.57	236.51	170.13	66.38	3.563	
16,100.00	12,736.90	15,806.94	12,500.39	69.79	69.68	-0.01	-0.01	3,521.82	-308.95	236.51	169.51	67.01	3.530	
16,150.00	12,736.66	15,843.06	12,500.15	70.62	70.29	-0.01	-0.01	3,571.81	-309.34	236.52	169.03	67.48	3.505	
16,200.00	12,736.43	15,906.94	12,499.92	71.46	71.36	-0.01	-0.01	3,621.81	-309.72	236.52	168.40	68.12	3.472	
16,250.00	12,736.20	15,943.06	12,499.68	72.31	71.97	-0.01	-0.01	3,671.81	-310.10	236.52	167.92	68.60	3.448	
16,300.00	12,735.97	16,006.94	12,499.45	73.15	73.05	-0.01	-0.01	3,721.81	-310.48	236.53	167.29	69.24	3.416	
16,350.00	12,735.74	16,043.06	12,499.21	74.00	73.67	-0.01	-0.01	3,771.81	-310.87	236.53	166.80	69.73	3.392	
16,400.00	12,735.51	16,106.94	12,498.98	74.84	74.75	-0.01	-0.01	3,821.80	-311.25	236.53	166.16	70.37	3.361	
16,450.00	12,735.28	16,143.06	12,498.74	75.69	75.37	-0.01	-0.01	3,871.80	-311.63	236.54	165.67	70.87	3.338	
16,500.00	12,735.04	16,206.94	12,498.51	76.54	76.45	-0.01	-0.01	3,921.80	-312.01	236.54	165.02	71.52	3.307	
16,550.00	12,734.81	16,243.06	12,498.27	77.39	77.07	-0.01	-0.01	3,971.80	-312.39	236.54	164.52	72.02	3.284	
16,600.00	12,734.58	16,306.94	12,498.04	78.25	78.16	-0.01	-0.01	4,021.80	-312.78	236.55	163.87	72.68	3.255	
16,650.00	12,734.35	16,343.06	12,497.80	79.10	78.78	-0.01	-0.01	4,071.79	-313.16	236.55	163.37	73.18	3.232	
16,700.00	12,734.12	16,406.94	12,497.57	79.96	79.87	-0.01	-0.01	4,121.79	-313.54	236.55	162.71	73.85	3.203	
16,750.00	12,733.89	16,443.06	12,497.33	80.82	80.50	-0.01	-0.01	4,171.79	-313.92	236.56	162.20	74.36	3.181	
16,800.00	12,733.66	16,506.94	12,497.10	81.67	81.59	-0.01	-0.01	4,221.79	-314.31	236.56	161.53	75.03	3.153	
16,850.00	12,733.42	16,543.06	12,496.86	82.53	82.22	-0.01	-0.01	4,271.79	-314.69	236.56	161.02	75.54	3.132	
16,900.00	12,733.19	16,606.94	12,496.63	83.39	83.32	-0.01	-0.01	4,321.78	-315.07	236.57	160.35	76.22	3.104	
16,950.00	12,732.96	16,643.06	12,496.39	84.26	83.94	0.00	0.00	4,371.78	-315.45	236.57	159.84	76.73	3.083	

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 607H - Wellbore #1 - Plan #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor
17,000.00	12,732.73	16,706.94	12,496.16	85.12	85.04	0.00	4,421.78	-315.83	236.57	159.16	77.42	3.056	
17,050.00	12,732.50	16,743.06	12,495.93	85.98	85.67	0.00	4,471.78	-316.22	236.58	158.64	77.94	3.036	
17,100.00	12,732.27	16,806.94	12,495.69	86.85	86.78	0.00	4,521.78	-316.60	236.58	157.95	78.62	3.009	
17,150.00	12,732.04	16,843.06	12,495.46	87.71	87.40	0.00	4,571.77	-316.98	236.58	157.43	79.15	2.989	
17,200.00	12,731.80	16,906.94	12,495.22	88.58	88.51	0.00	4,621.77	-317.36	236.59	156.74	79.84	2.963	
17,250.00	12,731.57	16,943.06	12,494.99	89.45	89.14	0.00	4,671.77	-317.75	236.59	156.22	80.37	2.944	
17,300.00	12,731.34	16,993.06	12,494.75	90.32	90.01	0.00	4,721.77	-318.13	236.59	155.61	80.98	2.922	
17,350.00	12,731.11	17,043.06	12,494.52	91.19	90.88	0.00	4,771.77	-318.51	236.60	155.00	81.60	2.900	
17,373.73	12,731.00	17,066.79	12,494.41	91.60	91.29	0.00	4,795.50	-318.69	236.60	154.71	81.89	2.889	

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1														Offset Site Error:	0.00 ft
Survey Program: 0-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Distance		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)										
0.00	0.00	0.10	0.00	0.00	0.00	89.43	0.30	30.00	0.30	30.00	30.00	29.94	0.06	473.086	
50.00	50.00	49.90	50.00	0.02	0.04	89.43	0.30	30.00	0.30	30.00	30.00	29.84	0.16	187.734	
100.00	100.00	100.10	100.00	0.08	0.08	89.43	0.30	30.00	0.30	30.00	30.00	29.62	0.38	78.104	
150.00	150.00	149.90	150.00	0.19	0.19	89.43	0.30	30.00	0.30	30.00	30.00	29.39	0.61	49.236	
200.00	200.00	200.10	200.00	0.30	0.30	89.43	0.30	30.00	0.30	30.00	30.00	29.17	0.83	35.988	
250.00	250.00	249.90	250.00	0.42	0.42	89.43	0.30	30.00	0.30	30.00	30.00	28.94	1.06	28.333	
300.00	300.00	300.10	300.00	0.53	0.53	89.43	0.30	30.00	0.30	30.00	30.00	28.72	1.28	23.380	
350.00	350.00	349.90	350.00	0.64	0.64	89.43	0.30	30.00	0.30	30.00	30.00	28.49	1.51	19.890	
400.00	400.00	400.10	400.00	0.75	0.75	89.43	0.30	30.00	0.30	30.00	30.00	28.27	1.73	17.315	
450.00	450.00	449.90	450.00	0.87	0.87	89.43	0.30	30.00	0.30	30.00	30.00	28.04	1.96	15.323	
500.00	500.00	500.10	500.00	0.98	0.98	89.43	0.30	30.00	0.30	30.00	30.00	27.82	2.18	13.748	
550.00	550.00	549.90	550.00	1.09	1.09	89.43	0.30	30.00	0.30	30.00	30.00	27.59	2.41	12.462	
600.00	600.00	600.10	600.00	1.20	1.20	89.43	0.30	30.00	0.30	30.00	30.00	27.37	2.63	11.400	
650.00	650.00	649.90	650.00	1.32	1.32	89.43	0.30	30.00	0.30	30.00	30.00	27.14	2.86	10.501	
700.00	700.00	700.10	700.00	1.43	1.43	89.43	0.30	30.00	0.30	30.00	30.00	26.92	3.08	9.737	
750.00	750.00	749.90	750.00	1.54	1.54	89.43	0.30	30.00	0.30	30.00	30.00	26.70	3.31	9.073	
800.00	800.00	800.10	800.00	1.65	1.65	89.43	0.30	30.00	0.30	30.00	30.00	26.47	3.53	8.497	
850.00	850.00	849.90	850.00	1.77	1.77	89.43	0.30	30.00	0.30	30.00	30.00	26.25	3.76	7.987	
900.00	900.00	900.10	900.00	1.88	1.88	89.43	0.30	30.00	0.30	30.00	30.00	26.02	3.98	7.537	
950.00	950.00	949.90	950.00	1.99	1.99	89.43	0.30	30.00	0.30	30.00	30.00	25.80	4.21	7.134	
1,000.00	1,000.00	1,000.10	1,000.00	2.10	2.10	89.43	0.30	30.00	0.30	30.00	30.00	25.57	4.43	6.772	
1,050.00	1,050.00	1,049.90	1,050.00	2.22	2.21	89.43	0.30	30.00	0.30	30.00	30.00	25.35	4.66	6.445	
1,100.00	1,100.00	1,100.10	1,100.00	2.33	2.33	89.43	0.30	30.00	0.30	30.00	30.00	25.12	4.88	6.149	
1,150.00	1,150.00	1,149.90	1,150.00	2.44	2.44	89.43	0.30	30.00	0.30	30.00	30.00	24.90	5.10	5.877	
1,200.00	1,200.00	1,200.10	1,200.00	2.55	2.55	89.43	0.30	30.00	0.30	30.00	30.00	24.67	5.33	5.630	
1,250.00	1,250.00	1,249.90	1,250.00	2.66	2.66	89.43	0.30	30.00	0.30	30.00	30.00	24.45	5.55	5.402	
1,300.00	1,300.00	1,300.10	1,300.00	2.78	2.78	89.43	0.30	30.00	0.30	30.00	30.00	24.22	5.78	5.192	
1,350.00	1,350.00	1,349.90	1,350.00	2.89	2.89	89.43	0.30	30.00	0.30	30.00	30.00	24.00	6.00	4.997	
1,400.00	1,400.00	1,400.10	1,400.00	3.00	3.00	89.43	0.30	30.00	0.30	30.00	30.00	23.77	6.23	4.817	
1,450.00	1,450.00	1,449.90	1,450.00	3.11	3.11	89.43	0.30	30.00	0.30	30.00	30.00	23.55	6.45	4.649	
1,500.00	1,500.00	1,500.10	1,500.00	3.23	3.23	89.43	0.30	30.00	0.30	30.00	30.00	23.32	6.68	4.493	
1,550.00	1,550.00	1,549.90	1,550.00	3.34	3.34	89.43	0.30	30.00	0.30	30.00	30.00	23.10	6.90	4.346	
1,600.00	1,600.00	1,600.10	1,600.00	3.45	3.45	89.43	0.30	30.00	0.30	30.00	30.00	22.87	7.13	4.210	
1,650.00	1,650.00	1,649.90	1,650.00	3.56	3.56	89.43	0.30	30.00	0.30	30.00	30.00	22.65	7.35	4.081	
1,700.00	1,700.00	1,700.10	1,700.00	3.68	3.68	89.43	0.30	30.00	0.30	30.00	30.00	22.42	7.58	3.960	
1,750.00	1,750.00	1,749.90	1,750.00	3.79	3.79	89.43	0.30	30.00	0.30	30.00	30.00	22.20	7.80	3.845	
1,800.00	1,800.00	1,800.10	1,800.00	3.90	3.90	89.43	0.30	30.00	0.30	30.00	30.00	21.98	8.03	3.738	
1,850.00	1,850.00	1,849.90	1,850.00	4.01	4.01	89.43	0.30	30.00	0.30	30.00	30.00	21.75	8.25	3.636	
1,900.00	1,900.00	1,900.10	1,900.00	4.13	4.13	89.43	0.30	30.00	0.30	30.00	30.00	21.53	8.48	3.540	
1,950.00	1,950.00	1,949.90	1,950.00	4.24	4.24	89.43	0.30	30.00	0.30	30.00	30.00	21.30	8.70	3.448	
2,000.00	2,000.00	2,000.10	2,000.00	4.35	4.35	89.43	0.30	30.00	0.30	30.00	30.00	21.08	8.93	3.361	
2,050.00	2,050.00	2,049.90	2,050.00	4.46	4.46	89.43	0.30	30.00	0.30	30.00	30.00	20.85	9.15	3.279	
2,100.00	2,100.00	2,100.10	2,100.00	4.58	4.58	89.43	0.30	30.00	0.30	30.00	30.00	20.63	9.37	3.200	
2,150.00	2,150.00	2,149.90	2,150.00	4.69	4.69	89.43	0.30	30.00	0.30	30.00	30.00	20.40	9.60	3.125	
2,200.00	2,200.00	2,200.10	2,200.00	4.80	4.80	89.43	0.30	30.00	0.30	30.00	30.00	20.18	9.82	3.054	
2,250.00	2,250.00	2,249.90	2,250.00	4.91	4.91	89.43	0.30	30.00	0.30	30.00	30.00	19.95	10.05	2.985	
2,300.00	2,300.00	2,300.10	2,300.00	5.02	5.02	89.43	0.30	30.00	0.30	30.00	30.00	19.73	10.27	2.920	
2,350.00	2,350.00	2,349.90	2,350.00	5.14	5.14	89.43	0.30	30.00	0.30	30.00	30.00	19.50	10.50	2.858	
2,400.00	2,400.00	2,400.10	2,400.00	5.25	5.25	89.43	0.30	30.00	0.30	30.00	30.00	19.28	10.72	2.798	
2,450.00	2,450.00	2,449.90	2,450.00	5.36	5.36	89.43	0.30	30.00	0.30	30.00	30.00	19.05	10.95	2.740	
2,500.00	2,500.00	2,500.10	2,500.00	5.47	5.47	89.43	0.30	30.00	0.30	30.00	30.00	18.83	11.17	2.685	
2,550.00	2,550.00	2,549.90	2,550.00	5.59	5.59	89.43	0.30	30.00	0.30	30.00	30.00				

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
2,600.00	2,600.00	2,600.10	2,600.00	5.70	5.70	89.43	0.30	30.00	30.00	18.60	11.40	2.632	2.620 CC, ES	
2,612.13	2,612.13	2,612.03	2,612.13	5.73	5.73	89.43	0.30	30.00	30.00	18.55	11.45	2.620		
2,650.00	2,650.00	2,649.90	2,650.00	5.81	5.81	-176.53	0.30	30.00	30.19	18.57	11.62	2.599		
2,700.00	2,699.99	2,700.11	2,699.99	5.91	5.92	-176.62	0.30	30.00	31.01	19.18	11.83	2.620		
2,750.00	2,749.97	2,749.87	2,749.97	6.01	6.04	-176.78	0.30	30.00	32.49	20.44	12.04	2.697		
2,800.00	2,799.92	2,800.18	2,799.92	6.11	6.15	-176.97	0.30	30.00	34.61	22.36	12.25	2.825	3.000	
2,850.00	2,849.85	2,849.75	2,849.85	6.21	6.26	-177.20	0.30	30.00	37.39	24.93	12.47	3.000		
2,900.00	2,899.73	2,900.37	2,899.73	6.31	6.37	-177.43	0.30	30.00	40.83	28.15	12.68	3.221		
2,912.13	2,911.82	2,911.72	2,911.82	6.33	6.40	-177.49	0.30	30.00	41.76	29.03	12.73	3.281		
2,950.00	2,949.58	2,949.48	2,949.58	6.41	6.48	-177.65	0.30	30.00	44.73	31.84	12.89	3.471		
3,000.00	2,999.42	3,000.68	2,999.42	6.52	6.60	-177.84	0.30	30.00	48.65	35.55	13.10	3.713	3.949	
3,050.00	3,049.27	3,049.17	3,049.27	6.62	6.71	-178.00	0.30	30.00	52.57	39.26	13.31	3.949		
3,100.00	3,099.11	3,100.99	3,099.11	6.73	6.82	-178.14	0.30	30.00	56.49	42.96	13.53	4.176		
3,150.00	3,148.96	3,148.86	3,148.96	6.84	6.93	-178.26	0.30	30.00	60.41	46.67	13.74	4.397		
3,200.00	3,198.80	3,201.30	3,198.80	6.94	7.05	-178.37	0.30	30.00	64.33	50.38	13.96	4.609		
3,250.00	3,248.65	3,248.55	3,248.65	7.05	7.16	-178.46	0.30	30.00	68.25	54.09	14.17	4.818	5.017	
3,300.00	3,298.50	3,301.60	3,298.50	7.16	7.28	-178.55	0.30	30.00	72.18	57.79	14.39	5.017		
3,350.00	3,348.34	3,348.24	3,348.34	7.27	7.38	-178.62	0.30	30.00	76.10	61.50	14.59	5.214		
3,400.00	3,398.19	3,401.91	3,398.19	7.38	7.50	-178.69	0.30	30.00	80.02	65.20	14.82	5.400		
3,450.00	3,448.03	3,447.93	3,448.03	7.50	7.60	-178.75	0.30	30.00	83.94	68.92	15.03	5.587		
3,500.00	3,497.88	3,502.22	3,497.88	7.61	7.73	-178.81	0.30	30.00	87.86	72.61	15.25	5.761	5.938	
3,550.00	3,547.73	3,547.63	3,547.73	7.72	7.83	-178.86	0.30	30.00	91.79	76.33	15.46	5.938		
3,600.00	3,597.57	3,602.53	3,597.57	7.84	7.95	-178.90	0.30	30.00	95.71	80.02	15.68	6.102		
3,650.00	3,647.42	3,647.32	3,647.42	7.95	8.05	-178.95	0.30	30.00	99.63	83.74	15.89	6.270		
3,700.00	3,697.26	3,702.84	3,697.26	8.07	8.18	-178.99	0.30	30.00	103.55	87.43	16.12	6.424		
3,750.00	3,747.11	3,747.01	3,747.11	8.18	8.28	-179.02	0.30	30.00	107.47	91.15	16.32	6.583	6.728	
3,800.00	3,796.95	3,803.15	3,796.95	8.30	8.40	-179.06	0.30	30.00	111.40	94.84	16.56	6.728		
3,850.00	3,846.80	3,846.70	3,846.80	8.42	8.50	-179.09	0.30	30.00	115.32	98.56	16.76	6.880		
3,900.00	3,896.65	3,903.45	3,896.65	8.53	8.63	-179.12	0.30	30.00	119.24	102.25	16.99	7.017		
3,950.00	3,946.49	3,946.39	3,946.49	8.65	8.73	-179.15	0.30	30.00	123.16	105.97	17.20	7.162		
4,000.00	3,996.34	4,003.76	3,996.34	8.77	8.85	-179.17	0.30	30.00	127.09	109.65	17.43	7.290	7.429	
4,050.00	4,046.18	4,046.08	4,046.18	8.89	8.95	-179.20	0.30	30.00	131.01	113.37	17.63	7.429		
4,100.00	4,096.03	4,104.07	4,096.03	9.01	9.08	-179.22	0.30	30.00	134.93	117.06	17.87	7.550		
4,150.00	4,145.88	4,145.78	4,145.88	9.13	9.17	-179.24	0.30	30.00	138.85	120.78	18.07	7.683		
4,200.00	4,195.72	4,204.38	4,195.72	9.25	9.31	-179.27	0.30	30.00	142.78	124.46	18.31	7.797		
4,250.00	4,245.57	4,245.47	4,245.57	9.37	9.40	-179.28	0.30	30.00	146.70	128.19	18.51	7.924	8.032	
4,300.00	4,295.41	4,304.69	4,295.41	9.49	9.53	-179.30	0.30	30.00	150.62	131.87	18.75	8.032		
4,350.00	4,345.26	4,345.16	4,345.26	9.61	9.62	-179.32	0.30	30.00	154.55	135.59	18.95	8.154		
4,400.00	4,395.11	4,405.00	4,395.11	9.73	9.76	-179.34	0.30	30.00	158.47	139.27	19.20	8.255		
4,450.00	4,444.95	4,444.85	4,444.95	9.85	9.85	-179.35	0.30	30.00	162.39	143.00	19.39	8.373		
4,500.00	4,494.80	4,505.30	4,494.80	9.97	9.98	-179.37	0.30	30.00	166.31	146.68	19.64	8.469	8.583	
4,550.00	4,544.64	4,544.54	4,544.64	10.09	10.07	-179.38	0.30	30.00	170.24	150.40	19.84	8.583		
4,600.00	4,594.49	4,605.61	4,594.49	10.22	10.21	-179.40	0.30	30.00	174.16	154.08	20.08	8.673		
4,650.00	4,644.33	4,644.23	4,644.33	10.34	10.29	-179.41	0.30	30.00	178.08	157.80	20.28	8.782		
4,700.00	4,694.18	4,705.92	4,694.18	10.46	10.43	-179.42	0.30	30.00	182.00	161.48	20.52	8.867		
4,750.00	4,744.03	4,743.93	4,744.03	10.58	10.52	-179.44	0.30	30.00	185.93	165.21	20.72	8.973	9.054	
4,800.00	4,793.87	4,806.23	4,793.87	10.71	10.66	-179.45	0.30	30.00	189.85	168.88	20.97	9.054		
4,850.00	4,843.72	4,843.62	4,843.72	10.83	10.74	-179.46	0.30	30.00	193.77	172.61	21.16	9.156		
4,900.00	4,893.56	4,906.54	4,893.56	10.95	10.88	-179.47	0.30	30.00	197.70	176.28	21.41	9.232		
4,950.00	4,943.41	4,943.31	4,943.41	11.08	10.97	-179.48	0.30	30.00	201.62	180.01	21.61	9.331		
5,000.00	4,993.26	4,993.16	4,993.26	11.20	11.08	-179.49	0.30	30.00	205.54	183.71	21.83	9.416	9.498	
5,050.00	5,043.10	5,043.55	5,043.65	11.33	11.19	-179.50	0.31	29.98	209.45	187.39	22.05	9.498		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error: 0.00 ft	
Survey Program: 0-MWD													Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset +N/-S (ft)	Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,092.95	5,095.57	5,095.67	11.45	11.30	-179.61	0.65	29.56	212.99	190.71	22.28	9.561		
5,150.00	5,142.79	5,147.64	5,147.72	11.58	11.42	-179.84	1.42	28.58	216.02	193.52	22.50	9.601		
5,200.00	5,192.64	5,199.75	5,199.80	11.70	11.53	179.81	2.64	27.04	218.56	195.84	22.72	9.620		
5,250.00	5,242.48	5,251.88	5,251.86	11.83	11.64	179.35	4.29	24.94	220.60	197.66	22.94	9.618		
5,300.00	5,292.33	5,302.30	5,302.18	11.95	11.75	178.82	6.19	22.54	222.31	199.16	23.15	9.602		
5,350.00	5,342.18	5,352.23	5,352.01	12.08	11.86	178.30	8.08	20.15	224.03	200.66	23.37	9.586		
5,400.00	5,392.02	5,402.16	5,401.85	12.20	11.97	177.79	9.97	17.76	225.77	202.18	23.59	9.571		
5,450.00	5,441.87	5,452.09	5,451.69	12.33	12.08	177.29	11.86	15.37	227.53	203.72	23.81	9.556		
5,500.00	5,491.71	5,502.01	5,501.52	12.46	12.19	176.80	13.75	12.97	229.30	205.27	24.03	9.543		
5,550.00	5,541.56	5,551.94	5,551.36	12.58	12.30	176.31	15.63	10.58	231.09	206.84	24.25	9.530		
5,600.00	5,591.41	5,601.87	5,601.20	12.71	12.41	175.84	17.52	8.19	232.89	208.43	24.47	9.518		
5,650.00	5,641.25	5,651.80	5,651.03	12.83	12.52	175.37	19.41	5.80	234.71	210.03	24.69	9.507		
5,700.00	5,691.10	5,701.73	5,700.87	12.96	12.63	174.90	21.30	3.40	236.55	211.64	24.91	9.497		
5,750.00	5,740.94	5,751.66	5,750.71	13.09	12.74	174.45	23.19	1.01	238.40	213.27	25.13	9.487		
5,800.00	5,790.79	5,801.59	5,800.55	13.21	12.85	174.00	25.08	-1.38	240.27	214.92	25.35	9.478		
5,850.00	5,840.64	5,851.52	5,850.38	13.34	12.96	173.55	26.97	-3.77	242.15	216.58	25.57	9.469		
5,900.00	5,890.48	5,901.45	5,900.22	13.47	13.07	173.12	28.86	-6.16	244.05	218.25	25.80	9.461		
5,950.00	5,940.33	5,951.38	5,950.06	13.60	13.18	172.69	30.75	-8.56	245.96	219.94	26.02	9.453		
6,000.00	5,990.17	6,001.31	5,999.89	13.72	13.29	172.27	32.64	-10.95	247.88	221.64	26.24	9.446		
6,050.00	6,040.02	6,051.24	6,049.73	13.85	13.41	171.85	34.53	-13.34	249.82	223.35	26.47	9.439		
6,100.00	6,089.86	6,101.17	6,099.57	13.98	13.52	171.44	36.41	-15.73	251.77	225.08	26.69	9.433		
6,150.00	6,139.71	6,151.10	6,149.40	14.11	13.63	171.04	38.30	-18.13	253.73	226.81	26.91	9.427		
6,200.00	6,189.56	6,201.03	6,199.24	14.23	13.74	170.64	40.19	-20.52	255.70	228.56	27.14	9.422		
6,210.79	6,200.31	6,211.80	6,209.99	14.26	13.77	170.56	40.60	-21.03	256.13	228.94	27.19	9.421		
6,250.00	6,239.42	6,250.97	6,249.08	14.35	13.86	170.25	42.08	-22.91	257.49	230.13	27.36	9.412		
6,300.00	6,289.32	6,300.92	6,298.94	14.46	13.97	169.83	43.97	-25.30	258.66	231.09	27.57	9.381		
6,350.00	6,339.26	6,350.21	6,348.14	14.56	14.08	169.41	45.82	-27.64	259.23	231.45	27.78	9.332		
6,400.00	6,389.23	6,398.22	6,396.09	14.66	14.18	169.05	47.32	-29.54	259.46	231.48	27.97	9.275		
6,450.00	6,439.22	6,446.26	6,444.10	14.75	14.26	168.77	48.45	-30.97	259.43	231.27	28.16	9.214		
6,500.00	6,489.21	6,494.32	6,492.14	14.84	14.35	168.57	49.20	-31.93	259.13	230.80	28.34	9.145		
6,510.79	6,500.00	6,504.69	6,502.51	14.86	14.37	168.48	49.32	-32.07	259.04	230.66	28.37	9.129		
6,550.00	6,539.21	6,542.39	6,540.21	14.93	14.43	168.40	49.59	-32.41	258.77	230.25	28.52	9.074		
6,584.51	6,573.72	6,575.91	6,573.72	15.00	14.49	168.39	49.64	-32.48	258.72	230.07	28.65	9.031		
6,600.00	6,589.21	6,608.60	6,589.21	15.03	14.56	168.39	49.64	-32.48	258.72	229.98	28.74	9.001		
6,650.00	6,639.21	6,641.40	6,639.21	15.13	14.63	168.39	49.64	-32.48	258.72	229.80	28.82	8.945		
6,700.00	6,689.21	6,708.60	6,689.21	15.23	14.78	168.39	49.64	-32.48	258.72	229.54	29.18	8.866		
6,750.00	6,739.21	6,741.40	6,739.21	15.33	14.86	168.39	49.64	-32.48	258.72	229.36	29.36	8.812		
6,800.00	6,789.21	6,808.60	6,789.21	15.43	15.01	168.39	49.64	-32.48	258.72	229.10	29.62	8.736		
6,850.00	6,839.21	6,841.40	6,839.21	15.54	15.08	168.39	49.64	-32.48	258.72	228.93	29.80	8.683		
6,900.00	6,889.21	6,908.60	6,889.21	15.64	15.23	168.39	49.64	-32.48	258.72	228.67	30.05	8.609		
6,950.00	6,939.21	6,941.40	6,939.21	15.74	15.30	168.39	49.64	-32.48	258.72	228.49	30.23	8.558		
7,000.00	6,989.21	7,008.60	6,989.21	15.84	15.45	168.39	49.64	-32.48	258.72	228.23	30.49	8.485		
7,050.00	7,039.21	7,041.40	7,039.21	15.95	15.53	168.39	49.64	-32.48	258.72	228.05	30.67	8.436		
7,100.00	7,089.21	7,108.60	7,089.21	16.05	15.68	168.39	49.64	-32.48	258.72	227.79	30.93	8.365		
7,150.00	7,139.21	7,141.40	7,139.21	16.15	15.75	168.39	49.64	-32.48	258.72	227.61	31.11	8.317		
7,200.00	7,189.21	7,208.60	7,189.21	16.26	15.90	168.39	49.64	-32.48	258.72	227.36	31.37	8.249		
7,250.00	7,239.21	7,241.40	7,239.21	16.36	15.97	168.39	49.64	-32.48	258.72	227.18	31.55	8.201		
7,300.00	7,289.21	7,308.60	7,289.21	16.46	16.12	168.39	49.64	-32.48	258.72	226.92	31.80	8.135		
7,350.00	7,339.21	7,341.40	7,339.21	16.56	16.20	168.39	49.64	-32.48	258.72	226.74	31.98	8.089		
7,400.00	7,389.21	7,408.60	7,389.21	16.67	16.35	168.39	49.64	-32.48	258.72	226.48	32.24	8.024		
7,450.00	7,439.21	7,441.40	7,439.21	16.77	16.42	168.39	49.64	-32.48	258.72	226.30	32.42	7.980		
7,500.00	7,489.21	7,508.60	7,489.21	16.88	16.57	168.39	49.64	-32.48	258.72	226.04	32.68	7.917		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
7,550.00	7,539.21	7,541.40	7,539.21	16.98	16.65	74.39	49.64	-32.48	258.72	225.86		32.86	7.873	
7,600.00	7,589.21	7,608.60	7,589.21	17.08	16.80	74.39	49.64	-32.48	258.72	225.60		33.12	7.812	
7,650.00	7,639.21	7,641.40	7,639.21	17.19	16.87	74.39	49.64	-32.48	258.72	225.42		33.30	7.769	
7,700.00	7,689.21	7,708.60	7,689.21	17.29	17.02	74.39	49.64	-32.48	258.72	225.16		33.56	7.710	
7,750.00	7,739.21	7,741.40	7,739.21	17.40	17.09	74.39	49.64	-32.48	258.72	224.98		33.74	7.668	
7,800.00	7,789.21	7,808.60	7,789.21	17.50	17.24	74.39	49.64	-32.48	258.72	224.72		34.00	7.610	
7,850.00	7,839.21	7,841.40	7,839.21	17.60	17.32	74.39	49.64	-32.48	258.72	224.54		34.18	7.570	
7,900.00	7,889.21	7,908.60	7,889.21	17.71	17.47	74.39	49.64	-32.48	258.72	224.28		34.44	7.513	
7,950.00	7,939.21	7,941.40	7,939.21	17.81	17.54	74.39	49.64	-32.48	258.72	224.10		34.62	7.473	
8,000.00	7,989.21	8,008.60	7,989.21	17.92	17.69	74.39	49.64	-32.48	258.72	223.84		34.88	7.418	
8,050.00	8,039.21	8,041.40	8,039.21	18.02	17.76	74.39	49.64	-32.48	258.72	223.66		35.06	7.380	
8,100.00	8,089.21	8,108.60	8,089.21	18.13	17.91	74.39	49.64	-32.48	258.72	223.40		35.32	7.326	
8,150.00	8,139.21	8,141.40	8,139.21	18.23	17.99	74.39	49.64	-32.48	258.72	223.22		35.50	7.288	
8,200.00	8,189.21	8,208.60	8,189.21	18.34	18.14	74.39	49.64	-32.48	258.72	222.96		35.76	7.235	
8,250.00	8,239.21	8,241.40	8,239.21	18.44	18.21	74.39	49.64	-32.48	258.72	222.78		35.94	7.199	
8,300.00	8,289.21	8,308.60	8,289.21	18.55	18.36	74.39	49.64	-32.48	258.72	222.52		36.20	7.147	
8,350.00	8,339.21	8,341.40	8,339.21	18.65	18.44	74.39	49.64	-32.48	258.72	222.34		36.38	7.111	
8,400.00	8,389.21	8,408.60	8,389.21	18.76	18.59	74.39	49.64	-32.48	258.72	222.08		36.64	7.061	
8,450.00	8,439.21	8,441.40	8,439.21	18.87	18.66	74.39	49.64	-32.48	258.72	221.90		36.82	7.026	
8,500.00	8,489.21	8,508.60	8,489.21	18.97	18.81	74.39	49.64	-32.48	258.72	221.64		37.08	6.977	
8,550.00	8,539.21	8,541.40	8,539.21	19.08	18.88	74.39	49.64	-32.48	258.72	221.46		37.26	6.943	
8,600.00	8,589.21	8,608.60	8,589.21	19.18	19.03	74.39	49.64	-32.48	258.72	221.20		37.52	6.895	
8,650.00	8,639.21	8,641.40	8,639.21	19.29	19.11	74.39	49.64	-32.48	258.72	221.02		37.70	6.862	
8,700.00	8,689.21	8,708.60	8,689.21	19.39	19.26	74.39	49.64	-32.48	258.72	220.76		37.96	6.815	
8,750.00	8,739.21	8,741.40	8,739.21	19.50	19.33	74.39	49.64	-32.48	258.72	220.58		38.15	6.782	
8,800.00	8,789.21	8,808.60	8,789.21	19.61	19.48	74.39	49.64	-32.48	258.72	220.32		38.41	6.737	
8,850.00	8,839.21	8,841.40	8,839.21	19.71	19.56	74.39	49.64	-32.48	258.72	220.13		38.59	6.705	
8,900.00	8,889.21	8,908.60	8,889.21	19.82	19.71	74.39	49.64	-32.48	258.72	219.87		38.85	6.660	
8,950.00	8,939.21	8,941.40	8,939.21	19.92	19.78	74.39	49.64	-32.48	258.72	219.69		39.03	6.629	
9,000.00	8,989.21	9,008.60	8,989.21	20.03	19.93	74.39	49.64	-32.48	258.72	219.43		39.29	6.585	
9,050.00	9,039.21	9,041.40	9,039.21	20.14	20.00	74.39	49.64	-32.48	258.72	219.25		39.47	6.555	
9,100.00	9,089.21	9,108.60	9,089.21	20.24	20.15	74.39	49.64	-32.48	258.72	218.99		39.73	6.512	
9,150.00	9,139.21	9,141.40	9,139.21	20.35	20.23	74.39	49.64	-32.48	258.72	218.81		39.91	6.482	
9,200.00	9,189.21	9,208.60	9,189.21	20.46	20.38	74.39	49.64	-32.48	258.72	218.55		40.17	6.440	
9,250.00	9,239.21	9,241.40	9,239.21	20.56	20.45	74.39	49.64	-32.48	258.72	218.36		40.36	6.411	
9,300.00	9,289.21	9,308.60	9,289.21	20.67	20.60	74.39	49.64	-32.48	258.72	218.11		40.62	6.370	
9,350.00	9,339.21	9,341.40	9,339.21	20.78	20.68	74.39	49.64	-32.48	258.72	217.92		40.80	6.341	
9,400.00	9,389.21	9,408.60	9,389.21	20.88	20.83	74.39	49.64	-32.48	258.72	217.66		41.06	6.301	
9,450.00	9,439.21	9,441.40	9,439.21	20.99	20.90	74.39	49.64	-32.48	258.72	217.48		41.24	6.273	
9,500.00	9,489.21	9,508.60	9,489.21	21.10	21.05	74.39	49.64	-32.48	258.72	217.22		41.50	6.234	
9,550.00	9,539.21	9,541.40	9,539.21	21.20	21.12	74.39	49.64	-32.48	258.72	217.04		41.68	6.207	
9,600.00	9,589.21	9,608.60	9,589.21	21.31	21.27	74.39	49.64	-32.48	258.72	216.78		41.94	6.168	
9,650.00	9,639.21	9,641.40	9,639.21	21.42	21.35	74.39	49.64	-32.48	258.72	216.59		42.13	6.141	
9,700.00	9,689.21	9,708.60	9,689.21	21.53	21.50	74.39	49.64	-32.48	258.72	216.33		42.39	6.104	
9,750.00	9,739.21	9,741.40	9,739.21	21.63	21.57	74.39	49.64	-32.48	258.72	216.15		42.57	6.077	
9,800.00	9,789.21	9,808.60	9,789.21	21.74	21.72	74.39	49.64	-32.48	258.72	215.89		42.83	6.040	
9,850.00	9,839.21	9,841.40	9,839.21	21.85	21.80	74.39	49.64	-32.48	258.72	215.71		43.01	6.015	
9,900.00	9,889.21	9,908.60	9,889.21	21.95	21.95	74.39	49.64	-32.48	258.72	215.45		43.27	5.979	
9,950.00	9,939.21	9,941.40	9,939.21	22.06	22.02	74.39	49.64	-32.48	258.72	215.26		43.46	5.953	
10,000.00	9,989.21	10,008.60	9,989.21	22.17	22.17	74.39	49.64	-32.48	258.72	215.00		43.72	5.918	
10,050.00	10,039.21	10,041.40	10,039.21	22.28	22.24	74.39	49.64	-32.48	258.72	214.82		43.90	5.893	
10,100.00	10,089.21	10,108.60	10,089.21	22.38	22.39	74.39	49.64	-32.48	258.72	214.56		44.16	5.858	

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore:	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Between Centres (ft)	Between Ellipses (ft)				
10,150.00	10,139.21	10,141.40	10,139.21	22.49	22.47	74.39	49.64	-32.48	258.72	214.38	44.35	5.834
10,200.00	10,189.21	10,208.60	10,189.21	22.60	22.62	74.39	49.64	-32.48	258.72	214.12	44.61	5.800
10,250.00	10,239.21	10,241.40	10,239.21	22.71	22.69	74.39	49.64	-32.48	258.72	213.93	44.79	5.776
10,300.00	10,289.21	10,308.60	10,289.21	22.82	22.84	74.39	49.64	-32.48	258.72	213.67	45.05	5.743
10,350.00	10,339.21	10,341.40	10,339.21	22.92	22.92	74.39	49.64	-32.48	258.72	213.49	45.23	5.720
10,400.00	10,389.21	10,408.60	10,389.21	23.03	23.07	74.39	49.64	-32.48	258.72	213.23	45.49	5.687
10,450.00	10,439.21	10,441.40	10,439.21	23.14	23.14	74.39	49.64	-32.48	258.72	213.04	45.68	5.664
10,500.00	10,489.21	10,508.60	10,489.21	23.25	23.29	74.39	49.64	-32.48	258.72	212.78	45.94	5.632
10,550.00	10,539.21	10,541.40	10,539.21	23.35	23.36	74.39	49.64	-32.48	258.72	212.60	46.12	5.610
10,600.00	10,589.21	10,608.60	10,589.21	23.46	23.52	74.39	49.64	-32.48	258.72	212.34	46.38	5.578
10,650.00	10,639.21	10,641.40	10,639.21	23.57	23.59	74.39	49.64	-32.48	258.72	212.16	46.57	5.556
10,700.00	10,689.21	10,708.60	10,689.21	23.68	23.74	74.39	49.64	-32.48	258.72	211.90	46.83	5.525
10,750.00	10,739.21	10,741.40	10,739.21	23.79	23.81	74.39	49.64	-32.48	258.72	211.71	47.01	5.504
10,800.00	10,789.21	10,808.60	10,789.21	23.89	23.96	74.39	49.64	-32.48	258.72	211.45	47.27	5.473
10,850.00	10,839.21	10,841.40	10,839.21	24.00	24.04	74.39	49.64	-32.48	258.72	211.27	47.45	5.452
10,900.00	10,889.21	10,908.60	10,889.21	24.11	24.19	74.39	49.64	-32.48	258.72	211.01	47.71	5.422
10,950.00	10,939.21	10,941.40	10,939.21	24.22	24.26	74.39	49.64	-32.48	258.72	210.82	47.90	5.401
11,000.00	10,989.21	11,008.60	10,989.21	24.33	24.41	74.39	49.64	-32.48	258.72	210.56	48.16	5.372
11,050.00	11,039.21	11,041.40	11,039.21	24.44	24.49	74.39	49.64	-32.48	258.72	210.38	48.34	5.352
11,100.00	11,089.21	11,108.60	11,089.21	24.54	24.64	74.39	49.64	-32.48	258.72	210.12	48.60	5.323
11,150.00	11,139.21	11,141.40	11,139.21	24.65	24.71	74.39	49.64	-32.48	258.72	209.93	48.79	5.303
11,200.00	11,189.21	11,208.60	11,189.21	24.76	24.86	74.39	49.64	-32.48	258.72	209.67	49.05	5.275
11,250.00	11,239.21	11,241.40	11,239.21	24.87	24.93	74.39	49.64	-32.48	258.72	209.49	49.23	5.255
11,300.00	11,289.21	11,308.60	11,289.21	24.98	25.09	74.39	49.64	-32.48	258.72	209.23	49.49	5.227
11,350.00	11,339.21	11,341.40	11,339.21	25.09	25.16	74.39	49.64	-32.48	258.72	209.04	49.68	5.208
11,400.00	11,389.21	11,408.60	11,389.21	25.20	25.31	74.39	49.64	-32.48	258.72	208.78	49.94	5.181
11,450.00	11,439.21	11,441.40	11,439.21	25.30	25.38	74.39	49.64	-32.48	258.72	208.60	50.12	5.162
11,500.00	11,489.21	11,508.60	11,489.21	25.41	25.53	74.39	49.64	-32.48	258.72	208.34	50.38	5.135
11,550.00	11,539.21	11,541.40	11,539.21	25.52	25.61	74.39	49.64	-32.48	258.72	208.15	50.57	5.116
11,600.00	11,589.21	11,608.60	11,589.21	25.63	25.76	74.39	49.64	-32.48	258.72	207.89	50.83	5.090
11,650.00	11,639.21	11,641.40	11,639.21	25.74	25.83	74.39	49.64	-32.48	258.72	207.71	51.01	5.072
11,700.00	11,689.21	11,708.60	11,689.21	25.85	25.98	74.39	49.64	-32.48	258.72	207.45	51.27	5.046
11,750.00	11,739.21	11,741.40	11,739.21	25.96	26.06	74.39	49.64	-32.48	258.72	207.26	51.46	5.028
11,800.00	11,789.21	11,808.60	11,789.21	26.07	26.21	74.39	49.64	-32.48	258.72	207.00	51.72	5.002
11,850.00	11,839.21	11,841.40	11,839.21	26.17	26.28	74.39	49.64	-32.48	258.72	206.82	51.90	4.985
11,900.00	11,889.21	11,908.60	11,889.21	26.28	26.43	74.39	49.64	-32.48	258.72	206.56	52.16	4.960
11,950.00	11,939.21	11,941.40	11,939.21	26.39	26.50	74.39	49.64	-32.48	258.72	206.37	52.35	4.942
12,000.00	11,989.21	12,008.60	11,989.21	26.50	26.66	74.39	49.64	-32.48	258.72	206.11	52.61	4.918
12,050.00	12,039.21	12,041.40	12,039.21	26.61	26.73	74.39	49.64	-32.48	258.72	205.93	52.79	4.901
12,100.00	12,089.21	12,091.40	12,089.21	26.72	26.84	74.39	49.64	-32.48	258.72	205.70	53.02	4.880
12,150.00	12,139.21	12,141.40	12,139.21	26.83	26.95	74.39	49.64	-32.48	258.72	205.48	53.24	4.860
12,150.18	12,139.40	12,141.59	12,139.40	26.83	26.95	74.39	49.64	-32.48	258.72	205.48	53.24	4.860
12,200.00	12,189.21	12,187.45	12,185.25	26.94	27.06	74.22	50.43	-32.48	258.96	205.52	53.45	4.845
12,250.00	12,239.21	12,230.74	12,228.29	27.05	27.16	73.27	54.89	-32.52	260.38	206.74	53.64	4.855
12,284.40	12,273.62	12,259.90	12,256.98	27.12	27.22	72.18	60.08	-32.56	262.18	208.43	53.75	4.877
12,300.00	12,289.21	12,272.94	12,269.70	27.16	27.25	71.95	62.97	-32.58	263.17	209.37	53.80	4.892
12,325.00	12,314.17	12,293.72	12,289.78	27.21	27.30	70.91	68.29	-32.62	264.78	210.91	53.87	4.915
12,350.00	12,339.01	12,314.35	12,309.48	27.26	27.35	69.93	74.42	-32.67	266.40	212.47	53.93	4.939
12,375.00	12,363.67	12,334.86	12,328.78	27.32	27.39	69.01	81.36	-32.72	268.01	214.02	53.99	4.964
12,400.00	12,388.09	12,355.24	12,347.64	27.37	27.44	68.14	89.07	-32.78	269.59	215.56	54.03	4.990
12,425.00	12,412.19	12,375.51	12,366.06	27.42	27.49	67.32	97.53	-32.84	271.14	217.08	54.06	5.015
12,450.00	12,435.91	12,395.68	12,384.02	27.48	27.53	66.56	106.71	-32.91	272.64	218.55	54.09	5.041

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
12,475.00	12,459.19	12,415.75	12,401.48	27.53	27.58	65.86	116.60	-32.99	274.08	219.98	54.10	5.066		
12,500.00	12,481.96	12,435.73	12,418.45	27.58	27.62	65.21	127.16	-33.07	275.45	221.34	54.11	5.090		
12,525.00	12,504.16	12,455.64	12,434.89	27.63	27.67	64.62	138.37	-33.15	276.74	222.62	54.11	5.114		
12,550.00	12,525.73	12,475.00	12,450.42	27.68	27.71	64.09	149.93	-33.24	277.93	223.84	54.10	5.138		
12,575.00	12,546.60	12,495.24	12,466.14	27.72	27.76	63.60	162.68	-33.34	279.03	224.93	54.10	5.158		
12,600.00	12,566.73	12,514.96	12,480.92	27.77	27.81	63.17	175.73	-33.44	280.02	225.93	54.09	5.177		
12,625.00	12,586.05	12,534.62	12,495.11	27.82	27.86	62.80	189.33	-33.54	280.90	226.82	54.08	5.194		
12,650.00	12,604.52	12,554.25	12,508.71	27.87	27.92	62.49	203.48	-33.65	281.66	227.59	54.07	5.209		
12,675.00	12,622.08	12,573.83	12,521.68	27.91	27.97	62.23	218.15	-33.76	282.30	228.23	54.07	5.221		
12,700.00	12,638.69	12,593.39	12,534.03	27.96	28.03	62.02	233.32	-33.88	282.81	228.74	54.07	5.231		
12,725.00	12,654.29	12,612.93	12,545.73	28.01	28.09	61.87	248.96	-34.00	283.18	229.11	54.08	5.237		
12,750.00	12,668.85	12,632.45	12,556.78	28.07	28.16	61.77	265.06	-34.12	283.43	229.33	54.09	5.240		
12,775.00	12,682.33	12,651.97	12,567.15	28.12	28.23	61.73	281.59	-34.25	283.53	229.41	54.12	5.239		
12,800.00	12,694.69	12,671.48	12,576.84	28.18	28.30	61.74	298.52	-34.37	283.51	229.34	54.16	5.234		
12,825.00	12,705.89	12,691.00	12,585.83	28.25	28.37	61.81	315.84	-34.51	283.34	229.12	54.22	5.226		
12,850.00	12,715.91	12,710.52	12,594.11	28.32	28.44	61.93	333.53	-34.64	283.04	228.75	54.30	5.213		
12,875.00	12,724.72	12,730.07	12,601.66	28.40	28.52	62.10	351.55	-34.78	282.61	228.22	54.39	5.196		
12,900.00	12,732.29	12,750.00	12,608.60	28.49	28.61	62.34	370.23	-34.92	282.05	227.54	54.51	5.174		
12,925.00	12,738.60	12,769.24	12,614.56	28.58	28.69	62.62	388.53	-35.06	281.36	226.72	54.64	5.150		
12,950.00	12,743.64	12,788.88	12,619.87	28.68	28.78	62.96	407.44	-35.21	280.55	225.76	54.79	5.120		
12,975.00	12,747.39	12,808.57	12,624.41	28.79	28.87	63.35	426.59	-35.35	279.62	224.65	54.97	5.087		
13,000.00	12,749.84	12,828.31	12,628.16	28.90	28.97	63.80	445.96	-35.50	278.58	223.41	55.17	5.050		
13,025.00	12,750.99	12,848.10	12,631.12	29.02	29.07	64.31	465.54	-35.65	277.44	222.05	55.39	5.009		
13,036.61	12,751.08	12,857.32	12,632.22	29.07	29.11	64.56	474.69	-35.72	276.88	221.37	55.51	4.988		
13,050.00	12,751.01	12,867.98	12,633.27	29.14	29.17	64.77	485.30	-35.80	276.29	220.65	55.64	4.966		
13,097.64	12,750.79	12,919.33	12,635.13	29.39	29.45	65.15	522.05	-36.08	275.22	219.10	56.12	4.904		
13,100.00	12,750.78	12,916.98	12,635.12	29.41	29.43	65.15	524.41	-36.10	275.22	219.10	56.12	4.904		
13,150.00	12,750.55	12,957.15	12,634.89	29.71	29.67	65.15	574.41	-36.48	275.22	218.63	56.59	4.863		
13,200.00	12,750.32	13,007.15	12,634.65	30.02	29.98	65.15	624.41	-36.86	275.22	218.10	57.12	4.818		
13,250.00	12,750.09	13,057.15	12,634.42	30.37	30.32	65.15	674.40	-37.24	275.23	217.49	57.74	4.767		
13,300.00	12,749.86	13,107.15	12,634.19	30.73	30.67	65.15	724.40	-37.62	275.23	216.88	58.35	4.717		
13,350.00	12,749.62	13,157.15	12,633.95	31.13	31.06	65.15	774.40	-38.00	275.24	216.19	59.05	4.661		
13,400.00	12,749.39	13,207.15	12,633.72	31.53	31.45	65.15	824.40	-38.39	275.24	215.49	59.75	4.607		
13,450.00	12,749.16	13,257.15	12,633.48	31.97	31.89	65.15	874.40	-38.77	275.24	214.72	60.52	4.548		
13,500.00	12,748.93	13,307.15	12,633.25	32.41	32.32	65.15	924.39	-39.15	275.25	213.95	61.30	4.490		
13,550.00	12,748.70	13,357.15	12,633.01	32.89	32.80	65.15	974.39	-39.53	275.25	213.11	62.14	4.429		
13,600.00	12,748.47	13,407.15	12,632.78	33.38	33.27	65.15	1,024.39	-39.91	275.26	212.26	62.99	4.370		
13,650.00	12,748.24	13,457.15	12,632.55	33.89	33.78	65.15	1,074.39	-40.29	275.26	211.36	63.90	4.308		
13,700.00	12,748.00	13,507.15	12,632.31	34.41	34.29	65.15	1,124.39	-40.67	275.27	210.45	64.82	4.247		
13,750.00	12,747.77	13,557.15	12,632.08	34.96	34.83	65.15	1,174.38	-41.06	275.27	209.48	65.79	4.184		
13,800.00	12,747.54	13,607.15	12,631.84	35.51	35.37	65.15	1,224.38	-41.44	275.27	208.51	66.76	4.123		
13,850.00	12,747.31	13,657.15	12,631.61	36.08	35.94	65.15	1,274.38	-41.82	275.28	207.49	67.79	4.061		
13,900.00	12,747.08	13,707.15	12,631.37	36.66	36.52	65.15	1,324.38	-42.20	275.28	206.46	68.82	4.000		
13,950.00	12,746.85	13,757.15	12,631.14	37.26	37.12	65.15	1,374.38	-42.58	275.29	205.39	69.89	3.939		
14,000.00	12,746.62	13,807.15	12,630.91	37.87	37.71	65.14	1,424.37	-42.96	275.29	204.32	70.97	3.879		
14,050.00	12,746.38	13,857.15	12,630.67	38.50	38.34	65.14	1,474.37	-43.34	275.29	203.20	72.10	3.818		
14,100.00	12,746.15	13,907.15	12,630.44	39.13	38.96	65.14	1,524.37	-43.73	275.30	202.07	73.22	3.760		
14,150.00	12,745.92	13,957.15	12,630.20	39.78	39.61	65.14	1,574.37	-44.11	275.30	200.91	74.39	3.701		
14,200.00	12,745.69	14,007.15	12,629.97	40.43	40.25	65.14	1,624.37	-44.49	275.31	199.75	75.56	3.644		
14,250.00	12,745.46	14,057.15	12,629.73	41.10	40.92	65.14	1,674.36	-44.87	275.31	198.55	76.76	3.587		
14,300.00	12,745.23	14,107.15	12,629.50	41.77	41.58	65.14	1,724.36	-45.25	275.31	197.35	77.97	3.531		
14,350.00	12,745.00	14,157.15	12,629.27	42.45	42.27	65.14	1,774.36	-45.63	275.32	196.11	79.20	3.476		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,400.00	12,744.76	14,207.15	12,629.03	43.14	42.95	65.14	1,824.36	-46.01	275.32	194.88	80.45	3.422		
14,450.00	12,744.53	14,257.15	12,628.80	43.85	43.65	65.14	1,874.36	-46.40	275.33	193.61	81.71	3.369		
14,500.00	12,744.30	14,307.15	12,628.56	44.55	44.35	65.14	1,924.35	-46.78	275.33	192.35	82.99	3.318		
14,550.00	12,744.07	14,357.15	12,628.33	45.27	45.07	65.14	1,974.35	-47.16	275.33	191.05	84.29	3.267		
14,600.00	12,743.84	14,407.15	12,628.10	45.99	45.78	65.14	2,024.35	-47.54	275.34	189.75	85.59	3.217		
14,650.00	12,743.61	14,457.15	12,627.86	46.72	46.51	65.14	2,074.35	-47.92	275.34	188.43	86.91	3.168		
14,700.00	12,743.38	14,507.15	12,627.63	47.45	47.24	65.14	2,124.35	-48.30	275.35	187.11	88.24	3.120		
14,750.00	12,743.14	14,557.15	12,627.39	48.20	47.98	65.14	2,174.34	-48.68	275.35	185.76	89.59	3.074		
14,800.00	12,742.91	14,607.15	12,627.16	48.94	48.73	65.14	2,224.34	-49.07	275.35	184.42	90.94	3.028		
14,850.00	12,742.68	14,657.15	12,626.92	49.70	49.48	65.14	2,274.34	-49.45	275.36	183.05	92.31	2.983		
14,900.00	12,742.45	14,707.15	12,626.69	50.45	50.23	65.14	2,324.34	-49.83	275.36	181.68	93.68	2.939		
14,950.00	12,742.22	14,757.15	12,626.46	51.22	51.00	65.14	2,374.34	-50.21	275.37	180.29	95.07	2.896		
15,000.00	12,741.99	14,807.15	12,626.22	51.99	51.76	65.14	2,424.33	-50.59	275.37	178.90	96.47	2.855		
15,050.00	12,741.76	14,857.15	12,625.99	52.76	52.53	65.14	2,474.33	-50.97	275.38	177.50	97.88	2.814		
15,100.00	12,741.52	14,907.15	12,625.75	53.54	53.31	65.14	2,524.33	-51.35	275.38	176.09	99.29	2.774		
15,150.00	12,741.29	14,957.15	12,625.52	54.32	54.09	65.14	2,574.33	-51.74	275.38	174.67	100.71	2.734		
15,200.00	12,741.06	15,007.15	12,625.28	55.10	54.87	65.14	2,624.33	-52.12	275.39	173.25	102.14	2.696		
15,250.00	12,740.83	15,057.15	12,625.05	55.90	55.66	65.14	2,674.32	-52.50	275.39	171.81	103.58	2.659		
15,300.00	12,740.60	15,107.15	12,624.82	56.69	56.45	65.14	2,724.32	-52.88	275.40	170.37	105.03	2.622		
15,350.00	12,740.37	15,157.15	12,624.58	57.49	57.25	65.14	2,774.32	-53.26	275.40	168.92	106.48	2.586		
15,400.00	12,740.14	15,207.15	12,624.35	58.28	58.04	65.14	2,824.32	-53.64	275.40	167.46	107.94	2.551		
15,450.00	12,739.90	15,257.15	12,624.11	59.09	58.85	65.14	2,874.32	-54.02	275.41	166.00	109.41	2.517		
15,500.00	12,739.67	15,307.15	12,623.88	59.90	59.65	65.14	2,924.31	-54.40	275.41	164.53	110.88	2.484		
15,550.00	12,739.44	15,357.15	12,623.65	60.71	60.46	65.14	2,974.31	-54.79	275.42	163.05	112.36	2.451		
15,600.00	12,739.21	15,407.15	12,623.41	61.52	61.27	65.14	3,024.31	-55.17	275.42	161.58	113.84	2.419		
15,650.00	12,738.98	15,457.15	12,623.18	62.33	62.09	65.14	3,074.31	-55.55	275.42	160.09	115.34	2.388		
15,700.00	12,738.75	15,507.15	12,622.94	63.15	62.90	65.14	3,124.31	-55.93	275.43	158.60	116.83	2.358		
15,750.00	12,738.52	15,557.15	12,622.71	63.97	63.72	65.14	3,174.30	-56.31	275.43	157.10	118.33	2.328		
15,800.00	12,738.28	15,607.15	12,622.47	64.80	64.54	65.14	3,224.30	-56.69	275.44	155.60	119.84	2.298		
15,850.00	12,738.05	15,657.15	12,622.24	65.62	65.37	65.14	3,274.30	-57.07	275.44	154.09	121.35	2.270		
15,900.00	12,737.82	15,707.15	12,622.01	66.45	66.20	65.14	3,324.30	-57.46	275.44	152.58	122.86	2.242		
15,950.00	12,737.59	15,757.15	12,621.77	67.28	67.03	65.14	3,374.30	-57.84	275.45	151.07	124.38	2.215		
16,000.00	12,737.36	15,807.15	12,621.54	68.11	67.86	65.13	3,424.29	-58.22	275.45	149.55	125.91	2.188		
16,050.00	12,737.13	15,857.15	12,621.30	68.95	68.69	65.13	3,474.29	-58.60	275.46	148.02	127.44	2.162		
16,100.00	12,736.90	15,907.15	12,621.07	69.79	69.53	65.13	3,524.29	-58.98	275.46	146.50	128.97	2.136		
16,150.00	12,736.66	15,957.15	12,620.83	70.62	70.36	65.13	3,574.29	-59.36	275.46	144.96	130.50	2.111		
16,200.00	12,736.43	16,007.15	12,620.60	71.46	71.20	65.13	3,624.29	-59.74	275.47	143.43	132.04	2.086		
16,250.00	12,736.20	16,057.15	12,620.37	72.31	72.04	65.13	3,674.28	-60.13	275.47	141.89	133.59	2.062		
16,300.00	12,735.97	16,107.15	12,620.13	73.15	72.89	65.13	3,724.28	-60.51	275.48	140.35	135.13	2.039		
16,350.00	12,735.74	16,157.15	12,619.90	74.00	73.73	65.13	3,774.28	-60.89	275.48	138.80	136.68	2.015		
16,400.00	12,735.51	16,207.15	12,619.66	74.84	74.58	65.13	3,824.28	-61.27	275.49	137.25	138.23	1.993		
16,450.00	12,735.28	16,257.15	12,619.43	75.69	75.43	65.13	3,874.28	-61.65	275.49	135.70	139.79	1.971		
16,500.00	12,735.04	16,307.15	12,619.19	76.54	76.28	65.13	3,924.27	-62.03	275.49	134.15	141.35	1.949		
16,550.00	12,734.81	16,357.15	12,618.96	77.39	77.13	65.13	3,974.27	-62.41	275.50	132.59	142.91	1.928		
16,600.00	12,734.58	16,407.15	12,618.73	78.25	77.98	65.13	4,024.27	-62.80	275.50	131.03	144.48	1.907		
16,650.00	12,734.35	16,457.15	12,618.49	79.10	78.83	65.13	4,074.27	-63.18	275.51	129.46	146.04	1.886		
16,700.00	12,734.12	16,507.15	12,618.26	79.96	79.69	65.13	4,124.27	-63.56	275.51	127.90	147.61	1.866		
16,750.00	12,733.89	16,557.15	12,618.02	80.82	80.54	65.13	4,174.26	-63.94	275.51	126.33	149.19	1.847		
16,800.00	12,733.66	16,607.15	12,617.79	81.67	81.40	65.13	4,224.26	-64.32	275.52	124.76	150.76	1.828		
16,850.00	12,733.42	16,657.15	12,617.56	82.53	82.26	65.13	4,274.26	-64.70	275.52	123.18	152.34	1.809		
16,900.00	12,733.19	16,707.15	12,617.32	83.39	83.12	65.13	4,324.26	-65.08	275.53	121.61	153.92	1.790		
16,950.00	12,732.96	16,757.15	12,617.09	84.26	83.98	65.13	4,374.26	-65.47	275.53	120.03	155.50	1.772		

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Dominator 25 Federal Com - Dominator 25 Well 709H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
17,000.00	12,732.73	16,807.15	12,616.85	85.12	84.84	65.13	4,424.25	-65.85	275.53	118.45	157.09	1.754		
17,050.00	12,732.50	16,857.15	12,616.62	85.98	85.71	65.13	4,474.25	-66.23	275.54	116.86	158.67	1.737		
17,100.00	12,732.27	16,907.15	12,616.38	86.85	86.57	65.13	4,524.25	-66.61	275.54	115.28	160.26	1.719		
17,150.00	12,732.04	16,957.15	12,616.15	87.71	87.44	65.13	4,574.25	-66.99	275.55	113.69	161.85	1.702		
17,200.00	12,731.80	17,007.15	12,615.92	88.58	88.30	65.13	4,624.25	-67.37	275.55	112.11	163.44	1.686		
17,250.00	12,731.57	17,057.15	12,615.68	89.45	89.17	65.13	4,674.24	-67.75	275.55	110.51	165.04	1.670		
17,300.00	12,731.34	17,107.15	12,615.45	90.32	90.04	65.13	4,724.24	-68.14	275.56	108.92	166.64	1.654		
17,350.00	12,731.11	17,157.15	12,615.21	91.19	90.91	65.13	4,774.24	-68.52	275.56	107.33	168.23	1.638		
17,373.73	12,731.00	17,180.88	12,615.10	91.60	91.32	65.13	4,797.97	-68.70	275.56	106.57	168.99	1.631 SF		



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Com	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3335.6' + 29' RKB @ 3364.60ft (Noram 23) Coordinates are relative to: Dominator 25 Well 710H

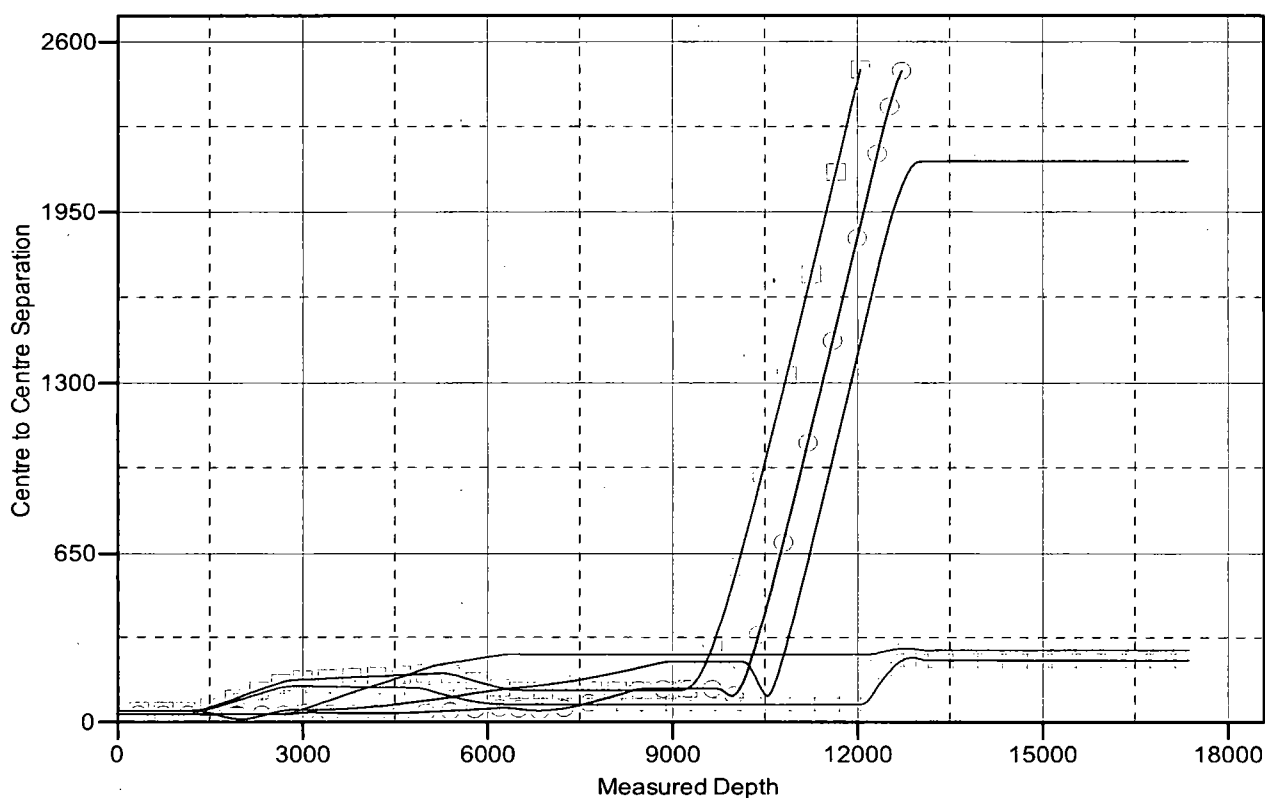
Offset Depths are relative to Offset Datum

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

Central Meridian is 104.333°W

Grid Convergence at Surface is: 0.43°

Ladder Plot



LEGEND

Dominator 25 Well 607H, Wellbore #1, Plan #1 V0 Dominator 25 Well 709H, Wellbore #1, Plan #1 V0 Dominator 25 Well 106H, Wellbore #1, Plan #1 V0
Dominator 25 Well 406H, Wellbore #1, Plan #1 V0 Dominator 25 Well 306H, Wellbore #1, Plan #1 V0

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



Anticollision Report

Company:	Concho Operating	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Reference Site:	Dominator 25 Federal Corn	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3335.6' + 29' RKB @ 3364.60ft (Noram) Coordinates are relative to: Dominator 25 Well 710H

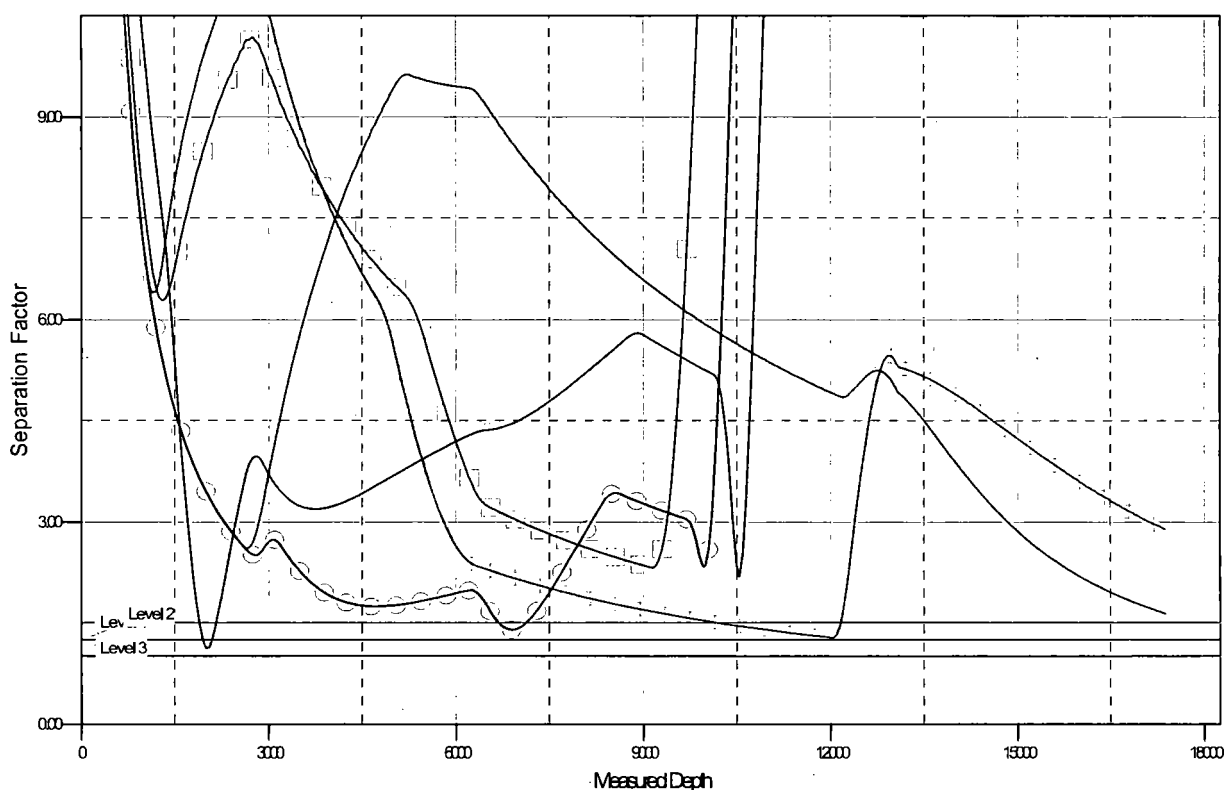
Offset Depths are relative to Offset Datum

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

Central Meridian is 104.333°W

Grid Convergence at Surface is: 0.43°

Separation Factor Plot



LEGEND

Dominator 25 Well 607H, Wellbore #1, Plan #1 V0 Dominator 25 Well 709H, Wellbore #1, Plan #1 V0 Dominator 25 Well 106H, Wellbore #1, Plan #1 V0
Dominator 25 Well 406H, Wellbore #1, Plan #1 V0 Dominator 25 Well 306H, Wellbore #1, Plan #1 V0

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



Lea County, NM (Nad 27)
Dominator 25 Federal Com
Dominator 25 Well 710H
Wellbore #1
Plan #1
Noram 23

Start Build 1.50

Start 3298.65 hold at 2912.13 MD

SURFACE LOCATION

US State Plane 1927 (Exact solution)
New Mexico East 3001
Elevation: 3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Northing 399180.00 Easting 749529.80 Latitude 32.095°N Longitude 103.528°W

Start Drop -1.50

710H FTP

Start 5773.62 hold at 6510.79 MD

Start 4337.12 hold at 13036.61 MD

Start Build 12.00

Drilling Unit Sec.25

TD at 17373.73

710H EOL

710H EOC

710H FTP

Start Build 1.50

Start Drop -1.50

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2612.13	0.00	0.00	2612.13	0.00	0.00	0.00	0.00	0.00
2912.13	4.50	265.94	2911.82	-0.83	-11.75	1.50	265.94	-0.74
6210.79	4.50	265.94	6200.31	-19.17	-269.90	0.00	0.00	-17.09
6510.79	0.00	0.00	6500.00	-20.00	-281.65	1.50	180.00	-17.84
12284.40	0.00	0.00	12273.62	-20.00	-281.65	0.00	0.00	-17.84
13036.61	90.27	359.56	12751.07	459.66	-285.34	12.00	359.56	461.84
17373.73	90.27	359.56	12731.00	4796.61	-318.70	0.00	0.00	4798.92

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
710H FTP	6500.00	47.77	-282.39	399227.77	749247.41
710H EOL	12731.00	4796.61	-318.70	403976.60	749211.10
710H EOC	12751.01	474.36	-286.02	399654.36	749243.78

Start Build 12.00

Start 4337.12 hold at 13036.61 MD

TD at 17373.73

710H EOC

710H EOL

Vertical Section at 359.56° (1000 ft/in)





Concho Operating

Lea County, NM (Nad 27)

Dominator 25 Federal Com

Dominator 25 Well 710H

Wellbore #1

Plan: Plan #1

Standard Planning Report

15 November, 2017



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (Nad 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dominator 25 Federal Com		
Site Position:		Northing:	399,209.70 usft
From:	Map	Easting:	749,499.60 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.095°N
		Longitude:	103.528°W
		Grid Convergence:	0.43 °

Well	Dominator 25 Well 710H		
Well Position	+N/-S	-29.70 ft	Northing: 399,180.00 usft
	+E/-W	30.20 ft	Easting: 749,529.80 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 32.095°N
			Longitude: 103.528°W
			Ground Level: 3,335.60 ft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/14/2017	6.88	59.95	47,824.41651486

Design	Plan #1		
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Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	359.56

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,612.13	0.00	0.00	2,612.13	0.00	0.00	0.00	0.00	0.00	0.00	
2,912.13	4.50	265.94	2,911.82	-0.83	-11.75	1.50	1.50	0.00	265.94	
6,210.79	4.50	265.94	6,200.31	-19.17	-269.90	0.00	0.00	0.00	0.00	
6,510.79	0.00	0.00	6,500.00	-20.00	-281.65	1.50	-1.50	0.00	180.00	
12,284.40	0.00	0.00	12,273.62	-20.00	-281.65	0.00	0.00	0.00	0.00	
13,036.61	90.27	359.56	12,751.08	459.66	-285.34	12.00	12.00	0.00	359.56	
17,373.73	90.27	359.56	12,731.00	4,796.61	-318.70	0.00	0.00	0.00	0.00	710H EOL



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,612.13	0.00	0.00	2,612.13	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
2,700.00	1.32	265.94	2,699.99	-0.07	-1.01	-0.06	1.50	1.50	0.00
2,800.00	2.82	265.94	2,799.92	-0.33	-4.61	-0.29	1.50	1.50	0.00
2,900.00	4.32	265.94	2,899.73	-0.77	-10.82	-0.68	1.50	1.50	0.00
2,912.13	4.50	265.94	2,911.82	-0.83	-11.75	-0.74	1.50	1.50	0.00
Start 3298.65 hold at 2912.13 MD									
3,000.00	4.50	265.94	2,999.42	-1.32	-18.62	-1.18	0.00	0.00	0.00
3,100.00	4.50	265.94	3,099.11	-1.88	-26.45	-1.67	0.00	0.00	0.00
3,200.00	4.50	265.94	3,198.80	-2.43	-34.27	-2.17	0.00	0.00	0.00
3,300.00	4.50	265.94	3,298.50	-2.99	-42.10	-2.67	0.00	0.00	0.00
3,400.00	4.50	265.94	3,398.19	-3.55	-49.93	-3.16	0.00	0.00	0.00
3,500.00	4.50	265.94	3,497.88	-4.10	-57.75	-3.66	0.00	0.00	0.00
3,600.00	4.50	265.94	3,597.57	-4.66	-65.58	-4.15	0.00	0.00	0.00
3,700.00	4.50	265.94	3,697.26	-5.21	-73.41	-4.65	0.00	0.00	0.00
3,800.00	4.50	265.94	3,796.95	-5.77	-81.23	-5.14	0.00	0.00	0.00
3,900.00	4.50	265.94	3,896.65	-6.32	-89.06	-5.64	0.00	0.00	0.00
4,000.00	4.50	265.94	3,996.34	-6.88	-96.88	-6.14	0.00	0.00	0.00
4,100.00	4.50	265.94	4,096.03	-7.44	-104.71	-6.63	0.00	0.00	0.00
4,200.00	4.50	265.94	4,195.72	-7.99	-112.54	-7.13	0.00	0.00	0.00
4,300.00	4.50	265.94	4,295.41	-8.55	-120.36	-7.62	0.00	0.00	0.00
4,400.00	4.50	265.94	4,395.11	-9.10	-128.19	-8.12	0.00	0.00	0.00
4,500.00	4.50	265.94	4,494.80	-9.66	-136.02	-8.61	0.00	0.00	0.00
4,600.00	4.50	265.94	4,594.49	-10.21	-143.84	-9.11	0.00	0.00	0.00
4,700.00	4.50	265.94	4,694.18	-10.77	-151.67	-9.60	0.00	0.00	0.00
4,800.00	4.50	265.94	4,793.87	-11.33	-159.49	-10.10	0.00	0.00	0.00
4,900.00	4.50	265.94	4,893.56	-11.88	-167.32	-10.60	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.00	4.50	265.94	4,993.26	-12.44	-175.15	-11.09	0.00	0.00	0.00
5,100.00	4.50	265.94	5,092.95	-12.99	-182.97	-11.59	0.00	0.00	0.00
5,200.00	4.50	265.94	5,192.64	-13.55	-190.80	-12.08	0.00	0.00	0.00
5,300.00	4.50	265.94	5,292.33	-14.10	-198.62	-12.58	0.00	0.00	0.00
5,400.00	4.50	265.94	5,392.02	-14.66	-206.45	-13.07	0.00	0.00	0.00
5,500.00	4.50	265.94	5,491.71	-15.22	-214.28	-13.57	0.00	0.00	0.00
5,600.00	4.50	265.94	5,591.41	-15.77	-222.10	-14.07	0.00	0.00	0.00
5,700.00	4.50	265.94	5,691.10	-16.33	-229.93	-14.56	0.00	0.00	0.00
5,800.00	4.50	265.94	5,790.79	-16.88	-237.76	-15.06	0.00	0.00	0.00
5,900.00	4.50	265.94	5,890.48	-17.44	-245.58	-15.55	0.00	0.00	0.00
6,000.00	4.50	265.94	5,990.17	-17.99	-253.41	-16.05	0.00	0.00	0.00
6,100.00	4.50	265.94	6,089.86	-18.55	-261.23	-16.54	0.00	0.00	0.00
6,200.00	4.50	265.94	6,189.56	-19.11	-269.06	-17.04	0.00	0.00	0.00
6,210.79	4.50	265.94	6,200.31	-19.17	-269.90	-17.09	0.00	0.00	0.00
Start Drop -1.50									
6,300.00	3.16	265.94	6,289.32	-19.59	-275.85	-17.47	1.50	-1.50	0.00
6,400.00	1.66	265.94	6,389.23	-19.89	-280.05	-17.74	1.50	-1.50	0.00
6,500.00	0.16	265.94	6,489.21	-20.00	-281.63	-17.84	1.50	-1.50	0.00
6,510.78	0.00	265.94	6,499.99	-20.00	-281.65	-17.84	1.50	-1.50	0.00
710H FTP									
6,510.79	0.00	0.00	6,500.00	-20.00	-281.65	-17.84	1.50	-1.50	0.00
Start 5773.62 hold at 6510.79 MD									
6,600.00	0.00	0.00	6,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
6,700.00	0.00	0.00	6,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
6,800.00	0.00	0.00	6,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
6,900.00	0.00	0.00	6,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,000.00	0.00	0.00	6,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,100.00	0.00	0.00	7,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,200.00	0.00	0.00	7,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,300.00	0.00	0.00	7,289.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,400.00	0.00	0.00	7,389.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,500.00	0.00	0.00	7,489.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,600.00	0.00	0.00	7,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,700.00	0.00	0.00	7,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,800.00	0.00	0.00	7,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
7,900.00	0.00	0.00	7,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,000.00	0.00	0.00	7,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,100.00	0.00	0.00	8,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,200.00	0.00	0.00	8,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,300.00	0.00	0.00	8,289.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,400.00	0.00	0.00	8,389.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,500.00	0.00	0.00	8,489.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,600.00	0.00	0.00	8,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,700.00	0.00	0.00	8,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,800.00	0.00	0.00	8,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
8,900.00	0.00	0.00	8,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,000.00	0.00	0.00	8,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,100.00	0.00	0.00	9,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,200.00	0.00	0.00	9,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,300.00	0.00	0.00	9,289.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,400.00	0.00	0.00	9,389.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,500.00	0.00	0.00	9,489.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,600.00	0.00	0.00	9,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,700.00	0.00	0.00	9,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,800.00	0.00	0.00	9,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
9,900.00	0.00	0.00	9,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,000.00	0.00	0.00	9,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,100.00	0.00	0.00	10,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,200.00	0.00	0.00	10,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,300.00	0.00	0.00	10,289.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,400.00	0.00	0.00	10,389.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,500.00	0.00	0.00	10,489.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,600.00	0.00	0.00	10,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,700.00	0.00	0.00	10,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,800.00	0.00	0.00	10,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
10,900.00	0.00	0.00	10,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,000.00	0.00	0.00	10,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,100.00	0.00	0.00	11,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,200.00	0.00	0.00	11,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,300.00	0.00	0.00	11,289.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,400.00	0.00	0.00	11,389.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,500.00	0.00	0.00	11,489.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,600.00	0.00	0.00	11,589.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,700.00	0.00	0.00	11,689.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,800.00	0.00	0.00	11,789.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
11,900.00	0.00	0.00	11,889.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
12,000.00	0.00	0.00	11,989.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
12,100.00	0.00	0.00	12,089.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
12,200.00	0.00	0.00	12,189.21	-20.00	-281.65	-17.84	0.00	0.00	0.00
12,284.40	0.00	0.00	12,273.62	-20.00	-281.65	-17.84	0.00	0.00	0.00
Start Build 12.00									
12,300.00	1.87	359.56	12,289.21	-19.75	-281.65	-17.58	12.00	12.00	0.00
12,400.00	13.87	359.56	12,388.09	-6.07	-281.76	-3.91	12.00	12.00	0.00
12,500.00	25.87	359.56	12,481.96	27.85	-282.02	30.02	12.00	12.00	0.00
12,600.00	37.87	359.56	12,566.73	80.56	-282.42	82.72	12.00	12.00	0.00
12,700.00	49.87	359.56	12,638.69	149.73	-282.96	151.90	12.00	12.00	0.00
12,800.00	61.87	359.56	12,694.69	232.36	-283.59	234.53	12.00	12.00	0.00
12,900.00	73.87	359.56	12,732.29	324.82	-284.30	327.00	12.00	12.00	0.00
13,000.00	85.87	359.56	12,749.84	423.08	-285.06	425.26	12.00	12.00	0.00
13,036.61	90.27	359.56	12,751.08	459.66	-285.34	461.84	12.00	12.00	0.00
Start 4337.12 hold at 13036.61 MD									
13,051.32	90.27	359.56	12,751.01	474.37	-285.45	476.54	0.00	0.00	0.00
710H EOC									
13,100.00	90.27	359.56	12,750.78	523.05	-285.83	525.23	0.00	0.00	0.00
13,200.00	90.27	359.56	12,750.32	623.04	-286.60	625.23	0.00	0.00	0.00
13,300.00	90.27	359.56	12,749.86	723.04	-287.37	725.23	0.00	0.00	0.00
13,400.00	90.27	359.56	12,749.39	823.04	-288.13	825.22	0.00	0.00	0.00
13,500.00	90.27	359.56	12,748.93	923.03	-288.90	925.22	0.00	0.00	0.00
13,600.00	90.27	359.56	12,748.47	1,023.03	-289.67	1,025.22	0.00	0.00	0.00
13,700.00	90.27	359.56	12,748.00	1,123.02	-290.44	1,125.22	0.00	0.00	0.00
13,800.00	90.27	359.56	12,747.54	1,223.02	-291.21	1,225.22	0.00	0.00	0.00
13,900.00	90.27	359.56	12,747.08	1,323.02	-291.98	1,325.22	0.00	0.00	0.00
14,000.00	90.27	359.56	12,746.62	1,423.01	-292.75	1,425.22	0.00	0.00	0.00
14,100.00	90.27	359.56	12,746.15	1,523.01	-293.52	1,525.22	0.00	0.00	0.00
14,200.00	90.27	359.56	12,745.69	1,623.00	-294.29	1,625.22	0.00	0.00	0.00
14,300.00	90.27	359.56	12,745.23	1,723.00	-295.06	1,725.21	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,400.00	90.27	359.56	12,744.76	1,823.00	-295.83	1,825.21	0.00	0.00	0.00
14,500.00	90.27	359.56	12,744.30	1,922.99	-296.60	1,925.21	0.00	0.00	0.00
14,600.00	90.27	359.56	12,743.84	2,022.99	-297.37	2,025.21	0.00	0.00	0.00
14,700.00	90.27	359.56	12,743.38	2,122.98	-298.13	2,125.21	0.00	0.00	0.00
14,800.00	90.27	359.56	12,742.91	2,222.98	-298.90	2,225.21	0.00	0.00	0.00
14,900.00	90.27	359.56	12,742.45	2,322.98	-299.67	2,325.21	0.00	0.00	0.00
15,000.00	90.27	359.56	12,741.99	2,422.97	-300.44	2,425.21	0.00	0.00	0.00
15,100.00	90.27	359.56	12,741.52	2,522.97	-301.21	2,525.21	0.00	0.00	0.00
15,200.00	90.27	359.56	12,741.06	2,622.96	-301.98	2,625.20	0.00	0.00	0.00
15,300.00	90.27	359.56	12,740.60	2,722.96	-302.75	2,725.20	0.00	0.00	0.00
15,400.00	90.27	359.56	12,740.14	2,822.96	-303.52	2,825.20	0.00	0.00	0.00
15,500.00	90.27	359.56	12,739.67	2,922.95	-304.29	2,925.20	0.00	0.00	0.00
15,600.00	90.27	359.56	12,739.21	3,022.95	-305.06	3,025.20	0.00	0.00	0.00
15,700.00	90.27	359.56	12,738.75	3,122.94	-305.83	3,125.20	0.00	0.00	0.00
15,800.00	90.27	359.56	12,738.28	3,222.94	-306.60	3,225.20	0.00	0.00	0.00
15,900.00	90.27	359.56	12,737.82	3,322.93	-307.36	3,325.20	0.00	0.00	0.00
16,000.00	90.27	359.56	12,737.36	3,422.93	-308.13	3,425.20	0.00	0.00	0.00
16,100.00	90.27	359.56	12,736.90	3,522.93	-308.90	3,525.20	0.00	0.00	0.00
16,200.00	90.27	359.56	12,736.43	3,622.92	-309.67	3,625.19	0.00	0.00	0.00
16,300.00	90.27	359.56	12,735.97	3,722.92	-310.44	3,725.19	0.00	0.00	0.00
16,400.00	90.27	359.56	12,735.51	3,822.91	-311.21	3,825.19	0.00	0.00	0.00
16,500.00	90.27	359.56	12,735.04	3,922.91	-311.98	3,925.19	0.00	0.00	0.00
16,600.00	90.27	359.56	12,734.58	4,022.91	-312.75	4,025.19	0.00	0.00	0.00
16,700.00	90.27	359.56	12,734.12	4,122.90	-313.52	4,125.19	0.00	0.00	0.00
16,800.00	90.27	359.56	12,733.66	4,222.90	-314.29	4,225.19	0.00	0.00	0.00
16,900.00	90.27	359.56	12,733.19	4,322.89	-315.06	4,325.19	0.00	0.00	0.00
17,000.00	90.27	359.56	12,732.73	4,422.89	-315.83	4,425.19	0.00	0.00	0.00
17,100.00	90.27	359.56	12,732.27	4,522.89	-316.60	4,525.18	0.00	0.00	0.00
17,200.00	90.27	359.56	12,731.80	4,622.88	-317.36	4,625.18	0.00	0.00	0.00
17,300.00	90.27	359.56	12,731.34	4,722.88	-318.13	4,725.18	0.00	0.00	0.00
17,373.73	90.27	359.56	12,731.00	4,796.61	-318.70	4,798.92	0.00	0.00	0.00
TD at 17373.73 - 710H EOL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
710H FTP	0.00	0.00	6,500.00	47.77	-282.39	399,227.77	749,247.40	32.095°N	103.528°W
- hit/miss target									
- Shape									
- Point									
710H EOL	0.00	0.00	12,731.00	4,796.61	-318.70	403,976.60	749,211.10	32.108°N	103.528°W
- plan hits target center									
- Point									
710H EOC	0.00	0.00	12,751.01	474.36	-286.02	399,654.36	749,243.78	32.096°N	103.528°W
- plan misses target center by 0.57ft at 13051.32ft MD (12751.01 TVD, 474.37 N, -285.45 E)									
- Point									



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,612.13	2,612.13	0.00	0.00	Start Build 1.50
2,912.13	2,911.82	-0.83	-11.75	Start 3298.65 hold at 2912.13 MD
6,210.79	6,200.31	-19.17	-269.90	Start Drop -1.50
6,510.79	6,500.00	-20.00	-281.65	Start 5773.62 hold at 6510.79 MD
12,284.40	12,273.62	-20.00	-281.65	Start Build 12.00
13,036.61	12,751.08	459.66	-285.34	Start 4337.12 hold at 13036.61 MD
17,373.73	12,731.00	4,796.61	-318.70	TD at 17373.73



Concho Operating

Lea County, NM (Nad 27)

Dominator 25 Federal Com

Dominator 25 Well 710H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

15 November, 2017



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (Nad 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dominator 25 Federal Com		
Site Position:		Northing:	399,209.70 usft
From:	Map	Easting:	749,499.60 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.095°N
		Longitude:	103.528°W
		Grid Convergence:	0.43 °

Well	Dominator 25 Well 710H		
Well Position	+N/-S	0.00 ft	Northing: 399,180.00 usft
	+E/-W	0.00 ft	Easting: 749,529.80 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 32.095°N
			Longitude: 103.528°W
			Ground Level: 3,335.60 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/14/2017	6.88
			Dip Angle (°) 59.95
			Field Strength (nT) 47,824.41651486

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 359.56

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,612.13	0.00	0.00	2,612.13	0.00	0.00	0.00	0.00	0.00	0.00	
2,912.13	4.50	265.94	2,911.82	-0.83	-11.75	1.50	1.50	0.00	265.94	
6,210.79	4.50	265.94	6,200.31	-19.17	-269.90	0.00	0.00	0.00	0.00	
6,510.79	0.00	0.00	6,500.00	-20.00	-281.65	1.50	-1.50	0.00	180.00	
12,284.40	0.00	0.00	12,273.62	-20.00	-281.65	0.00	0.00	0.00	0.00	
13,036.61	90.27	359.56	12,751.08	459.66	-285.34	12.00	12.00	0.00	359.56	
17,373.73	90.27	359.56	12,731.00	4,796.61	-318.70	0.00	0.00	0.00	0.00	710H EOL



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
100.00	0.00	0.00	100.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
200.00	0.00	0.00	200.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
300.00	0.00	0.00	300.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
400.00	0.00	0.00	400.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
500.00	0.00	0.00	500.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
600.00	0.00	0.00	600.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
700.00	0.00	0.00	700.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
800.00	0.00	0.00	800.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
900.00	0.00	0.00	900.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,100.00	0.00	0.00	1,100.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,500.00	0.00	0.00	1,500.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,600.00	0.00	0.00	1,600.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,700.00	0.00	0.00	1,700.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,800.00	0.00	0.00	1,800.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
1,900.00	0.00	0.00	1,900.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,000.00	0.00	0.00	2,000.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,100.00	0.00	0.00	2,100.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,200.00	0.00	0.00	2,200.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,300.00	0.00	0.00	2,300.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,400.00	0.00	0.00	2,400.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,500.00	0.00	0.00	2,500.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,600.00	0.00	0.00	2,600.00	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
2,612.13	0.00	0.00	2,612.13	0.00	0.00	399,180.00	749,529.80	32.095°N	103.528°W
Start Build 1.50									
2,700.00	1.32	265.94	2,699.99	-0.07	-1.01	399,179.93	749,528.79	32.095°N	103.528°W
2,800.00	2.82	265.94	2,799.92	-0.33	-4.61	399,179.67	749,525.19	32.095°N	103.528°W
2,900.00	4.32	265.94	2,899.73	-0.77	-10.82	399,179.23	749,518.98	32.095°N	103.528°W
2,912.13	4.50	265.94	2,911.82	-0.83	-11.75	399,179.16	749,518.05	32.095°N	103.528°W
Start 3298.65 hold at 2912.13 MD									
3,000.00	4.50	265.94	2,999.42	-1.32	-18.62	399,178.68	749,511.17	32.095°N	103.528°W
3,100.00	4.50	265.94	3,099.11	-1.88	-26.45	399,178.12	749,503.35	32.095°N	103.528°W
3,200.00	4.50	265.94	3,198.80	-2.43	-34.27	399,177.57	749,495.52	32.095°N	103.528°W
3,300.00	4.50	265.94	3,298.50	-2.99	-42.10	399,177.01	749,487.70	32.095°N	103.528°W
3,400.00	4.50	265.94	3,398.19	-3.55	-49.93	399,176.45	749,479.87	32.095°N	103.528°W
3,500.00	4.50	265.94	3,497.88	-4.10	-57.75	399,175.90	749,472.04	32.095°N	103.528°W
3,600.00	4.50	265.94	3,597.57	-4.66	-65.58	399,175.34	749,464.22	32.095°N	103.528°W
3,700.00	4.50	265.94	3,697.26	-5.21	-73.41	399,174.79	749,456.39	32.095°N	103.528°W
3,800.00	4.50	265.94	3,796.95	-5.77	-81.23	399,174.23	749,448.57	32.095°N	103.528°W
3,900.00	4.50	265.94	3,896.65	-6.32	-89.06	399,173.67	749,440.74	32.095°N	103.528°W
4,000.00	4.50	265.94	3,996.34	-6.88	-96.88	399,173.12	749,432.91	32.095°N	103.528°W
4,100.00	4.50	265.94	4,096.03	-7.44	-104.71	399,172.56	749,425.09	32.095°N	103.528°W
4,200.00	4.50	265.94	4,195.72	-7.99	-112.54	399,172.01	749,417.26	32.095°N	103.528°W
4,300.00	4.50	265.94	4,295.41	-8.55	-120.36	399,171.45	749,409.43	32.095°N	103.528°W
4,400.00	4.50	265.94	4,395.11	-9.10	-128.19	399,170.90	749,401.61	32.095°N	103.528°W
4,500.00	4.50	265.94	4,494.80	-9.66	-136.02	399,170.34	749,393.78	32.095°N	103.528°W
4,600.00	4.50	265.94	4,594.49	-10.21	-143.84	399,169.78	749,385.96	32.095°N	103.528°W
4,700.00	4.50	265.94	4,694.18	-10.77	-151.67	399,169.23	749,378.13	32.095°N	103.528°W
4,800.00	4.50	265.94	4,793.87	-11.33	-159.49	399,168.67	749,370.30	32.095°N	103.528°W
4,900.00	4.50	265.94	4,893.56	-11.88	-167.32	399,168.12	749,362.48	32.095°N	103.528°W



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.00	4.50	265.94	4,993.26	-12.44	-175.15	399,167.56	749,354.65	32.095°N	103.528°W
5,100.00	4.50	265.94	5,092.95	-12.99	-182.97	399,167.01	749,346.82	32.095°N	103.528°W
5,200.00	4.50	265.94	5,192.64	-13.55	-190.80	399,166.45	749,339.00	32.095°N	103.528°W
5,300.00	4.50	265.94	5,292.33	-14.10	-198.62	399,165.89	749,331.17	32.095°N	103.528°W
5,400.00	4.50	265.94	5,392.02	-14.66	-206.45	399,165.34	749,323.35	32.095°N	103.528°W
5,500.00	4.50	265.94	5,491.71	-15.22	-214.28	399,164.78	749,315.52	32.095°N	103.528°W
5,600.00	4.50	265.94	5,591.41	-15.77	-222.10	399,164.23	749,307.69	32.095°N	103.528°W
5,700.00	4.50	265.94	5,691.10	-16.33	-229.93	399,163.67	749,299.87	32.095°N	103.528°W
5,800.00	4.50	265.94	5,790.79	-16.88	-237.76	399,163.12	749,292.04	32.095°N	103.528°W
5,900.00	4.50	265.94	5,890.48	-17.44	-245.58	399,162.56	749,284.22	32.095°N	103.528°W
6,000.00	4.50	265.94	5,990.17	-17.99	-253.41	399,162.00	749,276.39	32.095°N	103.528°W
6,100.00	4.50	265.94	6,089.86	-18.55	-261.23	399,161.45	749,268.56	32.095°N	103.528°W
6,200.00	4.50	265.94	6,189.56	-19.11	-269.06	399,160.89	749,260.74	32.095°N	103.528°W
6,210.79	4.50	265.94	6,200.31	-19.17	-269.90	399,160.83	749,259.89	32.095°N	103.528°W
Start Drop -1.50									
6,300.00	3.16	265.94	6,289.32	-19.59	-275.85	399,160.41	749,253.95	32.095°N	103.528°W
6,400.00	1.66	265.94	6,389.23	-19.89	-280.05	399,160.11	749,249.75	32.095°N	103.528°W
6,500.00	0.16	265.94	6,489.21	-20.00	-281.63	399,160.00	749,248.16	32.095°N	103.528°W
6,510.78	0.00	265.94	6,499.99	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
710H FTP									
6,510.79	0.00	0.00	6,500.00	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
Start 5773.62 hold at 6510.79 MD									
6,600.00	0.00	0.00	6,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
6,700.00	0.00	0.00	6,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
6,800.00	0.00	0.00	6,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
6,900.00	0.00	0.00	6,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,000.00	0.00	0.00	6,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,100.00	0.00	0.00	7,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,200.00	0.00	0.00	7,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,300.00	0.00	0.00	7,289.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,400.00	0.00	0.00	7,389.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,500.00	0.00	0.00	7,489.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,600.00	0.00	0.00	7,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,700.00	0.00	0.00	7,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,800.00	0.00	0.00	7,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
7,900.00	0.00	0.00	7,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,000.00	0.00	0.00	7,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,100.00	0.00	0.00	8,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,200.00	0.00	0.00	8,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,300.00	0.00	0.00	8,289.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,400.00	0.00	0.00	8,389.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,500.00	0.00	0.00	8,489.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,600.00	0.00	0.00	8,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,700.00	0.00	0.00	8,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,800.00	0.00	0.00	8,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
8,900.00	0.00	0.00	8,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,000.00	0.00	0.00	8,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,100.00	0.00	0.00	9,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,200.00	0.00	0.00	9,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,300.00	0.00	0.00	9,289.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,400.00	0.00	0.00	9,389.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,500.00	0.00	0.00	9,489.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,600.00	0.00	0.00	9,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,700.00	0.00	0.00	9,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,800.00	0.00	0.00	9,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
9,900.00	0.00	0.00	9,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,000.00	0.00	0.00	9,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,100.00	0.00	0.00	10,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,200.00	0.00	0.00	10,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,300.00	0.00	0.00	10,289.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,400.00	0.00	0.00	10,389.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,500.00	0.00	0.00	10,489.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,600.00	0.00	0.00	10,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,700.00	0.00	0.00	10,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,800.00	0.00	0.00	10,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
10,900.00	0.00	0.00	10,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,000.00	0.00	0.00	10,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,100.00	0.00	0.00	11,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,200.00	0.00	0.00	11,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,300.00	0.00	0.00	11,289.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,400.00	0.00	0.00	11,389.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,500.00	0.00	0.00	11,489.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,600.00	0.00	0.00	11,589.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,700.00	0.00	0.00	11,689.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,800.00	0.00	0.00	11,789.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
11,900.00	0.00	0.00	11,889.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
12,000.00	0.00	0.00	11,989.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
12,100.00	0.00	0.00	12,089.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
12,200.00	0.00	0.00	12,189.21	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
12,284.40	0.00	0.00	12,273.62	-20.00	-281.65	399,160.00	749,248.15	32.095°N	103.528°W
Start Build 12.00									
12,300.00	1.87	359.56	12,289.21	-19.75	-281.65	399,160.25	749,248.15	32.095°N	103.528°W
12,400.00	13.87	359.56	12,388.09	-6.07	-281.76	399,173.92	749,248.04	32.095°N	103.528°W
12,500.00	25.87	359.56	12,481.96	27.85	-282.02	399,207.85	749,247.78	32.095°N	103.528°W
12,600.00	37.87	359.56	12,566.73	80.56	-282.42	399,260.56	749,247.37	32.095°N	103.528°W
12,700.00	49.87	359.56	12,638.69	149.73	-282.96	399,329.73	749,246.84	32.095°N	103.528°W
12,800.00	61.87	359.56	12,694.69	232.36	-283.59	399,412.36	749,246.21	32.096°N	103.528°W
12,900.00	73.87	359.56	12,732.29	324.82	-284.30	399,504.82	749,245.49	32.096°N	103.528°W
13,000.00	85.87	359.56	12,749.84	423.08	-285.06	399,603.08	749,244.74	32.096°N	103.528°W
13,036.61	90.27	359.56	12,751.08	459.66	-285.34	399,639.66	749,244.46	32.096°N	103.528°W
Start 4337.12 hold at 13036.61 MD									
13,051.32	90.27	359.56	12,751.01	474.37	-285.45	399,654.36	749,244.34	32.096°N	103.528°W
710H EOC									
13,100.00	90.27	359.56	12,750.78	523.05	-285.83	399,703.05	749,243.97	32.096°N	103.528°W
13,200.00	90.27	359.56	12,750.32	623.04	-286.60	399,803.04	749,243.20	32.097°N	103.528°W
13,300.00	90.27	359.56	12,749.86	723.04	-287.37	399,903.04	749,242.43	32.097°N	103.528°W
13,400.00	90.27	359.56	12,749.39	823.04	-288.13	400,003.03	749,241.66	32.097°N	103.528°W
13,500.00	90.27	359.56	12,748.93	923.03	-288.90	400,103.03	749,240.89	32.097°N	103.528°W
13,600.00	90.27	359.56	12,748.47	1,023.03	-289.67	400,203.02	749,240.12	32.098°N	103.528°W
13,700.00	90.27	359.56	12,748.00	1,123.02	-290.44	400,303.02	749,239.35	32.098°N	103.528°W
13,800.00	90.27	359.56	12,747.54	1,223.02	-291.21	400,403.02	749,238.59	32.098°N	103.528°W
13,900.00	90.27	359.56	12,747.08	1,323.02	-291.98	400,503.01	749,237.82	32.099°N	103.528°W
14,000.00	90.27	359.56	12,746.62	1,423.01	-292.75	400,603.01	749,237.05	32.099°N	103.528°W
14,100.00	90.27	359.56	12,746.15	1,523.01	-293.52	400,703.00	749,236.28	32.099°N	103.528°W
14,200.00	90.27	359.56	12,745.69	1,623.00	-294.29	400,803.00	749,235.51	32.099°N	103.528°W
14,300.00	90.27	359.56	12,745.23	1,723.00	-295.06	400,902.99	749,234.74	32.100°N	103.528°W
14,400.00	90.27	359.56	12,744.76	1,823.00	-295.83	401,002.99	749,233.97	32.100°N	103.528°W
14,500.00	90.27	359.56	12,744.30	1,922.99	-296.60	401,102.99	749,233.20	32.100°N	103.528°W



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,600.00	90.27	359.56	12,743.84	2,022.99	-297.37	401,202.98	749,232.43	32.100°N	103.528°W
14,700.00	90.27	359.56	12,743.38	2,122.98	-298.13	401,302.98	749,231.66	32.101°N	103.528°W
14,800.00	90.27	359.56	12,742.91	2,222.98	-298.90	401,402.97	749,230.89	32.101°N	103.528°W
14,900.00	90.27	359.56	12,742.45	2,322.98	-299.67	401,502.97	749,230.12	32.101°N	103.528°W
15,000.00	90.27	359.56	12,741.99	2,422.97	-300.44	401,602.97	749,229.36	32.102°N	103.528°W
15,100.00	90.27	359.56	12,741.52	2,522.97	-301.21	401,702.96	749,228.59	32.102°N	103.528°W
15,200.00	90.27	359.56	12,741.06	2,622.96	-301.98	401,802.96	749,227.82	32.102°N	103.528°W
15,300.00	90.27	359.56	12,740.60	2,722.96	-302.75	401,902.95	749,227.05	32.102°N	103.528°W
15,400.00	90.27	359.56	12,740.14	2,822.96	-303.52	402,002.95	749,226.28	32.103°N	103.528°W
15,500.00	90.27	359.56	12,739.67	2,922.95	-304.29	402,102.94	749,225.51	32.103°N	103.528°W
15,600.00	90.27	359.56	12,739.21	3,022.95	-305.06	402,202.94	749,224.74	32.103°N	103.528°W
15,700.00	90.27	359.56	12,738.75	3,122.94	-305.83	402,302.94	749,223.97	32.103°N	103.528°W
15,800.00	90.27	359.56	12,738.28	3,222.94	-306.60	402,402.93	749,223.20	32.104°N	103.528°W
15,900.00	90.27	359.56	12,737.82	3,322.93	-307.36	402,502.93	749,222.43	32.104°N	103.528°W
16,000.00	90.27	359.56	12,737.36	3,422.93	-308.13	402,602.92	749,221.66	32.104°N	103.528°W
16,100.00	90.27	359.56	12,736.90	3,522.93	-308.90	402,702.92	749,220.89	32.105°N	103.528°W
16,200.00	90.27	359.56	12,736.43	3,622.92	-309.67	402,802.91	749,220.13	32.105°N	103.528°W
16,300.00	90.27	359.56	12,735.97	3,722.92	-310.44	402,902.91	749,219.36	32.105°N	103.528°W
16,400.00	90.27	359.56	12,735.51	3,822.91	-311.21	403,002.91	749,218.59	32.105°N	103.528°W
16,500.00	90.27	359.56	12,735.04	3,922.91	-311.98	403,102.90	749,217.82	32.106°N	103.528°W
16,600.00	90.27	359.56	12,734.58	4,022.91	-312.75	403,202.90	749,217.05	32.106°N	103.528°W
16,700.00	90.27	359.56	12,734.12	4,122.90	-313.52	403,302.89	749,216.28	32.106°N	103.528°W
16,800.00	90.27	359.56	12,733.66	4,222.90	-314.29	403,402.89	749,215.51	32.107°N	103.528°W
16,900.00	90.27	359.56	12,733.19	4,322.89	-315.06	403,502.88	749,214.74	32.107°N	103.528°W
17,000.00	90.27	359.56	12,732.73	4,422.89	-315.83	403,602.88	749,213.97	32.107°N	103.528°W
17,100.00	90.27	359.56	12,732.27	4,522.89	-316.60	403,702.88	749,213.20	32.107°N	103.528°W
17,200.00	90.27	359.56	12,731.80	4,622.88	-317.36	403,802.87	749,212.43	32.108°N	103.528°W
17,300.00	90.27	359.56	12,731.34	4,722.88	-318.13	403,902.87	749,211.66	32.108°N	103.528°W
17,373.73	90.27	359.56	12,731.00	4,796.61	-318.70	403,976.60	749,211.10	32.108°N	103.528°W

TD at 17373.73 - 710H EOL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
710H FTP	0.00	0.00	6,500.00	47.77	-282.39	399,227.77	749,247.40	32.095°N	103.528°W
- hit/miss target									
- Shape									
- plan misses target center by 67.77ft at 6510.79ft MD (6500.00 TVD, -20.00 N, -281.65 E)									
- Point									
710H EOL	0.00	0.00	12,731.00	4,796.61	-318.70	403,976.60	749,211.10	32.108°N	103.528°W
- plan hits target center									
- Point									
710H EOC	0.00	0.00	12,751.01	474.36	-286.02	399,654.36	749,243.78	32.096°N	103.528°W
- plan misses target center by 0.57ft at 13051.32ft MD (12751.01 TVD, 474.37 N, -285.45 E)									
- Point									



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dominator 25 Well 710H
Company:	Concho Operating	TVD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Project:	Lea County, NM (Nad 27)	MD Reference:	3335.6' + 29' RKB @ 3364.60ft (Noram 23)
Site:	Dominator 25 Federal Com	North Reference:	Grid
Well:	Dominator 25 Well 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,612.13	2,612.13	0.00	0.00	Start Build 1.50
2,912.13	2,911.82	-0.83	-11.75	Start 3298.65 hold at 2912.13 MD
6,210.79	6,200.31	-19.17	-269.90	Start Drop -1.50
6,510.79	6,500.00	-20.00	-281.65	Start 5773.62 hold at 6510.79 MD
12,284.40	12,273.62	-20.00	-281.65	Start Build 12.00
13,036.61	12,751.08	459.66	-285.34	Start 4337.12 hold at 13036.61 MD
17,373.73	12,731.00	4,796.61	-318.70	TD at 17373.73