PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Matador Production Company**
LEASE NO.:	**NMNM-135247**
WELL NAME & NO.:	**Nina Cortell Fed Com 204H**
SURFACE HOLE FOOTAGE:	**0150' FSL & 1446' FEL**
BOTTOM HOLE FOOTAGE	**0240' FNL & 0330' FEL**
LOCATION:	**Section 03, T. 22 S., R 32 E., NMPM**
COUNTY:	**County, New Mexico**

Operator to submit NMOCD Gas Capture form.

Operator to submit sundry to add "COM" to the name.

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.

A. DRILLING OPERATIONS 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)

☐ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 3933612

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.

2. 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. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.**

3. 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 is located, this does not include the dog house or stairway area.

4. **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.**

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash
Possibility of water flows in the Salado and Castile.
Possibility of lost circulation in the Rustler, Red Beds, and Delaware.
Abnormal pressures maybe encountered when penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

1. The **13-3/8** inch surface casing shall be set at approximately **1200** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**

    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 is to include the lead cement slurry.**

    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 shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

☐ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **7** inch production casing is:

☐ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the **4-1/2** inch production Liner is:

☐ Cement as proposed by operator. Operator shall provide method of verification.

5. 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.

C. 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 53.

2. Variance approved to use flex line from BOP to choke manifold. 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.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** intermediate casing shoe shall be psi. **5M 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.**

5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7** production casing shoe shall be psi. **10M 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.**

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

If mutlibowl option is utilized:

6. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.**
    a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
    b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
    c. **Manufacturer representative shall install the test plug for the initial BOP test.**
    d. **Operator shall perform the 9-5/8" and 7" casing integrity tests 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.**

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

10M 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.

7. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.

    a. 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.

    b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

    c. 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.

    d. The results of the test shall be reported to the appropriate BLM office.

e. 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.**

f. 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.

g. 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

JAM 060518

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM135247
WELL NAME & NO.:	Nina Cortell Fed 204H
SURFACE HOLE FOOTAGE:	150'/S & 1446'/E
BOTTOM HOLE FOOTAGE	240'/N & 330'/E
LOCATION:	Section 3, T.22 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

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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.

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.

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.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Watershed/Water Quality:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.

- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:
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. 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.

Construction of the new access road through the existing fence which separates the proposed Nina Cortell Fed Com Slot 1 and Slot 2 well pads on New Mexico State Trust lands from the proposed Nina Cortell Fed Com Slot 3 and Slot 4 well pads on Federal lands (Exhibits 24 and 25) would require that a new fence and a cattle guard be installed.

Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the private surface landowner and grazing allotment holders prior to crossing any fences.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction, throughout the life of the project, and caused by its operation, must be immediately corrected by the Applicant. The Applicant must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

Prior to construction of the Nina Cortell Slot 3 and Slot 4 well pads, a straw wattle and earthen berm would be placed along the southern edges of the well pads (Exhibits 12 and 22 – Slot 3 well pad, Exhibits 15 and 23 – Slot 4 well pad) to avoid impacts to the un-named drainage feature located approximately 400-feet south of the two well pads. These measures would also be maintained during interim reclamation earthwork.

Production facilities on the four well pads would be bermed to prevent oil, salt, and other chemical contaminants from leaving the pads. Topsoil shall not be used to construct the berms. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pads. The berms around the production facilities shall be maintained through the life of the wells and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

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Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

All spills or leaks shall be reported to the BLM immediately for their immediate and proper treatment. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.

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

Exclosure Fencing
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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.

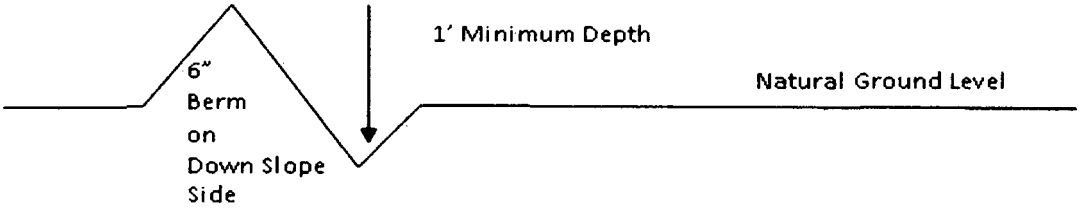
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ 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

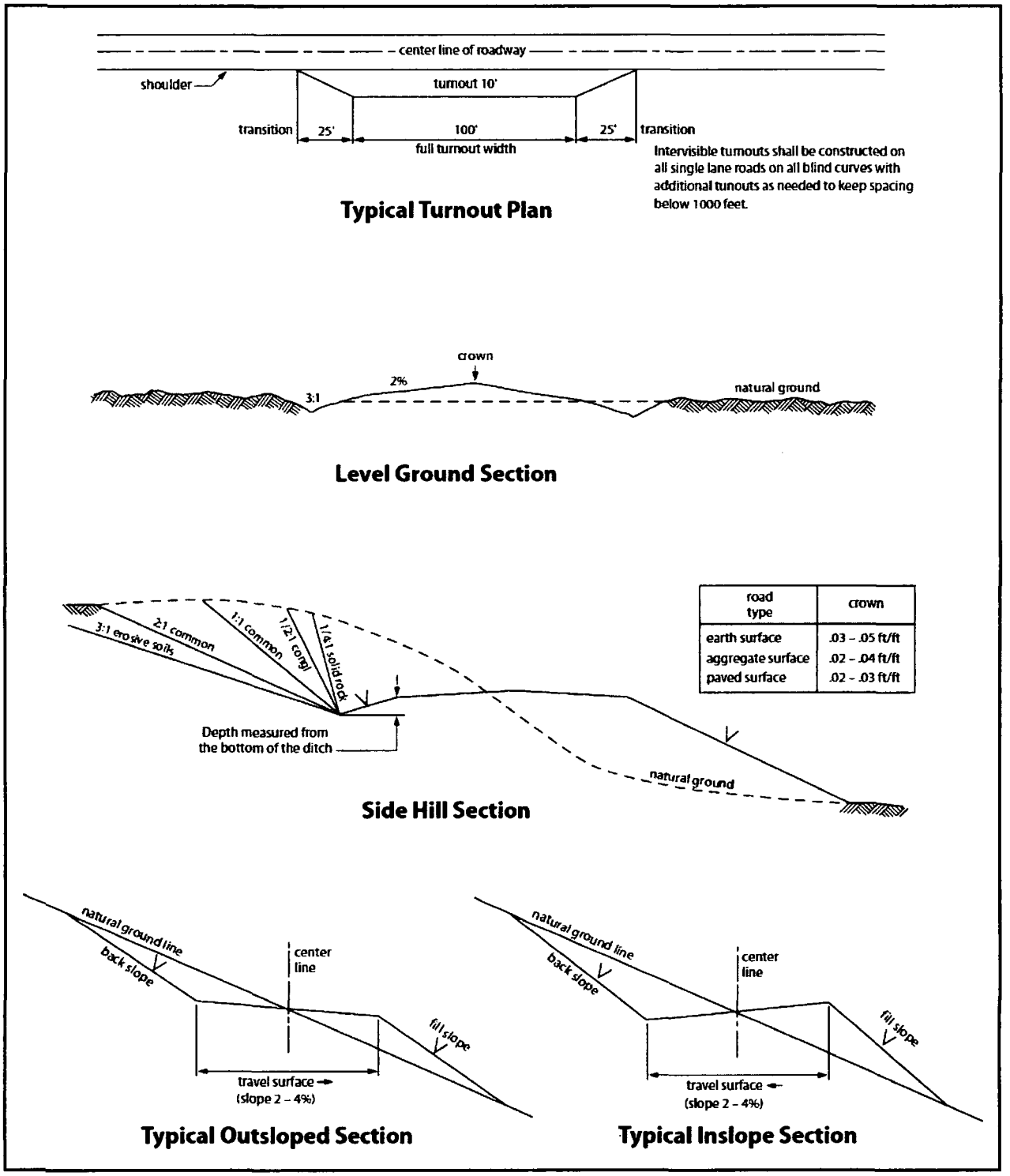


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

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).

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.

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).

VRM Facility Requirement
Low-profile tanks not greater than eight-feet-high shall be used.

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.

Seed Mixture 2, for Sandy Sites

The 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 will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will 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). The 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. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will 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:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

Approval Date: 06/06/2018

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

06/15/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Brian Wood **Signed on:** 12/19/2017

Title: President

Street Address: 37 Verano Loop

City: Santa Fe **State:** NM **Zip:** 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

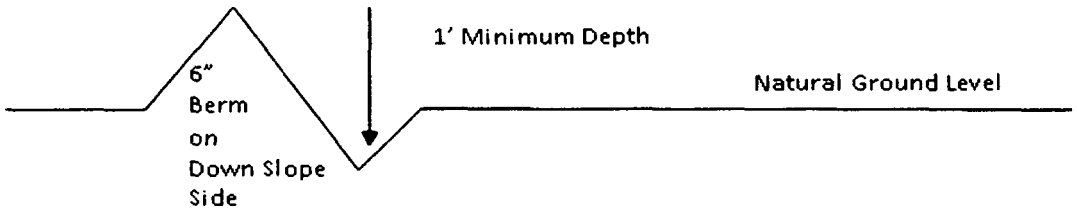
Phone:

Email address:

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ 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

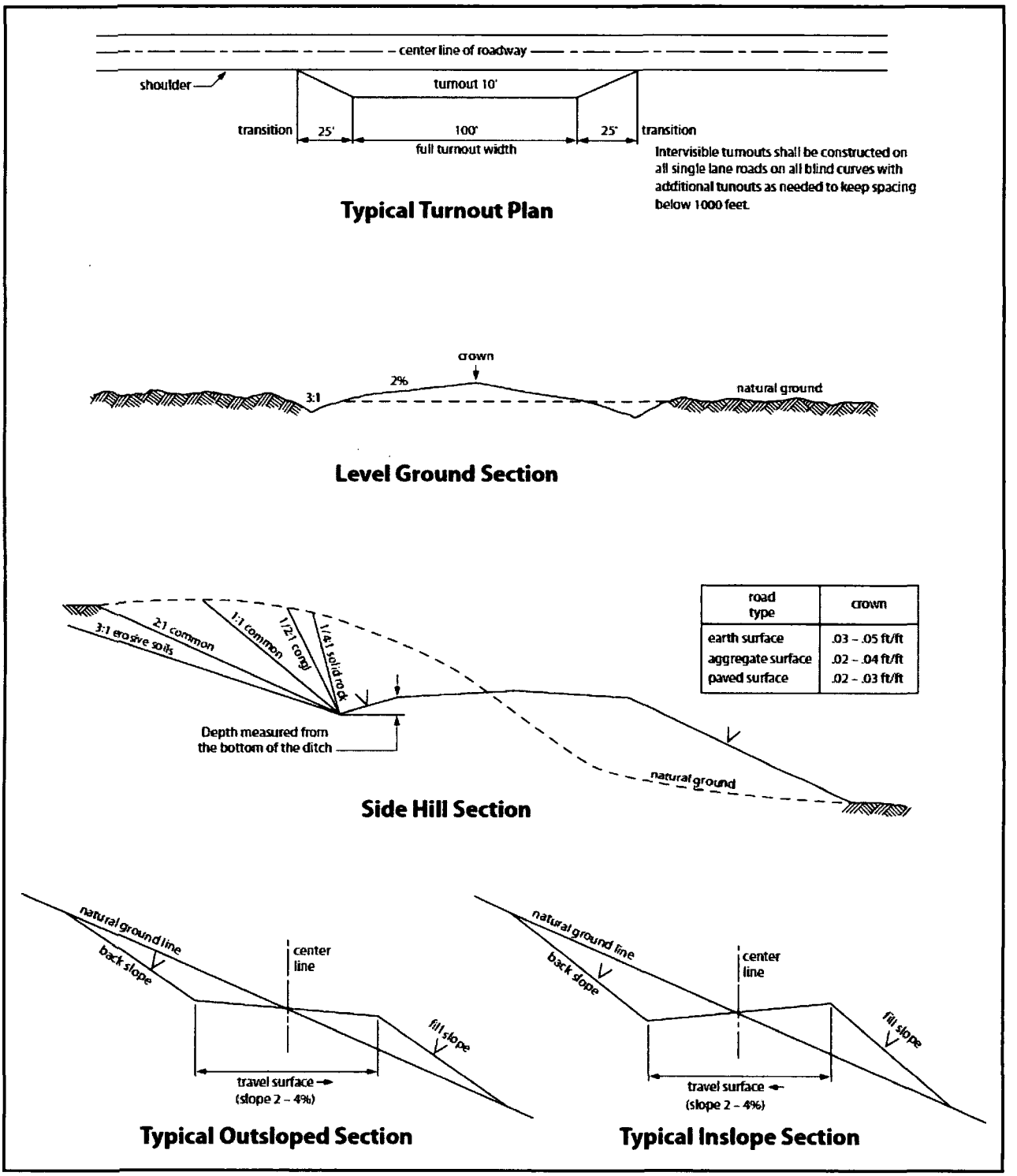


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

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*Pounds of pure live seed:

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

Approval Date: 06/06/2018

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM135247
WELL NAME & NO.:	Nina Cortell Fed 204H
SURFACE HOLE FOOTAGE:	150'/S & 1446'/E
BOTTOM HOLE FOOTAGE	240'/N & 330'/E
LOCATION:	Section 3, T.22 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

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.

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.

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.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Watershed/Water Quality:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.

- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:
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. 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.

Construction of the new access road through the existing fence which separates the proposed Nina Cortell Fed Com Slot 1 and Slot 2 well pads on New Mexico State Trust lands from the proposed Nina Cortell Fed Com Slot 3 and Slot 4 well pads on Federal lands (Exhibits 24 and 25) would require that a new fence and a cattle guard be installed.

Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the private surface landowner and grazing allotment holders prior to crossing any fences.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction, throughout the life of the project, and caused by its operation, must be immediately corrected by the Applicant. The Applicant must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

Prior to construction of the Nina Cortell Slot 3 and Slot 4 well pads, a straw wattle and earthen berm would be placed along the southern edges of the well pads (Exhibits 12 and 22 – Slot 3 well pad, Exhibits 15 and 23 – Slot 4 well pad) to avoid impacts to the un-named drainage feature located approximately 400-feet south of the two well pads. These measures would also be maintained during interim reclamation earthwork.

Production facilities on the four well pads would be bermed to prevent oil, salt, and other chemical contaminants from leaving the pads. Topsoil shall not be used to construct the berms. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pads. The berms around the production facilities shall be maintained through the life of the wells and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

Prior to construction of the Nina Cortell Slot 3 and Slot 4 well pads, a straw wattle and earthen berm would be placed along the southern edges of the well pads (Exhibits 12 and 22 – Slot 3 well pad, Exhibits 15 and 23 – Slot 4 well pad) to avoid impacts to the un-named drainage feature located approximately 400-feet south of the two well pads. These measures would also be maintained during interim reclamation earthwork.

Production facilities on the four well pads would be bermed to prevent oil, salt, and other chemical contaminants from leaving the pads. Topsoil shall not be used to construct the berms. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pads. The berms around the production facilities shall be maintained through the life of the wells and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

All spills or leaks shall be reported to the BLM immediately for their immediate and proper treatment. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.

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)

Hydrogen Sulfide Drilling

Operations Plan

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors will be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area will be high enough to be visible.
- Windsock on the rig floor and / top of doghouse will be high enough to be visible.

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
    - Green Flag – Normal Safe Operation Condition
    - Yellow Flag – Potential Pressure and Danger
    - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See attachments

6 Communication:

- While working under masks, chalkboards will be used for communications.
- Hand signals will be used where chalkboard is inappropriate.
- Two-way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at drilling foreman's trailer or living quarters.

- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

7 Drilling Stem Testing:

- No DSTs or cores are planned at this time.

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment.

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

11 Emergency Contacts

- See following page

H2S Contingency Plan Emergency Contacts
Nina Cortell wells
Matador Production Company
Sec. 3, T22S, R32E Lea County, NM

Company Office			
Matador Production Company	(972)-371-5200		
Key Personnel			
Name	**Title**	**Office**	**Mobile**
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Adam Lange	Drilling Engineer	972-371-5427	626-318-5808
Lea County			
Ambulance		911	
Nor Lea General Hospital (Hobbs)		575-397-0560	
State Police (Hobbs)		575-392-5580	
City Police (Hobbs)		575-397-9625	
Sheriff's Office (Lovington)		575-396-3611	
Fire Marshall (Lovington)		575-391-2983	
Volunteer Fire Dept. (Eunice)		575-394-3258	
Emergency Management (Lovington)		575-391-2983	
New Mexico Oil Conservation Division (Hobbs)		575-393-6161	575-390-3186
BLM (Hobbs)		575-393-3612	
Hobbs Animal Clinic		575-392-5563	
Dal Paso Animal Hospital (Hobbs)		575-397-2286	
Mountain States Equine (Hobbs)		575-392-7488	
Carlsbad			
BLM		575-234-5972	
Santa Fe			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
National			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd SE, D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop SE; Albuquerque, NM		505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	
NM Dept. of Transportation (Roswell)		575-637-7200	

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Project	Lea County, NM		
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	Nina Cortell Fed Com				
Site Position:		**Northing:**	514,876.00 usft	**Latitude:**	32.413755°N
From:	Map	**Easting:**	705,087.00 usft	**Longitude:**	103.668756°W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.36 °

Well	No. 204H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	514,910.00 usft	**Latitude:**	32.413793°N
	+E/-W	0.00 usft	**Easting:**	708,341.00 usft	**Longitude:**	103.658212°W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,789.00 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	7/31/2017	6.93	60.30	48,279.80

Design	Prelim Plan B				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	359.46	

Survey Tool Program **Date** 8/11/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,200.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
1,200.00	5,000.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
5,000.00	12,380.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
12,380.00	16,949.11	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	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

Matador Resources
Lea County, NM
Nina Cortell Fed Com
No. 204H
Prelim Plan B

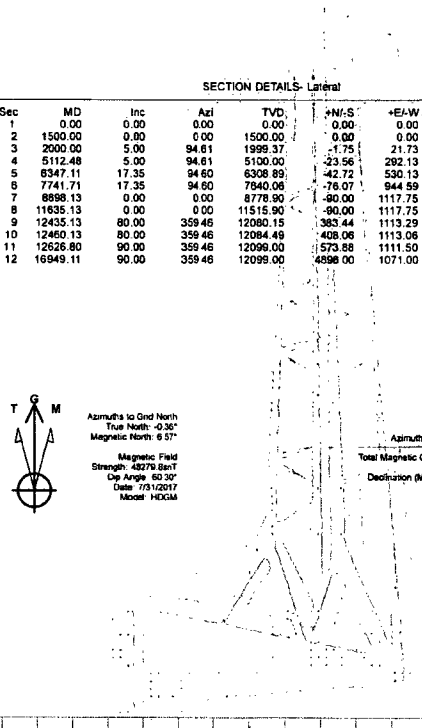
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3818.00usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	514910.00	706341.00	32.413793°N	103.658211°W	

SECTION DETAILS- Lateral

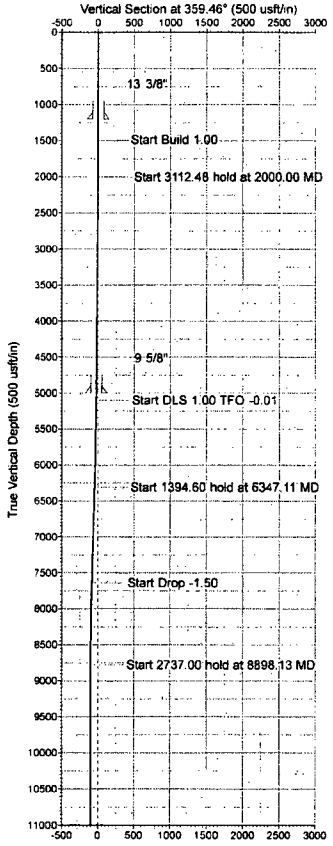
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00
3	2000.00	5.00	94.61	1999.37	-1.75	21.73	1.00	-1.96
4	5112.48	5.00	94.61	5100.00	-23.56	292.13	0.00	-26.31
5	6347.11	17.35	94.60	6308.89	-42.72	530.13	1.00	-47.71
6	7741.71	17.35	94.60	7840.06	-76.07	944.59	0.00	-84.97
7	8898.13	0.00	0.00	8778.90	-90.00	1117.75	1.50	-100.53
8	11635.13	0.00	0.00	11515.90	-90.00	1117.75	0.00	-100.53
9	12435.13	80.00	359.46	12080.15	383.44	1113.29	10.00	372.93
10	12460.13	80.00	359.46	12084.49	408.06	1113.06	0.00	397.55
11	12626.80	90.00	359.46	12099.00	573.88	1111.50	6.00	563.38
12	16949.11	90.00	359.46	12099.00	4896.00	1071.00	0.00	4885.69

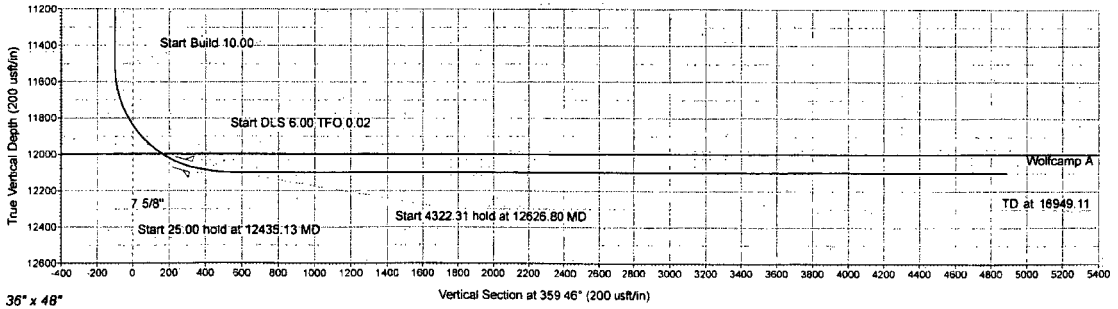


Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.57°

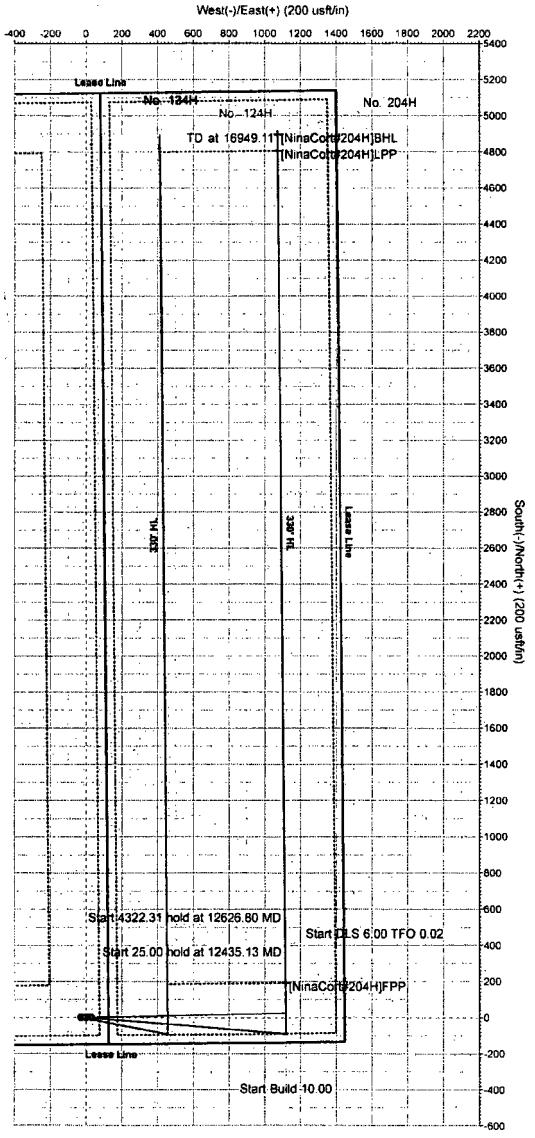
Magnetic Field
Strength: 48279.8nT
Dip Angle: 60.30°
Date: 7/31/2017
Model: HDGM

Azimuth Corrections
Total Magnetic Corr. (M to G): 6.57°
Declination (M to T): 6.93° East





36" x 48"



Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
13 3/8"									
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	1.00	94.61	1,599.99	-0.07	0.87	-0.08	1.00	1.00	0.00
1,700.00	2.00	94.61	1,699.96	-0.28	3.48	-0.31	1.00	1.00	0.00
1,800.00	3.00	94.61	1,799.86	-0.63	7.83	-0.70	1.00	1.00	0.00
1,900.00	4.00	94.61	1,899.68	-1.12	13.91	-1.25	1.00	1.00	0.00
2,000.00	5.00	94.61	1,999.37	-1.75	21.73	-1.96	1.00	1.00	0.00
2,100.00	5.00	94.61	2,098.99	-2.45	30.42	-2.74	0.00	0.00	0.00
2,200.00	5.00	94.61	2,198.60	-3.15	39.11	-3.52	0.00	0.00	0.00
2,300.00	5.00	94.61	2,298.22	-3.85	47.79	-4.30	0.00	0.00	0.00
2,400.00	5.00	94.61	2,397.84	-4.55	56.48	-5.09	0.00	0.00	0.00
2,500.00	5.00	94.61	2,497.46	-5.25	65.17	-5.87	0.00	0.00	0.00
2,600.00	5.00	94.61	2,597.08	-5.96	73.86	-6.65	0.00	0.00	0.00
2,700.00	5.00	94.61	2,696.70	-6.66	82.54	-7.43	0.00	0.00	0.00
2,800.00	5.00	94.61	2,796.32	-7.36	91.23	-8.22	0.00	0.00	0.00
2,900.00	5.00	94.61	2,895.94	-8.06	99.92	-9.00	0.00	0.00	0.00
3,000.00	5.00	94.61	2,995.56	-8.76	108.61	-9.78	0.00	0.00	0.00
3,100.00	5.00	94.61	3,095.18	-9.46	117.29	-10.56	0.00	0.00	0.00
3,200.00	5.00	94.61	3,194.80	-10.16	125.98	-11.35	0.00	0.00	0.00
3,300.00	5.00	94.61	3,294.42	-10.86	134.67	-12.13	0.00	0.00	0.00
3,400.00	5.00	94.61	3,394.04	-11.56	143.36	-12.91	0.00	0.00	0.00
3,500.00	5.00	94.61	3,493.66	-12.26	152.04	-13.69	0.00	0.00	0.00
3,600.00	5.00	94.61	3,593.28	-12.96	160.73	-14.47	0.00	0.00	0.00
3,700.00	5.00	94.61	3,692.90	-13.66	169.42	-15.26	0.00	0.00	0.00
3,800.00	5.00	94.61	3,792.52	-14.36	178.11	-16.04	0.00	0.00	0.00
3,900.00	5.00	94.61	3,892.14	-15.06	186.79	-16.82	0.00	0.00	0.00
4,000.00	5.00	94.61	3,991.76	-15.76	195.48	-17.60	0.00	0.00	0.00
4,100.00	5.00	94.61	4,091.37	-16.46	204.17	-18.39	0.00	0.00	0.00
4,200.00	5.00	94.61	4,190.99	-17.16	212.85	-19.17	0.00	0.00	0.00
4,300.00	5.00	94.61	4,290.61	-17.86	221.54	-19.95	0.00	0.00	0.00
4,400.00	5.00	94.61	4,390.23	-18.56	230.23	-20.73	0.00	0.00	0.00
4,500.00	5.00	94.61	4,489.85	-19.26	238.92	-21.52	0.00	0.00	0.00
4,600.00	5.00	94.61	4,589.47	-19.97	247.60	-22.30	0.00	0.00	0.00
4,700.00	5.00	94.61	4,689.09	-20.67	256.29	-23.08	0.00	0.00	0.00
4,800.00	5.00	94.61	4,788.71	-21.37	264.98	-23.86	0.00	0.00	0.00
4,900.00	5.00	94.61	4,888.33	-22.07	273.67	-24.64	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	5.00	94.61	4,987.95	-22.77	282.35	-25.43	0.00	0.00	0.00
5,012.10	5.00	94.61	5,000.00	-22.85	283.40	-25.52	0.00	0.00	0.00
9 5/8"									
5,100.00	5.00	94.61	5,087.57	-23.47	291.04	-26.21	0.00	0.00	0.00
5,112.48	5.00	94.61	5,100.00	-23.56	292.13	-26.31	0.00	0.00	0.00
5,200.00	5.88	94.61	5,187.13	-24.22	300.39	-27.05	1.00	1.00	0.00
5,300.00	6.88	94.61	5,286.51	-25.11	311.46	-28.05	1.00	1.00	0.00
5,400.00	7.88	94.61	5,385.68	-26.14	324.25	-29.20	1.00	1.00	0.00
5,500.00	8.88	94.60	5,484.61	-27.31	338.77	-30.51	1.00	1.00	0.00
5,600.00	9.88	94.60	5,583.27	-28.62	355.01	-31.97	1.00	1.00	0.00
5,700.00	10.88	94.60	5,681.64	-30.07	372.96	-33.58	1.00	1.00	0.00
5,800.00	11.88	94.60	5,779.67	-31.65	392.62	-35.35	1.00	1.00	0.00
5,900.00	12.88	94.60	5,877.35	-33.37	413.98	-37.27	1.00	1.00	0.00
6,000.00	13.88	94.60	5,974.63	-35.22	437.04	-39.34	1.00	1.00	0.00
6,100.00	14.88	94.60	6,071.50	-37.22	461.79	-41.57	1.00	1.00	0.00
6,200.00	15.88	94.60	6,167.92	-39.34	488.22	-43.94	1.00	1.00	0.00
6,300.00	16.88	94.60	6,263.86	-41.60	516.32	-46.47	1.00	1.00	0.00
6,347.11	17.35	94.60	6,308.89	-42.72	530.13	-47.71	1.00	1.00	0.00
6,400.00	17.35	94.60	6,359.37	-43.98	545.85	-49.12	0.00	0.00	0.00
6,500.00	17.35	94.60	6,454.83	-46.37	575.57	-51.79	0.00	0.00	0.00
6,600.00	17.35	94.60	6,550.28	-48.76	605.29	-54.47	0.00	0.00	0.00
6,700.00	17.35	94.60	6,645.73	-51.15	635.01	-57.14	0.00	0.00	0.00
6,800.00	17.35	94.60	6,741.18	-53.55	664.73	-59.81	0.00	0.00	0.00
6,900.00	17.35	94.60	6,836.63	-55.94	694.44	-62.48	0.00	0.00	0.00
7,000.00	17.35	94.60	6,932.09	-58.33	724.16	-65.15	0.00	0.00	0.00
7,100.00	17.35	94.60	7,027.54	-60.72	753.88	-67.82	0.00	0.00	0.00
7,200.00	17.35	94.60	7,122.99	-63.11	783.60	-70.49	0.00	0.00	0.00
7,300.00	17.35	94.60	7,218.44	-65.50	813.32	-73.17	0.00	0.00	0.00
7,400.00	17.35	94.60	7,313.89	-67.89	843.04	-75.84	0.00	0.00	0.00
7,500.00	17.35	94.60	7,409.35	-70.29	872.76	-78.51	0.00	0.00	0.00
7,600.00	17.35	94.60	7,504.80	-72.68	902.47	-81.18	0.00	0.00	0.00
7,700.00	17.35	94.60	7,600.25	-75.07	932.19	-83.85	0.00	0.00	0.00
7,741.71	17.35	94.60	7,640.06	-76.07	944.59	-84.97	0.00	0.00	0.00
7,800.00	16.47	94.60	7,695.83	-77.43	961.49	-86.48	1.50	-1.50	0.00
7,900.00	14.97	94.60	7,792.09	-79.60	988.50	-88.91	1.50	-1.50	0.00
8,000.00	13.47	94.60	7,889.02	-81.57	1,012.98	-91.11	1.50	-1.50	0.00
8,100.00	11.97	94.60	7,986.56	-83.34	1,034.94	-93.09	1.50	-1.50	0.00
8,200.00	10.47	94.60	8,084.65	-84.90	1,054.33	-94.83	1.50	-1.50	0.00
8,300.00	8.97	94.60	8,183.21	-86.25	1,071.17	-96.34	1.50	-1.50	0.00
8,400.00	7.47	94.60	8,282.18	-87.40	1,085.42	-97.62	1.50	-1.50	0.00
8,500.00	5.97	94.60	8,381.49	-88.34	1,097.09	-98.67	1.50	-1.50	0.00
8,600.00	4.47	94.60	8,481.07	-89.07	1,106.16	-99.49	1.50	-1.50	0.00
8,700.00	2.97	94.60	8,580.86	-89.59	1,112.63	-100.07	1.50	-1.50	0.00
8,800.00	1.47	94.60	8,680.78	-89.90	1,116.49	-100.42	1.50	-1.50	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,898.13	0.00	0.00	8,778.90	-90.00	1,117.75	-100.53	1.50	-1.50	0.00
8,900.00	0.00	0.00	8,780.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,000.00	0.00	0.00	8,880.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,100.00	0.00	0.00	8,980.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,200.00	0.00	0.00	9,080.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,300.00	0.00	0.00	9,180.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,400.00	0.00	0.00	9,280.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,500.00	0.00	0.00	9,380.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,600.00	0.00	0.00	9,480.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,700.00	0.00	0.00	9,580.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,800.00	0.00	0.00	9,680.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
9,900.00	0.00	0.00	9,780.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,000.00	0.00	0.00	9,880.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,100.00	0.00	0.00	9,980.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,200.00	0.00	0.00	10,080.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,300.00	0.00	0.00	10,180.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,400.00	0.00	0.00	10,280.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,500.00	0.00	0.00	10,380.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,600.00	0.00	0.00	10,480.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,700.00	0.00	0.00	10,580.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,800.00	0.00	0.00	10,680.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
10,900.00	0.00	0.00	10,780.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,000.00	0.00	0.00	10,880.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,100.00	0.00	0.00	10,980.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,200.00	0.00	0.00	11,080.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,300.00	0.00	0.00	11,180.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,400.00	0.00	0.00	11,280.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,500.00	0.00	0.00	11,380.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,600.00	0.00	0.00	11,480.77	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,635.13	0.00	0.00	11,515.90	-90.00	1,117.75	-100.53	0.00	0.00	0.00
11,650.00	1.49	359.46	11,530.77	-89.81	1,117.75	-100.34	10.00	10.00	0.00
11,700.00	6.49	359.46	11,580.63	-86.33	1,117.72	-96.86	10.00	10.00	0.00
11,750.00	11.49	359.46	11,630.00	-78.52	1,117.64	-89.05	10.00	10.00	0.00
11,800.00	16.49	359.46	11,678.50	-66.44	1,117.53	-76.97	10.00	10.00	0.00
11,850.00	21.49	359.46	11,725.77	-50.18	1,117.37	-60.71	10.00	10.00	0.00
11,900.00	26.49	359.46	11,771.43	-29.86	1,117.18	-40.39	10.00	10.00	0.00
11,950.00	31.49	359.46	11,815.16	-5.64	1,116.95	-16.17	10.00	10.00	0.00
12,000.00	36.49	359.46	11,856.60	22.30	1,116.69	11.77	10.00	10.00	0.00
12,050.00	41.49	359.46	11,895.45	53.74	1,116.40	43.22	10.00	10.00	0.00
12,100.00	46.49	359.46	11,931.42	88.46	1,116.07	77.93	10.00	10.00	0.00
12,150.00	51.49	359.46	11,964.22	126.17	1,115.71	115.65	10.00	10.00	0.00
12,200.00	56.49	359.46	11,993.61	166.60	1,115.33	156.08	10.00	10.00	0.00
12,250.00	61.49	359.46	12,019.36	209.44	1,114.93	198.92	10.00	10.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.00	66.49	359.46	12,041.28	254.35	1,114.50	243.84	10.00	10.00	0.00
12,350.00	71.49	359.46	12,059.21	301.01	1,114.06	290.50	10.00	10.00	0.00
12,381.60	74.65	359.46	12,068.41	331.24	1,113.78	320.73	10.00	10.00	0.00
7 5/8"									
12,400.00	76.49	359.46	12,073.00	349.05	1,113.61	338.54	10.00	10.00	0.00
12,435.13	80.00	359.46	12,080.15	383.44	1,113.29	372.93	10.00	10.00	0.00
12,460.13	80.00	359.46	12,084.49	408.06	1,113.06	397.55	0.00	0.00	0.00
12,500.00	82.39	359.46	12,090.60	447.46	1,112.68	436.95	6.00	6.00	0.00
12,550.00	85.39	359.46	12,095.92	497.16	1,112.22	486.66	6.00	6.00	0.00
12,600.00	88.39	359.46	12,098.63	547.08	1,111.75	536.58	6.00	6.00	0.00
12,626.80	90.00	359.46	12,099.00	573.88	1,111.50	563.38	6.00	6.00	0.00
12,700.00	90.00	359.46	12,099.00	647.07	1,110.81	636.58	0.00	0.00	0.00
12,800.00	90.00	359.46	12,099.00	747.07	1,109.87	736.58	0.00	0.00	0.00
12,900.00	90.00	359.46	12,099.00	847.07	1,108.94	836.58	0.00	0.00	0.00
13,000.00	90.00	359.46	12,099.00	947.06	1,108.00	936.58	0.00	0.00	0.00
13,100.00	90.00	359.46	12,099.00	1,047.06	1,107.06	1,036.58	0.00	0.00	0.00
13,200.00	90.00	359.46	12,099.00	1,147.05	1,106.13	1,136.58	0.00	0.00	0.00
13,300.00	90.00	359.46	12,099.00	1,247.05	1,105.19	1,236.58	0.00	0.00	0.00
13,400.00	90.00	359.46	12,099.00	1,347.04	1,104.25	1,336.58	0.00	0.00	0.00
13,500.00	90.00	359.46	12,099.00	1,447.04	1,103.32	1,436.58	0.00	0.00	0.00
13,600.00	90.00	359.46	12,099.00	1,547.03	1,102.38	1,536.58	0.00	0.00	0.00
13,700.00	90.00	359.46	12,099.00	1,647.03	1,101.44	1,636.58	0.00	0.00	0.00
13,800.00	90.00	359.46	12,099.00	1,747.03	1,100.51	1,736.58	0.00	0.00	0.00
13,900.00	90.00	359.46	12,099.00	1,847.02	1,099.57	1,836.58	0.00	0.00	0.00
14,000.00	90.00	359.46	12,099.00	1,947.02	1,098.63	1,936.58	0.00	0.00	0.00
14,100.00	90.00	359.46	12,099.00	2,047.01	1,097.69	2,036.58	0.00	0.00	0.00
14,200.00	90.00	359.46	12,099.00	2,147.01	1,096.76	2,136.58	0.00	0.00	0.00
14,300.00	90.00	359.46	12,099.00	2,247.00	1,095.82	2,236.58	0.00	0.00	0.00
14,400.00	90.00	359.46	12,099.00	2,347.00	1,094.88	2,336.58	0.00	0.00	0.00
14,500.00	90.00	359.46	12,099.00	2,447.00	1,093.95	2,436.58	0.00	0.00	0.00
14,600.00	90.00	359.46	12,099.00	2,546.99	1,093.01	2,536.58	0.00	0.00	0.00
14,700.00	90.00	359.46	12,099.00	2,646.99	1,092.07	2,636.58	0.00	0.00	0.00
14,800.00	90.00	359.46	12,099.00	2,746.98	1,091.14	2,736.58	0.00	0.00	0.00
14,900.00	90.00	359.46	12,099.00	2,846.98	1,090.20	2,836.58	0.00	0.00	0.00
15,000.00	90.00	359.46	12,099.00	2,946.97	1,089.26	2,936.58	0.00	0.00	0.00
15,100.00	90.00	359.46	12,099.00	3,046.97	1,088.33	3,036.58	0.00	0.00	0.00
15,200.00	90.00	359.46	12,099.00	3,146.96	1,087.39	3,136.58	0.00	0.00	0.00
15,300.00	90.00	359.46	12,099.00	3,246.96	1,086.45	3,236.58	0.00	0.00	0.00
15,400.00	90.00	359.46	12,099.00	3,346.96	1,085.51	3,336.58	0.00	0.00	0.00
15,500.00	90.00	359.46	12,099.00	3,446.95	1,084.58	3,436.58	0.00	0.00	0.00
15,600.00	90.00	359.46	12,099.00	3,546.95	1,083.64	3,536.58	0.00	0.00	0.00
15,700.00	90.00	359.46	12,099.00	3,646.94	1,082.70	3,636.58	0.00	0.00	0.00
15,800.00	90.00	359.46	12,099.00	3,746.94	1,081.77	3,736.58	0.00	0.00	0.00
15,900.00	90.00	359.46	12,099.00	3,846.93	1,080.83	3,836.58	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Well:	No. 204H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan B	**Database:**	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,000.00	90.00	359.46	12,099.00	3,946.93	1,079.89	3,936.58	0.00	0.00	0.00
16,100.00	90.00	359.46	12,099.00	4,046.93	1,078.96	4,036.58	0.00	0.00	0.00
16,200.00	90.00	359.46	12,099.00	4,146.92	1,078.02	4,136.58	0.00	0.00	0.00
16,300.00	90.00	359.46	12,099.00	4,246.92	1,077.08	4,236.58	0.00	0.00	0.00
16,400.00	90.00	359.46	12,099.00	4,346.91	1,076.14	4,336.58	0.00	0.00	0.00
16,500.00	90.00	359.46	12,099.00	4,446.91	1,075.21	4,436.58	0.00	0.00	0.00
16,600.00	90.00	359.46	12,099.00	4,546.90	1,074.27	4,536.58	0.00	0.00	0.00
16,700.00	90.00	359.46	12,099.00	4,646.90	1,073.33	4,636.58	0.00	0.00	0.00
16,800.00	90.00	359.46	12,099.00	4,746.89	1,072.40	4,736.58	0.00	0.00	0.00
16,900.00	90.00	359.46	12,099.00	4,846.89	1,071.46	4,836.58	0.00	0.00	0.00
16,949.11	90.00	359.46	12,099.00	4,896.00	1,071.00	4,885.69	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[NinaCort#204H]LPP	0.00	0.00	0.00	4,806.00	1,071.00	519,716.00	709,412.00	32.426984°N	103.654642°W
- plan misses target center by 4923.89usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[NinaCort#204H]FPP	0.00	0.00	11,500.00	192.00	1,115.00	515,102.00	709,456.00	32.414301°N	103.654595°W
- plan misses target center by 282.01usft at 11619.23usft MD (11500.00 TVD, -90.00 N, 1117.75 E)									
- Point									
[NinaCort#204H]BHL	0.00	0.00	12,099.00	4,896.00	1,071.00	519,806.00	709,412.00	32.427232°N	103.654640°W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,200.00	1,200.00	13 3/8"	13-3/8	17-1/2
5,012.10	5,000.00	9 5/8"	9-5/8	12-1/4
12,381.60	12,068.41	7 5/8"	7-5/8	8-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12,208.04	11,998.00	Wolfcamp A		0.00	

Checked By: _____ Approved By: _____ Date: _____

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Reference	Prelim Plan B		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/11/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,200.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
1,200.00	5,000.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
5,000.00	12,380.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM
12,380.00	16,949.11	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Nina Cortell Fed Com						
No. 121H - OH - Prelim Plan B	5,114.14	5,414.06	3,204.27	3,176.06	113.556	CC, ES
No. 121H - OH - Prelim Plan B	16,949.11	15,657.44	4,118.68	3,972.82	28.237	SF
No. 122H - OH - Prelim Plan B	5,112.48	5,301.75	1,888.22	1,860.05	67.023	ES
No. 122H - OH - Prelim Plan B	5,113.86	5,300.36	1,888.22	1,860.05	67.024	CC
No. 122H - OH - Prelim Plan B	16,949.11	15,629.38	2,879.31	2,738.04	20.382	SF
No. 123H - OH - Prelim Plan B	4,836.70	4,905.35	572.81	545.26	20.792	CC
No. 123H - OH - Prelim Plan B	5,112.48	5,181.12	572.82	544.68	20.360	ES
No. 123H - OH - Prelim Plan B	16,949.11	15,604.20	1,764.12	1,638.67	14.062	SF
No. 124H - OH - Prelim Plan B	1,300.00	1,302.00	30.00	21.49	3.525	CC, ES
No. 124H - OH - Prelim Plan B	5,000.00	5,001.52	56.74	28.35	1.998	SF
No. 131H - OH - Prelim Plan B	1,409.35	1,427.35	3,314.17	3,305.59	385.863	CC
No. 131H - OH - Prelim Plan B	1,500.00	1,511.88	3,314.19	3,305.49	381.102	ES
No. 131H - OH - Prelim Plan B	16,949.11	16,671.35	4,626.58	4,475.52	30.627	SF
No. 132H - OH - Prelim Plan B	1,408.85	1,427.85	1,993.11	1,984.52	232.054	CC
No. 132H - OH - Prelim Plan B	1,500.00	1,514.50	1,993.13	1,984.43	229.134	ES
No. 132H - OH - Prelim Plan B	16,949.11	16,680.10	3,308.69	3,157.72	21.917	SF
No. 133H - OH - Prelim Plan B	1,409.84	1,426.84	672.04	663.45	78.244	CC
No. 133H - OH - Prelim Plan B	1,500.00	1,515.39	672.06	663.36	77.254	ES
No. 133H - OH - Prelim Plan B	16,949.11	16,693.92	1,990.57	1,839.86	13.207	SF
No. 134H - OH - Prelim Plan B	1,500.00	1,501.00	30.00	21.31	3.453	CC, ES
No. 134H - OH - Prelim Plan B	5,000.00	5,004.18	57.87	29.59	2.046	SF
No. 201H - OH - Prelim Plan B	1,989.19	2,285.36	3,254.25	3,243.63	306.387	CC
No. 201H - OH - Prelim Plan B	5,000.00	5,304.04	3,260.08	3,231.89	115.674	ES
No. 201H - OH - Prelim Plan B	16,949.11	16,815.68	3,963.52	3,813.35	26.393	SF
No. 202H - OH - Prelim Plan B	1,988.93	2,173.81	1,937.89	1,927.52	187.018	CC
No. 202H - OH - Prelim Plan B	4,900.00	5,084.67	1,943.77	1,915.81	69.521	ES
No. 202H - OH - Prelim Plan B	16,949.11	16,823.77	2,643.48	2,493.42	17.617	SF
No. 203H - OH - Prelim Plan B	1,988.63	2,058.34	621.86	611.75	61.483	CC
No. 203H - OH - Prelim Plan B	4,900.00	4,969.51	628.48	600.56	22.512	ES
No. 203H - OH - Prelim Plan B	16,949.11	16,843.56	1,322.25	1,172.08	8.805	SF

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 121H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	18.00	18.00	0.00	0.02	-90.60	-34.00	-3,254.00	3,254.18				
100.00	100.00	118.00	118.00	0.13	0.19	-90.60	-34.00	-3,254.00	3,254.18	3,253.86	0.32	N/A	
200.00	200.00	218.00	218.00	0.49	0.55	-90.60	-34.00	-3,254.00	3,254.18	3,253.14	1.04	3,141.149	
300.00	300.00	318.00	318.00	0.84	0.91	-90.60	-34.00	-3,254.00	3,254.18	3,252.42	1.75	1,856.426	
400.00	400.00	418.00	418.00	1.20	1.27	-90.60	-34.00	-3,254.00	3,254.18	3,251.71	2.47	1,317.551	
500.00	500.00	518.00	518.00	1.56	1.63	-90.60	-34.00	-3,254.00	3,254.18	3,250.99	3.19	1,021.139	
600.00	600.00	618.00	618.00	1.92	1.98	-90.60	-34.00	-3,254.00	3,254.18	3,250.27	3.90	833.602	
700.00	700.00	718.00	718.00	2.28	2.34	-90.60	-34.00	-3,254.00	3,254.18	3,249.56	4.62	704.261	
800.00	800.00	818.00	818.00	2.64	2.70	-90.60	-34.00	-3,254.00	3,254.18	3,248.84	5.34	609.666	
900.00	900.00	918.00	918.00	3.00	3.06	-90.60	-34.00	-3,254.00	3,254.18	3,248.12	6.05	537.473	
1,000.00	1,000.00	1,018.00	1,018.00	3.35	3.42	-90.60	-34.00	-3,254.00	3,254.18	3,247.41	6.77	480.568	
1,100.00	1,100.00	1,141.66	1,141.66	3.71	3.86	-90.60	-34.00	-3,253.85	3,254.11	3,246.54	7.57	429.895	
1,200.00	1,200.00	1,372.92	1,372.81	4.07	4.26	-90.60	-33.92	-3,247.50	3,251.37	3,243.04	8.32	390.656	
1,300.00	1,300.00	1,603.28	1,602.64	4.25	4.43	-90.60	-33.73	-3,231.91	3,244.60	3,235.95	8.65	375.072	
1,400.00	1,400.00	1,701.04	1,700.03	4.28	4.55	-90.60	-33.62	-3,223.39	3,235.88	3,227.08	8.80	367.832	
1,500.00	1,500.00	1,800.66	1,799.27	4.34	4.70	-90.60	-33.51	-3,214.71	3,227.17	3,218.17	9.00	358.601	
1,600.00	1,599.99	1,900.35	1,898.58	4.43	4.88	174.80	-33.41	-3,206.02	3,219.32	3,210.07	9.25	348.049	
1,700.00	1,699.96	2,000.16	1,998.01	4.54	5.07	174.81	-33.30	-3,197.32	3,213.20	3,203.66	9.54	336.639	
1,800.00	1,799.86	2,100.07	2,097.53	4.68	5.29	174.82	-33.19	-3,188.62	3,208.82	3,198.94	9.88	324.627	
1,900.00	1,899.68	2,200.03	2,197.11	4.84	5.53	174.84	-33.09	-3,179.91	3,206.18	3,195.91	10.26	312.350	
2,000.00	1,999.37	2,300.02	2,296.72	5.02	5.78	174.85	-32.98	-3,171.19	3,205.27	3,194.59	10.68	300.086	
2,100.00	2,098.99	2,400.02	2,396.34	5.22	6.04	174.86	-32.87	-3,162.48	3,205.24	3,194.11	11.13	287.981	
2,200.00	2,198.60	2,500.01	2,495.96	5.45	6.31	174.88	-32.76	-3,153.76	3,205.20	3,193.60	11.61	276.135	
2,300.00	2,298.22	2,600.01	2,595.57	5.69	6.60	174.89	-32.65	-3,145.05	3,205.17	3,193.06	12.11	264.674	
2,400.00	2,397.84	2,700.01	2,695.19	5.94	6.89	174.91	-32.55	-3,136.33	3,205.14	3,192.50	12.63	253.680	
2,500.00	2,497.46	2,800.00	2,794.80	6.21	7.19	174.92	-32.44	-3,127.62	3,205.10	3,191.92	13.18	243.203	
2,600.00	2,597.08	2,900.00	2,894.42	6.49	7.50	174.94	-32.33	-3,118.91	3,205.07	3,191.33	13.74	233.264	
2,700.00	2,696.70	3,000.00	2,994.04	6.78	7.82	174.95	-32.22	-3,110.19	3,205.03	3,190.72	14.32	223.868	
2,800.00	2,796.32	3,100.01	3,093.65	7.07	8.14	174.96	-32.12	-3,101.48	3,205.00	3,190.09	14.91	215.006	
2,900.00	2,895.94	3,200.01	3,193.27	7.38	8.46	174.98	-32.01	-3,092.76	3,204.97	3,189.46	15.51	206.661	
3,000.00	2,995.56	3,299.99	3,292.89	7.69	8.79	174.99	-31.90	-3,084.05	3,204.93	3,188.81	16.12	198.811	
3,100.00	3,095.18	3,400.02	3,392.50	8.00	9.12	175.01	-31.79	-3,075.33	3,204.90	3,188.16	16.74	191.426	
3,200.00	3,194.80	3,500.02	3,492.12	8.32	9.46	175.02	-31.69	-3,066.62	3,204.87	3,187.49	17.37	184.483	
3,300.00	3,294.42	3,600.02	3,591.73	8.65	9.80	175.04	-31.58	-3,057.90	3,204.83	3,186.82	18.01	177.951	
3,400.00	3,394.04	3,700.02	3,691.35	8.98	10.14	175.05	-31.47	-3,049.19	3,204.80	3,186.15	18.65	171.805	
3,500.00	3,493.66	3,799.97	3,790.97	9.31	10.48	175.07	-31.36	-3,040.47	3,204.77	3,185.46	19.30	166.019	
3,600.00	3,593.28	3,900.03	3,890.58	9.65	10.83	175.08	-31.26	-3,031.76	3,204.74	3,184.78	19.96	160.564	
3,700.00	3,692.90	4,000.03	3,990.20	9.99	11.18	175.09	-31.15	-3,023.04	3,204.70	3,184.08	20.62	155.420	
3,800.00	3,792.52	4,100.04	4,089.81	10.33	11.53	175.11	-31.04	-3,014.33	3,204.67	3,183.39	21.28	150.564	
3,900.00	3,892.14	4,200.04	4,189.43	10.68	11.88	175.12	-30.93	-3,005.61	3,204.64	3,182.69	21.95	145.975	
4,000.00	3,991.76	4,300.04	4,289.05	11.02	12.24	175.14	-30.83	-2,996.90	3,204.61	3,181.98	22.63	141.635	
4,100.00	4,091.37	4,400.05	4,388.66	11.37	12.59	175.15	-30.72	-2,988.19	3,204.58	3,181.28	23.30	137.525	
4,200.00	4,190.99	4,500.05	4,488.28	11.72	12.95	175.17	-30.61	-2,979.47	3,204.55	3,180.57	23.98	133.630	
4,300.00	4,290.61	4,600.05	4,587.90	12.07	13.30	175.18	-30.50	-2,970.76	3,204.52	3,179.85	24.66	129.935	
4,400.00	4,390.23	4,700.06	4,687.51	12.43	13.66	175.20	-30.40	-2,962.04	3,204.49	3,179.14	25.35	126.426	
4,500.00	4,489.85	4,800.06	4,787.13	12.78	14.02	175.21	-30.29	-2,953.33	3,204.46	3,178.42	26.03	123.090	
4,600.00	4,589.47	4,900.06	4,886.74	13.14	14.38	175.22	-30.18	-2,944.61	3,204.43	3,177.70	26.72	119.916	
4,700.00	4,689.09	5,000.07	4,986.36	13.50	14.58	175.24	-30.07	-2,935.90	3,204.40	3,177.16	27.24	117.634	
4,800.00	4,788.71	5,099.93	5,085.98	13.86	14.61	175.25	-29.97	-2,927.18	3,204.37	3,176.77	27.59	116.122	
4,900.00	4,888.33	5,200.07	5,185.59	14.22	14.66	175.27	-29.86	-2,918.47	3,204.34	3,176.38	27.96	114.607	
5,000.00	4,987.95	5,299.92	5,285.21	14.41	14.72	175.28	-29.75	-2,909.75	3,204.31	3,176.15	28.16	113.782	
5,100.00	5,087.57	5,400.08	5,384.83	14.44	14.78	175.30	-29.64	-2,901.04	3,204.28	3,176.07	28.21	113.591	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 121H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,112.48	5,100.00	5,412.40	5,397.26	14.45	14.79	175.30	-29.63	-2,899.95	3,204.27	3,176.06	28.22	113.560	
5,114.14	5,101.66	5,414.06	5,398.91	14.45	14.79	175.30	-29.63	-2,899.81	3,204.27	3,176.06	28.22	113.556	CC, ES
5,200.00	5,187.13	5,500.09	5,484.44	14.49	14.86	175.31	-29.53	-2,892.33	3,204.92	3,176.64	28.27	113.350	
5,300.00	5,286.51	5,600.12	5,584.02	14.55	14.94	175.33	-29.43	-2,883.61	3,207.28	3,178.92	28.36	113.095	
5,400.00	5,385.68	5,700.21	5,683.55	14.63	15.03	175.35	-29.32	-2,874.91	3,211.38	3,182.92	28.46	112.828	
5,500.00	5,484.61	5,780.65	5,764.12	14.72	15.12	175.38	-29.23	-2,867.96	3,217.38	3,188.80	28.57	112.605	
5,600.00	5,583.27	5,844.41	5,827.69	14.83	15.18	175.37	-29.17	-2,863.13	3,226.09	3,197.41	28.68	112.469	
5,700.00	5,681.64	5,900.00	5,883.16	14.96	15.24	175.38	-29.13	-2,859.50	3,237.66	3,208.87	28.80	112.425	
5,800.00	5,779.67	5,971.08	5,954.14	15.11	15.31	175.39	-29.08	-2,855.64	3,252.02	3,223.08	28.94	112.371	
5,900.00	5,877.35	6,033.86	6,016.86	15.28	15.38	175.40	-29.05	-2,852.96	3,269.20	3,240.12	29.08	112.403	
6,000.00	5,974.63	6,100.00	6,082.97	15.47	15.45	175.40	-29.02	-2,850.88	3,289.17	3,259.93	29.24	112.473	
6,100.00	6,071.50	6,157.95	6,140.90	15.68	15.51	175.41	-29.01	-2,849.69	3,311.89	3,282.48	29.41	112.624	
6,200.00	6,167.92	6,219.14	6,202.09	15.91	15.57	175.41	-29.00	-2,849.07	3,337.34	3,307.76	29.58	112.815	
6,300.00	6,263.86	6,301.09	6,281.86	16.17	15.66	175.42	-29.00	-2,849.00	3,365.34	3,335.54	29.80	112.940	
6,347.11	6,308.89	6,343.94	6,326.89	16.30	15.71	175.42	-29.00	-2,849.00	3,379.16	3,349.25	29.91	112.967	
6,400.00	6,359.37	6,405.58	6,377.37	16.45	15.77	175.45	-29.00	-2,849.00	3,394.88	3,364.82	30.06	112.939	
6,500.00	6,454.83	6,489.87	6,472.83	16.75	15.87	175.49	-29.00	-2,849.00	3,424.61	3,394.30	30.31	112.977	
6,600.00	6,550.28	6,585.33	6,568.28	17.05	15.99	175.52	-29.00	-2,849.00	3,454.34	3,423.75	30.59	112.908	
6,700.00	6,645.73	6,680.78	6,663.73	17.38	16.12	175.56	-29.00	-2,849.00	3,484.08	3,453.19	30.89	112.783	
6,800.00	6,741.18	6,776.23	6,759.18	17.71	16.25	175.60	-29.00	-2,849.00	3,513.81	3,482.61	31.20	112.606	
6,900.00	6,836.63	6,871.68	6,854.63	18.06	16.38	175.64	-29.00	-2,849.00	3,543.55	3,512.01	31.53	112.380	
7,000.00	6,932.09	6,967.13	6,950.09	18.42	16.52	175.67	-29.00	-2,849.00	3,573.28	3,541.41	31.87	112.109	
7,100.00	7,027.54	7,062.59	7,045.54	18.78	16.67	175.71	-29.00	-2,849.00	3,603.02	3,570.79	32.23	111.796	
7,200.00	7,122.99	7,158.04	7,140.99	19.16	16.83	175.74	-29.00	-2,849.00	3,632.76	3,600.16	32.60	111.444	
7,300.00	7,218.44	7,253.49	7,236.44	19.55	16.99	175.78	-29.00	-2,849.00	3,662.50	3,629.52	32.98	111.057	
7,400.00	7,313.89	7,348.94	7,331.89	19.94	17.15	175.81	-29.00	-2,849.00	3,692.24	3,658.87	33.37	110.637	
7,500.00	7,409.35	7,444.39	7,427.35	20.35	17.32	175.85	-29.00	-2,849.00	3,721.98	3,688.21	33.78	110.189	
7,600.00	7,504.80	7,539.85	7,522.80	20.76	17.49	175.88	-29.00	-2,849.00	3,751.73	3,717.53	34.20	109.713	
7,700.00	7,600.25	7,635.30	7,618.25	21.18	17.67	175.91	-29.00	-2,849.00	3,781.47	3,746.85	34.62	109.214	
7,741.71	7,640.06	7,675.11	7,658.06	21.35	17.75	175.93	-29.00	-2,849.00	3,793.88	3,759.07	34.81	109.000	
7,800.00	7,695.83	7,730.88	7,713.83	21.60	17.86	175.96	-29.00	-2,849.00	3,810.80	3,775.73	35.06	108.685	
7,900.00	7,792.09	7,827.14	7,810.09	22.00	18.05	176.02	-29.00	-2,849.00	3,837.83	3,802.32	35.51	108.080	
8,000.00	7,889.02	7,924.07	7,907.02	22.39	18.25	176.07	-29.00	-2,849.00	3,862.34	3,826.38	35.96	107.399	
8,100.00	7,986.56	8,021.61	8,004.56	22.76	18.45	176.12	-29.00	-2,849.00	3,884.32	3,847.89	36.42	106.645	
8,200.00	8,084.65	8,119.70	8,102.65	23.10	18.66	176.16	-29.00	-2,849.00	3,903.73	3,866.84	36.89	105.825	
8,300.00	8,183.21	8,218.26	8,201.21	23.43	18.87	176.19	-29.00	-2,849.00	3,920.58	3,883.22	37.36	104.943	
8,400.00	8,282.18	8,317.23	8,300.18	23.73	19.09	176.22	-29.00	-2,849.00	3,934.85	3,897.02	37.83	104.005	
8,500.00	8,381.49	8,416.54	8,399.49	24.02	19.31	176.24	-29.00	-2,849.00	3,946.53	3,908.22	38.31	103.014	
8,600.00	8,481.07	8,516.12	8,499.07	24.28	19.54	176.26	-29.00	-2,849.00	3,955.61	3,916.82	38.79	101.975	
8,700.00	8,580.86	8,615.90	8,598.86	24.53	19.77	176.27	-29.00	-2,849.00	3,962.09	3,922.82	39.27	100.892	
8,800.00	8,680.78	8,715.83	8,698.78	24.75	20.01	176.28	-29.00	-2,849.00	3,965.96	3,926.21	39.75	99.767	
8,898.13	8,778.90	8,813.95	8,796.90	24.95	20.24	-89.12	-29.00	-2,849.00	3,967.22	3,927.00	40.22	98.641	
8,900.00	8,780.77	8,815.82	8,798.77	24.96	20.25	-89.12	-29.00	-2,849.00	3,967.22	3,926.99	40.23	98.620	
9,000.00	8,880.77	8,915.82	8,898.77	25.15	20.49	-89.12	-29.00	-2,849.00	3,967.22	3,926.52	40.70	97.475	
9,100.00	8,980.77	9,015.82	8,998.77	25.34	20.74	-89.12	-29.00	-2,849.00	3,967.22	3,926.04	41.18	96.340	
9,200.00	9,080.77	9,115.82	9,098.77	25.54	20.99	-89.12	-29.00	-2,849.00	3,967.22	3,925.55	41.67	95.216	
9,300.00	9,180.77	9,215.82	9,198.77	25.75	21.24	-89.12	-29.00	-2,849.00	3,967.22	3,925.06	42.16	94.103	
9,400.00	9,280.77	9,315.82	9,298.77	25.95	21.49	-89.12	-29.00	-2,849.00	3,967.22	3,924.56	42.66	93.002	
9,500.00	9,380.77	9,415.82	9,398.77	26.16	21.75	-89.12	-29.00	-2,849.00	3,967.22	3,924.06	43.16	91.914	
9,600.00	9,480.77	9,515.82	9,498.77	26.38	22.02	-89.12	-29.00	-2,849.00	3,967.22	3,923.55	43.67	90.838	
9,700.00	9,580.77	9,615.82	9,598.77	26.59	22.28	-89.12	-29.00	-2,849.00	3,967.22	3,923.03	44.19	89.776	
9,800.00	9,680.77	9,715.82	9,698.77	26.81	22.55	-89.12	-29.00	-2,849.00	3,967.22	3,922.51	44.71	88.727	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 121H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,815.82	9,798.77	27.03	22.82	-89.12	-29.00	-2,849.00	3,967.22	3,921.98	45.24	87.693	
10,000.00	9,880.77	9,915.82	9,898.77	27.26	23.09	-89.12	-29.00	-2,849.00	3,967.22	3,921.45	45.77	86.672	
10,100.00	9,980.77	10,015.82	9,998.77	27.49	23.36	-89.12	-29.00	-2,849.00	3,967.22	3,920.91	46.31	85.666	
10,200.00	10,080.77	10,115.82	10,098.77	27.72	23.64	-89.12	-29.00	-2,849.00	3,967.22	3,920.37	46.85	84.674	
10,300.00	10,180.77	10,215.82	10,198.77	27.95	23.92	-89.12	-29.00	-2,849.00	3,967.22	3,919.82	47.40	83.696	
10,400.00	10,280.77	10,315.82	10,298.77	28.19	24.20	-89.12	-29.00	-2,849.00	3,967.22	3,919.27	47.95	82.734	
10,500.00	10,380.77	10,415.82	10,398.77	28.43	24.48	-89.12	-29.00	-2,849.00	3,967.22	3,918.71	48.51	81.786	
10,600.00	10,480.77	10,504.68	10,487.50	28.67	24.73	-89.07	-25.36	-2,849.03	3,967.32	3,918.30	49.03	80.918	
10,700.00	10,580.77	10,587.29	10,568.63	28.91	24.97	-88.85	-10.19	-2,849.17	3,967.83	3,918.31	49.53	80.115	
10,800.00	10,680.77	10,664.12	10,641.41	29.16	25.17	-88.49	14.24	-2,849.38	3,968.91	3,918.91	50.00	79.375	
10,900.00	10,780.77	10,733.34	10,703.65	29.40	25.35	-88.06	44.42	-2,849.65	3,970.81	3,920.36	50.45	78.705	
11,000.00	10,880.77	10,794.31	10,755.12	29.65	25.50	-87.59	77.05	-2,849.93	3,973.80	3,922.92	50.88	78.107	
11,100.00	10,980.77	10,850.00	10,798.87	29.91	25.64	-87.09	111.48	-2,850.24	3,978.12	3,926.84	51.29	77.568	
11,200.00	11,080.77	10,893.01	10,830.25	30.16	25.74	-86.67	140.88	-2,850.50	3,984.02	3,932.36	51.66	77.127	
11,300.00	11,180.77	10,932.40	10,856.97	30.42	25.83	-86.25	169.80	-2,850.75	3,991.66	3,939.64	52.01	76.742	
11,400.00	11,280.77	10,966.37	10,878.38	30.68	25.92	-85.88	196.17	-2,850.98	4,001.18	3,948.83	52.35	76.426	
11,500.00	11,380.77	11,000.00	10,897.99	30.94	26.00	-85.48	223.48	-2,851.22	4,012.70	3,960.01	52.69	76.154	
11,600.00	11,480.77	11,021.36	10,909.61	31.20	26.06	-85.23	241.41	-2,851.38	4,026.28	3,973.30	52.98	75.990	
11,635.13	11,515.90	11,029.56	10,913.89	31.29	26.08	-85.13	248.40	-2,851.44	4,031.55	3,978.46	53.09	75.939	
11,650.00	11,530.77	11,032.99	10,915.65	31.33	26.09	-84.31	251.34	-2,851.47	4,033.84	3,980.71	53.13	75.920	
11,700.00	11,580.63	11,050.00	10,924.12	31.46	26.14	-83.33	266.09	-2,851.60	4,041.61	3,988.31	53.30	75.828	
11,750.00	11,630.00	11,050.00	10,924.12	31.59	26.14	-82.55	266.09	-2,851.60	4,049.40	3,996.00	53.40	75.835	
11,800.00	11,678.50	11,071.36	10,934.13	31.71	26.20	-81.55	284.96	-2,851.76	4,057.09	4,003.51	53.58	75.726	
11,850.00	11,725.77	11,085.41	10,940.32	31.83	26.24	-80.65	297.57	-2,851.87	4,064.65	4,010.93	53.72	75.661	
11,900.00	11,771.43	11,100.00	10,946.43	31.94	26.28	-79.79	310.82	-2,851.99	4,071.99	4,018.12	53.87	75.596	
11,950.00	11,815.18	11,114.95	10,952.33	32.05	26.33	-78.96	324.55	-2,852.11	4,079.02	4,025.01	54.01	75.525	
12,000.00	11,856.60	11,130.31	10,958.02	32.14	26.38	-78.18	338.62	-2,852.24	4,085.67	4,031.52	54.15	75.449	
12,050.00	11,895.45	11,150.00	10,964.75	32.23	26.44	-77.44	357.32	-2,852.40	4,091.89	4,037.58	54.31	75.344	
12,100.00	11,931.42	11,150.00	10,964.75	32.31	26.44	-76.87	357.32	-2,852.40	4,097.63	4,043.25	54.39	75.345	
12,150.00	11,964.22	11,178.19	10,973.28	32.38	26.54	-76.21	384.19	-2,852.64	4,102.72	4,048.14	54.58	75.168	
12,200.00	11,993.61	11,200.00	10,978.96	32.44	26.61	-75.67	405.24	-2,852.82	4,107.26	4,052.51	54.75	75.018	
12,250.00	12,019.36	11,200.00	10,978.96	32.50	26.61	-75.29	405.24	-2,852.82	4,111.16	4,056.33	54.83	74.981	
12,300.00	12,041.28	11,227.92	10,985.05	32.56	26.71	-74.89	432.48	-2,853.06	4,114.28	4,059.24	55.03	74.759	
12,350.00	12,059.21	11,250.00	10,988.93	32.61	26.80	-74.60	454.22	-2,853.25	4,116.73	4,061.51	55.22	74.555	
12,400.00	12,073.00	11,250.00	10,988.93	37.58	26.80	-74.43	454.22	-2,853.25	4,118.45	4,063.25	55.20	74.607	
12,435.13	12,080.15	11,273.56	10,992.14	37.61	26.89	-74.34	477.55	-2,853.46	4,119.13	4,063.78	55.34	74.430	
12,460.13	12,084.49	11,282.03	10,993.06	37.64	26.92	-74.33	485.97	-2,853.53	4,119.56	4,064.15	55.41	74.352	
12,500.00	12,090.60	11,300.00	10,994.60	37.68	26.99	-74.27	503.88	-2,853.69	4,120.23	4,064.69	55.54	74.188	
12,550.00	12,095.92	11,312.44	10,995.33	37.73	27.04	-74.24	516.29	-2,853.80	4,120.79	4,065.12	55.67	74.023	
12,600.00	12,098.63	11,340.09	10,996.00	37.79	27.15	-74.21	543.94	-2,854.04	4,121.08	4,065.19	55.89	73.733	
12,626.80	12,099.00	11,345.05	10,996.00	37.82	27.18	-74.22	538.98	-2,854.00	4,121.05	4,065.09	55.96	73.643	
12,700.00	12,099.00	11,408.33	10,996.00	37.91	27.45	-74.22	612.18	-2,854.64	4,121.01	4,064.53	56.47	72.974	
12,800.00	12,099.00	11,508.33	10,996.00	38.08	27.95	-74.22	712.17	-2,855.52	4,120.95	4,063.61	57.34	71.871	
12,900.00	12,099.00	11,608.33	10,996.00	38.23	28.51	-74.21	812.17	-2,856.40	4,120.90	4,062.57	58.33	70.652	
13,000.00	12,099.00	11,708.33	10,996.00	38.42	29.13	-74.21	912.16	-2,857.28	4,120.84	4,061.41	59.43	69.338	
13,100.00	12,099.00	11,808.33	10,996.00	38.64	29.81	-74.21	1,012.16	-2,858.16	4,120.79	4,060.14	60.65	67.948	
13,200.00	12,099.00	11,908.33	10,996.00	38.90	30.54	-74.21	1,112.16	-2,859.04	4,120.73	4,058.77	61.96	66.502	
13,300.00	12,099.00	12,008.33	10,996.00	39.20	31.32	-74.21	1,212.15	-2,859.92	4,120.68	4,057.30	63.38	65.016	
13,400.00	12,099.00	12,108.33	10,996.00	39.55	32.14	-74.21	1,312.15	-2,860.80	4,120.62	4,055.74	64.89	63.506	
13,500.00	12,099.00	12,208.33	10,996.00	39.95	33.01	-74.21	1,412.15	-2,861.68	4,120.57	4,054.09	66.48	61.986	
13,600.00	12,099.00	12,308.33	10,996.00	40.40	33.92	-74.21	1,512.14	-2,862.56	4,120.51	4,052.37	68.15	60.467	
13,700.00	12,099.00	12,408.33	10,996.00	40.92	34.86	-74.21	1,612.14	-2,863.44	4,120.46	4,050.57	69.89	58.959	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 121H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	12,099.00	12,508.33	10,996.00	41.51	35.84	-74.21	1,712.13	-2,864.32	4,120.40	4,048.71	71.69	57.472	
13,900.00	12,099.00	12,608.33	10,996.00	42.15	36.85	-74.21	1,812.13	-2,865.20	4,120.35	4,046.78	73.57	56.007	
14,000.00	12,099.00	12,708.33	10,996.00	42.85	37.88	-74.21	1,912.13	-2,866.08	4,120.29	4,044.80	75.50	54.574	
14,100.00	12,099.00	12,808.33	10,996.00	43.62	38.94	-74.21	2,012.12	-2,866.96	4,120.24	4,042.76	77.48	53.176	
14,200.00	12,099.00	12,908.33	10,996.00	44.43	40.03	-74.21	2,112.12	-2,867.84	4,120.19	4,040.67	79.52	51.816	
14,300.00	12,099.00	13,008.33	10,996.00	45.29	41.14	-74.21	2,212.11	-2,868.72	4,120.13	4,038.53	81.60	50.495	
14,400.00	12,099.00	13,108.33	10,996.00	46.20	42.26	-74.21	2,312.11	-2,869.60	4,120.08	4,036.36	83.72	49.214	
14,500.00	12,099.00	13,208.33	10,996.00	47.14	43.41	-74.21	2,412.11	-2,870.48	4,120.02	4,034.14	85.88	47.975	
14,600.00	12,099.00	13,308.33	10,996.00	48.12	44.57	-74.21	2,512.10	-2,871.36	4,119.97	4,031.89	88.08	46.777	
14,700.00	12,099.00	13,408.33	10,996.00	49.13	45.75	-74.21	2,612.10	-2,872.24	4,119.91	4,029.60	90.31	45.621	
14,800.00	12,099.00	13,508.33	10,996.00	50.17	46.95	-74.21	2,712.09	-2,873.12	4,119.86	4,027.29	92.57	44.505	
14,900.00	12,099.00	13,608.33	10,996.00	51.23	48.16	-74.21	2,812.09	-2,874.00	4,119.80	4,024.94	94.86	43.429	
15,000.00	12,099.00	13,708.33	10,996.00	52.32	49.38	-74.21	2,912.09	-2,874.88	4,119.75	4,022.56	97.18	42.392	
15,100.00	12,099.00	13,808.33	10,996.00	53.43	50.61	-74.21	3,012.08	-2,875.76	4,119.69	4,020.17	99.53	41.393	
15,200.00	12,099.00	13,908.33	10,996.00	54.55	51.85	-74.21	3,112.08	-2,876.64	4,119.64	4,017.74	101.89	40.431	
15,300.00	12,099.00	14,008.33	10,996.00	55.70	53.10	-74.21	3,212.08	-2,877.52	4,119.58	4,015.30	104.28	39.504	
15,400.00	12,099.00	14,108.33	10,996.00	56.86	54.37	-74.21	3,312.07	-2,878.40	4,119.53	4,012.83	106.69	38.611	
15,500.00	12,099.00	14,208.33	10,996.00	58.03	55.64	-74.21	3,412.07	-2,879.28	4,119.47	4,010.35	109.12	37.751	
15,600.00	12,099.00	14,308.33	10,996.00	59.22	56.92	-74.21	3,512.06	-2,880.16	4,119.42	4,007.85	111.57	36.922	
15,700.00	12,099.00	14,408.33	10,996.00	60.43	58.20	-74.21	3,612.06	-2,881.04	4,119.36	4,005.33	114.03	36.124	
15,800.00	12,099.00	14,508.33	10,996.00	61.64	59.50	-74.21	3,712.06	-2,881.92	4,119.31	4,002.80	116.51	35.355	
15,900.00	12,099.00	14,608.33	10,996.00	62.86	60.80	-74.21	3,812.05	-2,882.80	4,119.25	4,000.25	119.01	34.614	
16,000.00	12,099.00	14,708.33	10,996.00	64.10	62.11	-74.21	3,912.05	-2,883.68	4,119.20	3,997.69	121.51	33.899	
16,100.00	12,099.00	14,808.33	10,996.00	65.34	63.42	-74.21	4,012.04	-2,884.56	4,119.14	3,995.11	124.03	33.210	
16,200.00	12,099.00	14,908.33	10,996.00	66.59	64.74	-74.21	4,112.04	-2,885.44	4,119.09	3,992.52	126.57	32.545	
16,300.00	12,099.00	15,008.33	10,996.00	67.85	66.06	-74.21	4,212.04	-2,886.32	4,119.03	3,989.92	129.11	31.903	
16,400.00	12,099.00	15,108.33	10,996.00	69.12	67.39	-74.21	4,312.03	-2,887.20	4,118.98	3,987.31	131.67	31.284	
16,500.00	12,099.00	15,208.33	10,996.00	70.40	68.72	-74.21	4,412.03	-2,888.08	4,118.92	3,984.69	134.23	30.686	
16,600.00	12,099.00	15,308.33	10,996.00	71.68	70.06	-74.21	4,512.02	-2,888.96	4,118.87	3,982.07	136.80	30.108	
16,700.00	12,099.00	15,408.33	10,996.00	72.97	71.40	-74.21	4,612.02	-2,889.84	4,118.82	3,979.43	139.39	29.549	
16,800.00	12,099.00	15,508.33	10,996.00	74.27	72.75	-74.21	4,712.02	-2,890.72	4,118.76	3,976.78	141.98	29.009	
16,900.00	12,099.00	15,608.33	10,996.00	75.57	74.10	-74.21	4,812.01	-2,891.60	4,118.71	3,974.13	144.58	28.487	
16,949.11	12,099.00	15,657.44	10,996.00	76.21	74.76	-74.21	4,861.12	-2,892.04	4,118.68	3,972.82	145.86	28.237 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19.00	19.00	0.00	0.02	-90.59	-20.00	-1,933.00	1,933.10				
100.00	100.00	119.00	119.00	0.13	0.20	-90.59	-20.00	-1,933.00	1,933.10	1,932.78	0.32	5,991.802	
200.00	200.00	219.00	219.00	0.49	0.55	-90.59	-20.00	-1,933.00	1,933.10	1,932.06	1.04	1,859.526	
300.00	300.00	319.00	319.00	0.84	0.91	-90.59	-20.00	-1,933.00	1,933.10	1,931.35	1.76	1,100.536	
400.00	400.00	419.00	419.00	1.20	1.27	-90.59	-20.00	-1,933.00	1,933.10	1,930.63	2.47	781.540	
500.00	500.00	519.00	519.00	1.56	1.63	-90.59	-20.00	-1,933.00	1,933.10	1,929.91	3.19	605.913	
600.00	600.00	619.00	619.00	1.92	1.99	-90.59	-20.00	-1,933.00	1,933.10	1,929.20	3.91	494.736	
700.00	700.00	719.00	719.00	2.28	2.35	-90.59	-20.00	-1,933.00	1,933.10	1,928.48	4.62	418.033	
800.00	800.00	819.00	819.00	2.64	2.70	-90.59	-20.00	-1,933.00	1,933.10	1,927.76	5.34	361.921	
900.00	900.00	919.00	919.00	3.00	3.06	-90.59	-20.00	-1,933.00	1,933.10	1,927.05	6.06	319.090	
1,000.00	1,000.00	1,019.00	1,019.00	3.35	3.42	-90.59	-20.00	-1,933.00	1,933.10	1,926.33	6.78	285.324	
1,100.00	1,100.00	1,128.67	1,128.67	3.71	3.81	-90.59	-20.00	-1,932.93	1,933.06	1,925.53	7.52	256.912	
1,200.00	1,200.00	1,279.53	1,279.50	4.07	4.20	-90.59	-19.97	-1,930.19	1,931.24	1,922.97	8.27	233.560	
1,300.00	1,300.00	1,430.15	1,429.96	4.25	4.29	-90.59	-19.88	-1,923.49	1,926.79	1,918.26	8.53	225.913	
1,400.00	1,400.00	1,580.30	1,579.74	4.26	4.41	-90.59	-19.75	-1,912.88	1,919.73	1,911.06	8.66	221.618	
1,500.00	1,500.00	1,686.52	1,685.56	4.34	4.53	-90.59	-19.64	-1,903.66	1,911.03	1,902.19	8.84	216.194	
1,600.00	1,599.99	1,786.21	1,784.87	4.43	4.68	174.81	-19.53	-1,894.97	1,903.18	1,894.12	9.06	209.993	
1,700.00	1,699.96	1,886.02	1,884.30	4.54	4.85	174.82	-19.42	-1,886.27	1,897.07	1,887.73	9.33	203.236	
1,800.00	1,799.86	1,985.92	1,983.82	4.66	5.05	174.84	-19.32	-1,877.57	1,892.69	1,883.04	9.65	196.083	
1,900.00	1,899.68	2,085.89	2,083.40	4.84	5.26	174.86	-19.21	-1,868.85	1,890.05	1,880.03	10.01	188.748	
2,000.00	1,999.37	2,185.88	2,183.01	5.02	5.49	174.88	-19.10	-1,860.14	1,889.14	1,878.73	10.41	181.429	
2,100.00	2,098.99	2,285.87	2,282.63	5.22	5.74	174.91	-19.00	-1,851.43	1,889.11	1,878.26	10.85	174.164	
2,200.00	2,198.60	2,385.87	2,382.25	5.45	6.00	174.93	-18.89	-1,842.71	1,889.07	1,877.76	11.31	167.013	
2,300.00	2,298.22	2,485.87	2,481.86	5.69	6.27	174.95	-18.78	-1,834.00	1,889.04	1,877.24	11.80	160.062	
2,400.00	2,397.84	2,585.87	2,581.48	5.94	6.56	174.98	-18.67	-1,825.28	1,889.00	1,876.69	12.32	153.373	
2,500.00	2,497.46	2,685.86	2,681.10	6.21	6.85	175.00	-18.57	-1,816.57	1,888.97	1,876.12	12.85	146.983	
2,600.00	2,597.08	2,785.86	2,780.71	6.49	7.15	175.03	-18.46	-1,807.85	1,888.94	1,875.53	13.41	140.912	
2,700.00	2,696.70	2,885.86	2,880.33	6.78	7.46	175.05	-18.35	-1,799.14	1,888.91	1,874.93	13.97	135.167	
2,800.00	2,796.32	2,985.85	2,979.94	7.07	7.77	175.08	-18.24	-1,790.42	1,888.87	1,874.31	14.56	129.745	
2,900.00	2,895.94	3,085.85	3,079.56	7.38	8.09	175.10	-18.14	-1,781.71	1,888.84	1,873.69	15.15	124.636	
3,000.00	2,995.56	3,185.85	3,179.18	7.69	8.42	175.13	-18.03	-1,772.99	1,888.81	1,873.05	15.76	119.834	
3,100.00	3,095.18	3,285.84	3,278.79	8.00	8.74	175.15	-17.92	-1,764.28	1,888.78	1,872.40	16.38	115.316	
3,200.00	3,194.80	3,385.84	3,378.41	8.32	9.08	175.18	-17.81	-1,755.56	1,888.75	1,871.74	17.01	111.069	
3,300.00	3,294.42	3,485.84	3,478.03	8.65	9.41	175.20	-17.71	-1,746.85	1,888.72	1,871.08	17.64	107.076	
3,400.00	3,394.04	3,585.83	3,577.64	8.98	9.75	175.22	-17.60	-1,738.14	1,888.69	1,870.41	18.28	103.321	
3,500.00	3,493.66	3,685.83	3,677.26	9.31	10.09	175.25	-17.49	-1,729.42	1,888.66	1,869.73	18.93	99.786	
3,600.00	3,593.28	3,785.83	3,776.87	9.65	10.44	175.27	-17.39	-1,720.71	1,888.63	1,869.05	19.58	96.458	
3,700.00	3,692.90	3,885.82	3,876.49	9.99	10.78	175.30	-17.28	-1,711.99	1,888.60	1,868.36	20.24	93.320	
3,800.00	3,792.52	3,985.82	3,976.11	10.33	11.13	175.32	-17.17	-1,703.28	1,888.57	1,867.67	20.90	90.360	
3,900.00	3,892.14	4,085.82	4,075.72	10.68	11.48	175.35	-17.06	-1,694.56	1,888.54	1,866.97	21.57	87.565	
4,000.00	3,991.76	4,185.81	4,175.34	11.02	11.83	175.37	-16.96	-1,685.85	1,888.51	1,866.28	22.24	84.923	
4,100.00	4,091.37	4,285.81	4,274.95	11.37	12.18	175.40	-16.85	-1,677.13	1,888.49	1,865.57	22.91	82.423	
4,200.00	4,190.99	4,385.81	4,374.57	11.72	12.54	175.42	-16.74	-1,668.42	1,888.46	1,864.87	23.59	80.055	
4,300.00	4,290.61	4,485.80	4,474.19	12.07	12.90	175.44	-16.63	-1,659.70	1,888.43	1,864.16	24.27	77.810	
4,400.00	4,390.23	4,585.80	4,573.80	12.43	13.25	175.47	-16.53	-1,650.99	1,888.40	1,863.45	24.95	75.679	
4,500.00	4,489.85	4,685.80	4,673.42	12.78	13.61	175.49	-16.42	-1,642.27	1,888.38	1,862.74	25.64	73.655	
4,600.00	4,589.47	4,785.79	4,773.04	13.14	13.97	175.52	-16.31	-1,633.56	1,888.35	1,862.03	26.33	71.730	
4,700.00	4,689.09	4,885.79	4,872.65	13.50	14.33	175.54	-16.20	-1,624.85	1,888.33	1,861.31	27.02	69.898	
4,800.00	4,788.71	4,985.79	4,972.27	13.86	14.55	175.57	-16.10	-1,616.13	1,888.30	1,860.74	27.56	68.518	
4,900.00	4,888.33	5,085.78	5,071.88	14.22	14.61	175.59	-15.99	-1,607.42	1,888.28	1,860.34	27.94	67.588	
5,000.00	4,987.95	5,185.78	5,171.50	14.41	14.85	175.62	-15.88	-1,598.70	1,888.25	1,860.12	28.13	67.126	
5,100.00	5,087.57	5,285.78	5,271.12	14.44	14.71	175.64	-15.78	-1,589.99	1,888.23	1,860.06	28.17	67.039	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,112.48	5,100.00	5,301.75	5,283.55	14.45	14.72	175.64	-15.76	-1,588.90	1,888.22	1,860.05	28.17	67.023	ES
5,113.86	5,101.38	5,300.36	5,284.93	14.45	14.72	175.64	-15.76	-1,588.78	1,888.22	1,860.05	28.17	67.024	CC
5,200.00	5,187.13	5,385.77	5,370.73	14.49	14.77	175.67	-15.67	-1,581.27	1,888.87	1,860.65	28.22	66.931	
5,300.00	5,286.51	5,485.74	5,470.32	14.55	14.85	175.70	-15.56	-1,572.56	1,891.24	1,862.94	28.30	66.840	
5,400.00	5,385.68	5,585.64	5,569.84	14.63	14.93	175.73	-15.45	-1,563.85	1,895.35	1,866.96	28.39	66.765	
5,500.00	5,484.61	5,685.46	5,669.28	14.72	15.02	175.76	-15.35	-1,555.15	1,901.20	1,872.70	28.50	66.708	
5,600.00	5,583.27	5,778.47	5,761.94	14.83	15.11	175.80	-15.25	-1,547.08	1,908.83	1,880.20	28.63	66.680	
5,700.00	5,681.64	5,853.02	5,836.27	14.96	15.19	175.82	-15.18	-1,541.33	1,919.15	1,890.39	28.76	66.733	
5,800.00	5,779.67	5,927.19	5,910.28	15.11	15.27	175.85	-15.12	-1,536.57	1,932.48	1,903.58	28.90	66.866	
5,900.00	5,877.35	6,000.00	5,983.00	15.28	15.35	175.87	-15.07	-1,532.82	1,948.82	1,919.77	29.05	67.079	
6,000.00	5,974.63	6,074.00	6,056.94	15.47	15.42	175.90	-15.04	-1,529.97	1,968.13	1,938.91	29.22	67.357	
6,100.00	6,071.50	6,146.45	6,129.37	15.68	15.50	175.92	-15.01	-1,528.09	1,990.38	1,960.99	29.40	67.711	
6,200.00	6,167.92	6,218.15	6,201.06	15.91	15.58	175.94	-15.00	-1,527.14	2,015.55	1,985.97	29.58	68.137	
6,300.00	6,263.86	6,300.04	6,282.86	16.17	15.66	175.97	-15.00	-1,527.00	2,043.49	2,013.70	29.79	68.588	
6,347.11	6,308.89	6,344.98	6,327.89	16.30	15.71	175.99	-15.00	-1,527.00	2,057.32	2,027.41	29.91	68.781	
6,400.00	6,359.37	6,404.53	6,378.37	16.45	15.78	176.02	-15.00	-1,527.00	2,073.05	2,043.00	30.06	68.975	
6,500.00	6,454.83	6,509.08	6,473.83	16.75	15.90	176.08	-15.00	-1,527.00	2,102.80	2,072.47	30.33	69.324	
6,600.00	6,550.28	6,586.37	6,569.28	17.05	16.00	176.13	-15.00	-1,527.00	2,132.56	2,101.96	30.59	69.710	
6,700.00	6,645.73	6,681.82	6,664.73	17.38	16.12	176.18	-15.00	-1,527.00	2,162.31	2,131.42	30.89	70.002	
6,800.00	6,741.18	6,777.27	6,760.18	17.71	16.25	176.24	-15.00	-1,527.00	2,192.06	2,160.86	31.20	70.255	
6,900.00	6,836.63	6,872.73	6,855.63	18.06	16.39	176.29	-15.00	-1,527.00	2,221.82	2,190.29	31.53	70.471	
7,000.00	6,932.09	6,968.18	6,951.09	18.42	16.53	176.34	-15.00	-1,527.00	2,251.58	2,219.71	31.87	70.650	
7,100.00	7,027.54	7,063.63	7,046.54	18.78	16.68	176.38	-15.00	-1,527.00	2,281.34	2,249.12	32.22	70.795	
7,200.00	7,122.99	7,159.08	7,141.99	19.16	16.83	176.43	-15.00	-1,527.00	2,311.10	2,278.51	32.59	70.909	
7,300.00	7,218.44	7,254.53	7,237.44	19.55	16.99	176.48	-15.00	-1,527.00	2,340.86	2,307.89	32.97	70.992	
7,400.00	7,313.89	7,349.99	7,332.89	19.94	17.16	176.52	-15.00	-1,527.00	2,370.63	2,337.26	33.37	71.047	
7,500.00	7,409.35	7,445.44	7,428.35	20.35	17.33	176.56	-15.00	-1,527.00	2,400.39	2,366.62	33.77	71.075	
7,600.00	7,504.80	7,540.89	7,523.80	20.76	17.50	176.61	-15.00	-1,527.00	2,430.16	2,395.97	34.19	71.079	
7,700.00	7,600.25	7,636.34	7,619.25	21.18	17.68	176.65	-15.00	-1,527.00	2,459.93	2,425.31	34.62	71.060	
7,741.71	7,640.06	7,676.16	7,659.06	21.35	17.76	176.66	-15.00	-1,527.00	2,472.34	2,437.54	34.80	71.045	
7,800.00	7,695.83	7,731.92	7,714.83	21.60	17.86	176.70	-15.00	-1,527.00	2,489.27	2,454.21	35.06	71.009	
7,900.00	7,792.09	7,828.18	7,811.09	22.00	18.06	176.76	-15.00	-1,527.00	2,516.33	2,480.82	35.50	70.879	
8,000.00	7,889.02	7,925.11	7,908.02	22.39	18.25	176.81	-15.00	-1,527.00	2,540.86	2,504.90	35.95	70.668	
8,100.00	7,986.56	8,022.65	8,005.56	22.76	18.45	176.86	-15.00	-1,527.00	2,562.85	2,526.43	36.41	70.379	
8,200.00	8,084.65	8,120.74	8,103.65	23.10	18.66	176.90	-15.00	-1,527.00	2,582.28	2,545.40	36.88	70.018	
8,300.00	8,183.21	8,219.30	8,202.21	23.43	18.88	176.93	-15.00	-1,527.00	2,599.14	2,561.79	37.35	69.588	
8,400.00	8,282.18	8,318.27	8,301.18	23.73	19.09	176.96	-15.00	-1,527.00	2,613.42	2,575.60	37.82	69.093	
8,500.00	8,381.49	8,417.58	8,400.49	24.02	19.32	176.98	-15.00	-1,527.00	2,625.11	2,586.81	38.30	68.537	
8,600.00	8,481.07	8,517.16	8,500.07	24.28	19.54	177.00	-15.00	-1,527.00	2,634.20	2,595.42	38.78	67.925	
8,700.00	8,580.86	8,616.95	8,599.86	24.53	19.78	177.01	-15.00	-1,527.00	2,640.68	2,601.42	39.26	67.258	
8,800.00	8,680.78	8,716.87	8,699.78	24.75	20.01	177.02	-15.00	-1,527.00	2,644.55	2,604.81	39.74	66.540	
8,898.13	8,778.90	8,814.99	8,797.90	24.95	20.25	-88.38	-15.00	-1,527.00	2,645.81	2,605.60	40.21	65.800	
8,900.00	8,780.77	8,816.86	8,799.77	24.96	20.25	-88.38	-15.00	-1,527.00	2,645.81	2,605.59	40.22	65.785	
9,000.00	8,880.77	8,916.86	8,899.77	25.15	20.50	-88.38	-15.00	-1,527.00	2,645.81	2,605.12	40.69	65.022	
9,100.00	8,980.77	9,016.86	8,999.77	25.34	20.74	-88.38	-15.00	-1,527.00	2,645.81	2,604.64	41.17	64.264	
9,200.00	9,080.77	9,116.86	9,099.77	25.54	20.99	-88.38	-15.00	-1,527.00	2,645.81	2,604.16	41.66	63.514	
9,300.00	9,180.77	9,216.86	9,199.77	25.75	21.24	-88.38	-15.00	-1,527.00	2,645.81	2,603.66	42.15	62.771	
9,400.00	9,280.77	9,316.86	9,299.77	25.95	21.50	-88.38	-15.00	-1,527.00	2,645.81	2,603.16	42.65	62.037	
9,500.00	9,380.77	9,416.86	9,399.77	26.16	21.76	-88.38	-15.00	-1,527.00	2,645.81	2,602.66	43.15	61.310	
9,600.00	9,480.77	9,516.86	9,499.77	26.38	22.02	-88.38	-15.00	-1,527.00	2,645.81	2,602.15	43.67	60.593	
9,700.00	9,580.77	9,616.86	9,599.77	26.59	22.28	-88.38	-15.00	-1,527.00	2,645.81	2,601.63	44.18	59.884	
9,800.00	9,680.77	9,716.86	9,699.77	26.81	22.55	-88.38	-15.00	-1,527.00	2,645.81	2,601.11	44.70	59.184	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,816.86	9,799.77	27.03	22.82	-88.38	-15.00	-1,527.00	2,645.81	2,600.58	45.23	58.493	
10,000.00	9,880.77	9,916.86	9,899.77	27.26	23.09	-88.38	-15.00	-1,527.00	2,645.81	2,600.05	45.77	57.812	
10,100.00	9,980.77	10,016.86	9,999.77	27.49	23.37	-88.38	-15.00	-1,527.00	2,645.81	2,599.51	46.30	57.141	
10,200.00	10,080.77	10,116.86	10,099.77	27.72	23.64	-88.38	-15.00	-1,527.00	2,645.81	2,598.97	46.85	56.479	
10,300.00	10,180.77	10,216.86	10,199.77	27.95	23.92	-88.38	-15.00	-1,527.00	2,645.81	2,598.42	47.39	55.827	
10,400.00	10,280.77	10,316.86	10,299.77	28.19	24.20	-88.38	-15.00	-1,527.00	2,645.81	2,597.87	47.94	55.185	
10,500.00	10,380.77	10,416.86	10,399.77	28.43	24.49	-88.38	-15.00	-1,527.00	2,645.81	2,597.31	48.50	54.552	
10,600.00	10,480.77	10,502.00	10,484.63	28.67	24.73	-88.25	-9.16	-1,527.05	2,646.08	2,597.08	49.01	53.995	
10,700.00	10,580.77	10,583.23	10,563.94	28.91	24.95	-87.88	8.06	-1,527.21	2,647.02	2,597.53	49.49	53.483	
10,800.00	10,680.77	10,658.27	10,634.38	29.16	25.16	-87.32	33.78	-1,527.45	2,648.90	2,598.95	49.96	53.026	
10,900.00	10,780.77	10,725.57	10,694.22	29.40	25.33	-86.66	64.50	-1,527.73	2,652.09	2,601.70	50.39	52.633	
11,000.00	10,880.77	10,784.71	10,743.51	29.65	25.47	-85.95	97.12	-1,528.03	2,656.99	2,606.20	50.79	52.309	
11,100.00	10,980.77	10,836.04	10,783.37	29.91	25.60	-85.26	129.43	-1,528.33	2,663.97	2,612.80	51.17	52.060	
11,200.00	11,080.77	10,880.34	10,815.34	30.16	25.70	-84.60	160.09	-1,528.61	2,673.33	2,621.81	51.52	51.889	
11,300.00	11,180.77	10,918.53	10,840.92	30.42	25.79	-83.99	188.44	-1,528.88	2,685.32	2,633.47	51.84	51.797	
11,400.00	11,280.77	10,950.00	10,860.54	30.68	25.87	-83.47	213.03	-1,529.10	2,700.11	2,647.97	52.13	51.792	
11,500.00	11,380.77	10,980.12	10,878.04	30.94	25.95	-82.95	237.54	-1,529.33	2,717.81	2,665.40	52.41	51.852	
11,600.00	11,480.77	11,000.00	10,888.87	31.20	26.00	-82.59	254.21	-1,529.48	2,738.52	2,685.88	52.65	52.019	
11,635.13	11,515.90	11,013.03	10,895.65	31.29	26.03	-82.36	265.34	-1,529.58	2,746.50	2,693.75	52.75	52.065	
11,650.00	11,530.77	11,018.37	10,897.34	31.33	26.04	-81.40	268.22	-1,529.61	2,749.97	2,697.18	52.79	52.098	
11,700.00	11,580.63	11,028.16	10,903.20	31.46	26.07	-80.01	278.45	-1,529.70	2,761.69	2,708.78	52.91	52.201	
11,750.00	11,630.00	11,050.00	10,913.49	31.59	26.14	-78.46	297.71	-1,529.88	2,773.43	2,720.37	53.06	52.266	
11,800.00	11,678.50	11,050.00	10,913.49	31.71	26.14	-77.30	297.71	-1,529.88	2,784.97	2,731.85	53.12	52.428	
11,850.00	11,725.77	11,067.73	10,921.30	31.83	26.19	-75.92	313.63	-1,530.03	2,796.28	2,743.03	53.25	52.510	
11,900.00	11,771.43	11,082.04	10,927.23	31.94	26.23	-74.64	326.64	-1,530.15	2,807.24	2,753.87	53.36	52.605	
11,950.00	11,815.16	11,100.00	10,934.23	32.05	26.29	-73.39	343.19	-1,530.30	2,817.72	2,764.23	53.49	52.678	
12,000.00	11,856.60	11,100.00	10,934.23	32.14	26.29	-72.42	343.19	-1,530.30	2,827.67	2,774.14	53.53	52.825	
12,050.00	11,895.45	11,127.37	10,943.88	32.23	26.38	-71.25	368.80	-1,530.54	2,836.82	2,783.12	53.69	52.834	
12,100.00	11,931.42	11,150.00	10,950.92	32.31	26.45	-70.24	390.30	-1,530.74	2,845.29	2,791.45	53.83	52.853	
12,150.00	11,964.22	11,150.00	10,950.92	32.38	26.45	-69.51	390.30	-1,530.74	2,852.91	2,799.04	53.87	52.959	
12,200.00	11,993.61	11,175.31	10,957.79	32.44	26.54	-68.71	414.66	-1,530.96	2,859.55	2,805.52	54.03	52.928	
12,250.00	12,019.36	11,200.00	10,963.45	32.50	26.63	-68.04	438.68	-1,531.18	2,865.29	2,811.11	54.18	52.883	
12,300.00	12,041.28	11,200.00	10,963.45	32.56	26.63	-67.61	438.68	-1,531.18	2,869.96	2,815.73	54.23	52.925	
12,350.00	12,059.21	11,224.81	10,968.09	32.61	26.72	-67.19	463.05	-1,531.41	2,873.52	2,819.13	54.39	52.827	
12,400.00	12,073.00	11,250.00	10,971.71	37.58	26.82	-66.90	487.98	-1,531.64	2,876.05	2,821.65	54.40	52.865	
12,435.13	12,080.15	11,250.00	10,971.71	37.61	26.82	-66.81	487.98	-1,531.64	2,877.10	2,822.70	54.40	52.891	
12,460.13	12,084.49	11,250.00	10,971.71	37.64	26.82	-66.81	487.98	-1,531.64	2,877.80	2,823.40	54.40	52.903	
12,500.00	12,090.60	11,274.95	10,974.22	37.68	26.92	-66.72	512.80	-1,531.87	2,878.71	2,824.17	54.54	52.778	
12,550.00	12,095.92	11,300.00	10,975.64	37.73	27.02	-66.66	537.81	-1,532.10	2,879.58	2,824.87	54.71	52.635	
12,600.00	12,098.63	11,308.36	10,975.88	37.79	27.05	-66.64	546.17	-1,532.17	2,879.92	2,825.11	54.80	52.552	
12,626.80	12,099.00	11,320.13	10,976.00	37.82	27.10	-66.64	557.93	-1,532.28	2,879.93	2,825.03	54.90	52.460	
12,656.60	12,099.00	11,341.51	10,976.00	37.86	27.19	-66.64	579.31	-1,532.48	2,879.91	2,824.85	55.06	52.301	
12,700.00	12,099.00	11,384.91	10,976.00	37.91	27.38	-66.64	622.71	-1,532.88	2,879.91	2,824.53	55.37	52.008	
12,800.00	12,099.00	11,484.91	10,976.00	38.06	27.88	-66.64	722.70	-1,533.80	2,879.89	2,823.70	56.19	51.250	
12,900.00	12,099.00	11,584.91	10,976.00	38.23	28.44	-66.64	822.70	-1,534.72	2,879.88	2,822.75	57.13	50.411	
13,000.00	12,099.00	11,684.91	10,976.00	38.42	29.06	-66.64	922.69	-1,535.64	2,879.86	2,821.69	58.18	49.503	
13,100.00	12,099.00	11,784.91	10,976.00	38.64	29.74	-66.64	1,022.69	-1,536.56	2,879.85	2,820.52	59.33	48.540	
13,200.00	12,099.00	11,884.91	10,976.00	38.90	30.47	-66.64	1,122.69	-1,537.49	2,879.84	2,819.25	60.58	47.535	
13,300.00	12,099.00	11,984.91	10,976.00	39.20	31.25	-66.64	1,222.68	-1,538.41	2,879.82	2,817.89	61.93	46.500	
13,400.00	12,099.00	12,084.91	10,976.00	39.55	32.07	-66.64	1,322.68	-1,539.33	2,879.81	2,816.44	63.37	45.446	
13,500.00	12,099.00	12,184.91	10,976.00	39.95	32.94	-66.64	1,422.67	-1,540.25	2,879.79	2,814.91	64.89	44.383	
13,600.00	12,099.00	12,284.91	10,976.00	40.40	33.85	-66.64	1,522.67	-1,541.17	2,879.78	2,813.30	66.48	43.318	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	12,384.91	10,976.00	40.92	34.79	-66.64	1,622.66	-1,542.10	2,879.77	2,811.62	68.15	42.258	
13,800.00	12,099.00	12,484.91	10,976.00	41.51	35.77	-66.64	1,722.66	-1,543.02	2,879.75	2,809.87	69.88	41.210	
13,900.00	12,099.00	12,584.91	10,976.00	42.15	36.77	-66.64	1,822.66	-1,543.94	2,879.74	2,808.07	71.67	40.179	
14,000.00	12,099.00	12,684.91	10,976.00	42.85	37.81	-66.64	1,922.65	-1,544.86	2,879.72	2,806.20	73.52	39.168	
14,100.00	12,099.00	12,784.91	10,976.00	43.62	38.87	-66.64	2,022.65	-1,545.78	2,879.71	2,804.28	75.43	38.179	
14,200.00	12,099.00	12,884.91	10,976.00	44.43	39.96	-66.64	2,122.64	-1,546.70	2,879.70	2,802.32	77.38	37.216	
14,300.00	12,099.00	12,984.91	10,976.00	45.29	41.06	-66.64	2,222.64	-1,547.63	2,879.68	2,800.31	79.37	36.280	
14,400.00	12,099.00	13,084.91	10,976.00	46.20	42.19	-66.64	2,322.63	-1,548.55	2,879.67	2,798.25	81.41	35.371	
14,500.00	12,099.00	13,184.91	10,976.00	47.14	43.34	-66.64	2,422.63	-1,549.47	2,879.65	2,796.16	83.49	34.491	
14,600.00	12,099.00	13,284.91	10,976.00	48.12	44.50	-66.64	2,522.63	-1,550.39	2,879.64	2,794.04	85.60	33.639	
14,700.00	12,099.00	13,384.91	10,976.00	49.13	45.68	-66.64	2,622.62	-1,551.31	2,879.63	2,791.87	87.75	32.816	
14,800.00	12,099.00	13,484.91	10,976.00	50.17	46.88	-66.64	2,722.62	-1,552.23	2,879.61	2,789.68	89.93	32.021	
14,900.00	12,099.00	13,584.91	10,976.00	51.23	48.09	-66.64	2,822.61	-1,553.16	2,879.60	2,787.46	92.14	31.254	
15,000.00	12,099.00	13,684.91	10,976.00	52.32	49.31	-66.64	2,922.61	-1,554.08	2,879.58	2,785.21	94.37	30.514	
15,100.00	12,099.00	13,784.91	10,976.00	53.43	50.54	-66.63	3,022.60	-1,555.00	2,879.57	2,782.94	96.63	29.800	
15,200.00	12,099.00	13,884.91	10,976.00	54.55	51.78	-66.63	3,122.60	-1,555.92	2,879.56	2,780.65	98.91	29.113	
15,300.00	12,099.00	13,984.91	10,976.00	55.70	53.04	-66.63	3,222.60	-1,556.84	2,879.54	2,778.33	101.21	28.450	
15,400.00	12,099.00	14,084.91	10,976.00	56.86	54.30	-66.63	3,322.59	-1,557.76	2,879.53	2,775.99	103.54	27.812	
15,500.00	12,099.00	14,184.91	10,976.00	58.03	55.57	-66.63	3,422.59	-1,558.69	2,879.51	2,773.63	105.88	27.196	
15,600.00	12,099.00	14,284.91	10,976.00	59.22	56.85	-66.63	3,522.58	-1,559.61	2,879.50	2,771.26	108.24	26.603	
15,700.00	12,099.00	14,384.91	10,976.00	60.43	58.14	-66.63	3,622.58	-1,560.53	2,879.49	2,768.87	110.62	26.031	
15,800.00	12,099.00	14,484.91	10,976.00	61.64	59.43	-66.63	3,722.57	-1,561.45	2,879.47	2,766.46	113.01	25.480	
15,900.00	12,099.00	14,584.91	10,976.00	62.86	60.73	-66.63	3,822.57	-1,562.37	2,879.46	2,764.04	115.41	24.949	
16,000.00	12,099.00	14,684.91	10,976.00	64.10	62.04	-66.63	3,922.57	-1,563.29	2,879.44	2,761.61	117.84	24.436	
16,100.00	12,099.00	14,784.91	10,976.00	65.34	63.35	-66.63	4,022.56	-1,564.22	2,879.43	2,759.16	120.27	23.942	
16,200.00	12,099.00	14,884.91	10,976.00	66.59	64.67	-66.63	4,122.56	-1,565.14	2,879.42	2,756.70	122.71	23.465	
16,300.00	12,099.00	14,984.91	10,976.00	67.85	66.00	-66.63	4,222.55	-1,566.06	2,879.40	2,754.23	125.17	23.004	
16,400.00	12,099.00	15,084.91	10,976.00	69.12	67.33	-66.63	4,322.55	-1,566.98	2,879.39	2,751.75	127.64	22.559	
16,500.00	12,099.00	15,184.91	10,976.00	70.40	68.66	-66.63	4,422.55	-1,567.90	2,879.37	2,749.26	130.11	22.130	
16,600.00	12,099.00	15,284.91	10,976.00	71.68	70.00	-66.63	4,522.54	-1,568.82	2,879.36	2,746.76	132.60	21.714	
16,700.00	12,099.00	15,384.91	10,976.00	72.97	71.34	-66.63	4,622.54	-1,569.75	2,879.35	2,744.25	135.10	21.313	
16,800.00	12,099.00	15,484.91	10,976.00	74.27	72.69	-66.63	4,722.53	-1,570.67	2,879.33	2,741.73	137.60	20.925	
16,900.00	12,099.00	15,584.91	10,976.00	75.57	74.04	-66.63	4,822.53	-1,571.59	2,879.32	2,739.20	140.11	20.550	
16,945.16	12,099.00	15,630.07	10,976.00	76.16	74.65	-66.63	4,867.69	-1,572.01	2,879.31	2,738.06	141.25	20.384	
16,949.11	12,099.00	15,629.38	10,976.00	76.21	74.84	-66.63	4,867.00	-1,572.00	2,879.31	2,738.04	141.27	20.382 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 123H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	17.00	17.00	0.00	0.02	-90.56	-6.00	-612.00	612.03				
100.00	100.00	117.00	117.00	0.13	0.19	-90.56	-6.00	-612.00	612.03	611.71	0.32	1,940.146	
200.00	200.00	217.00	217.00	0.49	0.55	-90.56	-6.00	-612.00	612.03	611.00	1.03	592.823	
300.00	300.00	317.00	317.00	0.84	0.91	-90.56	-6.00	-612.00	612.03	610.28	1.75	349.863	
400.00	400.00	417.00	417.00	1.20	1.26	-90.56	-6.00	-612.00	612.03	609.56	2.47	248.158	
500.00	500.00	517.00	517.00	1.56	1.62	-90.56	-6.00	-612.00	612.03	608.85	3.18	192.267	
600.00	600.00	617.00	617.00	1.92	1.98	-90.56	-6.00	-612.00	612.03	608.13	3.90	156.924	
700.00	700.00	717.00	717.00	2.28	2.34	-90.56	-6.00	-612.00	612.03	607.41	4.62	132.557	
800.00	800.00	817.00	817.00	2.64	2.70	-90.56	-6.00	-612.00	612.03	606.70	5.33	114.740	
900.00	900.00	917.00	917.00	3.00	3.06	-90.56	-6.00	-612.00	612.03	605.98	6.05	101.145	
1,000.00	1,000.00	1,017.00	1,017.00	3.35	3.41	-90.56	-6.00	-612.00	612.03	605.26	6.77	90.431	
1,100.00	1,100.00	1,119.03	1,119.03	3.71	3.78	-90.56	-6.00	-611.97	612.00	604.51	7.49	81.704	
1,200.00	1,200.00	1,230.97	1,230.96	4.07	4.12	-90.56	-5.98	-610.50	610.69	602.51	8.19	74.611	
1,300.00	1,300.00	1,342.81	1,342.73	4.25	4.25	-90.56	-5.94	-606.86	607.43	598.93	8.50	71.480	
1,400.00	1,400.00	1,454.46	1,454.23	4.28	4.30	-90.56	-5.87	-601.04	602.22	593.65	8.57	70.252	
1,500.00	1,500.00	1,565.84	1,565.33	4.34	4.39	-90.56	-5.77	-593.07	595.07	586.36	8.71	68.319	
1,600.00	1,599.99	1,669.08	1,668.18	4.43	4.51	174.85	-5.66	-584.18	587.31	578.41	8.90	65.964	
1,700.00	1,699.96	1,768.89	1,767.61	4.54	4.65	174.88	-5.55	-575.48	581.19	572.05	9.15	63.540	
1,800.00	1,799.86	1,868.79	1,867.14	4.68	4.82	174.93	-5.44	-566.77	576.82	567.38	9.44	61.104	
1,900.00	1,899.68	1,968.75	1,966.72	4.84	5.01	174.99	-5.34	-558.06	574.17	564.40	9.78	58.720	
2,000.00	1,999.37	2,068.75	2,066.33	5.02	5.22	175.06	-5.23	-549.35	573.27	563.11	10.16	56.435	
2,100.00	2,098.99	2,168.74	2,165.94	5.22	5.45	175.14	-5.12	-540.63	573.24	562.67	10.57	54.216	
2,200.00	2,198.60	2,268.74	2,265.56	5.45	5.70	175.22	-5.01	-531.92	573.21	562.19	11.02	52.005	
2,300.00	2,298.22	2,368.74	2,365.18	5.69	5.96	175.30	-4.91	-523.20	573.18	561.68	11.50	49.844	
2,400.00	2,397.84	2,468.73	2,464.79	5.94	6.23	175.38	-4.80	-514.49	573.15	561.15	12.00	47.755	
2,500.00	2,497.46	2,568.73	2,564.41	6.21	6.51	175.46	-4.69	-505.77	573.12	560.60	12.53	45.754	
2,600.00	2,597.08	2,668.73	2,664.03	6.49	6.80	175.54	-4.58	-497.06	573.10	560.03	13.07	43.847	
2,700.00	2,696.70	2,768.72	2,763.64	6.78	7.10	175.63	-4.48	-488.35	573.07	559.44	13.63	42.040	
2,800.00	2,796.32	2,868.72	2,863.26	7.07	7.41	175.71	-4.37	-479.63	573.05	558.84	14.21	40.333	
2,900.00	2,895.94	2,968.72	2,962.87	7.38	7.72	175.79	-4.26	-470.92	573.03	558.23	14.80	38.724	
3,000.00	2,995.56	3,068.71	3,062.49	7.69	8.04	175.87	-4.16	-462.20	573.01	557.61	15.40	37.211	
3,100.00	3,095.18	3,168.71	3,162.11	8.00	8.36	175.95	-4.05	-453.49	572.99	556.97	16.01	35.787	
3,200.00	3,194.80	3,268.71	3,261.72	8.32	8.69	176.03	-3.94	-444.77	572.97	556.33	16.63	34.449	
3,300.00	3,294.42	3,368.70	3,361.34	8.65	9.02	176.11	-3.83	-436.06	572.95	555.69	17.26	33.192	
3,400.00	3,394.04	3,468.70	3,460.96	8.98	9.35	176.19	-3.73	-427.34	572.93	555.03	17.90	32.009	
3,500.00	3,493.66	3,568.70	3,560.57	9.31	9.69	176.27	-3.62	-418.63	572.92	554.37	18.54	30.897	
3,600.00	3,593.28	3,668.69	3,660.19	9.65	10.03	176.35	-3.51	-409.91	572.90	553.71	19.19	29.851	
3,700.00	3,692.90	3,768.69	3,759.80	9.99	10.38	176.43	-3.40	-401.20	572.89	553.04	19.85	28.865	
3,800.00	3,792.52	3,868.69	3,859.42	10.33	10.72	176.51	-3.30	-392.48	572.87	552.37	20.51	27.935	
3,900.00	3,892.14	3,968.68	3,959.04	10.68	11.07	176.60	-3.19	-383.77	572.86	551.69	21.17	27.058	
4,000.00	3,991.76	4,068.68	4,058.65	11.02	11.42	176.68	-3.08	-375.06	572.85	551.01	21.84	26.230	
4,100.00	4,091.37	4,168.68	4,158.27	11.37	11.77	176.76	-2.97	-366.34	572.84	550.33	22.51	25.446	
4,200.00	4,190.99	4,268.67	4,257.89	11.72	12.12	176.84	-2.87	-357.63	572.84	549.65	23.19	24.705	
4,300.00	4,290.61	4,368.67	4,357.50	12.07	12.48	176.92	-2.76	-348.91	572.83	548.96	23.87	24.002	
4,400.00	4,390.23	4,468.67	4,457.12	12.43	12.83	177.00	-2.65	-340.20	572.82	548.28	24.55	23.336	
4,500.00	4,489.85	4,568.67	4,556.73	12.78	13.19	177.08	-2.55	-331.48	572.82	547.59	25.23	22.703	
4,600.00	4,589.47	4,668.66	4,656.35	13.14	13.55	177.16	-2.44	-322.77	572.82	546.90	25.92	22.102	
4,700.00	4,689.09	4,768.66	4,755.97	13.50	13.91	177.24	-2.33	-314.05	572.81	546.21	26.61	21.530	
4,800.00	4,788.71	4,868.66	4,855.58	13.86	14.27	177.32	-2.22	-305.34	572.81	545.52	27.30	20.986	
4,836.70	4,825.27	4,905.35	4,892.14	13.99	14.40	177.35	-2.18	-302.14	572.81	545.26	27.55	20.792 CC	
4,900.00	4,888.33	4,968.65	4,955.20	14.22	14.52	177.40	-2.12	-296.62	572.81	544.94	27.87	20.554	
5,000.00	4,987.95	5,068.65	5,054.82	14.41	14.60	177.48	-2.01	-287.91	572.82	544.71	28.10	20.382	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 123H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,168.65	5,154.43	14.44	14.65	177.57	-1.90	-279.19	572.82	544.69	28.13	20.363	
5,112.48	5,100.00	5,181.12	5,166.86	14.45	14.65	177.58	-1.89	-278.11	572.82	544.68	28.13	20.360 ES	
5,200.00	5,187.13	5,268.64	5,254.04	14.49	14.70	177.65	-1.79	-270.48	573.49	545.32	28.17	20.355	
5,300.00	5,286.51	5,368.60	5,353.63	14.55	14.76	177.74	-1.69	-261.77	575.89	547.66	28.24	20.395	
5,400.00	5,385.68	5,468.51	5,453.16	14.63	14.83	177.84	-1.58	-253.06	580.04	551.72	28.32	20.482	
5,500.00	5,484.61	5,568.33	5,552.60	14.72	14.91	177.94	-1.47	-244.36	585.93	557.51	28.42	20.617	
5,600.00	5,583.27	5,668.03	5,651.92	14.83	15.00	178.04	-1.37	-235.67	593.56	565.02	28.54	20.798	
5,700.00	5,681.64	5,766.71	5,750.22	14.96	15.10	178.14	-1.26	-227.08	602.94	574.26	28.68	21.024	
5,800.00	5,779.67	5,856.46	5,839.69	15.11	15.19	178.23	-1.17	-220.09	614.97	586.14	28.83	21.329	
5,900.00	5,877.35	5,945.80	5,928.67	15.28	15.29	178.31	-1.11	-214.53	630.28	601.28	29.00	21.735	
6,000.00	5,974.63	6,034.01	6,016.98	15.47	15.38	178.39	-1.05	-210.39	648.83	619.65	29.17	22.239	
6,100.00	6,071.50	6,121.56	6,104.48	15.68	15.47	178.45	-1.02	-207.63	670.59	641.23	29.36	22.838	
6,200.00	6,167.92	6,208.10	6,191.01	15.91	15.57	178.51	-1.00	-206.22	695.52	665.96	29.56	23.528	
6,300.00	6,263.86	6,302.04	6,280.86	16.17	15.67	178.55	-1.00	-206.00	723.46	693.67	29.79	24.289	
6,347.11	6,308.69	6,342.98	6,325.89	16.30	15.71	178.58	-1.00	-206.00	737.31	707.42	29.90	24.661	
6,400.00	6,359.37	6,406.53	6,376.37	16.45	15.78	178.61	-1.00	-206.00	753.08	723.03	30.05	25.064	
6,500.00	6,454.83	6,488.92	6,471.83	16.75	15.88	178.66	-1.00	-206.00	782.89	752.59	30.30	25.841	
6,600.00	6,550.28	6,584.37	6,567.28	17.05	15.99	178.71	-1.00	-206.00	812.69	782.12	30.58	26.579	
6,700.00	6,645.73	6,679.82	6,662.73	17.38	16.12	178.76	-1.00	-206.00	842.50	811.63	30.87	27.289	
6,800.00	6,741.18	6,775.27	6,758.18	17.71	16.25	178.80	-1.00	-206.00	872.31	841.12	31.18	27.972	
6,900.00	6,836.63	6,870.73	6,853.63	18.06	16.38	178.84	-1.00	-206.00	902.12	870.61	31.51	28.629	
7,000.00	6,932.09	6,966.18	6,949.09	18.42	16.53	178.88	-1.00	-206.00	931.93	900.08	31.85	29.259	
7,100.00	7,027.54	7,061.63	7,044.54	18.78	16.67	178.91	-1.00	-206.00	961.74	929.53	32.21	29.863	
7,200.00	7,122.99	7,157.08	7,139.99	19.16	16.83	178.94	-1.00	-206.00	991.55	958.97	32.57	30.441	
7,300.00	7,218.44	7,252.53	7,235.44	19.55	16.99	178.97	-1.00	-206.00	1,021.36	988.40	32.95	30.994	
7,400.00	7,313.89	7,347.99	7,330.89	19.94	17.15	179.00	-1.00	-206.00	1,051.17	1,017.82	33.35	31.523	
7,500.00	7,409.35	7,443.44	7,426.35	20.35	17.32	179.03	-1.00	-206.00	1,080.98	1,047.23	33.75	32.029	
7,600.00	7,504.80	7,538.89	7,521.80	20.76	17.50	179.06	-1.00	-206.00	1,110.79	1,076.62	34.17	32.511	
7,700.00	7,600.25	7,634.34	7,617.25	21.18	17.68	179.08	-1.00	-206.00	1,140.60	1,106.01	34.59	32.971	
7,741.71	7,640.08	7,674.16	7,657.06	21.35	17.75	179.09	-1.00	-206.00	1,153.04	1,118.26	34.78	33.156	
7,800.00	7,695.83	7,729.92	7,712.83	21.60	17.86	179.11	-1.00	-206.00	1,169.99	1,134.96	35.03	33.398	
7,900.00	7,792.09	7,826.18	7,809.09	22.00	18.05	179.13	-1.00	-206.00	1,197.08	1,161.60	35.48	33.743	
8,000.00	7,889.02	7,923.11	7,906.02	22.39	18.25	179.16	-1.00	-206.00	1,221.64	1,185.72	35.93	34.001	
8,100.00	7,986.56	8,020.65	8,003.56	22.76	18.45	179.18	-1.00	-206.00	1,243.66	1,207.27	36.39	34.177	
8,200.00	8,084.65	8,118.74	8,101.65	23.10	18.66	179.19	-1.00	-206.00	1,263.12	1,226.27	36.85	34.274	
8,300.00	8,183.21	8,217.30	8,200.21	23.43	18.87	179.21	-1.00	-206.00	1,280.01	1,242.68	37.32	34.294	
8,400.00	8,282.18	8,316.27	8,299.18	23.73	19.09	179.22	-1.00	-206.00	1,294.31	1,256.51	37.80	34.243	
8,500.00	8,381.49	8,415.58	8,398.49	24.02	19.31	179.23	-1.00	-206.00	1,306.01	1,267.74	38.27	34.122	
8,600.00	8,481.07	8,515.16	8,498.07	24.28	19.54	179.24	-1.00	-206.00	1,315.11	1,276.36	38.75	33.935	
8,700.00	8,580.86	8,614.95	8,597.86	24.53	19.77	179.24	-1.00	-206.00	1,321.60	1,282.37	39.23	33.684	
8,800.00	8,680.78	8,714.87	8,697.78	24.75	20.01	179.24	-1.00	-206.00	1,325.48	1,285.76	39.72	33.374	
8,898.13	8,778.90	8,812.99	8,795.90	24.95	20.24	-86.15	-1.00	-206.00	1,326.74	1,286.56	40.18	33.018	
8,900.00	8,780.77	8,814.86	8,797.77	24.96	20.25	-86.15	-1.00	-206.00	1,326.74	1,286.55	40.19	33.010	
9,000.00	8,880.77	8,914.86	8,897.77	25.15	20.49	-86.15	-1.00	-206.00	1,326.74	1,286.07	40.66	32.627	
9,100.00	8,980.77	9,014.86	8,997.77	25.34	20.74	-86.15	-1.00	-206.00	1,326.74	1,285.59	41.14	32.246	
9,200.00	9,080.77	9,114.86	9,097.77	25.54	20.99	-86.15	-1.00	-206.00	1,326.74	1,285.11	41.63	31.870	
9,300.00	9,180.77	9,214.86	9,197.77	25.75	21.24	-86.15	-1.00	-206.00	1,326.74	1,284.62	42.12	31.497	
9,400.00	9,280.77	9,314.86	9,297.77	25.95	21.50	-86.15	-1.00	-206.00	1,326.74	1,284.12	42.62	31.128	
9,500.00	9,380.77	9,414.86	9,397.77	26.16	21.75	-86.15	-1.00	-206.00	1,326.74	1,283.61	43.13	30.763	
9,600.00	9,480.77	9,514.86	9,497.77	26.38	22.02	-86.15	-1.00	-206.00	1,326.74	1,283.10	43.64	30.402	
9,700.00	9,580.77	9,614.86	9,597.77	26.59	22.28	-86.15	-1.00	-206.00	1,326.74	1,282.58	44.16	30.046	
9,800.00	9,680.77	9,714.86	9,697.77	26.81	22.55	-86.15	-1.00	-206.00	1,326.74	1,282.06	44.68	29.695	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 123H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,814.86	9,797.77	27.03	22.82	-86.15	-1.00	-206.00	1,326.74	1,281.53	45.21	29.348	
10,000.00	9,880.77	9,914.86	9,897.77	27.26	23.09	-86.15	-1.00	-206.00	1,326.74	1,281.00	45.74	29.006	
10,100.00	9,980.77	10,014.86	9,997.77	27.49	23.36	-86.15	-1.00	-206.00	1,326.74	1,280.46	46.28	28.669	
10,200.00	10,080.77	10,114.86	10,097.77	27.72	23.64	-86.15	-1.00	-206.00	1,326.74	1,279.92	46.82	28.337	
10,300.00	10,180.77	10,214.86	10,197.77	27.95	23.92	-86.15	-1.00	-206.00	1,326.74	1,279.37	47.37	28.009	
10,400.00	10,280.77	10,314.86	10,297.77	28.19	24.20	-86.15	-1.00	-206.00	1,326.74	1,278.82	47.92	27.687	
10,406.88	10,287.65	10,321.74	10,304.65	28.20	24.22	-86.15	-1.00	-206.00	1,326.74	1,278.78	47.96	27.665	
10,500.00	10,380.77	10,411.44	10,394.34	28.43	24.47	-86.14	-0.67	-206.00	1,326.77	1,278.31	48.46	27.378	
10,600.00	10,480.77	10,495.31	10,477.66	28.67	24.71	-85.75	8.26	-206.09	1,327.63	1,278.68	48.95	27.121	
10,700.00	10,580.77	10,574.96	10,554.78	28.91	24.93	-84.91	27.92	-206.27	1,329.95	1,280.53	49.42	26.912	
10,800.00	10,680.77	10,647.94	10,622.44	29.16	25.12	-83.74	55.16	-206.52	1,334.33	1,284.48	49.85	26.765	
10,900.00	10,780.77	10,713.03	10,679.42	29.40	25.29	-82.41	86.53	-206.81	1,341.50	1,291.25	50.25	26.698	
11,000.00	10,880.77	10,770.03	10,726.13	29.65	25.42	-81.03	119.16	-207.11	1,352.20	1,301.61	50.60	26.726	
11,100.00	10,980.77	10,819.42	10,763.81	29.91	25.54	-79.69	151.07	-207.40	1,367.07	1,316.18	50.89	26.862	
11,200.00	11,080.77	10,862.05	10,794.02	30.16	25.64	-78.44	181.13	-207.68	1,386.56	1,335.42	51.14	27.115	
11,300.00	11,180.77	10,900.00	10,818.97	30.42	25.74	-77.26	209.72	-207.94	1,410.95	1,359.61	51.34	27.485	
11,400.00	11,280.77	10,930.61	10,837.68	30.68	25.81	-76.27	233.94	-208.17	1,440.37	1,388.90	51.47	27.982	
11,500.00	11,380.77	10,950.00	10,848.85	30.94	25.86	-75.63	249.79	-208.31	1,474.86	1,423.33	51.53	28.623	
11,600.00	11,480.77	10,982.30	10,866.25	31.20	25.94	-74.53	276.99	-208.56	1,514.14	1,462.48	51.66	29.311	
11,635.13	11,515.90	11,000.00	10,875.12	31.29	25.99	-73.92	292.31	-208.70	1,529.15	1,477.41	51.75	29.552	
11,650.00	11,530.77	11,000.00	10,875.12	31.33	25.99	-72.70	292.31	-208.70	1,535.56	1,483.82	51.73	29.683	
11,700.00	11,580.63	11,000.00	10,875.12	31.46	25.99	-70.43	292.31	-208.70	1,557.17	1,505.48	51.69	30.127	
11,750.00	11,630.00	11,016.94	10,883.17	31.59	26.04	-67.71	307.21	-208.84	1,578.54	1,526.79	51.74	30.507	
11,800.00	11,678.50	11,029.84	10,889.00	31.71	26.08	-65.24	318.71	-208.95	1,599.48	1,547.71	51.77	30.896	
11,850.00	11,725.77	11,050.00	10,897.59	31.83	26.14	-62.75	336.95	-209.12	1,619.81	1,567.97	51.84	31.249	
11,900.00	11,771.43	11,050.00	10,897.59	31.94	26.14	-60.88	336.95	-209.12	1,639.27	1,587.50	51.77	31.664	
11,950.00	11,815.16	11,071.77	10,906.14	32.05	26.21	-58.72	356.97	-209.30	1,657.69	1,605.85	51.84	31.978	
12,000.00	11,856.60	11,100.00	10,916.08	32.14	26.30	-56.67	383.39	-209.54	1,675.15	1,623.21	51.94	32.252	
12,050.00	11,895.45	11,100.00	10,916.08	32.23	26.30	-55.29	383.39	-209.54	1,691.01	1,639.15	51.87	32.601	
12,100.00	11,931.42	11,117.26	10,921.52	32.31	26.36	-53.81	399.77	-209.69	1,705.60	1,653.70	51.90	32.862	
12,150.00	11,964.22	11,132.99	10,926.04	32.38	26.41	-52.55	414.83	-209.83	1,718.66	1,666.74	51.93	33.098	
12,200.00	11,993.61	11,150.00	10,930.46	32.44	26.47	-51.46	431.26	-209.98	1,730.10	1,678.14	51.96	33.297	
12,250.00	12,019.36	11,165.03	10,933.96	32.50	26.52	-50.57	445.88	-210.12	1,739.81	1,687.82	51.99	33.466	
12,300.00	12,041.28	11,181.28	10,937.31	32.56	26.58	-49.86	461.78	-210.27	1,747.75	1,695.72	52.03	33.592	
12,350.00	12,059.21	11,200.00	10,940.61	32.61	26.65	-49.30	480.20	-210.44	1,753.85	1,701.76	52.09	33.671	
12,400.00	12,073.00	11,200.00	10,940.61	37.58	26.65	-48.97	480.20	-210.44	1,758.24	1,706.62	51.62	34.062	
12,435.13	12,080.15	11,225.66	10,944.15	37.61	26.75	-48.78	505.61	-210.67	1,759.89	1,708.19	51.70	34.039	
12,460.13	12,084.49	11,233.90	10,945.04	37.64	26.79	-48.76	513.81	-210.75	1,760.97	1,709.27	51.70	34.062	
12,500.00	12,090.60	11,250.00	10,946.45	37.68	26.85	-48.67	529.84	-210.89	1,762.64	1,710.92	51.72	34.080	
12,550.00	12,095.92	11,263.49	10,947.28	37.73	26.90	-48.59	543.30	-211.02	1,764.02	1,712.30	51.73	34.103	
12,600.00	12,098.63	11,292.13	10,948.00	37.79	27.02	-48.55	571.93	-211.28	1,764.76	1,712.92	51.84	34.040	
12,626.80	12,099.00	11,292.13	10,948.00	37.82	27.02	-48.55	571.93	-211.28	1,764.65	1,712.82	51.83	34.049	
12,656.11	12,099.00	11,311.19	10,948.00	37.85	27.10	-48.55	590.99	-211.46	1,764.61	1,712.68	51.93	33.980	
12,700.00	12,099.00	11,355.09	10,948.00	37.91	27.30	-48.55	634.88	-211.86	1,764.61	1,712.43	52.18	33.816	
12,800.00	12,099.00	11,455.09	10,948.00	38.06	27.80	-48.55	734.88	-212.78	1,764.60	1,711.77	52.83	33.402	
12,900.00	12,099.00	11,555.09	10,948.00	38.23	28.36	-48.55	834.87	-213.70	1,764.59	1,711.01	53.57	32.937	
13,000.00	12,099.00	11,655.09	10,948.00	38.42	28.98	-48.55	934.87	-214.63	1,764.57	1,710.16	54.42	32.428	
13,100.00	12,099.00	11,755.09	10,948.00	38.64	29.65	-48.55	1,034.87	-215.55	1,764.56	1,709.22	55.35	31.881	
13,200.00	12,099.00	11,855.09	10,948.00	38.90	30.39	-48.55	1,134.86	-216.47	1,764.55	1,708.19	56.37	31.305	
13,300.00	12,099.00	11,955.09	10,948.00	39.20	31.17	-48.55	1,234.86	-217.39	1,764.54	1,707.07	57.47	30.705	
13,400.00	12,099.00	12,055.09	10,948.00	39.55	31.99	-48.55	1,334.85	-218.31	1,764.53	1,705.88	58.65	30.088	
13,500.00	12,099.00	12,155.09	10,948.00	39.95	32.86	-48.55	1,434.85	-219.23	1,764.52	1,704.62	59.90	29.459	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 123H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	12,099.00	12,255.09	10,948.00	40.40	33.77	-48.55	1,534.84	-220.16	1,764.51	1,703.29	61.22	28.824	
13,700.00	12,099.00	12,355.09	10,948.00	40.92	34.71	-48.55	1,634.84	-221.08	1,764.49	1,701.89	62.60	28.187	
13,800.00	12,099.00	12,455.09	10,948.00	41.51	35.69	-48.55	1,734.84	-222.00	1,764.48	1,700.44	64.04	27.551	
13,900.00	12,099.00	12,555.09	10,948.00	42.15	36.70	-48.55	1,834.83	-222.92	1,764.47	1,698.93	65.54	26.921	
14,000.00	12,099.00	12,655.09	10,948.00	42.85	37.74	-48.55	1,934.83	-223.84	1,764.46	1,697.37	67.09	26.298	
14,100.00	12,099.00	12,755.09	10,948.00	43.62	38.80	-48.55	2,034.82	-224.77	1,764.45	1,695.75	68.69	25.685	
14,200.00	12,099.00	12,855.09	10,948.00	44.43	39.89	-48.55	2,134.82	-225.69	1,764.44	1,694.10	70.34	25.084	
14,300.00	12,099.00	12,955.09	10,948.00	45.29	40.99	-48.55	2,234.82	-226.61	1,764.43	1,692.40	72.03	24.497	
14,400.00	12,099.00	13,055.09	10,948.00	46.20	42.12	-48.55	2,334.81	-227.53	1,764.41	1,690.66	73.75	23.923	
14,500.00	12,099.00	13,155.09	10,948.00	47.14	43.27	-48.55	2,434.81	-228.45	1,764.40	1,688.89	75.52	23.364	
14,600.00	12,099.00	13,255.09	10,948.00	48.12	44.44	-48.55	2,534.80	-229.37	1,764.39	1,687.08	77.32	22.821	
14,700.00	12,099.00	13,355.09	10,948.00	49.13	45.62	-48.55	2,634.80	-230.30	1,764.38	1,685.24	79.14	22.293	
14,800.00	12,099.00	13,455.09	10,948.00	50.17	46.81	-48.55	2,734.79	-231.22	1,764.37	1,683.36	81.00	21.781	
14,900.00	12,099.00	13,555.09	10,948.00	51.23	48.02	-48.55	2,834.79	-232.14	1,764.36	1,681.47	82.89	21.285	
15,000.00	12,099.00	13,655.09	10,948.00	52.32	49.24	-48.55	2,934.79	-233.06	1,764.35	1,679.54	84.80	20.805	
15,100.00	12,099.00	13,755.09	10,948.00	53.43	50.47	-48.55	3,034.78	-233.98	1,764.33	1,677.59	86.74	20.341	
15,200.00	12,099.00	13,855.09	10,948.00	54.55	51.72	-48.55	3,134.78	-234.90	1,764.32	1,675.62	88.70	19.891	
15,300.00	12,099.00	13,955.09	10,948.00	55.70	52.97	-48.55	3,234.77	-235.83	1,764.31	1,673.63	90.68	19.457	
15,400.00	12,099.00	14,055.09	10,948.00	56.86	54.24	-48.55	3,334.77	-236.75	1,764.30	1,671.62	92.68	19.037	
15,500.00	12,099.00	14,155.09	10,948.00	58.03	55.51	-48.55	3,434.76	-237.67	1,764.29	1,669.59	94.70	18.631	
15,600.00	12,099.00	14,255.09	10,948.00	59.22	56.79	-48.55	3,534.76	-238.59	1,764.28	1,667.54	96.73	18.239	
15,700.00	12,099.00	14,355.09	10,948.00	60.43	58.08	-48.54	3,634.76	-239.51	1,764.27	1,665.48	98.78	17.860	
15,800.00	12,099.00	14,455.09	10,948.00	61.64	59.37	-48.54	3,734.75	-240.43	1,764.25	1,663.40	100.85	17.494	
15,900.00	12,099.00	14,555.09	10,948.00	62.86	60.67	-48.54	3,834.75	-241.36	1,764.24	1,661.31	102.93	17.140	
16,000.00	12,099.00	14,655.09	10,948.00	64.10	61.98	-48.54	3,934.74	-242.28	1,764.23	1,659.20	105.03	16.798	
16,100.00	12,099.00	14,755.09	10,948.00	65.34	63.30	-48.54	4,034.74	-243.20	1,764.22	1,657.08	107.13	16.467	
16,200.00	12,099.00	14,855.09	10,948.00	66.59	64.62	-48.54	4,134.73	-244.12	1,764.21	1,654.95	109.25	16.148	
16,300.00	12,099.00	14,955.09	10,948.00	67.85	65.94	-48.54	4,234.73	-245.04	1,764.20	1,652.81	111.38	15.839	
16,400.00	12,099.00	15,055.09	10,948.00	69.12	67.27	-48.54	4,334.73	-245.96	1,764.18	1,650.66	113.53	15.540	
16,500.00	12,099.00	15,155.09	10,948.00	70.40	68.60	-48.54	4,434.72	-246.89	1,764.17	1,648.50	115.68	15.251	
16,600.00	12,099.00	15,255.09	10,948.00	71.68	69.94	-48.54	4,534.72	-247.81	1,764.16	1,646.32	117.84	14.971	
16,700.00	12,099.00	15,355.09	10,948.00	72.97	71.28	-48.54	4,634.71	-248.73	1,764.15	1,644.14	120.01	14.700	
16,800.00	12,099.00	15,455.09	10,948.00	74.27	72.63	-48.54	4,734.71	-249.65	1,764.14	1,641.95	122.19	14.438	
16,900.00	12,099.00	15,555.09	10,948.00	75.57	73.98	-48.54	4,834.70	-250.57	1,764.13	1,639.75	124.37	14.184	
16,949.11	12,099.00	15,604.20	10,948.00	76.21	74.64	-48.54	4,883.81	-251.03	1,764.12	1,638.67	125.45	14.062 SF	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 124H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.00	90.00	0.00	30.00	30.00				
100.00	100.00	102.00	102.00	0.13	0.13	90.00	0.00	30.00	30.00	29.74	0.26	114.642	
200.00	200.00	202.00	202.00	0.49	0.49	90.00	0.00	30.00	30.00	29.02	0.98	30.655	
300.00	300.00	302.00	302.00	0.84	0.85	90.00	0.00	30.00	30.00	28.30	1.70	17.693	
400.00	400.00	402.00	402.00	1.20	1.21	90.00	0.00	30.00	30.00	27.59	2.41	12.435	
500.00	500.00	502.00	502.00	1.56	1.57	90.00	0.00	30.00	30.00	26.87	3.13	9.586	
600.00	600.00	602.00	602.00	1.92	1.93	90.00	0.00	30.00	30.00	26.15	3.85	7.800	
700.00	700.00	702.00	702.00	2.28	2.29	90.00	0.00	30.00	30.00	25.44	4.56	6.574	
800.00	800.00	802.00	802.00	2.64	2.64	90.00	0.00	30.00	30.00	24.72	5.28	5.682	
900.00	900.00	902.00	902.00	3.00	3.00	90.00	0.00	30.00	30.00	24.00	6.00	5.002	
1,000.00	1,000.00	1,002.00	1,002.00	3.35	3.36	90.00	0.00	30.00	30.00	23.29	6.71	4.468	
1,100.00	1,100.00	1,102.00	1,102.00	3.71	3.72	90.00	0.00	30.00	30.00	22.57	7.43	4.037	
1,200.00	1,200.00	1,202.00	1,202.00	4.07	4.07	90.00	0.00	30.00	30.00	21.86	8.14	3.683	
1,300.00	1,300.00	1,302.00	1,302.00	4.25	4.26	90.00	0.00	30.00	30.00	21.49	8.51	3.525	CC, ES
1,400.00	1,400.00	1,401.46	1,401.45	4.28	4.28	89.96	0.02	30.90	30.90	22.34	8.57	3.608	
1,500.00	1,500.00	1,500.87	1,500.82	4.34	4.34	89.86	0.08	33.52	33.54	24.86	8.68	3.864	
1,600.00	1,599.99	1,600.19	1,600.06	4.43	4.43	-5.00	0.18	37.86	37.04	28.19	8.85	4.186	
1,700.00	1,699.98	1,699.46	1,699.14	4.54	4.54	-5.46	0.32	43.92	40.54	31.48	9.06	4.473	
1,800.00	1,799.86	1,801.35	1,798.03	4.68	4.69	-6.07	0.50	51.68	44.04	34.70	9.33	4.719	
1,900.00	1,899.68	1,901.38	1,897.61	4.84	4.86	-6.84	0.71	60.39	46.69	37.04	9.65	4.837	
2,000.00	1,999.37	2,001.39	1,997.22	5.02	5.05	-7.79	0.91	69.10	47.63	37.61	10.02	4.754	
2,100.00	2,098.99	2,101.40	2,096.83	5.22	5.26	-8.88	1.11	77.81	47.71	37.29	10.42	4.579	
2,200.00	2,198.60	2,201.40	2,196.45	5.45	5.49	-9.95	1.31	86.53	47.81	36.95	10.86	4.404	
2,300.00	2,298.22	2,301.41	2,296.06	5.69	5.74	-11.02	1.51	95.24	47.93	36.61	11.32	4.232	
2,400.00	2,397.84	2,401.41	2,395.68	5.94	6.00	-12.09	1.72	103.95	48.06	36.25	11.82	4.067	
2,500.00	2,497.46	2,501.41	2,495.29	6.21	6.27	-13.15	1.92	112.67	48.22	35.88	12.34	3.908	
2,600.00	2,597.08	2,601.42	2,594.91	6.49	6.55	-14.20	2.12	121.38	48.38	35.51	12.88	3.757	
2,700.00	2,696.70	2,701.42	2,694.52	6.78	6.84	-15.25	2.32	130.09	48.57	35.13	13.44	3.615	
2,800.00	2,796.32	2,801.43	2,794.14	7.07	7.14	-16.28	2.53	138.80	48.77	34.76	14.01	3.481	
2,900.00	2,895.94	2,901.43	2,893.76	7.38	7.45	-17.31	2.73	147.52	48.98	34.38	14.60	3.355	
3,000.00	2,995.56	2,998.57	2,993.37	7.69	7.75	-18.33	2.93	156.23	49.22	34.02	15.19	3.239	
3,100.00	3,095.18	3,101.44	3,092.99	8.00	8.08	-19.34	3.13	164.94	49.46	33.65	15.82	3.127	
3,200.00	3,194.80	3,201.44	3,192.60	8.32	8.40	-20.34	3.34	173.66	49.73	33.28	16.44	3.024	
3,300.00	3,294.42	3,301.45	3,292.22	8.65	8.73	-21.32	3.54	182.37	50.00	32.93	17.08	2.928	
3,400.00	3,394.04	3,401.45	3,391.83	8.98	9.06	-22.30	3.74	191.08	50.29	32.57	17.72	2.838	
3,500.00	3,493.66	3,501.45	3,491.45	9.31	9.40	-23.27	3.94	199.80	50.60	32.23	18.37	2.754	
3,600.00	3,593.28	3,601.46	3,591.06	9.65	9.73	-24.22	4.14	208.51	50.92	31.89	19.03	2.676	
3,700.00	3,692.90	3,701.46	3,690.68	9.99	10.08	-25.16	4.35	217.22	51.26	31.56	19.70	2.602	
3,800.00	3,792.52	3,801.47	3,790.29	10.33	10.42	-26.09	4.55	225.93	51.60	31.24	20.37	2.534	
3,900.00	3,892.14	3,901.47	3,889.91	10.68	10.76	-27.00	4.75	234.65	51.97	30.92	21.04	2.470	
4,000.00	3,991.76	4,001.47	3,989.53	11.02	11.11	-27.91	4.95	243.36	52.34	30.62	21.72	2.409	
4,100.00	4,091.37	4,098.52	4,089.14	11.37	11.45	-28.80	5.16	252.07	52.73	30.33	22.40	2.354	
4,200.00	4,190.99	4,198.52	4,188.76	11.72	11.80	-29.67	5.36	260.79	53.13	30.04	23.09	2.301	
4,300.00	4,290.61	4,301.49	4,288.37	12.07	12.17	-30.54	5.56	269.50	53.54	29.75	23.79	2.250	
4,400.00	4,390.23	4,401.49	4,387.99	12.43	12.52	-31.39	5.76	278.21	53.96	29.47	24.49	2.203	
4,500.00	4,489.85	4,501.49	4,487.60	12.78	12.88	-32.22	5.97	286.92	54.40	29.21	25.19	2.159	
4,600.00	4,589.47	4,601.50	4,587.22	13.14	13.23	-33.05	6.17	295.64	54.85	28.95	25.90	2.118	
4,700.00	4,689.09	4,701.50	4,686.83	13.50	13.59	-33.86	6.37	304.35	55.30	28.70	26.60	2.079	
4,800.00	4,788.71	4,798.49	4,786.45	13.86	13.94	-34.65	6.57	313.06	55.77	28.47	27.30	2.043	
4,900.00	4,888.33	4,901.51	4,886.06	14.22	14.31	-35.43	6.77	321.78	56.25	28.23	28.02	2.007	
5,000.00	4,987.95	5,001.52	4,985.68	14.41	14.50	-36.20	6.98	330.49	56.74	28.35	28.39	1.998	SF
5,100.00	5,087.57	5,098.48	5,085.29	14.44	14.53	-36.96	7.18	339.20	57.24	28.80	28.44	2.013	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 124H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,112.48	5,100.00	5,110.96	5,097.73	14.45	14.54	-37.05	7.20	340.29	57.31	28.86	28.45	2.015	
5,200.00	5,187.13	5,197.75	5,184.13	14.49	14.58	-37.77	7.39	348.47	57.76	29.26	28.50	2.027	
5,300.00	5,286.51	5,296.90	5,282.67	14.55	14.64	-38.71	7.65	359.42	58.37	29.79	28.58	2.042	
5,400.00	5,385.68	5,396.04	5,381.00	14.63	14.72	-39.78	7.94	372.07	59.10	30.40	28.70	2.059	
5,500.00	5,484.61	5,495.18	5,479.09	14.72	14.81	-40.96	8.27	386.42	59.94	31.10	28.83	2.079	
5,600.00	5,583.27	5,594.32	5,576.92	14.83	14.93	-42.25	8.64	402.46	60.90	31.90	29.00	2.100	
5,700.00	5,681.64	5,693.45	5,674.46	14.96	15.06	-43.62	9.05	420.19	62.00	32.80	29.20	2.123	
5,800.00	5,779.67	5,792.59	5,771.67	15.11	15.20	-45.08	9.49	439.60	63.25	33.81	29.44	2.148	
5,900.00	5,877.35	5,891.72	5,868.52	15.28	15.37	-46.59	9.97	460.70	64.64	34.92	29.72	2.175	
6,000.00	5,974.63	5,990.84	5,965.00	15.47	15.56	-48.15	10.50	483.46	66.19	36.15	30.03	2.204	
6,100.00	6,071.50	6,089.96	6,061.06	15.68	15.77	-49.75	11.06	507.89	67.90	37.50	30.40	2.234	
6,200.00	6,167.92	6,189.23	6,156.83	15.91	16.00	-51.38	11.65	533.99	69.77	38.95	30.82	2.264	
6,300.00	6,263.86	6,289.18	6,253.10	16.17	16.25	-53.72	12.27	560.84	71.05	39.70	31.34	2.267	
6,347.11	6,308.89	6,336.25	6,298.45	16.30	16.37	-55.19	12.56	573.49	71.34	39.72	31.63	2.256	
6,400.00	6,359.37	6,389.09	6,349.34	16.45	16.51	-56.97	12.88	587.68	71.61	39.65	31.96	2.241	
6,500.00	6,454.83	6,489.00	6,445.58	16.75	16.78	-60.29	13.50	614.52	72.31	39.68	32.63	2.216	
6,600.00	6,550.28	6,588.91	6,541.81	17.05	17.07	-63.54	14.11	641.36	73.24	39.91	33.33	2.197	
6,700.00	6,645.73	6,688.82	6,638.05	17.38	17.37	-66.70	14.73	668.20	74.40	40.34	34.07	2.184	
6,800.00	6,741.18	6,788.73	6,734.29	17.71	17.68	-69.75	15.34	695.04	75.79	40.98	34.82	2.176	
6,900.00	6,836.63	6,888.64	6,830.52	18.06	18.00	-72.69	15.95	721.88	77.38	41.78	35.60	2.174	
7,000.00	6,932.09	6,988.55	6,926.76	18.42	18.33	-75.50	16.57	748.72	79.16	42.78	36.38	2.176	
7,100.00	7,027.54	7,088.46	7,022.99	18.78	18.67	-78.18	17.18	775.56	81.13	43.95	37.18	2.182	
7,200.00	7,122.99	7,188.37	7,119.23	19.16	19.01	-80.73	17.80	802.40	83.27	45.28	37.98	2.192	
7,300.00	7,218.44	7,288.29	7,215.46	19.55	19.37	-83.14	18.41	829.24	85.56	46.77	38.79	2.206	
7,400.00	7,313.89	7,388.20	7,311.70	19.94	19.73	-85.43	19.03	856.08	88.00	48.40	39.60	2.222	
7,500.00	7,409.35	7,488.11	7,407.94	20.35	20.10	-87.59	19.64	882.92	90.56	50.16	40.40	2.241	
7,600.00	7,504.80	7,588.02	7,504.17	20.76	20.48	-89.63	20.26	909.76	93.26	52.04	41.21	2.263	
7,700.00	7,600.25	7,687.93	7,600.41	21.18	20.86	-91.55	20.87	936.60	96.06	54.04	42.02	2.286	
7,741.71	7,640.06	7,729.60	7,640.55	21.35	21.03	-92.32	21.13	947.80	97.26	54.90	42.36	2.296	
7,800.00	7,695.83	7,787.85	7,696.65	21.60	21.25	-93.13	21.48	963.45	98.94	56.11	42.82	2.310	
7,900.00	7,792.09	7,887.86	7,793.08	22.00	21.65	-93.49	22.09	989.98	101.71	58.09	43.62	2.332	
8,000.00	7,889.02	7,987.93	7,890.14	22.39	22.02	-93.66	22.65	1,014.30	104.23	59.85	44.38	2.348	
8,100.00	7,986.56	8,088.00	7,987.82	22.76	22.38	-93.82	23.15	1,036.07	106.49	61.38	45.11	2.361	
8,200.00	8,084.65	8,188.08	8,086.02	23.10	22.73	-93.98	23.59	1,055.27	108.49	62.70	45.79	2.369	
8,300.00	8,183.21	8,288.15	8,184.70	23.43	23.05	-94.13	23.97	1,071.90	110.22	63.78	46.44	2.374	
8,400.00	8,282.18	8,388.22	8,283.78	23.73	23.35	-94.28	24.29	1,085.93	111.69	64.65	47.04	2.374	
8,500.00	8,381.49	8,488.29	8,383.20	24.02	23.63	-94.42	24.55	1,097.37	112.89	65.28	47.61	2.371	
8,600.00	8,481.07	8,588.36	8,482.87	24.28	23.89	-94.56	24.75	1,106.19	113.82	65.69	48.13	2.365	
8,700.00	8,580.86	8,688.42	8,582.74	24.53	24.14	-94.70	24.89	1,112.41	114.48	65.86	48.62	2.355	
8,800.00	8,680.78	8,788.48	8,682.73	24.75	24.36	-94.84	24.98	1,116.00	114.88	65.81	49.07	2.341	
8,898.13	8,778.90	8,886.66	8,780.90	24.95	24.56	-0.37	25.00	1,117.00	115.00	65.54	49.47	2.325	
8,900.00	8,780.77	8,888.53	8,782.77	24.96	24.57	-0.37	25.00	1,117.00	115.00	65.53	49.47	2.325	
9,000.00	8,880.77	8,988.53	8,882.77	25.15	24.77	-0.37	25.00	1,117.00	115.00	65.14	49.86	2.306	
9,100.00	8,980.77	9,088.53	8,982.77	25.34	24.97	-0.37	25.00	1,117.00	115.00	64.74	50.26	2.288	
9,200.00	9,080.77	9,188.53	9,082.77	25.54	25.17	-0.37	25.00	1,117.00	115.00	64.34	50.66	2.270	
9,300.00	9,180.77	9,288.53	9,182.77	25.75	25.38	-0.37	25.00	1,117.00	115.00	63.93	51.07	2.252	
9,400.00	9,280.77	9,388.53	9,282.77	25.95	25.59	-0.37	25.00	1,117.00	115.00	63.51	51.49	2.233	
9,500.00	9,380.77	9,488.53	9,382.77	26.16	25.80	-0.37	25.00	1,117.00	115.00	63.09	51.91	2.215	
9,600.00	9,480.77	9,588.53	9,482.77	26.38	26.02	-0.37	25.00	1,117.00	115.00	62.66	52.34	2.197	
9,700.00	9,580.77	9,688.53	9,582.77	26.59	26.24	-0.37	25.00	1,117.00	115.00	62.22	52.78	2.179	
9,800.00	9,680.77	9,788.53	9,682.77	26.81	26.46	-0.37	25.00	1,117.00	115.00	61.78	53.22	2.161	
9,900.00	9,780.77	9,888.53	9,782.77	27.03	26.69	-0.37	25.00	1,117.00	115.00	61.33	53.67	2.143	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	*Nina Cortell Fed Com*	***MD Reference:***	*Well @ 3818.00usft*
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 124H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,880.77	9,988.53	9,882.77	27.26	26.91	-0.37	25.00	1,117.00	115.00	60.88	54.13	2.125	
10,100.00	9,980.77	10,088.53	9,982.77	27.49	27.15	-0.37	25.00	1,117.00	115.00	60.42	54.59	2.107	
10,200.00	10,080.77	10,188.53	10,082.77	27.72	27.38	-0.37	25.00	1,117.00	115.00	59.95	55.05	2.089	
10,300.00	10,180.77	10,288.53	10,182.77	27.95	27.62	-0.37	25.00	1,117.00	115.00	59.48	55.52	2.071	
10,400.00	10,280.77	10,388.53	10,282.77	28.19	27.86	-0.37	25.00	1,117.00	115.00	59.00	56.00	2.054	
10,500.00	10,380.77	10,488.53	10,382.77	28.43	28.10	-0.37	25.00	1,117.00	115.00	58.52	56.48	2.036	
10,600.00	10,480.77	10,575.26	10,469.36	28.67	28.31	-0.38	28.62	1,116.97	119.38	62.61	56.77	2.103	
10,700.00	10,580.77	10,655.65	10,548.35	28.91	28.51	-0.40	43.21	1,116.83	137.59	81.04	56.55	2.433	
10,800.00	10,680.77	10,730.64	10,619.52	29.16	28.68	-0.42	66.66	1,116.61	166.95	113.01	55.94	3.020	
10,900.00	10,780.77	10,800.00	10,682.12	29.40	28.84	-0.44	96.45	1,116.33	211.89	156.70	55.19	3.839	
11,000.00	10,880.77	10,858.57	10,731.84	29.65	28.97	-0.45	127.34	1,116.03	264.61	210.40	54.20	4.882	
11,100.00	10,980.77	10,911.03	10,773.50	29.91	29.07	-0.46	159.19	1,115.73	325.41	272.06	53.34	6.100	
11,200.00	11,080.77	10,950.00	10,802.47	30.16	29.15	-0.47	185.24	1,115.49	392.85	340.51	52.34	7.506	
11,300.00	11,180.77	11,000.00	10,836.93	30.42	29.24	-0.48	221.45	1,115.14	465.41	413.31	52.10	8.932	
11,400.00	11,280.77	11,029.91	10,855.99	30.68	29.30	-0.48	244.50	1,114.93	542.25	490.78	51.47	10.534	
11,500.00	11,380.77	11,050.00	10,868.10	30.94	29.33	-0.49	260.52	1,114.78	622.70	571.82	50.88	12.239	
11,600.00	11,480.77	11,085.28	10,887.99	31.20	29.39	-0.49	289.66	1,114.50	705.63	654.78	50.85	13.877	
11,635.13	11,515.90	11,100.00	10,895.75	31.29	29.42	-0.49	302.16	1,114.38	735.44	684.53	50.91	14.445	
11,650.00	11,530.77	11,100.00	10,895.75	31.33	29.42	0.05	302.16	1,114.38	747.96	697.14	50.82	14.719	
11,700.00	11,580.63	11,100.00	10,895.75	31.46	29.42	0.04	302.16	1,114.38	789.14	738.65	50.49	15.630	
11,750.00	11,630.00	11,122.10	10,906.79	31.59	29.46	0.04	321.31	1,114.20	828.13	777.59	50.54	16.385	
11,800.00	11,678.50	11,135.65	10,913.19	31.71	29.48	0.03	333.24	1,114.09	865.18	814.75	50.42	17.158	
11,850.00	11,725.77	11,150.00	10,919.66	31.83	29.51	0.03	346.06	1,113.97	900.03	849.73	50.30	17.892	
11,900.00	11,771.43	11,164.34	10,925.80	31.94	29.53	0.03	359.02	1,113.85	932.59	882.41	50.17	18.588	
11,950.00	11,815.16	11,179.36	10,931.89	32.05	29.56	0.02	372.75	1,113.72	962.75	912.71	50.04	19.239	
12,000.00	11,856.60	11,200.00	10,939.66	32.14	29.60	0.02	391.86	1,113.54	990.48	940.50	49.98	19.818	
12,050.00	11,895.45	11,200.00	10,939.66	32.23	29.60	0.02	391.86	1,113.54	1,015.73	966.06	49.67	20.448	
12,100.00	11,931.42	11,226.44	10,948.59	32.31	29.65	0.02	416.74	1,113.30	1,038.11	988.43	49.67	20.899	
12,150.00	11,964.22	11,250.00	10,955.58	32.38	29.70	0.02	439.24	1,113.09	1,058.02	1,008.39	49.63	21.316	
12,200.00	11,993.61	11,250.00	10,955.58	32.44	29.70	0.02	439.24	1,113.09	1,075.17	1,025.79	49.39	21.771	
12,250.00	12,019.36	11,275.64	10,962.13	32.50	29.75	0.02	464.03	1,112.85	1,089.40	1,040.02	49.38	22.062	
12,300.00	12,041.28	11,300.00	10,967.32	32.56	29.80	0.02	487.83	1,112.63	1,101.01	1,051.64	49.37	22.303	
12,350.00	12,059.21	11,300.00	10,967.32	32.61	29.80	0.02	487.83	1,112.63	1,109.73	1,060.53	49.20	22.554	
12,400.00	12,073.00	11,326.03	10,971.74	37.58	29.86	0.02	513.48	1,112.39	1,115.44	1,067.05	48.39	23.050	
12,435.13	12,080.15	11,350.00	10,974.78	37.61	29.91	0.02	537.25	1,112.16	1,118.01	1,069.66	48.35	23.125	
12,460.13	12,084.49	11,350.00	10,974.78	37.64	29.91	0.02	537.25	1,112.16	1,119.20	1,071.04	48.16	23.240	
12,500.00	12,090.60	11,350.00	10,974.78	37.68	29.91	0.02	537.25	1,112.16	1,121.42	1,073.51	47.91	23.407	
12,550.00	12,095.92	11,376.73	10,976.99	37.73	29.98	0.02	563.89	1,111.91	1,122.91	1,075.06	47.85	23.467	
12,600.00	12,098.63	11,400.00	10,977.90	37.79	30.04	0.02	587.13	1,111.69	1,123.44	1,075.65	47.80	23.504	
12,626.80	12,099.00	11,400.00	10,977.90	37.82	30.04	0.02	587.13	1,111.69	1,123.18	1,075.46	47.72	23.536	
12,668.64	12,099.00	11,428.59	10,978.00	37.87	30.12	0.02	615.72	1,111.42	1,123.00	1,075.24	47.77	23.510	
12,700.00	12,099.00	11,459.95	10,978.00	37.91	30.22	0.02	647.08	1,111.13	1,123.00	1,075.16	47.85	23.471	
12,800.00	12,099.00	11,559.95	10,978.00	38.06	30.57	0.02	747.07	1,110.18	1,123.00	1,074.87	48.14	23.330	
12,900.00	12,099.00	11,659.95	10,978.00	38.23	31.00	0.02	847.07	1,109.24	1,123.00	1,074.53	48.47	23.168	
13,000.00	12,099.00	11,759.95	10,978.00	38.42	31.50	0.01	947.06	1,108.29	1,123.00	1,074.15	48.86	22.985	
13,100.00	12,099.00	11,859.95	10,978.00	38.64	32.08	0.01	1,047.06	1,107.35	1,123.00	1,073.72	49.29	22.784	
13,200.00	12,099.00	11,959.95	10,978.00	38.90	32.71	0.01	1,147.06	1,106.40	1,123.00	1,073.24	49.77	22.566	
13,300.00	12,099.00	12,059.95	10,978.00	39.20	33.41	0.01	1,247.05	1,105.46	1,123.00	1,072.72	50.29	22.332	
13,400.00	12,099.00	12,159.95	10,978.00	39.55	34.16	0.01	1,347.05	1,104.52	1,123.00	1,072.15	50.85	22.084	
13,500.00	12,099.00	12,259.95	10,978.00	39.95	34.96	0.01	1,447.04	1,103.57	1,123.00	1,071.55	51.46	21.824	
13,600.00	12,099.00	12,359.95	10,978.00	40.40	35.80	0.01	1,547.04	1,102.63	1,123.00	1,070.90	52.10	21.554	
13,700.00	12,099.00	12,459.95	10,978.00	40.92	36.69	0.01	1,647.03	1,101.68	1,123.00	1,070.22	52.79	21.275	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 124H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	12,099.00	12,559.95	10,978.00	41.51	37.61	0.01	1,747.03	1,100.74	1,123.00	1,069.50	53.51	20.988	
13,900.00	12,099.00	12,659.95	10,978.00	42.15	38.57	0.01	1,847.02	1,099.79	1,123.00	1,068.74	54.26	20.695	
14,000.00	12,099.00	12,759.95	10,978.00	42.85	39.55	0.01	1,947.02	1,098.85	1,123.00	1,067.95	55.05	20.398	
14,100.00	12,099.00	12,859.95	10,978.00	43.62	40.57	0.01	2,047.02	1,097.90	1,123.00	1,067.12	55.88	20.097	
14,200.00	12,099.00	12,959.95	10,978.00	44.43	41.61	0.01	2,147.01	1,096.96	1,123.00	1,066.27	56.73	19.795	
14,300.00	12,099.00	13,059.95	10,978.00	45.29	42.68	0.01	2,247.01	1,096.02	1,123.00	1,065.39	57.62	19.491	
14,400.00	12,099.00	13,159.95	10,978.00	46.20	43.76	0.01	2,347.00	1,095.07	1,123.00	1,064.47	58.53	19.186	
14,500.00	12,099.00	13,259.95	10,978.00	47.14	44.87	0.01	2,447.00	1,094.13	1,123.00	1,063.53	59.47	18.883	
14,600.00	12,099.00	13,359.95	10,978.00	48.12	46.00	0.01	2,546.99	1,093.18	1,123.00	1,062.56	60.44	18.581	
14,700.00	12,099.00	13,459.95	10,978.00	49.13	47.15	0.01	2,646.99	1,092.24	1,123.00	1,061.57	61.43	18.281	
14,800.00	12,099.00	13,559.95	10,978.00	50.17	48.31	0.01	2,746.98	1,091.29	1,123.00	1,060.56	62.44	17.984	
14,900.00	12,099.00	13,659.95	10,978.00	51.23	49.48	0.01	2,846.98	1,090.35	1,123.00	1,059.52	63.48	17.690	
15,000.00	12,099.00	13,759.95	10,978.00	52.32	50.67	0.01	2,946.98	1,089.41	1,123.00	1,058.46	64.54	17.400	
15,100.00	12,099.00	13,859.95	10,978.00	53.43	51.88	0.01	3,046.97	1,088.46	1,123.00	1,057.38	65.62	17.114	
15,200.00	12,099.00	13,959.95	10,978.00	54.55	53.09	0.01	3,146.97	1,087.52	1,123.00	1,056.28	66.72	16.832	
15,300.00	12,099.00	14,059.95	10,978.00	55.70	54.32	0.01	3,246.96	1,086.57	1,123.00	1,055.17	67.84	16.555	
15,400.00	12,099.00	14,159.95	10,978.00	56.86	55.55	0.01	3,346.96	1,085.63	1,123.00	1,054.03	68.97	16.282	
15,500.00	12,099.00	14,259.95	10,978.00	58.03	56.80	0.01	3,446.95	1,084.68	1,123.00	1,052.88	70.12	16.015	
15,600.00	12,099.00	14,359.95	10,978.00	59.22	58.06	0.01	3,546.95	1,083.74	1,123.00	1,051.71	71.29	15.753	
15,700.00	12,099.00	14,459.95	10,978.00	60.43	59.32	0.00	3,646.94	1,082.80	1,123.00	1,050.53	72.47	15.496	
15,800.00	12,099.00	14,559.95	10,978.00	61.64	60.59	0.00	3,746.94	1,081.85	1,123.00	1,049.33	73.67	15.244	
15,900.00	12,099.00	14,659.95	10,978.00	62.86	61.87	0.00	3,846.94	1,080.91	1,123.00	1,048.12	74.88	14.997	
16,000.00	12,099.00	14,759.95	10,978.00	64.10	63.16	0.00	3,946.93	1,079.96	1,123.00	1,046.90	76.10	14.756	
16,100.00	12,099.00	14,859.95	10,978.00	65.34	64.45	0.00	4,046.93	1,079.02	1,123.00	1,045.66	77.34	14.520	
16,200.00	12,099.00	14,959.95	10,978.00	66.59	65.75	0.00	4,146.92	1,078.07	1,123.00	1,044.41	78.59	14.290	
16,300.00	12,099.00	15,059.95	10,978.00	67.85	67.06	0.00	4,246.92	1,077.13	1,123.00	1,043.15	79.85	14.064	
16,400.00	12,099.00	15,159.95	10,978.00	69.12	68.37	0.00	4,346.91	1,076.19	1,123.00	1,041.88	81.12	13.844	
16,500.00	12,099.00	15,259.95	10,978.00	70.40	69.69	0.00	4,446.91	1,075.24	1,123.00	1,040.60	82.40	13.629	
16,600.00	12,099.00	15,359.95	10,978.00	71.68	71.01	0.00	4,546.90	1,074.30	1,123.00	1,039.31	83.69	13.419	
16,700.00	12,099.00	15,459.95	10,978.00	72.97	72.33	0.00	4,646.90	1,073.35	1,123.00	1,038.01	84.99	13.214	
16,800.00	12,099.00	15,559.95	10,978.00	74.27	73.66	0.00	4,746.90	1,072.41	1,123.00	1,036.70	86.30	13.013	
16,900.00	12,099.00	15,659.95	10,978.00	75.57	75.00	0.00	4,846.89	1,071.46	1,123.00	1,035.39	87.61	12.818	
16,949.11	12,099.00	15,709.06	10,978.00	76.21	75.65	0.00	4,896.00	1,071.00	1,123.00	1,034.74	88.26	12.723	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 131H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	18.00	18.00	0.00	0.02	-90.59	-34.00	-3,314.00	3,314.17				
100.00	100.00	118.00	118.00	0.13	0.19	-90.59	-34.00	-3,314.00	3,314.17	3,313.86	0.32	N/A	
200.00	200.00	218.00	218.00	0.49	0.55	-90.59	-34.00	-3,314.00	3,314.17	3,313.14	1.04	3,199.062	
300.00	300.00	318.00	318.00	0.84	0.91	-90.59	-34.00	-3,314.00	3,314.17	3,312.42	1.75	1,890.653	
400.00	400.00	418.00	418.00	1.20	1.27	-90.59	-34.00	-3,314.00	3,314.17	3,311.70	2.47	1,341.842	
500.00	500.00	518.00	518.00	1.56	1.63	-90.59	-34.00	-3,314.00	3,314.17	3,310.99	3.19	1,039.965	
600.00	600.00	618.00	618.00	1.92	1.98	-90.59	-34.00	-3,314.00	3,314.17	3,310.27	3.90	848.971	
700.00	700.00	718.00	718.00	2.28	2.34	-90.59	-34.00	-3,314.00	3,314.17	3,309.55	4.62	717.245	
800.00	800.00	818.00	818.00	2.64	2.70	-90.59	-34.00	-3,314.00	3,314.17	3,308.84	5.34	620.906	
900.00	900.00	918.00	918.00	3.00	3.06	-90.59	-34.00	-3,314.00	3,314.17	3,308.12	6.05	547.383	
1,000.00	1,000.00	1,018.00	1,018.00	3.35	3.42	-90.59	-34.00	-3,314.00	3,314.17	3,307.40	6.77	489.428	
1,100.00	1,100.00	1,118.00	1,118.00	3.71	3.78	-90.59	-34.00	-3,314.00	3,314.17	3,306.69	7.49	442.570	
1,200.00	1,200.00	1,218.00	1,218.00	4.07	4.10	-90.59	-34.00	-3,314.00	3,314.17	3,306.00	8.17	405.462	
1,300.00	1,300.00	1,318.00	1,318.00	4.25	4.26	-90.59	-34.00	-3,314.00	3,314.17	3,305.66	8.51	389.338	
1,400.00	1,400.00	1,418.00	1,418.00	4.26	4.29	-90.59	-34.00	-3,314.00	3,314.17	3,305.60	8.58	386.364	
1,409.35	1,409.35	1,427.35	1,427.35	4.29	4.30	-90.59	-34.00	-3,314.00	3,314.17	3,305.59	8.59	385.863	CC
1,500.00	1,500.00	1,511.88	1,511.88	4.34	4.35	-90.59	-34.01	-3,314.01	3,314.19	3,305.49	8.70	381.102	ES
1,600.00	1,599.99	1,577.89	1,577.89	4.43	4.41	174.80	-34.25	-3,314.47	3,315.76	3,306.92	8.84	375.195	
1,700.00	1,699.96	1,643.82	1,643.80	4.54	4.48	174.79	-34.84	-3,315.60	3,320.08	3,311.07	9.01	368.349	
1,800.00	1,799.86	1,709.00	1,699.96	4.68	4.54	174.77	-35.62	-3,317.09	3,327.19	3,317.98	9.21	361.318	
1,900.00	1,899.68	1,775.16	1,775.05	4.84	4.64	174.74	-37.07	-3,319.85	3,337.00	3,327.54	9.47	352.492	
2,000.00	1,999.37	1,840.44	1,840.23	5.02	4.74	174.71	-38.71	-3,322.95	3,349.57	3,339.83	9.74	343.844	
2,100.00	2,098.99	1,900.00	1,899.68	5.22	4.83	174.69	-40.50	-3,326.35	3,364.02	3,353.99	10.03	335.421	
2,200.00	2,198.60	1,970.24	1,969.71	5.45	4.96	174.66	-42.98	-3,331.07	3,379.44	3,369.08	10.36	326.052	
2,300.00	2,298.22	2,053.19	2,052.35	5.69	5.12	174.61	-46.30	-3,337.40	3,395.73	3,384.98	10.75	315.892	
2,400.00	2,397.84	2,151.79	2,150.58	5.94	5.33	174.56	-50.30	-3,345.01	3,412.12	3,400.93	11.20	304.751	
2,500.00	2,497.46	2,250.39	2,248.80	6.21	5.56	174.51	-54.30	-3,352.61	3,428.52	3,416.85	11.67	293.756	
2,600.00	2,597.08	2,348.99	2,347.02	6.49	5.81	174.46	-58.30	-3,360.22	3,444.92	3,432.75	12.17	283.071	
2,700.00	2,696.70	2,447.59	2,445.25	6.78	6.06	174.41	-62.30	-3,367.83	3,461.32	3,448.63	12.69	272.744	
2,800.00	2,796.32	2,546.18	2,543.47	7.07	6.33	174.36	-66.30	-3,375.43	3,477.73	3,464.50	13.23	262.854	
2,900.00	2,895.94	2,644.78	2,641.69	7.38	6.61	174.31	-70.30	-3,383.04	3,494.14	3,480.35	13.79	253.429	
3,000.00	2,995.56	2,743.38	2,739.92	7.69	6.90	174.26	-74.30	-3,390.64	3,510.55	3,496.19	14.36	244.482	
3,100.00	3,095.18	2,841.98	2,838.14	8.00	7.19	174.21	-78.30	-3,398.25	3,526.96	3,512.01	14.94	236.012	
3,200.00	3,194.80	2,940.58	2,936.37	8.32	7.50	174.16	-82.30	-3,405.86	3,543.37	3,527.83	15.54	228.009	
3,300.00	3,294.42	3,039.18	3,034.59	8.65	7.81	174.11	-86.30	-3,413.46	3,559.79	3,543.64	16.15	220.455	
3,400.00	3,394.04	3,137.78	3,132.81	8.98	8.12	174.06	-90.29	-3,421.07	3,576.21	3,559.45	16.76	213.332	
3,500.00	3,493.66	3,236.37	3,231.04	9.31	8.44	174.01	-94.29	-3,428.68	3,592.63	3,575.25	17.39	206.615	
3,600.00	3,593.28	3,334.97	3,329.26	9.65	8.76	173.97	-98.29	-3,436.28	3,609.06	3,591.04	18.02	200.282	
3,700.00	3,692.90	3,433.57	3,427.48	9.99	9.09	173.92	-102.29	-3,443.89	3,625.49	3,606.83	18.66	194.309	
3,800.00	3,792.52	3,532.17	3,525.71	10.33	9.42	173.87	-106.29	-3,451.49	3,641.92	3,622.61	19.30	188.673	
3,900.00	3,892.14	3,630.77	3,623.93	10.68	9.76	173.83	-110.29	-3,459.10	3,658.35	3,638.40	19.95	183.351	
4,000.00	3,991.76	3,729.37	3,722.15	11.02	10.09	173.78	-114.29	-3,466.71	3,674.78	3,654.18	20.61	178.323	
4,100.00	4,091.37	3,827.97	3,820.38	11.37	10.43	173.74	-118.29	-3,474.31	3,691.22	3,669.95	21.27	173.569	
4,200.00	4,190.99	3,926.57	3,918.60	11.72	10.77	173.69	-122.29	-3,481.92	3,707.66	3,685.73	21.93	169.069	
4,300.00	4,290.61	4,040.16	4,031.77	12.07	11.17	173.64	-126.87	-3,490.63	3,724.08	3,701.43	22.65	164.399	
4,400.00	4,390.23	4,278.95	4,270.09	12.43	11.99	173.58	-133.75	-3,503.72	3,738.27	3,714.44	23.83	156.855	
4,500.00	4,489.85	4,516.79	4,507.85	12.78	12.78	173.58	-136.00	-3,508.00	3,748.73	3,723.76	24.98	150.076	
4,600.00	4,589.47	4,616.41	4,607.47	13.14	13.08	173.60	-136.00	-3,508.00	3,757.40	3,731.77	25.63	146.598	
4,700.00	4,689.09	4,716.03	4,707.09	13.50	13.39	173.61	-136.00	-3,508.00	3,766.06	3,739.77	26.29	143.274	
4,800.00	4,788.71	4,815.65	4,806.71	13.86	13.70	173.63	-136.00	-3,508.00	3,774.72	3,747.78	26.94	140.094	
4,900.00	4,888.33	4,915.26	4,906.33	14.22	13.99	173.64	-136.00	-3,508.00	3,783.38	3,755.80	27.58	137.171	
5,000.00	4,987.95	5,014.88	5,005.95	14.41	14.13	173.65	-136.00	-3,508.00	3,792.04	3,764.15	27.90	135.919	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 131H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,114.50	5,105.57	14.44	14.14	173.67	-136.00	-3,508.00	3,800.71	3,772.79	27.92	136.128	
5,112.48	5,100.00	5,126.93	5,118.00	14.45	14.14	173.67	-136.00	-3,508.00	3,801.79	3,773.86	27.92	136.146	
5,200.00	5,187.13	5,214.06	5,205.13	14.49	14.16	173.68	-136.00	-3,508.00	3,810.03	3,782.07	27.96	136.268	
5,300.00	5,286.51	5,313.44	5,304.51	14.55	14.19	173.69	-136.00	-3,508.00	3,821.07	3,793.05	28.02	136.375	
5,400.00	5,385.68	5,412.61	5,403.68	14.63	14.22	173.69	-136.00	-3,508.00	3,833.83	3,805.73	28.10	136.451	
5,500.00	5,484.61	5,511.55	5,502.61	14.72	14.27	173.70	-136.00	-3,508.00	3,848.31	3,820.11	28.19	136.496	
5,600.00	5,583.27	5,610.21	5,601.27	14.83	14.32	173.71	-136.00	-3,508.00	3,864.50	3,836.19	28.31	136.511	
5,700.00	5,681.64	5,708.57	5,699.64	14.96	14.39	173.72	-136.00	-3,508.00	3,882.41	3,853.96	28.44	136.497	
5,800.00	5,779.67	5,806.61	5,797.67	15.11	14.46	173.73	-136.00	-3,508.00	3,902.02	3,873.42	28.60	136.455	
5,900.00	5,877.35	5,904.28	5,895.35	15.28	14.53	173.74	-136.00	-3,508.00	3,923.33	3,894.56	28.77	136.385	
6,000.00	5,974.63	6,001.57	5,992.63	15.47	14.62	173.75	-136.00	-3,508.00	3,946.33	3,917.37	28.96	136.290	
6,100.00	6,071.50	6,101.56	6,089.50	15.68	14.72	173.77	-136.00	-3,508.00	3,971.02	3,941.85	29.17	136.155	
6,200.00	6,167.92	6,205.14	6,185.92	15.91	14.83	173.78	-136.00	-3,508.00	3,997.38	3,967.99	29.40	135.974	
6,300.00	6,263.86	6,309.20	6,281.86	16.17	14.94	173.79	-136.00	-3,508.00	4,025.42	3,995.77	29.65	135.762	
6,347.11	6,308.89	6,335.82	6,326.89	16.30	14.97	173.80	-136.00	-3,508.00	4,039.21	4,009.46	29.75	135.774	
6,400.00	6,359.37	6,386.31	6,377.37	16.45	15.04	173.82	-136.00	-3,508.00	4,054.90	4,025.01	29.89	135.672	
6,500.00	6,454.83	6,481.76	6,472.83	16.75	15.16	173.87	-136.00	-3,508.00	4,084.55	4,054.39	30.16	135.424	
6,600.00	6,550.28	6,577.21	6,568.28	17.05	15.28	173.91	-136.00	-3,508.00	4,114.21	4,083.76	30.45	135.111	
6,700.00	6,645.73	6,672.66	6,663.73	17.38	15.42	173.95	-136.00	-3,508.00	4,143.88	4,113.12	30.76	134.735	
6,800.00	6,741.18	6,768.12	6,759.18	17.71	15.56	174.00	-136.00	-3,508.00	4,173.54	4,142.46	31.08	134.302	
6,900.00	6,836.63	6,863.57	6,854.63	18.06	15.70	174.04	-136.00	-3,508.00	4,203.21	4,171.80	31.41	133.815	
7,000.00	6,932.09	6,959.02	6,950.09	18.42	15.86	174.08	-136.00	-3,508.00	4,232.88	4,201.12	31.76	133.280	
7,100.00	7,027.54	7,054.47	7,045.54	18.78	16.01	174.12	-136.00	-3,508.00	4,262.55	4,230.42	32.12	132.699	
7,200.00	7,122.99	7,149.92	7,140.99	19.16	16.18	174.16	-136.00	-3,508.00	4,292.22	4,259.72	32.50	132.078	
7,300.00	7,218.44	7,245.38	7,236.44	19.55	16.35	174.20	-136.00	-3,508.00	4,321.89	4,289.01	32.89	131.419	
7,400.00	7,313.89	7,340.83	7,331.89	19.94	16.52	174.24	-136.00	-3,508.00	4,351.57	4,318.28	33.29	130.728	
7,500.00	7,409.35	7,436.28	7,427.35	20.35	16.70	174.28	-136.00	-3,508.00	4,381.25	4,347.55	33.70	130.008	
7,600.00	7,504.80	7,531.73	7,522.80	20.76	16.89	174.32	-136.00	-3,508.00	4,410.93	4,376.80	34.12	129.261	
7,700.00	7,600.25	7,627.18	7,618.25	21.18	17.08	174.36	-136.00	-3,508.00	4,440.61	4,406.05	34.56	128.492	
7,741.71	7,640.06	7,667.00	7,658.06	21.35	17.16	174.37	-136.00	-3,508.00	4,452.99	4,418.25	34.74	128.164	
7,800.00	7,695.83	7,722.77	7,713.83	21.60	17.27	174.42	-136.00	-3,508.00	4,469.87	4,434.87	35.00	127.694	
7,900.00	7,792.09	7,819.02	7,810.09	22.00	17.47	174.50	-136.00	-3,508.00	4,496.85	4,461.39	35.46	126.825	
8,000.00	7,889.02	7,915.95	7,907.02	22.39	17.68	174.56	-136.00	-3,508.00	4,521.31	4,485.40	35.92	125.882	
8,100.00	7,986.56	8,013.50	8,004.56	22.76	17.89	174.62	-136.00	-3,508.00	4,543.24	4,506.86	36.38	124.872	
8,200.00	8,084.65	8,111.58	8,102.65	23.10	18.11	174.67	-136.00	-3,508.00	4,562.62	4,525.76	36.85	123.800	
8,300.00	8,183.21	8,210.14	8,201.21	23.43	18.33	174.71	-136.00	-3,508.00	4,579.44	4,542.10	37.33	122.671	
8,400.00	8,282.18	8,309.11	8,300.18	23.73	18.56	174.75	-136.00	-3,508.00	4,593.68	4,555.87	37.81	121.492	
8,500.00	8,381.49	8,408.42	8,399.49	24.02	18.79	174.78	-136.00	-3,508.00	4,605.33	4,567.04	38.29	120.265	
8,600.00	8,481.07	8,508.00	8,499.07	24.28	19.03	174.80	-136.00	-3,508.00	4,614.40	4,575.62	38.78	118.997	
8,700.00	8,580.86	8,607.79	8,598.86	24.53	19.27	174.82	-136.00	-3,508.00	4,620.86	4,581.60	39.26	117.690	
8,800.00	8,680.78	8,707.71	8,698.78	24.75	19.52	174.83	-136.00	-3,508.00	4,624.72	4,584.97	39.75	116.347	
8,898.13	8,778.90	8,805.83	8,796.90	24.95	19.76	-90.57	-136.00	-3,508.00	4,625.98	4,585.76	40.22	115.017	
8,900.00	8,780.77	8,807.70	8,798.77	24.96	19.77	-90.57	-136.00	-3,508.00	4,625.98	4,585.75	40.23	114.992	
9,000.00	8,880.77	8,907.70	8,898.77	25.15	20.02	-90.57	-136.00	-3,508.00	4,625.98	4,585.27	40.71	113.645	
9,100.00	8,980.77	9,007.70	8,998.77	25.34	20.28	-90.57	-136.00	-3,508.00	4,625.98	4,584.79	41.19	112.311	
9,200.00	9,080.77	9,107.70	9,098.77	25.54	20.53	-90.57	-136.00	-3,508.00	4,625.98	4,584.30	41.68	110.991	
9,300.00	9,180.77	9,207.70	9,198.77	25.75	20.80	-90.57	-136.00	-3,508.00	4,625.98	4,583.80	42.18	109.684	
9,400.00	9,280.77	9,307.70	9,298.77	25.95	21.06	-90.57	-136.00	-3,508.00	4,625.98	4,583.30	42.68	108.391	
9,500.00	9,380.77	9,407.70	9,398.77	26.16	21.33	-90.57	-136.00	-3,508.00	4,625.98	4,582.79	43.19	107.114	
9,600.00	9,480.77	9,507.70	9,498.77	26.38	21.60	-90.57	-136.00	-3,508.00	4,625.98	4,582.28	43.70	105.853	
9,700.00	9,580.77	9,607.70	9,598.77	26.59	21.87	-90.57	-136.00	-3,508.00	4,625.98	4,581.76	44.22	104.607	
9,800.00	9,680.77	9,707.70	9,698.77	26.81	22.15	-90.57	-136.00	-3,508.00	4,625.98	4,581.23	44.75	103.379	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 131H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,807.70	9,798.77	27.03	22.42	-90.57	-136.00	-3,508.00	4,625.98	4,580.70	45.28	102.166	
10,000.00	9,880.77	9,907.70	9,898.77	27.26	22.70	-90.57	-136.00	-3,508.00	4,625.98	4,580.16	45.81	100.971	
10,100.00	9,980.77	10,007.70	9,998.77	27.49	22.98	-90.57	-136.00	-3,508.00	4,625.98	4,579.62	46.36	99.793	
10,200.00	10,080.77	10,107.70	10,098.77	27.72	23.27	-90.57	-136.00	-3,508.00	4,625.98	4,579.08	46.90	98.632	
10,300.00	10,180.77	10,207.70	10,198.77	27.95	23.55	-90.57	-136.00	-3,508.00	4,625.98	4,578.53	47.45	97.489	
10,400.00	10,280.77	10,307.70	10,298.77	28.19	23.84	-90.57	-136.00	-3,508.00	4,625.98	4,577.97	48.01	96.363	
10,500.00	10,380.77	10,407.70	10,398.77	28.43	24.13	-90.57	-136.00	-3,508.00	4,625.98	4,577.41	48.56	95.255	
10,600.00	10,480.77	10,507.70	10,498.77	28.67	24.42	-90.57	-136.00	-3,508.00	4,625.98	4,576.85	49.13	94.163	
10,700.00	10,580.77	10,607.70	10,598.77	28.91	24.72	-90.57	-136.00	-3,508.00	4,625.98	4,576.28	49.69	93.089	
10,800.00	10,680.77	10,707.70	10,698.77	29.16	25.01	-90.57	-136.00	-3,508.00	4,625.98	4,575.71	50.26	92.033	
10,900.00	10,780.77	10,807.70	10,798.77	29.40	25.31	-90.57	-136.00	-3,508.00	4,625.98	4,575.14	50.84	90.993	
11,000.00	10,880.77	10,907.70	10,898.77	29.65	25.61	-90.57	-136.00	-3,508.00	4,625.98	4,574.56	51.42	89.971	
11,100.00	10,980.77	11,007.70	10,998.77	29.91	25.91	-90.57	-136.00	-3,508.00	4,625.98	4,573.98	52.00	88.965	
11,200.00	11,080.77	11,107.70	11,098.77	30.16	26.21	-90.57	-136.00	-3,508.00	4,625.98	4,573.40	52.58	87.976	
11,300.00	11,180.77	11,207.70	11,198.77	30.42	26.51	-90.57	-136.00	-3,508.00	4,625.98	4,572.81	53.17	87.003	
11,400.00	11,280.77	11,307.70	11,298.77	30.68	26.81	-90.57	-136.00	-3,508.00	4,625.98	4,572.22	53.76	86.047	
11,500.00	11,380.77	11,408.12	11,399.10	30.94	27.12	-90.54	-133.25	-3,508.02	4,625.98	4,571.62	54.35	85.110	
11,527.76	11,408.52	11,435.76	11,426.52	31.01	27.20	-90.49	-129.89	-3,508.05	4,625.97	4,571.46	54.51	84.858	
11,600.00	11,480.77	11,505.59	11,494.82	31.20	27.40	-90.32	-115.53	-3,508.18	4,626.00	4,571.08	54.92	84.231	
11,635.13	11,515.90	11,538.06	11,525.87	31.29	27.49	-90.20	-106.05	-3,508.26	4,626.04	4,570.93	55.11	83.943	
11,650.00	11,530.77	11,551.51	11,538.57	31.33	27.53	-89.60	-101.61	-3,508.30	4,626.07	4,570.88	55.19	83.823	
11,700.00	11,580.63	11,596.08	11,579.82	31.46	27.65	-89.42	-84.79	-3,508.44	4,626.20	4,570.75	55.45	83.435	
11,750.00	11,630.00	11,639.69	11,618.82	31.59	27.76	-89.24	-65.27	-3,508.61	4,626.36	4,570.67	55.70	83.065	
11,800.00	11,678.50	11,682.45	11,655.50	31.71	27.86	-89.06	-43.31	-3,508.80	4,626.57	4,570.63	55.94	82.710	
11,850.00	11,725.77	11,724.45	11,689.83	31.83	27.95	-88.90	-19.14	-3,509.01	4,626.80	4,570.63	56.17	82.370	
11,900.00	11,771.43	11,765.77	11,721.79	31.94	28.04	-88.73	7.03	-3,509.23	4,627.06	4,570.66	56.40	82.041	
11,950.00	11,815.16	11,806.47	11,751.35	32.05	28.13	-88.58	35.00	-3,509.47	4,627.33	4,570.71	56.62	81.721	
12,000.00	11,856.60	11,846.64	11,778.50	32.14	28.22	-88.44	64.59	-3,509.73	4,627.61	4,570.77	56.84	81.408	
12,050.00	11,895.45	11,886.32	11,803.23	32.23	28.31	-88.30	95.61	-3,510.00	4,627.89	4,570.83	57.06	81.099	
12,100.00	11,931.42	11,925.58	11,825.52	32.31	28.41	-88.18	127.92	-3,510.28	4,628.17	4,570.89	57.29	80.791	
12,150.00	11,964.22	11,964.48	11,845.37	32.38	28.51	-88.07	161.36	-3,510.56	4,628.43	4,570.92	57.51	80.482	
12,200.00	11,993.61	12,003.05	11,862.77	32.44	28.61	-87.97	195.78	-3,510.86	4,628.68	4,570.94	57.74	80.170	
12,250.00	12,019.36	12,041.35	11,877.72	32.50	28.72	-87.88	231.03	-3,511.16	4,628.90	4,570.93	57.97	79.851	
12,300.00	12,041.28	12,079.42	11,890.21	32.56	28.83	-87.80	266.99	-3,511.47	4,629.09	4,570.88	58.21	79.526	
12,350.00	12,059.21	12,117.30	11,900.24	32.61	28.94	-87.74	303.51	-3,511.79	4,629.24	4,570.78	58.46	79.193	
12,400.00	12,073.00	12,155.04	11,907.82	37.58	29.05	-87.69	340.46	-3,512.11	4,629.35	4,570.68	58.67	78.899	
12,435.13	12,080.15	12,181.48	11,911.67	37.61	29.14	-87.67	366.62	-3,512.33	4,629.41	4,570.59	58.82	78.710	
12,460.13	12,084.49	12,200.00	11,913.64	37.64	29.19	-87.65	385.04	-3,512.49	4,629.46	4,570.54	58.92	78.572	
12,500.00	12,090.60	12,230.01	11,915.58	37.68	29.29	-87.61	414.98	-3,512.75	4,629.58	4,570.48	59.10	78.335	
12,550.00	12,095.92	12,272.32	11,916.00	37.73	29.43	-87.55	457.28	-3,513.12	4,629.74	4,570.38	59.36	77.994	
12,600.00	12,098.63	12,322.24	11,916.00	37.79	29.61	-87.52	507.20	-3,513.55	4,629.82	4,570.13	59.68	77.573	
12,626.80	12,099.00	12,349.04	11,916.00	37.82	29.71	-87.51	534.00	-3,513.78	4,629.81	4,569.94	59.87	77.328	
12,700.00	12,099.00	12,422.24	11,916.00	37.91	30.01	-87.51	607.19	-3,514.41	4,629.76	4,569.33	60.43	76.618	
12,800.00	12,099.00	12,522.24	11,916.00	38.06	30.48	-87.51	707.19	-3,515.27	4,629.68	4,568.38	61.30	75.527	
12,900.00	12,099.00	12,622.24	11,916.00	38.23	31.01	-87.51	807.19	-3,516.13	4,629.61	4,567.32	62.29	74.321	
13,000.00	12,099.00	12,722.24	11,916.00	38.42	31.59	-87.51	907.18	-3,516.99	4,629.53	4,566.13	63.40	73.020	
13,100.00	12,099.00	12,822.24	11,916.00	38.64	32.23	-87.51	1,007.18	-3,517.86	4,629.46	4,564.84	64.62	71.642	
13,200.00	12,099.00	12,922.24	11,916.00	38.90	32.92	-87.51	1,107.18	-3,518.72	4,629.38	4,563.44	65.94	70.204	
13,300.00	12,099.00	13,022.24	11,916.00	39.20	33.65	-87.51	1,207.17	-3,519.58	4,629.31	4,561.95	67.36	68.724	
13,400.00	12,099.00	13,122.24	11,916.00	39.55	34.43	-87.51	1,307.17	-3,520.44	4,629.23	4,560.36	68.87	67.215	
13,500.00	12,099.00	13,222.24	11,916.00	39.95	35.26	-87.51	1,407.16	-3,521.31	4,629.16	4,558.69	70.47	65.690	
13,600.00	12,099.00	13,322.24	11,916.00	40.40	36.12	-87.51	1,507.16	-3,522.17	4,629.09	4,556.94	72.15	64.163	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 131H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,422.24	11,916.00	40.92	37.01	-87.51	1,607.16	-3,523.03	4,629.01	4,555.11	73.90	62.641	
13,800.00	12,099.00	13,522.24	11,916.00	41.51	37.95	-87.51	1,707.15	-3,523.89	4,628.94	4,553.22	75.72	61.134	
13,900.00	12,099.00	13,622.24	11,916.00	42.15	38.91	-87.51	1,807.15	-3,524.75	4,628.86	4,551.26	77.60	59.648	
14,000.00	12,099.00	13,722.24	11,916.00	42.85	39.90	-87.51	1,907.15	-3,525.62	4,628.79	4,549.24	79.55	58.188	
14,100.00	12,099.00	13,822.24	11,916.00	43.62	40.92	-87.51	2,007.14	-3,526.48	4,628.71	4,547.16	81.55	56.760	
14,200.00	12,099.00	13,922.24	11,916.00	44.43	41.96	-87.51	2,107.14	-3,527.34	4,628.64	4,545.04	83.60	55.366	
14,300.00	12,099.00	14,022.24	11,916.00	45.29	43.03	-87.51	2,207.13	-3,528.20	4,628.56	4,542.86	85.70	54.008	
14,400.00	12,099.00	14,122.24	11,916.00	46.20	44.12	-87.51	2,307.13	-3,529.07	4,628.49	4,540.64	87.85	52.689	
14,500.00	12,099.00	14,222.24	11,916.00	47.14	45.22	-87.51	2,407.13	-3,529.93	4,628.41	4,538.38	90.03	51.409	
14,600.00	12,099.00	14,322.24	11,916.00	48.12	46.35	-87.51	2,507.12	-3,530.79	4,628.34	4,536.08	92.26	50.168	
14,700.00	12,099.00	14,422.24	11,916.00	49.13	47.49	-87.51	2,607.12	-3,531.65	4,628.26	4,533.75	94.52	48.968	
14,800.00	12,099.00	14,522.24	11,916.00	50.17	48.65	-87.51	2,707.12	-3,532.51	4,628.19	4,531.38	96.81	47.807	
14,900.00	12,099.00	14,622.24	11,916.00	51.23	49.82	-87.51	2,807.11	-3,533.38	4,628.11	4,528.98	99.13	46.686	
15,000.00	12,099.00	14,722.24	11,916.00	52.32	51.01	-87.51	2,907.11	-3,534.24	4,628.04	4,526.55	101.49	45.603	
15,100.00	12,099.00	14,822.24	11,916.00	53.43	52.21	-87.51	3,007.10	-3,535.10	4,627.97	4,524.10	103.86	44.558	
15,200.00	12,099.00	14,922.24	11,916.00	54.55	53.43	-87.51	3,107.10	-3,535.96	4,627.89	4,521.62	106.27	43.549	
15,300.00	12,099.00	15,022.24	11,916.00	55.70	54.65	-87.51	3,207.10	-3,536.83	4,627.82	4,519.12	108.70	42.575	
15,400.00	12,099.00	15,122.24	11,916.00	56.86	55.88	-87.51	3,307.09	-3,537.69	4,627.74	4,516.59	111.15	41.636	
15,500.00	12,099.00	15,222.24	11,916.00	58.03	57.13	-87.51	3,407.09	-3,538.55	4,627.67	4,514.05	113.62	40.730	
15,600.00	12,099.00	15,322.24	11,916.00	59.22	58.38	-87.51	3,507.09	-3,539.41	4,627.59	4,511.49	116.11	39.857	
15,700.00	12,099.00	15,422.24	11,916.00	60.43	59.64	-87.51	3,607.08	-3,540.27	4,627.52	4,508.90	118.61	39.014	
15,800.00	12,099.00	15,522.24	11,916.00	61.64	60.91	-87.51	3,707.08	-3,541.14	4,627.44	4,506.31	121.14	38.200	
15,900.00	12,099.00	15,622.24	11,916.00	62.86	62.19	-87.51	3,807.07	-3,542.00	4,627.37	4,503.69	123.68	37.415	
16,000.00	12,099.00	15,722.24	11,916.00	64.10	63.47	-87.51	3,907.07	-3,542.86	4,627.29	4,501.06	126.23	36.658	
16,100.00	12,099.00	15,822.24	11,916.00	65.34	64.77	-87.51	4,007.07	-3,543.72	4,627.22	4,498.42	128.80	35.926	
16,200.00	12,099.00	15,922.24	11,916.00	66.59	66.06	-87.51	4,107.06	-3,544.59	4,627.14	4,495.76	131.38	35.220	
16,300.00	12,099.00	16,022.24	11,916.00	67.85	67.37	-87.51	4,207.06	-3,545.45	4,627.07	4,493.10	133.97	34.537	
16,400.00	12,099.00	16,122.24	11,916.00	69.12	68.67	-87.51	4,307.06	-3,546.31	4,626.99	4,490.42	136.58	33.878	
16,500.00	12,099.00	16,222.24	11,916.00	70.40	69.99	-87.51	4,407.05	-3,547.17	4,626.92	4,487.73	139.19	33.241	
16,600.00	12,099.00	16,322.24	11,916.00	71.68	71.31	-87.51	4,507.05	-3,548.03	4,626.85	4,485.02	141.82	32.624	
16,700.00	12,099.00	16,422.24	11,916.00	72.97	72.63	-87.51	4,607.04	-3,548.90	4,626.77	4,482.31	144.46	32.029	
16,800.00	12,099.00	16,522.24	11,916.00	74.27	73.96	-87.51	4,707.04	-3,549.76	4,626.70	4,479.59	147.10	31.452	
16,900.00	12,099.00	16,622.24	11,916.00	75.57	75.29	-87.51	4,807.04	-3,550.62	4,626.62	4,476.86	149.76	30.894	
16,949.11	12,099.00	16,671.35	11,916.00	76.21	75.95	-87.51	4,856.15	-3,551.04	4,626.58	4,475.52	151.06	30.627 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 132H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19.00	19.00	0.00	0.02	-90.60	-21.00	-1,993.00	1,993.11				
100.00	100.00	119.00	119.00	0.13	0.20	-90.60	-21.00	-1,993.00	1,993.11	1,992.79	0.32	6,177.799	
200.00	200.00	219.00	219.00	0.49	0.55	-90.60	-21.00	-1,993.00	1,993.11	1,992.07	1.04	1,917.249	
300.00	300.00	319.00	319.00	0.84	0.91	-90.60	-21.00	-1,993.00	1,993.11	1,991.35	1.76	1,134.699	
400.00	400.00	419.00	419.00	1.20	1.27	-90.60	-21.00	-1,993.00	1,993.11	1,990.64	2.47	805.801	
500.00	500.00	519.00	519.00	1.56	1.63	-90.60	-21.00	-1,993.00	1,993.11	1,989.92	3.19	624.722	
600.00	600.00	619.00	619.00	1.92	1.99	-90.60	-21.00	-1,993.00	1,993.11	1,989.20	3.91	510.094	
700.00	700.00	719.00	719.00	2.28	2.35	-90.60	-21.00	-1,993.00	1,993.11	1,988.49	4.62	431.010	
800.00	800.00	819.00	819.00	2.64	2.70	-90.60	-21.00	-1,993.00	1,993.11	1,987.77	5.34	373.156	
900.00	900.00	919.00	919.00	3.00	3.06	-90.60	-21.00	-1,993.00	1,993.11	1,987.05	6.06	328.996	
1,000.00	1,000.00	1,019.00	1,019.00	3.35	3.42	-90.60	-21.00	-1,993.00	1,993.11	1,986.34	6.78	294.181	
1,100.00	1,100.00	1,119.00	1,119.00	3.71	3.78	-90.60	-21.00	-1,993.00	1,993.11	1,985.62	7.49	266.030	
1,200.00	1,200.00	1,219.00	1,219.00	4.07	4.11	-90.60	-21.00	-1,993.00	1,993.11	1,984.94	8.18	243.786	
1,300.00	1,300.00	1,319.00	1,319.00	4.25	4.26	-90.60	-21.00	-1,993.00	1,993.11	1,984.60	8.51	234.136	
1,400.00	1,400.00	1,419.00	1,419.00	4.28	4.29	-90.60	-21.00	-1,993.00	1,993.11	1,984.53	8.58	232.339	
1,408.85	1,408.85	1,427.85	1,427.85	4.29	4.30	-90.60	-21.00	-1,993.00	1,993.11	1,984.52	8.59	232.054 CC	
1,500.00	1,500.00	1,514.50	1,514.50	4.34	4.36	-90.60	-21.01	-1,993.02	1,993.13	1,984.43	8.70	229.134 ES	
1,600.00	1,599.99	1,590.82	1,590.82	4.43	4.42	174.78	-21.33	-1,993.64	1,994.82	1,985.97	8.85	225.449	
1,700.00	1,699.96	1,667.04	1,667.02	4.54	4.50	174.76	-22.13	-1,995.16	1,999.43	1,990.39	9.04	221.221	
1,800.00	1,799.86	1,743.06	1,742.99	4.68	4.59	174.72	-23.39	-1,997.57	2,006.96	1,997.69	9.27	216.602	
1,900.00	1,899.68	1,818.79	1,818.62	4.84	4.70	174.68	-25.11	-2,000.86	2,017.39	2,007.87	9.53	211.732	
2,000.00	1,999.37	1,894.13	1,893.82	5.02	4.82	174.62	-27.28	-2,005.01	2,030.72	2,020.90	9.82	206.722	
2,100.00	2,098.99	1,969.10	1,968.58	5.22	4.96	174.56	-29.90	-2,010.01	2,046.07	2,035.92	10.15	201.587	
2,200.00	2,198.60	2,057.85	2,057.00	5.45	5.13	174.49	-33.44	-2,016.79	2,062.38	2,051.85	10.53	195.836	
2,300.00	2,298.22	2,156.45	2,155.22	5.69	5.34	174.40	-37.43	-2,024.40	2,078.79	2,067.82	10.97	189.575	
2,400.00	2,397.84	2,255.05	2,253.44	5.94	5.57	174.32	-41.41	-2,032.02	2,095.20	2,083.78	11.43	183.317	
2,500.00	2,497.46	2,353.64	2,351.66	6.21	5.82	174.24	-45.39	-2,039.63	2,111.62	2,099.71	11.92	177.176	
2,600.00	2,597.08	2,452.24	2,449.89	6.49	6.08	174.16	-49.37	-2,047.25	2,128.05	2,115.62	12.43	171.195	
2,700.00	2,696.70	2,550.84	2,548.11	6.78	6.34	174.08	-53.36	-2,054.86	2,144.47	2,131.51	12.96	165.432	
2,800.00	2,796.32	2,649.44	2,646.33	7.07	6.62	174.00	-57.34	-2,062.47	2,160.90	2,147.39	13.51	159.914	
2,900.00	2,895.94	2,748.04	2,744.55	7.38	6.91	173.92	-61.32	-2,070.09	2,177.34	2,163.26	14.08	154.656	
3,000.00	2,995.56	2,846.63	2,842.78	7.69	7.21	173.84	-65.31	-2,077.70	2,193.78	2,179.12	14.66	149.663	
3,100.00	3,095.18	2,945.23	2,941.00	8.00	7.51	173.77	-69.29	-2,085.32	2,210.22	2,194.97	15.25	144.933	
3,200.00	3,194.80	3,043.83	3,039.22	8.32	7.82	173.69	-73.27	-2,092.93	2,226.67	2,210.81	15.85	140.461	
3,300.00	3,294.42	3,142.43	3,137.44	8.65	8.14	173.62	-77.26	-2,100.55	2,243.11	2,226.65	16.46	136.237	
3,400.00	3,394.04	3,241.02	3,235.67	8.98	8.46	173.55	-81.24	-2,108.16	2,259.57	2,242.48	17.09	132.248	
3,500.00	3,493.66	3,339.62	3,333.89	9.31	8.78	173.48	-85.22	-2,115.78	2,276.02	2,258.31	17.71	128.484	
3,600.00	3,593.28	3,438.22	3,432.11	9.65	9.11	173.41	-89.20	-2,123.39	2,292.48	2,274.13	18.35	124.931	
3,700.00	3,692.90	3,536.82	3,530.33	9.99	9.44	173.34	-93.19	-2,131.01	2,308.95	2,289.96	18.99	121.575	
3,800.00	3,792.52	3,635.42	3,628.56	10.33	9.77	173.27	-97.17	-2,138.62	2,325.41	2,305.77	19.64	118.406	
3,900.00	3,892.14	3,734.01	3,726.78	10.68	10.11	173.20	-101.15	-2,146.23	2,341.88	2,321.59	20.29	115.410	
4,000.00	3,991.76	3,832.61	3,825.00	11.02	10.45	173.14	-105.14	-2,153.85	2,358.36	2,337.41	20.95	112.576	
4,100.00	4,091.37	3,931.21	3,923.23	11.37	10.79	173.07	-109.12	-2,161.46	2,374.83	2,353.22	21.61	109.893	
4,200.00	4,190.99	4,032.93	4,024.56	11.72	11.15	173.01	-113.23	-2,169.31	2,391.31	2,369.02	22.29	107.293	
4,300.00	4,290.61	4,132.04	4,123.26	12.07	11.70	172.93	-118.53	-2,179.45	2,406.42	2,383.23	23.19	103.776	
4,400.00	4,390.23	4,232.34	4,223.39	12.43	12.24	172.90	-121.80	-2,185.70	2,419.03	2,394.95	24.08	100.444	
4,500.00	4,489.85	4,313.57	4,304.60	12.78	12.77	172.91	-123.00	-2,187.99	2,429.13	2,404.16	24.97	97.290	
4,600.00	4,589.47	4,417.45	4,408.47	13.14	13.09	172.94	-123.00	-2,188.00	2,437.78	2,412.15	25.63	95.099	
4,700.00	4,689.09	4,517.06	4,508.09	13.50	13.40	172.97	-123.00	-2,188.00	2,446.43	2,420.14	26.29	93.057	
4,800.00	4,788.71	4,616.68	4,607.71	13.86	13.71	172.99	-123.00	-2,188.00	2,455.08	2,428.14	26.95	91.104	
4,900.00	4,888.33	4,716.30	4,707.33	14.22	14.00	173.02	-123.00	-2,188.00	2,463.73	2,436.15	27.58	89.318	
5,000.00	4,987.95	5,015.92	5,006.95	14.41	14.13	173.04	-123.00	-2,188.00	2,472.39	2,444.49	27.90	88.616	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 132H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,115.54	5,106.57	14.44	14.14	173.06	-123.00	-2,188.00	2,481.04	2,453.12	27.92	88.859	
5,112.48	5,100.00	5,127.97	5,119.00	14.45	14.14	173.07	-123.00	-2,188.00	2,482.12	2,454.19	27.93	88.884	
5,200.00	5,187.13	5,215.10	5,206.13	14.49	14.16	173.08	-123.00	-2,188.00	2,490.35	2,462.39	27.96	89.065	
5,300.00	5,286.51	5,314.48	5,305.51	14.55	14.19	173.10	-123.00	-2,188.00	2,501.38	2,473.36	28.02	89.270	
5,400.00	5,385.68	5,413.65	5,404.68	14.63	14.23	173.12	-123.00	-2,188.00	2,514.12	2,486.02	28.10	89.475	
5,500.00	5,484.61	5,512.58	5,503.61	14.72	14.27	173.15	-123.00	-2,188.00	2,528.58	2,500.39	28.20	89.681	
5,600.00	5,583.27	5,611.25	5,602.27	14.83	14.33	173.17	-123.00	-2,188.00	2,544.76	2,516.45	28.31	89.886	
5,700.00	5,681.64	5,709.61	5,700.64	14.96	14.39	173.20	-123.00	-2,188.00	2,562.65	2,534.20	28.45	90.090	
5,800.00	5,779.67	5,807.65	5,798.67	15.11	14.46	173.23	-123.00	-2,188.00	2,582.24	2,553.64	28.60	90.294	
5,900.00	5,877.35	5,905.32	5,896.35	15.28	14.54	173.26	-123.00	-2,188.00	2,603.53	2,574.76	28.77	90.497	
6,000.00	5,974.63	6,002.61	5,993.63	15.47	14.62	173.29	-123.00	-2,188.00	2,626.51	2,597.55	28.96	90.699	
6,100.00	6,071.50	6,100.53	6,090.50	15.68	14.72	173.32	-123.00	-2,188.00	2,651.18	2,622.01	29.17	90.898	
6,200.00	6,167.92	6,204.11	6,186.92	15.91	14.83	173.36	-123.00	-2,188.00	2,677.52	2,648.12	29.40	91.074	
6,300.00	6,263.86	6,308.16	6,282.86	16.17	14.95	173.39	-123.00	-2,188.00	2,705.54	2,675.89	29.65	91.244	
6,347.11	6,308.89	6,336.86	6,327.89	16.30	14.98	173.41	-123.00	-2,188.00	2,719.32	2,689.57	29.75	91.395	
6,400.00	6,359.37	6,387.35	6,378.37	16.45	15.04	173.45	-123.00	-2,188.00	2,734.99	2,705.10	29.89	91.497	
6,500.00	6,454.83	6,482.80	6,473.83	16.75	15.16	173.52	-123.00	-2,188.00	2,764.63	2,734.47	30.17	91.650	
6,600.00	6,550.28	6,578.25	6,569.28	17.05	15.29	173.59	-123.00	-2,188.00	2,794.27	2,763.82	30.45	91.751	
6,700.00	6,645.73	6,673.70	6,664.73	17.38	15.42	173.66	-123.00	-2,188.00	2,823.92	2,793.16	30.76	91.805	
6,800.00	6,741.18	6,769.15	6,760.18	17.71	15.56	173.72	-123.00	-2,188.00	2,853.57	2,822.49	31.08	91.813	
6,900.00	6,836.63	6,864.61	6,855.63	18.08	15.71	173.79	-123.00	-2,188.00	2,883.22	2,851.81	31.42	91.778	
7,000.00	6,932.09	6,960.06	6,951.09	18.42	15.86	173.85	-123.00	-2,188.00	2,912.88	2,881.12	31.76	91.703	
7,100.00	7,027.54	7,055.51	7,046.54	18.78	16.02	173.91	-123.00	-2,188.00	2,942.54	2,910.41	32.13	91.592	
7,200.00	7,122.99	7,150.96	7,141.99	19.16	16.18	173.97	-123.00	-2,188.00	2,972.20	2,939.70	32.50	91.445	
7,300.00	7,218.44	7,246.41	7,237.44	19.55	16.35	174.03	-123.00	-2,188.00	3,001.87	2,968.98	32.89	91.267	
7,400.00	7,313.89	7,341.87	7,332.89	19.94	16.53	174.09	-123.00	-2,188.00	3,031.54	2,998.25	33.29	91.059	
7,500.00	7,409.35	7,437.32	7,428.35	20.35	16.71	174.15	-123.00	-2,188.00	3,061.21	3,027.51	33.70	90.824	
7,600.00	7,504.80	7,532.77	7,523.80	20.76	16.89	174.20	-123.00	-2,188.00	3,090.88	3,056.76	34.13	90.565	
7,700.00	7,600.25	7,628.22	7,619.25	21.18	17.08	174.26	-123.00	-2,188.00	3,120.56	3,086.00	34.56	90.283	
7,741.71	7,640.06	7,668.04	7,659.06	21.35	17.16	174.28	-123.00	-2,188.00	3,132.94	3,098.19	34.75	90.159	
7,800.00	7,695.83	7,723.80	7,714.83	21.60	17.28	174.34	-123.00	-2,188.00	3,149.82	3,114.81	35.01	89.971	
7,900.00	7,792.09	7,820.06	7,811.09	22.00	17.48	174.43	-123.00	-2,188.00	3,176.79	3,141.33	35.46	89.584	
8,000.00	7,889.02	7,916.99	7,908.02	22.39	17.69	174.51	-123.00	-2,188.00	3,201.25	3,165.33	35.92	89.118	
8,100.00	7,986.56	8,014.54	8,005.56	22.76	17.90	174.58	-123.00	-2,188.00	3,223.18	3,186.79	36.39	88.580	
8,200.00	8,084.65	8,112.62	8,103.65	23.10	18.12	174.64	-123.00	-2,188.00	3,242.56	3,205.70	36.86	87.972	
8,300.00	8,183.21	8,211.18	8,202.21	23.43	18.34	174.69	-123.00	-2,188.00	3,259.37	3,222.04	37.33	87.301	
8,400.00	8,282.18	8,310.15	8,301.18	23.73	18.57	174.73	-123.00	-2,188.00	3,273.61	3,235.80	37.81	86.570	
8,500.00	8,381.49	8,409.46	8,400.49	24.02	18.80	174.77	-123.00	-2,188.00	3,285.27	3,246.97	38.30	85.784	
8,600.00	8,481.07	8,509.04	8,500.07	24.28	19.04	174.79	-123.00	-2,188.00	3,294.33	3,255.55	38.78	84.946	
8,700.00	8,580.86	8,608.83	8,599.86	24.53	19.28	174.81	-123.00	-2,188.00	3,300.80	3,261.53	39.27	84.060	
8,800.00	8,680.78	8,708.75	8,699.78	24.75	19.52	174.82	-123.00	-2,188.00	3,304.66	3,264.91	39.75	83.129	
8,898.13	8,778.90	8,806.87	8,797.90	24.95	19.77	-90.57	-123.00	-2,188.00	3,305.91	3,265.69	40.22	82.188	
8,900.00	8,780.77	8,808.74	8,799.77	24.96	19.77	-90.57	-123.00	-2,188.00	3,305.91	3,265.68	40.23	82.170	
9,000.00	8,880.77	8,908.74	8,899.77	25.15	20.03	-90.57	-123.00	-2,188.00	3,305.91	3,265.21	40.71	81.208	
9,100.00	8,980.77	9,008.74	8,999.77	25.34	20.28	-90.57	-123.00	-2,188.00	3,305.91	3,264.72	41.19	80.255	
9,200.00	9,080.77	9,108.74	9,099.77	25.54	20.54	-90.57	-123.00	-2,188.00	3,305.91	3,264.23	41.68	79.311	
9,300.00	9,180.77	9,208.74	9,199.77	25.75	20.80	-90.57	-123.00	-2,188.00	3,305.91	3,263.74	42.18	78.377	
9,400.00	9,280.77	9,308.74	9,299.77	25.95	21.07	-90.57	-123.00	-2,188.00	3,305.91	3,263.23	42.68	77.454	
9,500.00	9,380.77	9,408.74	9,399.77	26.16	21.33	-90.57	-123.00	-2,188.00	3,305.91	3,262.72	43.19	76.541	
9,600.00	9,480.77	9,508.74	9,499.77	26.38	21.60	-90.57	-123.00	-2,188.00	3,305.91	3,262.21	43.71	75.640	
9,700.00	9,580.77	9,608.74	9,599.77	26.59	21.88	-90.57	-123.00	-2,188.00	3,305.91	3,261.69	44.23	74.750	
9,800.00	9,680.77	9,708.74	9,699.77	26.81	22.15	-90.57	-123.00	-2,188.00	3,305.91	3,261.16	44.75	73.872	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 132H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,808.74	9,799.77	27.03	22.43	-90.57	-123.00	-2,188.00	3,305.91	3,260.63	45.28	73.006	
10,000.00	9,880.77	9,908.74	9,899.77	27.26	22.71	-90.57	-123.00	-2,188.00	3,305.91	3,260.10	45.82	72.152	
10,100.00	9,980.77	10,008.74	9,999.77	27.49	22.99	-90.57	-123.00	-2,188.00	3,305.91	3,259.56	46.36	71.310	
10,200.00	10,080.77	10,108.74	10,099.77	27.72	23.27	-90.57	-123.00	-2,188.00	3,305.91	3,259.01	46.91	70.481	
10,300.00	10,180.77	10,208.74	10,199.77	27.95	23.56	-90.57	-123.00	-2,188.00	3,305.91	3,258.46	47.46	69.664	
10,400.00	10,280.77	10,308.74	10,299.77	28.19	23.85	-90.57	-123.00	-2,188.00	3,305.91	3,257.91	48.01	68.859	
10,500.00	10,380.77	10,408.74	10,399.77	28.43	24.14	-90.57	-123.00	-2,188.00	3,305.91	3,257.35	48.57	68.067	
10,600.00	10,480.77	10,508.74	10,499.77	28.67	24.43	-90.57	-123.00	-2,188.00	3,305.91	3,256.78	49.13	67.287	
10,700.00	10,580.77	10,608.74	10,599.77	28.91	24.72	-90.57	-123.00	-2,188.00	3,305.91	3,256.22	49.70	66.520	
10,800.00	10,680.77	10,708.74	10,699.77	29.16	25.02	-90.57	-123.00	-2,188.00	3,305.91	3,255.65	50.27	65.765	
10,900.00	10,780.77	10,808.74	10,799.77	29.40	25.31	-90.57	-123.00	-2,188.00	3,305.91	3,255.07	50.84	65.022	
11,000.00	10,880.77	10,908.74	10,899.77	29.65	25.61	-90.57	-123.00	-2,188.00	3,305.91	3,254.49	51.42	64.292	
11,100.00	10,980.77	11,008.74	10,999.77	29.91	25.91	-90.57	-123.00	-2,188.00	3,305.91	3,253.91	52.00	63.573	
11,200.00	11,080.77	11,108.74	11,099.77	30.16	26.21	-90.57	-123.00	-2,188.00	3,305.91	3,253.33	52.59	62.866	
11,300.00	11,180.77	11,208.74	11,199.77	30.42	26.51	-90.57	-123.00	-2,188.00	3,305.91	3,252.74	53.17	62.171	
11,400.00	11,280.77	11,308.74	11,299.77	30.68	26.82	-90.57	-123.00	-2,188.00	3,305.91	3,252.15	53.77	61.488	
11,500.00	11,380.77	11,408.95	11,399.93	30.94	27.12	-90.54	-121.16	-2,188.02	3,305.91	3,251.56	54.36	60.818	
11,520.34	11,401.11	11,429.23	11,420.11	30.99	27.18	-90.51	-119.18	-2,188.03	3,305.91	3,251.44	54.48	60.686	
11,600.00	11,480.77	11,506.63	11,496.16	31.20	27.41	-90.26	-105.09	-2,188.16	3,305.94	3,251.02	54.93	60.189	
11,635.13	11,515.90	11,539.31	11,527.56	31.29	27.50	-90.11	-96.09	-2,188.24	3,306.00	3,250.89	55.12	59.982	
11,650.00	11,530.77	11,552.85	11,540.43	31.33	27.54	-89.49	-91.84	-2,188.28	3,306.04	3,250.84	55.20	59.897	
11,700.00	11,580.63	11,597.77	11,582.28	31.46	27.66	-89.24	-75.58	-2,188.42	3,306.20	3,250.74	55.45	59.620	
11,750.00	11,630.00	11,641.77	11,621.93	31.59	27.77	-89.00	-56.52	-2,188.59	3,306.41	3,250.71	55.70	59.357	
11,800.00	11,678.50	11,684.93	11,659.29	31.71	27.87	-88.77	-34.92	-2,188.78	3,306.68	3,250.73	55.95	59.106	
11,850.00	11,725.77	11,727.35	11,694.31	31.83	27.97	-88.55	-11.02	-2,188.99	3,306.98	3,250.80	56.18	58.865	
11,900.00	11,771.43	11,769.10	11,726.97	31.94	28.06	-88.33	14.98	-2,189.22	3,307.31	3,250.91	56.41	58.632	
11,950.00	11,815.16	11,810.25	11,757.22	32.05	28.15	-88.13	42.86	-2,189.46	3,307.67	3,251.04	56.63	58.407	
12,000.00	11,856.60	11,850.86	11,785.04	32.14	28.24	-87.93	72.44	-2,189.73	3,308.04	3,251.18	56.85	58.187	
12,050.00	11,895.45	11,891.01	11,810.41	32.23	28.33	-87.76	103.53	-2,190.00	3,308.41	3,251.33	57.07	57.969	
12,100.00	11,931.42	11,930.73	11,833.32	32.31	28.43	-87.59	135.98	-2,190.29	3,308.77	3,251.48	57.29	57.752	
12,150.00	11,964.22	11,970.10	11,853.74	32.38	28.53	-87.44	169.62	-2,190.58	3,309.12	3,251.60	57.52	57.535	
12,200.00	11,993.61	12,009.14	11,871.67	32.44	28.64	-87.31	204.30	-2,190.89	3,309.44	3,251.70	57.74	57.315	
12,250.00	12,019.36	12,047.92	11,887.10	32.50	28.74	-87.19	239.87	-2,191.20	3,309.73	3,251.76	57.97	57.091	
12,300.00	12,041.28	12,086.47	11,900.01	32.56	28.85	-87.09	276.18	-2,191.52	3,309.98	3,251.77	58.21	56.862	
12,350.00	12,059.21	12,124.84	11,910.42	32.61	28.97	-87.01	313.10	-2,191.85	3,310.19	3,251.73	58.46	56.626	
12,400.00	12,073.00	12,163.06	11,918.30	37.58	29.08	-86.94	350.49	-2,192.18	3,310.35	3,251.68	58.67	56.419	
12,435.13	12,080.15	12,189.85	11,922.33	37.61	29.16	-86.91	376.97	-2,192.41	3,310.43	3,251.62	58.81	56.286	
12,460.13	12,084.49	12,208.86	11,924.44	37.64	29.22	-86.89	395.86	-2,192.58	3,310.50	3,251.58	58.92	56.187	
12,500.00	12,090.60	12,239.02	11,926.50	37.68	29.32	-86.84	425.95	-2,192.85	3,310.67	3,251.57	59.10	56.022	
12,550.00	12,095.92	12,281.07	11,927.00	37.73	29.45	-86.75	467.99	-2,193.22	3,310.90	3,251.55	59.35	55.784	
12,600.00	12,098.63	12,330.99	11,927.00	37.79	29.64	-86.70	517.91	-2,193.66	3,311.03	3,251.35	59.68	55.484	
12,626.80	12,099.00	12,357.78	11,927.00	37.82	29.74	-86.69	544.70	-2,193.89	3,311.03	3,251.17	59.86	55.312	
12,700.00	12,099.00	12,430.98	11,927.00	37.91	30.04	-86.69	617.90	-2,194.54	3,310.99	3,250.58	60.42	54.803	
12,800.00	12,099.00	12,530.98	11,927.00	38.06	30.50	-86.69	717.90	-2,195.42	3,310.94	3,249.65	61.29	54.025	
12,900.00	12,099.00	12,630.98	11,927.00	38.23	31.03	-86.69	817.89	-2,196.30	3,310.89	3,248.61	62.28	53.165	
13,000.00	12,099.00	12,730.98	11,927.00	38.42	31.61	-86.69	917.89	-2,197.19	3,310.83	3,247.45	63.38	52.236	
13,100.00	12,099.00	12,830.98	11,927.00	38.64	32.25	-86.69	1,017.88	-2,198.07	3,310.78	3,246.18	64.60	51.252	
13,200.00	12,099.00	12,930.98	11,927.00	38.90	32.93	-86.69	1,117.88	-2,198.95	3,310.72	3,244.81	65.92	50.225	
13,300.00	12,099.00	13,030.98	11,927.00	39.20	33.67	-86.69	1,217.88	-2,199.84	3,310.67	3,243.33	67.33	49.167	
13,400.00	12,099.00	13,130.98	11,927.00	39.55	34.45	-86.69	1,317.87	-2,200.72	3,310.61	3,241.77	68.84	48.089	
13,500.00	12,099.00	13,230.98	11,927.00	39.95	35.27	-86.69	1,417.87	-2,201.60	3,310.56	3,240.12	70.44	47.000	
13,600.00	12,099.00	13,330.98	11,927.00	40.40	36.13	-86.69	1,517.86	-2,202.48	3,310.51	3,238.39	72.11	45.908	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 132H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,430.98	11,927.00	40.92	37.02	-86.69	1,617.86	-2,203.37	3,310.45	3,236.59	73.86	44.820	
13,800.00	12,099.00	13,530.98	11,927.00	41.51	37.95	-86.69	1,717.86	-2,204.25	3,310.40	3,234.72	75.68	43.742	
13,900.00	12,099.00	13,630.98	11,927.00	42.15	38.91	-86.69	1,817.85	-2,205.13	3,310.34	3,232.78	77.56	42.680	
14,000.00	12,099.00	13,730.98	11,927.00	42.85	39.90	-86.69	1,917.85	-2,206.01	3,310.29	3,230.78	79.51	41.636	
14,100.00	12,099.00	13,830.98	11,927.00	43.62	40.92	-86.69	2,017.85	-2,206.90	3,310.23	3,228.73	81.50	40.615	
14,200.00	12,099.00	13,930.98	11,927.00	44.43	41.96	-86.69	2,117.84	-2,207.78	3,310.18	3,226.63	83.55	39.618	
14,300.00	12,099.00	14,030.98	11,927.00	45.29	43.03	-86.69	2,217.84	-2,208.66	3,310.13	3,224.47	85.65	38.647	
14,400.00	12,099.00	14,130.98	11,927.00	46.20	44.11	-86.69	2,317.83	-2,209.54	3,310.07	3,222.28	87.79	37.703	
14,500.00	12,099.00	14,230.98	11,927.00	47.14	45.22	-86.69	2,417.83	-2,210.43	3,310.02	3,220.04	89.98	36.787	
14,600.00	12,099.00	14,330.98	11,927.00	48.12	46.35	-86.69	2,517.83	-2,211.31	3,309.96	3,217.76	92.20	35.900	
14,700.00	12,099.00	14,430.98	11,927.00	49.13	47.49	-86.69	2,617.82	-2,212.19	3,309.91	3,215.45	94.46	35.041	
14,800.00	12,099.00	14,530.98	11,927.00	50.17	48.65	-86.69	2,717.82	-2,213.07	3,309.85	3,213.11	96.75	34.211	
14,900.00	12,099.00	14,630.98	11,927.00	51.23	49.82	-86.69	2,817.81	-2,213.96	3,309.80	3,210.73	99.07	33.408	
15,000.00	12,099.00	14,730.98	11,927.00	52.32	51.01	-86.69	2,917.81	-2,214.84	3,309.75	3,208.32	101.42	32.634	
15,100.00	12,099.00	14,830.98	11,927.00	53.43	52.21	-86.69	3,017.81	-2,215.72	3,309.69	3,205.89	103.80	31.886	
15,200.00	12,099.00	14,930.98	11,927.00	54.55	53.42	-86.69	3,117.80	-2,216.60	3,309.64	3,203.44	106.20	31.164	
15,300.00	12,099.00	15,030.98	11,927.00	55.70	54.64	-86.69	3,217.80	-2,217.49	3,309.58	3,200.96	108.63	30.467	
15,400.00	12,099.00	15,130.98	11,927.00	56.86	55.88	-86.69	3,317.79	-2,218.37	3,309.53	3,198.45	111.08	29.795	
15,500.00	12,099.00	15,230.98	11,927.00	58.03	57.12	-86.69	3,417.79	-2,219.25	3,309.48	3,195.93	113.54	29.147	
15,600.00	12,099.00	15,330.98	11,927.00	59.22	58.37	-86.69	3,517.79	-2,220.14	3,309.42	3,193.39	116.03	28.522	
15,700.00	12,099.00	15,430.98	11,927.00	60.43	59.63	-86.69	3,617.78	-2,221.02	3,309.37	3,190.83	118.54	27.919	
15,800.00	12,099.00	15,530.98	11,927.00	61.64	60.90	-86.69	3,717.78	-2,221.90	3,309.31	3,188.25	121.06	27.337	
15,900.00	12,099.00	15,630.98	11,927.00	62.86	62.18	-86.69	3,817.77	-2,222.78	3,309.26	3,185.66	123.60	26.775	
16,000.00	12,099.00	15,730.98	11,927.00	64.10	63.46	-86.69	3,917.77	-2,223.67	3,309.20	3,183.06	126.15	26.233	
16,100.00	12,099.00	15,830.98	11,927.00	65.34	64.75	-86.69	4,017.77	-2,224.55	3,309.15	3,180.44	128.71	25.709	
16,200.00	12,099.00	15,930.98	11,927.00	66.59	66.05	-86.69	4,117.76	-2,225.43	3,309.10	3,177.80	131.29	25.204	
16,300.00	12,099.00	16,030.98	11,927.00	67.85	67.35	-86.69	4,217.76	-2,226.31	3,309.04	3,175.16	133.89	24.715	
16,400.00	12,099.00	16,130.98	11,927.00	69.12	68.66	-86.69	4,317.76	-2,227.20	3,308.99	3,172.50	136.49	24.244	
16,500.00	12,099.00	16,230.98	11,927.00	70.40	69.98	-86.69	4,417.75	-2,228.08	3,308.93	3,169.83	139.10	23.787	
16,600.00	12,099.00	16,330.98	11,927.00	71.68	71.29	-86.69	4,517.75	-2,228.96	3,308.88	3,167.15	141.73	23.346	
16,700.00	12,099.00	16,430.98	11,927.00	72.97	72.62	-86.69	4,617.74	-2,229.84	3,308.82	3,164.46	144.36	22.920	
16,800.00	12,099.00	16,530.98	11,927.00	74.27	73.95	-86.69	4,717.74	-2,230.73	3,308.77	3,161.76	147.01	22.507	
16,900.00	12,099.00	16,630.98	11,927.00	75.57	75.28	-86.69	4,817.74	-2,231.61	3,308.72	3,159.06	149.66	22.108	
16,949.11	12,099.00	16,680.10	11,927.00	76.21	75.93	-86.69	4,866.85	-2,232.04	3,308.69	3,157.72	150.97	21.917 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 133H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	17.00	17.00	0.00	0.02	-90.60	-7.00	-672.00	672.04				
100.00	100.00	117.00	117.00	0.13	0.19	-90.60	-7.00	-672.00	672.04	671.72	0.32	2,130.370	
200.00	200.00	217.00	217.00	0.49	0.55	-90.60	-7.00	-672.00	672.04	671.00	1.03	650.947	
300.00	300.00	317.00	317.00	0.84	0.91	-90.60	-7.00	-672.00	672.04	670.29	1.75	384.165	
400.00	400.00	417.00	417.00	1.20	1.26	-90.60	-7.00	-672.00	672.04	669.57	2.47	272.489	
500.00	500.00	517.00	517.00	1.56	1.62	-90.60	-7.00	-672.00	672.04	668.85	3.18	211.118	
600.00	600.00	617.00	617.00	1.92	1.98	-90.60	-7.00	-672.00	672.04	668.14	3.90	172.310	
700.00	700.00	717.00	717.00	2.28	2.34	-90.60	-7.00	-672.00	672.04	667.42	4.62	145.553	
800.00	800.00	817.00	817.00	2.64	2.70	-90.60	-7.00	-672.00	672.04	666.70	5.33	125.990	
900.00	900.00	917.00	917.00	3.00	3.06	-90.60	-7.00	-672.00	672.04	665.99	6.05	111.062	
1,000.00	1,000.00	1,017.00	1,017.00	3.35	3.41	-90.60	-7.00	-672.00	672.04	665.27	6.77	99.297	
1,100.00	1,100.00	1,117.00	1,117.00	3.71	3.77	-90.60	-7.00	-672.00	672.04	664.55	7.48	89.786	
1,200.00	1,200.00	1,217.00	1,217.00	4.07	4.10	-90.60	-7.00	-672.00	672.04	663.86	8.17	82.236	
1,300.00	1,300.00	1,317.00	1,317.00	4.25	4.26	-90.60	-7.00	-672.00	672.04	663.52	8.51	78.951	
1,400.00	1,400.00	1,417.00	1,417.00	4.28	4.29	-90.60	-7.00	-672.00	672.04	663.46	8.58	78.351	
1,409.84	1,409.84	1,426.84	1,426.84	4.29	4.30	-90.60	-7.00	-672.00	672.04	663.45	8.59	78.244 CC	
1,500.00	1,500.00	1,515.39	1,515.39	4.34	4.36	-90.60	-7.01	-672.02	672.06	663.36	8.70	77.254 ES	
1,600.00	1,599.99	1,605.91	1,605.91	4.43	4.43	174.76	-7.46	-672.87	673.87	665.01	8.86	76.039	
1,700.00	1,699.96	1,696.29	1,696.25	4.54	4.53	174.68	-8.56	-674.98	678.82	669.75	9.07	74.850	
1,800.00	1,799.86	1,786.38	1,786.26	4.68	4.65	174.56	-10.33	-678.33	686.91	677.59	9.32	73.686	
1,900.00	1,899.68	1,876.05	1,875.78	4.84	4.79	174.40	-12.74	-682.92	698.13	688.51	9.62	72.604	
2,000.00	1,999.37	1,965.18	1,964.67	5.02	4.95	174.20	-15.78	-688.71	712.45	702.51	9.95	71.637	
2,100.00	2,098.99	2,059.90	2,059.04	5.22	5.14	173.98	-19.58	-695.92	728.77	718.45	10.32	70.601	
2,200.00	2,198.60	2,158.50	2,157.27	5.45	5.35	173.75	-23.58	-703.53	745.20	734.46	10.74	69.373	
2,300.00	2,298.22	2,257.10	2,255.49	5.69	5.58	173.53	-27.57	-711.13	761.64	750.45	11.19	68.047	
2,400.00	2,397.84	2,355.70	2,353.71	5.94	5.82	173.32	-31.57	-718.74	778.10	766.43	11.67	66.674	
2,500.00	2,497.46	2,454.30	2,451.94	6.21	6.08	173.12	-35.57	-726.34	794.56	782.39	12.17	65.276	
2,600.00	2,597.08	2,552.90	2,550.16	6.49	6.35	172.93	-39.57	-733.95	811.03	798.33	12.70	63.883	
2,700.00	2,696.70	2,651.50	2,648.38	6.78	6.63	172.75	-43.57	-741.56	827.51	814.27	13.24	62.512	
2,800.00	2,796.32	2,750.09	2,746.61	7.07	6.92	172.57	-47.57	-749.16	844.00	830.20	13.80	61.176	
2,900.00	2,895.94	2,848.69	2,844.83	7.38	7.21	172.40	-51.57	-756.77	860.49	846.12	14.37	59.884	
3,000.00	2,995.56	2,947.29	2,943.05	7.69	7.52	172.24	-55.57	-764.37	876.99	862.04	14.96	58.641	
3,100.00	3,095.18	3,045.89	3,041.28	8.00	7.83	172.08	-59.57	-771.98	893.50	877.95	15.55	57.450	
3,200.00	3,194.80	3,144.49	3,139.50	8.32	8.14	171.93	-63.57	-779.59	910.02	893.86	16.16	56.311	
3,300.00	3,294.42	3,243.09	3,237.72	8.65	8.46	171.78	-67.57	-787.19	926.54	909.76	16.78	55.226	
3,400.00	3,394.04	3,341.69	3,335.95	8.98	8.79	171.64	-71.56	-794.80	943.07	925.66	17.40	54.192	
3,500.00	3,493.66	3,440.29	3,434.17	9.31	9.11	171.50	-75.56	-802.41	959.60	941.56	18.03	53.209	
3,600.00	3,593.28	3,538.88	3,532.39	9.65	9.45	171.37	-79.56	-810.01	976.14	957.46	18.67	52.275	
3,700.00	3,692.90	3,637.48	3,630.62	9.99	9.78	171.25	-83.56	-817.62	992.68	973.36	19.32	51.387	
3,800.00	3,792.52	3,736.08	3,728.84	10.33	10.12	171.12	-87.56	-825.22	1,009.23	989.26	19.97	50.543	
3,900.00	3,892.14	3,834.68	3,827.06	10.68	10.46	171.00	-91.56	-832.83	1,025.78	1,005.15	20.62	49.741	
4,000.00	3,991.76	3,933.28	3,925.29	11.02	10.80	170.89	-95.56	-840.44	1,042.33	1,021.05	21.28	48.979	
4,100.00	4,091.37	4,035.44	4,027.06	11.37	11.15	170.77	-99.69	-848.28	1,058.86	1,036.90	21.96	48.216	
4,200.00	4,190.99	4,154.67	4,145.97	11.72	11.57	170.68	-103.74	-856.00	1,074.15	1,051.43	22.72	47.282	
4,300.00	4,290.61	4,274.58	4,265.72	12.07	11.97	170.64	-106.66	-861.55	1,087.54	1,064.07	23.47	46.331	
4,400.00	4,390.23	4,395.08	4,386.16	12.43	12.38	170.65	-108.42	-864.90	1,099.01	1,074.79	24.23	45.366	
4,500.00	4,489.85	4,516.07	4,507.13	12.78	12.78	170.71	-109.00	-866.00	1,108.55	1,083.58	24.97	44.394	
4,600.00	4,589.47	4,615.41	4,606.47	13.14	13.08	170.78	-109.00	-866.00	1,117.16	1,091.54	25.62	43.601	
4,700.00	4,689.09	4,715.03	4,706.09	13.50	13.39	170.86	-109.00	-866.00	1,125.78	1,099.48	26.28	42.840	
4,800.00	4,788.71	4,814.65	4,805.71	13.86	13.70	170.93	-109.00	-866.00	1,134.37	1,107.43	26.94	42.111	
4,900.00	4,888.33	4,914.26	4,905.33	14.22	13.99	170.99	-109.00	-866.00	1,142.98	1,115.40	27.58	41.447	
5,000.00	4,987.95	5,013.88	5,004.95	14.41	14.13	171.06	-109.00	-866.00	1,151.59	1,123.69	27.90	41.281	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 133H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,113.50	5,104.57	14.44	14.14	171.13	-109.00	-866.00	1,160.20	1,132.28	27.92	41.558	
5,112.48	5,100.00	5,125.93	5,117.00	14.45	14.14	171.14	-109.00	-866.00	1,161.27	1,133.35	27.92	41.590	
5,200.00	5,187.13	5,213.06	5,204.13	14.49	14.16	171.19	-109.00	-866.00	1,169.47	1,141.51	27.96	41.830	
5,300.00	5,286.51	5,312.44	5,303.51	14.55	14.19	171.26	-109.00	-866.00	1,180.44	1,152.43	28.02	42.133	
5,400.00	5,385.68	5,411.61	5,402.68	14.63	14.22	171.33	-109.00	-866.00	1,193.14	1,165.04	28.10	42.468	
5,500.00	5,484.61	5,510.55	5,501.61	14.72	14.27	171.42	-109.00	-866.00	1,207.54	1,179.35	28.19	42.832	
5,600.00	5,583.27	5,609.21	5,600.27	14.83	14.32	171.51	-109.00	-866.00	1,223.65	1,195.34	28.31	43.226	
5,700.00	5,681.64	5,707.57	5,698.64	14.96	14.38	171.60	-109.00	-866.00	1,241.47	1,213.03	28.44	43.648	
5,800.00	5,779.67	5,805.61	5,796.67	15.11	14.46	171.71	-109.00	-866.00	1,261.00	1,232.40	28.60	44.097	
5,900.00	5,877.35	5,903.28	5,894.35	15.28	14.53	171.81	-109.00	-866.00	1,282.22	1,253.45	28.77	44.572	
6,000.00	5,974.63	6,000.57	5,991.63	15.47	14.62	171.93	-109.00	-866.00	1,305.13	1,276.17	28.96	45.072	
6,100.00	6,071.50	6,102.56	6,088.50	15.68	14.72	172.04	-109.00	-866.00	1,329.73	1,300.56	29.17	45.586	
6,200.00	6,167.92	6,206.14	6,184.92	15.91	14.83	172.16	-109.00	-866.00	1,356.01	1,326.60	29.40	46.118	
6,300.00	6,263.86	6,289.80	6,280.86	16.17	14.92	172.28	-109.00	-866.00	1,383.96	1,354.33	29.63	46.705	
6,347.11	6,308.89	6,334.82	6,325.89	16.30	14.97	172.34	-109.00	-866.00	1,397.71	1,367.95	29.75	46.977	
6,400.00	6,359.37	6,385.31	6,376.37	16.45	15.03	172.42	-109.00	-866.00	1,413.35	1,383.46	29.89	47.283	
6,500.00	6,454.83	6,480.76	6,471.83	16.75	15.15	172.58	-109.00	-866.00	1,442.93	1,412.76	30.16	47.835	
6,600.00	6,550.28	6,576.21	6,567.28	17.05	15.28	172.73	-109.00	-866.00	1,472.52	1,442.07	30.45	48.351	
6,700.00	6,645.73	6,671.66	6,662.73	17.38	15.42	172.87	-109.00	-866.00	1,502.12	1,471.36	30.76	48.834	
6,800.00	6,741.18	6,767.12	6,758.18	17.71	15.56	173.01	-109.00	-866.00	1,531.73	1,500.65	31.08	49.283	
6,900.00	6,836.63	6,862.57	6,853.63	18.06	15.70	173.14	-109.00	-866.00	1,561.35	1,529.93	31.41	49.701	
7,000.00	6,932.09	6,958.02	6,949.09	18.42	15.85	173.27	-109.00	-866.00	1,590.97	1,559.21	31.76	50.088	
7,100.00	7,027.54	7,053.47	7,044.54	18.78	16.01	173.39	-109.00	-866.00	1,620.60	1,588.47	32.13	50.445	
7,200.00	7,122.99	7,148.92	7,139.99	19.16	16.18	173.51	-109.00	-866.00	1,650.24	1,617.74	32.50	50.774	
7,300.00	7,218.44	7,244.38	7,235.44	19.55	16.35	173.63	-109.00	-866.00	1,679.88	1,646.99	32.89	51.076	
7,400.00	7,313.89	7,339.83	7,330.89	19.94	16.52	173.74	-109.00	-866.00	1,709.53	1,676.24	33.29	51.352	
7,500.00	7,409.35	7,435.28	7,426.35	20.35	16.70	173.85	-109.00	-866.00	1,739.19	1,705.48	33.70	51.604	
7,600.00	7,504.80	7,530.73	7,521.80	20.76	16.89	173.95	-109.00	-866.00	1,768.85	1,734.72	34.13	51.832	
7,700.00	7,600.25	7,626.18	7,617.25	21.18	17.08	174.05	-109.00	-866.00	1,798.51	1,763.95	34.56	52.038	
7,741.71	7,640.06	7,666.00	7,657.06	21.35	17.16	174.09	-109.00	-866.00	1,810.89	1,776.14	34.75	52.118	
7,800.00	7,695.83	7,721.77	7,712.83	21.60	17.27	174.17	-109.00	-866.00	1,827.76	1,792.75	35.01	52.213	
7,900.00	7,792.09	7,818.02	7,809.09	22.00	17.47	174.30	-109.00	-866.00	1,854.73	1,819.27	35.46	52.308	
8,000.00	7,889.02	7,914.95	7,906.02	22.39	17.68	174.41	-109.00	-866.00	1,879.19	1,843.27	35.92	52.320	
8,100.00	7,986.56	8,012.50	8,003.56	22.76	17.89	174.51	-109.00	-866.00	1,901.11	1,864.73	36.38	52.253	
8,200.00	8,084.65	8,110.58	8,101.65	23.10	18.11	174.59	-109.00	-866.00	1,920.48	1,883.63	36.85	52.111	
8,300.00	8,183.21	8,209.14	8,200.21	23.43	18.33	174.66	-109.00	-866.00	1,937.30	1,899.97	37.33	51.897	
8,400.00	8,282.18	8,308.11	8,299.18	23.73	18.56	174.72	-109.00	-866.00	1,951.54	1,913.73	37.81	51.616	
8,500.00	8,381.49	8,407.42	8,398.49	24.02	18.79	174.77	-109.00	-866.00	1,963.20	1,924.90	38.29	51.271	
8,600.00	8,481.07	8,507.00	8,498.07	24.28	19.03	174.80	-109.00	-866.00	1,972.26	1,933.48	38.77	50.864	
8,700.00	8,580.86	8,606.79	8,597.86	24.53	19.27	174.83	-109.00	-866.00	1,978.72	1,939.46	39.26	50.400	
8,800.00	8,680.78	8,706.71	8,697.78	24.75	19.52	174.85	-109.00	-866.00	1,982.59	1,942.84	39.75	49.881	
8,898.13	8,778.90	8,804.83	8,795.90	24.95	19.76	-90.55	-109.00	-866.00	1,983.84	1,943.62	40.22	49.328	
8,900.00	8,780.77	8,806.70	8,797.77	24.96	19.77	-90.55	-109.00	-866.00	1,983.84	1,943.62	40.23	49.317	
9,000.00	8,880.77	8,906.70	8,897.77	25.15	20.02	-90.55	-109.00	-866.00	1,983.84	1,943.14	40.70	48.740	
9,100.00	8,980.77	9,006.70	8,997.77	25.34	20.27	-90.55	-109.00	-866.00	1,983.84	1,942.66	41.19	48.168	
9,200.00	9,080.77	9,106.70	9,097.77	25.54	20.53	-90.55	-109.00	-866.00	1,983.84	1,942.17	41.68	47.601	
9,300.00	9,180.77	9,206.70	9,197.77	25.75	20.79	-90.55	-109.00	-866.00	1,983.84	1,941.67	42.17	47.041	
9,400.00	9,280.77	9,306.70	9,297.77	25.95	21.06	-90.55	-109.00	-866.00	1,983.84	1,941.17	42.68	46.487	
9,500.00	9,380.77	9,406.70	9,397.77	26.16	21.33	-90.55	-109.00	-866.00	1,983.84	1,940.66	43.18	45.939	
9,600.00	9,480.77	9,506.70	9,497.77	26.38	21.60	-90.55	-109.00	-866.00	1,983.84	1,940.14	43.70	45.398	
9,700.00	9,580.77	9,606.70	9,597.77	26.59	21.87	-90.55	-109.00	-866.00	1,983.84	1,939.62	44.22	44.864	
9,800.00	9,680.77	9,706.70	9,697.77	26.81	22.14	-90.55	-109.00	-866.00	1,983.84	1,939.10	44.74	44.337	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 133H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,806.70	9,797.77	27.03	22.42	-90.55	-109.00	-866.00	1,983.84	1,938.57	45.28	43.817	
10,000.00	9,880.77	9,906.70	9,897.77	27.26	22.70	-90.55	-109.00	-866.00	1,983.84	1,938.03	45.81	43.304	
10,100.00	9,980.77	10,006.70	9,997.77	27.49	22.98	-90.55	-109.00	-866.00	1,983.84	1,937.49	46.35	42.799	
10,200.00	10,080.77	10,106.70	10,097.77	27.72	23.26	-90.55	-109.00	-866.00	1,983.84	1,936.94	46.90	42.301	
10,300.00	10,180.77	10,206.70	10,197.77	27.95	23.55	-90.55	-109.00	-866.00	1,983.84	1,936.39	47.45	41.811	
10,400.00	10,280.77	10,306.70	10,297.77	28.19	23.84	-90.55	-109.00	-866.00	1,983.84	1,935.84	48.00	41.328	
10,500.00	10,380.77	10,406.70	10,397.77	28.43	24.13	-90.55	-109.00	-866.00	1,983.84	1,935.28	48.56	40.852	
10,600.00	10,480.77	10,506.70	10,497.77	28.67	24.42	-90.55	-109.00	-866.00	1,983.84	1,934.72	49.12	40.384	
10,700.00	10,580.77	10,606.70	10,597.77	28.91	24.71	-90.55	-109.00	-866.00	1,983.84	1,934.15	49.69	39.924	
10,800.00	10,680.77	10,706.70	10,697.77	29.16	25.01	-90.55	-109.00	-866.00	1,983.84	1,933.58	50.26	39.471	
10,900.00	10,780.77	10,806.70	10,797.77	29.40	25.30	-90.55	-109.00	-866.00	1,983.84	1,933.01	50.84	39.025	
11,000.00	10,880.77	10,906.70	10,897.77	29.65	25.60	-90.55	-109.00	-866.00	1,983.84	1,932.43	51.41	38.586	
11,100.00	10,980.77	11,006.70	10,997.77	29.91	25.90	-90.55	-109.00	-866.00	1,983.84	1,931.85	51.99	38.155	
11,200.00	11,080.77	11,106.70	11,097.77	30.16	26.20	-90.55	-109.00	-866.00	1,983.84	1,931.26	52.58	37.731	
11,300.00	11,180.77	11,206.70	11,197.77	30.42	26.51	-90.55	-109.00	-866.00	1,983.84	1,930.67	53.17	37.313	
11,400.00	11,280.77	11,306.70	11,297.77	30.68	26.81	-90.55	-109.00	-866.00	1,983.84	1,930.08	53.76	36.903	
11,500.00	11,380.77	11,406.71	11,397.77	30.94	27.11	-90.53	-108.38	-866.01	1,983.84	1,929.49	54.35	36.501	
11,501.25	11,382.02	11,407.96	11,399.02	30.94	27.12	-90.53	-108.32	-866.01	1,983.84	1,929.48	54.36	36.496	
11,600.00	11,480.77	11,504.84	11,494.92	31.20	27.41	-90.16	-95.45	-866.13	1,983.88	1,928.96	54.92	36.121	
11,635.13	11,515.90	11,537.90	11,526.98	31.29	27.50	-89.92	-87.37	-866.20	1,983.96	1,928.85	55.11	35.998	
11,650.00	11,530.77	11,551.64	11,540.15	31.33	27.54	-89.27	-83.48	-866.24	1,984.01	1,928.82	55.19	35.947	
11,700.00	11,580.63	11,597.25	11,583.14	31.46	27.66	-88.90	-68.30	-866.38	1,984.23	1,928.77	55.45	35.782	
11,750.00	11,630.00	11,641.98	11,624.01	31.59	27.78	-88.54	-50.13	-866.54	1,984.52	1,928.82	55.70	35.626	
11,800.00	11,678.50	11,685.94	11,662.67	31.71	27.89	-88.18	-29.23	-866.74	1,984.89	1,928.94	55.95	35.479	
11,850.00	11,725.77	11,729.18	11,699.02	31.83	27.99	-87.84	-5.84	-866.95	1,985.30	1,929.12	56.18	35.338	
11,900.00	11,771.43	11,771.78	11,733.01	31.94	28.08	-87.52	19.82	-867.19	1,985.77	1,929.36	56.41	35.203	
11,950.00	11,815.16	11,813.80	11,764.59	32.05	28.17	-87.21	47.54	-867.45	1,986.26	1,929.63	56.63	35.073	
12,000.00	11,856.60	11,855.31	11,793.70	32.14	28.26	-86.92	77.11	-867.72	1,986.77	1,929.92	56.85	34.946	
12,050.00	11,895.45	11,896.36	11,820.30	32.23	28.36	-86.65	108.36	-868.01	1,987.29	1,930.22	57.07	34.822	
12,100.00	11,931.42	11,937.01	11,844.38	32.31	28.46	-86.41	141.10	-868.31	1,987.80	1,930.51	57.29	34.698	
12,150.00	11,964.22	11,977.30	11,865.89	32.38	28.56	-86.18	175.15	-868.62	1,988.29	1,930.78	57.51	34.573	
12,200.00	11,993.61	12,017.28	11,884.83	32.44	28.66	-85.98	210.36	-868.95	1,988.74	1,931.01	57.73	34.447	
12,250.00	12,019.36	12,057.01	11,901.16	32.50	28.77	-85.81	246.56	-869.28	1,989.16	1,931.20	57.96	34.319	
12,300.00	12,041.28	12,096.51	11,914.87	32.56	28.88	-85.66	283.59	-869.62	1,989.52	1,931.32	58.20	34.186	
12,350.00	12,059.21	12,135.83	11,925.96	32.61	29.00	-85.54	321.31	-869.97	1,989.82	1,931.38	58.44	34.049	
12,400.00	12,073.00	12,175.01	11,934.41	37.58	29.12	-85.44	359.56	-870.33	1,990.06	1,931.41	58.65	33.930	
12,435.13	12,080.15	12,202.48	11,938.77	37.61	29.20	-85.39	386.68	-870.58	1,990.18	1,931.39	58.79	33.853	
12,460.13	12,084.49	12,221.98	11,941.07	37.64	29.26	-85.36	406.04	-870.76	1,990.29	1,931.40	58.89	33.795	
12,500.00	12,090.60	12,252.93	11,943.36	37.68	29.36	-85.28	436.90	-871.04	1,990.54	1,931.47	59.07	33.700	
12,550.00	12,095.92	12,294.89	11,944.00	37.73	29.49	-85.15	478.85	-871.43	1,990.91	1,931.60	59.31	33.566	
12,600.00	12,098.63	12,344.81	11,944.00	37.79	29.68	-85.06	528.77	-871.89	1,991.13	1,931.50	59.63	33.389	
12,626.80	12,099.00	12,371.61	11,944.00	37.82	29.78	-85.04	555.56	-872.14	1,991.16	1,931.34	59.82	33.288	
12,700.00	12,099.00	12,444.81	11,944.00	37.91	30.08	-85.04	628.76	-872.81	1,991.15	1,930.78	60.37	32.982	
12,800.00	12,099.00	12,544.81	11,944.00	38.06	30.54	-85.04	728.75	-873.74	1,991.14	1,929.90	61.24	32.516	
12,900.00	12,099.00	12,644.81	11,944.00	38.23	31.06	-85.04	828.75	-874.66	1,991.12	1,928.90	62.22	32.001	
13,000.00	12,099.00	12,744.81	11,944.00	38.42	31.64	-85.04	928.75	-875.58	1,991.11	1,927.79	63.32	31.444	
13,100.00	12,099.00	12,844.81	11,944.00	38.64	32.27	-85.04	1,028.74	-876.51	1,991.10	1,926.56	64.53	30.854	
13,200.00	12,099.00	12,944.81	11,944.00	38.90	32.96	-85.04	1,128.74	-877.43	1,991.08	1,925.24	65.85	30.237	
13,300.00	12,099.00	13,044.81	11,944.00	39.20	33.69	-85.04	1,228.73	-878.35	1,991.07	1,923.81	67.26	29.602	
13,400.00	12,099.00	13,144.81	11,944.00	39.55	34.46	-85.04	1,328.73	-879.27	1,991.06	1,922.29	68.76	28.955	
13,500.00	12,099.00	13,244.81	11,944.00	39.95	35.28	-85.04	1,428.73	-880.20	1,991.04	1,920.69	70.35	28.301	
13,600.00	12,099.00	13,344.81	11,944.00	40.40	36.14	-85.04	1,528.72	-881.12	1,991.03	1,919.01	72.02	27.645	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 133H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,444.81	11,944.00	40.92	37.03	-85.04	1,628.72	-882.04	1,991.02	1,917.25	73.77	26.991	
13,800.00	12,099.00	13,544.81	11,944.00	41.51	37.96	-85.04	1,728.71	-882.97	1,991.00	1,915.42	75.58	26.343	
13,900.00	12,099.00	13,644.81	11,944.00	42.15	38.92	-85.04	1,828.71	-883.89	1,990.99	1,913.53	77.46	25.704	
14,000.00	12,099.00	13,744.81	11,944.00	42.85	39.91	-85.04	1,928.70	-884.81	1,990.97	1,911.58	79.39	25.077	
14,100.00	12,099.00	13,844.81	11,944.00	43.62	40.93	-85.04	2,028.70	-885.74	1,990.96	1,909.57	81.39	24.463	
14,200.00	12,099.00	13,944.81	11,944.00	44.43	41.97	-85.04	2,128.70	-886.66	1,990.95	1,907.51	83.43	23.863	
14,300.00	12,099.00	14,044.81	11,944.00	45.29	43.03	-85.04	2,228.69	-887.58	1,990.93	1,905.41	85.53	23.279	
14,400.00	12,099.00	14,144.81	11,944.00	46.20	44.11	-85.04	2,328.69	-888.51	1,990.92	1,903.26	87.66	22.711	
14,500.00	12,099.00	14,244.81	11,944.00	47.14	45.22	-85.04	2,428.68	-889.43	1,990.91	1,901.06	89.84	22.160	
14,600.00	12,099.00	14,344.81	11,944.00	48.12	46.34	-85.04	2,528.68	-890.35	1,990.89	1,898.83	92.06	21.626	
14,700.00	12,099.00	14,444.81	11,944.00	49.13	47.48	-85.04	2,628.67	-891.28	1,990.88	1,896.57	94.31	21.109	
14,800.00	12,099.00	14,544.81	11,944.00	50.17	48.64	-85.04	2,728.67	-892.20	1,990.87	1,894.27	96.60	20.610	
14,900.00	12,099.00	14,644.81	11,944.00	51.23	49.81	-85.04	2,828.67	-893.12	1,990.85	1,891.94	98.92	20.127	
15,000.00	12,099.00	14,744.81	11,944.00	52.32	51.00	-85.04	2,928.66	-894.05	1,990.84	1,889.58	101.26	19.660	
15,100.00	12,099.00	14,844.81	11,944.00	53.43	52.20	-85.04	3,028.66	-894.97	1,990.82	1,887.19	103.63	19.210	
15,200.00	12,099.00	14,944.81	11,944.00	54.55	53.41	-85.04	3,128.65	-895.89	1,990.81	1,884.78	106.03	18.775	
15,300.00	12,099.00	15,044.81	11,944.00	55.70	54.63	-85.04	3,228.65	-896.82	1,990.80	1,882.34	108.45	18.356	
15,400.00	12,099.00	15,144.81	11,944.00	56.86	55.86	-85.04	3,328.64	-897.74	1,990.78	1,879.89	110.90	17.952	
15,500.00	12,099.00	15,244.81	11,944.00	58.03	57.11	-85.04	3,428.64	-898.66	1,990.77	1,877.41	113.36	17.561	
15,600.00	12,099.00	15,344.81	11,944.00	59.22	58.36	-85.04	3,528.64	-899.59	1,990.76	1,874.91	115.84	17.185	
15,700.00	12,099.00	15,444.81	11,944.00	60.43	59.62	-85.04	3,628.63	-900.51	1,990.74	1,872.40	118.34	16.822	
15,800.00	12,099.00	15,544.81	11,944.00	61.64	60.89	-85.04	3,728.63	-901.43	1,990.73	1,869.87	120.86	16.471	
15,900.00	12,099.00	15,644.81	11,944.00	62.86	62.16	-85.04	3,828.62	-902.36	1,990.72	1,867.32	123.39	16.133	
16,000.00	12,099.00	15,744.81	11,944.00	64.10	63.45	-85.04	3,928.62	-903.28	1,990.70	1,864.76	125.94	15.806	
16,100.00	12,099.00	15,844.81	11,944.00	65.34	64.74	-85.04	4,028.61	-904.20	1,990.69	1,862.18	128.50	15.491	
16,200.00	12,099.00	15,944.81	11,944.00	66.59	66.03	-85.04	4,128.61	-905.13	1,990.67	1,859.60	131.08	15.187	
16,300.00	12,099.00	16,044.81	11,944.00	67.85	67.34	-85.04	4,228.61	-906.05	1,990.66	1,856.99	133.67	14.893	
16,400.00	12,099.00	16,144.81	11,944.00	69.12	68.64	-85.04	4,328.60	-906.97	1,990.65	1,854.38	136.27	14.609	
16,500.00	12,099.00	16,244.81	11,944.00	70.40	69.96	-85.04	4,428.60	-907.90	1,990.63	1,851.76	138.88	14.334	
16,600.00	12,099.00	16,344.81	11,944.00	71.68	71.28	-85.04	4,528.59	-908.82	1,990.62	1,849.12	141.50	14.068	
16,700.00	12,099.00	16,444.81	11,944.00	72.97	72.60	-85.04	4,628.59	-909.74	1,990.61	1,846.48	144.13	13.812	
16,800.00	12,099.00	16,544.81	11,944.00	74.27	73.93	-85.04	4,728.58	-910.67	1,990.59	1,843.83	146.77	13.563	
16,900.00	12,099.00	16,644.81	11,944.00	75.57	75.26	-85.04	4,828.58	-911.59	1,990.58	1,841.17	149.41	13.323	
16,949.11	12,099.00	16,693.92	11,944.00	76.21	75.91	-85.04	4,877.69	-912.04	1,990.57	1,839.86	150.72	13.207 SF	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 134H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.00	0.00	-30.00	30.00				
100.00	100.00	101.00	101.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.74	0.26	116.234	
200.00	200.00	201.00	201.00	0.49	0.49	-90.00	0.00	-30.00	30.00	29.02	0.98	30.768	
300.00	300.00	301.00	301.00	0.84	0.85	-90.00	0.00	-30.00	30.00	28.31	1.69	17.731	
400.00	400.00	401.00	401.00	1.20	1.21	-90.00	0.00	-30.00	30.00	27.59	2.41	12.454	
500.00	500.00	501.00	501.00	1.56	1.56	-90.00	0.00	-30.00	30.00	26.87	3.13	9.597	
600.00	600.00	601.00	601.00	1.92	1.92	-90.00	0.00	-30.00	30.00	26.16	3.84	7.807	
700.00	700.00	701.00	701.00	2.28	2.28	-90.00	0.00	-30.00	30.00	25.44	4.56	6.579	
800.00	800.00	801.00	801.00	2.64	2.64	-90.00	0.00	-30.00	30.00	24.72	5.28	5.685	
900.00	900.00	901.00	901.00	3.00	3.00	-90.00	0.00	-30.00	30.00	24.01	5.99	5.005	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-90.00	0.00	-30.00	30.00	23.29	6.71	4.471	
1,100.00	1,100.00	1,101.00	1,101.00	3.71	3.72	-90.00	0.00	-30.00	30.00	22.57	7.43	4.039	
1,200.00	1,200.00	1,201.00	1,201.00	4.07	4.07	-90.00	0.00	-30.00	30.00	21.86	8.14	3.684	
1,300.00	1,300.00	1,301.00	1,301.00	4.25	4.25	-90.00	0.00	-30.00	30.00	21.49	8.51	3.526	
1,400.00	1,400.00	1,401.00	1,401.00	4.28	4.28	-90.00	0.00	-30.00	30.00	21.43	8.57	3.502	
1,500.00	1,500.00	1,501.00	1,501.00	4.34	4.34	-90.00	0.00	-30.00	30.00	21.31	8.69	3.453	CC, ES
1,600.00	1,599.99	1,600.99	1,600.99	4.43	4.43	175.52	0.00	-30.00	30.87	22.01	8.86	3.484	
1,700.00	1,699.96	1,700.96	1,700.96	4.54	4.55	175.87	0.00	-30.00	33.48	24.39	9.09	3.685	
1,800.00	1,799.86	1,801.51	1,801.51	4.68	4.68	176.10	-0.17	-29.12	36.95	27.60	9.36	3.950	
1,900.00	1,899.68	1,902.12	1,902.08	4.84	4.84	176.03	-0.67	-26.50	40.44	30.77	9.67	4.184	
2,000.00	1,999.37	2,002.79	2,002.65	5.02	5.02	175.72	-1.50	-22.14	43.94	33.92	10.02	4.386	
2,100.00	2,098.99	2,103.54	2,103.20	5.22	5.22	175.13	-2.67	-16.05	46.58	36.17	10.41	4.477	
2,200.00	2,198.60	2,204.34	2,203.69	5.45	5.43	174.18	-4.17	-8.21	47.51	36.68	10.83	4.388	
2,300.00	2,298.22	2,304.30	2,303.27	5.69	5.67	173.06	-5.81	0.34	47.66	36.38	11.29	4.223	
2,400.00	2,397.84	2,404.30	2,402.88	5.94	5.92	171.94	-7.44	8.90	47.84	36.06	11.77	4.063	
2,500.00	2,497.46	2,504.29	2,502.50	6.21	6.18	170.84	-9.08	17.46	48.03	35.74	12.29	3.909	
2,600.00	2,597.08	2,604.29	2,602.11	6.49	6.45	169.74	-10.72	26.02	48.24	35.42	12.82	3.763	
2,700.00	2,696.70	2,704.28	2,701.73	6.76	6.73	168.65	-12.36	34.58	48.47	35.09	13.37	3.624	
2,800.00	2,796.32	2,804.28	2,801.34	7.07	7.03	167.57	-14.00	43.14	48.71	34.77	13.94	3.493	
2,900.00	2,895.94	2,904.27	2,900.96	7.38	7.33	166.51	-15.63	51.70	48.97	34.44	14.53	3.370	
3,000.00	2,995.56	3,004.27	3,000.57	7.69	7.64	165.45	-17.27	60.26	49.25	34.12	15.13	3.255	
3,100.00	3,095.18	3,104.26	3,100.19	8.00	7.95	164.41	-18.91	68.82	49.55	33.81	15.74	3.148	
3,200.00	3,194.80	3,204.26	3,199.80	8.32	8.27	163.38	-20.55	77.38	49.86	33.50	16.36	3.047	
3,300.00	3,294.42	3,304.26	3,299.42	8.65	8.59	162.36	-22.19	85.94	50.19	33.19	17.00	2.953	
3,400.00	3,394.04	3,404.25	3,399.03	8.98	8.92	161.36	-23.82	94.50	50.53	32.89	17.64	2.865	
3,500.00	3,493.66	3,504.25	3,498.65	9.31	9.25	160.37	-25.46	103.06	50.89	32.60	18.29	2.783	
3,600.00	3,593.28	3,604.24	3,598.26	9.65	9.59	159.39	-27.10	111.62	51.26	32.32	18.94	2.706	
3,700.00	3,692.90	3,704.24	3,697.88	9.99	9.92	158.43	-28.74	120.18	51.65	32.04	19.61	2.634	
3,800.00	3,792.52	3,804.23	3,797.49	10.33	10.26	157.49	-30.38	128.74	52.05	31.77	20.27	2.567	
3,900.00	3,892.14	3,904.23	3,897.11	10.68	10.61	156.55	-32.01	137.30	52.47	31.52	20.95	2.504	
4,000.00	3,991.76	4,004.22	3,996.72	11.02	10.95	155.64	-33.65	145.86	52.90	31.27	21.63	2.446	
4,100.00	4,091.37	4,104.22	4,096.34	11.37	11.30	154.73	-35.29	154.42	53.34	31.02	22.31	2.390	
4,200.00	4,190.99	4,204.22	4,195.95	11.72	11.65	153.85	-36.93	162.98	53.79	30.79	23.00	2.339	
4,300.00	4,290.61	4,304.21	4,295.57	12.07	12.00	152.98	-38.57	171.54	54.26	30.57	23.70	2.290	
4,400.00	4,390.23	4,404.21	4,395.18	12.43	12.36	152.12	-40.20	180.10	54.74	30.35	24.39	2.244	
4,500.00	4,489.85	4,504.20	4,494.80	12.78	12.71	151.28	-41.84	188.66	55.24	30.14	25.09	2.201	
4,600.00	4,589.47	4,604.20	4,594.41	13.14	13.07	150.45	-43.48	197.22	55.74	29.94	25.80	2.161	
4,700.00	4,689.09	4,704.19	4,694.03	13.50	13.42	149.64	-45.12	205.78	56.26	29.75	26.50	2.123	
4,800.00	4,788.71	4,804.19	4,793.64	13.86	13.78	148.84	-46.76	214.34	56.78	29.57	27.21	2.087	
4,900.00	4,888.33	4,904.18	4,893.26	14.22	14.14	148.06	-48.39	222.90	57.32	29.40	27.93	2.053	
5,000.00	4,987.95	5,004.18	4,992.87	14.41	14.32	147.30	-50.03	231.46	57.87	29.59	28.29	2.046	SF
5,100.00	5,087.57	5,104.18	5,092.49	14.44	14.35	146.54	-51.67	240.02	58.43	30.10	28.33	2.062	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 134H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,112.48	5,100.00	5,116.65	5,104.92	14.45	14.36	146.45	-51.87	241.09	58.50	30.16	28.34	2.064	
5,200.00	5,187.13	5,204.17	5,192.10	14.49	14.40	146.16	-53.31	248.58	59.55	31.16	28.40	2.097	
5,300.00	5,286.51	5,304.13	5,291.68	14.55	14.45	146.68	-54.95	257.14	62.12	33.65	28.47	2.182	
5,400.00	5,385.68	5,404.04	5,391.21	14.63	14.51	147.98	-56.58	265.69	66.16	37.62	28.54	2.318	
5,500.00	5,484.61	5,503.86	5,490.65	14.72	14.59	149.82	-58.22	274.23	71.73	43.11	28.63	2.506	
5,600.00	5,583.27	5,603.55	5,589.97	14.83	14.67	152.00	-59.85	282.77	78.91	50.19	28.72	2.747	
5,700.00	5,681.64	5,703.10	5,689.14	14.96	14.76	154.30	-61.48	291.29	87.75	58.91	28.83	3.043	
5,800.00	5,779.67	5,802.47	5,788.13	15.11	14.86	156.58	-63.11	299.80	98.30	69.33	28.96	3.394	
5,900.00	5,877.35	5,901.63	5,886.91	15.28	14.96	158.74	-64.73	308.28	110.59	81.48	29.11	3.799	
6,000.00	5,974.63	6,000.56	5,985.46	15.47	15.08	160.73	-66.35	316.75	124.64	95.36	29.27	4.258	
6,100.00	6,071.50	6,100.79	6,083.73	15.68	15.21	162.51	-67.97	325.20	140.46	111.00	29.46	4.767	
6,200.00	6,167.92	6,202.44	6,181.71	15.91	15.34	164.10	-69.58	333.62	158.05	128.37	29.68	5.326	
6,300.00	6,263.86	6,304.42	6,279.36	16.17	15.49	165.51	-71.19	342.01	177.40	147.49	29.91	5.931	
6,347.11	6,308.89	6,341.63	6,325.24	16.30	15.54	166.11	-71.94	345.95	187.12	157.10	30.02	6.234	
6,400.00	6,359.37	6,406.71	6,376.70	16.45	15.64	166.76	-72.79	350.37	198.26	168.10	30.17	6.572	
6,500.00	6,454.83	6,509.04	6,474.00	16.75	15.80	167.80	-74.39	358.73	219.39	188.95	30.44	7.207	
6,600.00	6,550.28	6,588.63	6,571.30	17.05	15.94	168.66	-75.99	367.09	240.58	209.88	30.70	7.835	
6,700.00	6,645.73	6,686.30	6,668.60	17.38	16.10	169.38	-77.59	375.45	261.81	230.80	31.01	8.443	
6,800.00	6,741.18	6,783.98	6,765.90	17.71	16.28	169.99	-79.19	383.81	283.07	251.74	31.33	9.034	
6,900.00	6,836.63	6,881.65	6,863.20	18.08	16.46	170.51	-80.79	392.18	304.36	272.69	31.67	9.610	
7,000.00	6,932.09	6,979.32	6,960.50	18.42	16.64	170.97	-82.39	400.54	325.68	293.65	32.03	10.169	
7,100.00	7,027.54	7,076.99	7,057.80	18.78	16.84	171.37	-83.99	408.90	347.00	314.61	32.40	10.711	
7,200.00	7,122.99	7,174.66	7,155.10	19.16	17.04	171.73	-85.59	417.26	368.35	335.57	32.78	11.237	
7,300.00	7,218.44	7,272.34	7,252.40	19.55	17.24	172.04	-87.19	425.62	389.70	356.52	33.18	11.746	
7,400.00	7,313.89	7,370.01	7,349.70	19.94	17.45	172.32	-88.79	433.98	411.07	377.48	33.59	12.238	
7,500.00	7,409.35	7,466.96	7,446.29	20.35	17.66	172.58	-90.37	442.27	432.45	398.43	34.01	12.715	
7,600.00	7,504.80	7,564.46	7,533.54	20.76	17.85	172.82	-91.59	448.64	455.08	420.66	34.42	13.221	
7,700.00	7,600.25	7,640.99	7,619.96	21.18	18.04	173.09	-92.43	453.00	479.87	445.05	34.83	13.779	
7,741.71	7,640.06	7,676.78	7,655.73	21.35	18.11	173.22	-92.66	454.24	490.85	455.86	34.99	14.027	
7,800.00	7,695.83	7,726.60	7,705.53	21.60	18.21	173.41	-92.89	455.42	506.38	471.16	35.22	14.376	
7,900.00	7,792.09	7,814.16	7,793.09	22.00	18.38	173.75	-93.00	456.00	532.67	497.05	35.62	14.954	
8,000.00	7,889.02	7,911.10	7,890.02	22.39	18.57	174.06	-93.00	456.00	557.10	521.05	36.06	15.451	
8,100.00	7,986.56	8,008.64	7,987.56	22.76	18.76	174.32	-93.00	456.00	579.02	542.51	36.50	15.862	
8,200.00	8,084.65	8,106.72	8,085.65	23.10	18.96	174.53	-93.00	456.00	598.39	561.43	36.95	16.193	
8,300.00	8,183.21	8,205.28	8,184.21	23.43	19.16	174.71	-93.00	456.00	615.20	577.79	37.41	16.444	
8,400.00	8,282.18	8,304.25	8,283.18	23.73	19.37	174.85	-93.00	456.00	629.44	591.57	37.87	16.619	
8,500.00	8,381.49	8,403.56	8,382.49	24.02	19.58	174.96	-93.00	456.00	641.10	602.76	38.34	16.722	
8,600.00	8,481.07	8,503.14	8,482.07	24.28	19.80	175.04	-93.00	456.00	650.17	611.36	38.81	16.753	
8,700.00	8,580.86	8,602.93	8,581.86	24.53	20.02	175.10	-93.00	456.00	656.64	617.36	39.28	16.717	
8,800.00	8,680.78	8,702.85	8,681.78	24.75	20.24	175.13	-93.00	456.00	660.50	620.75	39.75	16.616	
8,898.13	8,778.90	8,800.98	8,779.90	24.95	20.47	-90.26	-93.00	456.00	661.76	621.55	40.21	16.458	
8,900.00	8,780.77	8,802.84	8,781.77	24.96	20.47	-90.26	-93.00	456.00	661.76	621.54	40.22	16.454	
9,000.00	8,880.77	8,902.84	8,881.77	25.15	20.71	-90.26	-93.00	456.00	661.76	621.07	40.68	16.266	
9,100.00	8,980.77	9,002.84	8,981.77	25.34	20.94	-90.26	-93.00	456.00	661.76	620.60	41.15	16.080	
9,200.00	9,080.77	9,102.84	9,081.77	25.54	21.18	-90.26	-93.00	456.00	661.76	620.13	41.63	15.895	
9,300.00	9,180.77	9,202.84	9,181.77	25.75	21.43	-90.26	-93.00	456.00	661.76	619.64	42.12	15.712	
9,400.00	9,280.77	9,302.84	9,281.77	25.95	21.68	-90.26	-93.00	456.00	661.76	619.15	42.61	15.531	
9,500.00	9,380.77	9,402.84	9,381.77	26.16	21.93	-90.26	-93.00	456.00	661.76	618.65	43.11	15.352	
9,600.00	9,480.77	9,502.84	9,481.77	26.38	22.18	-90.26	-93.00	456.00	661.76	618.15	43.61	15.174	
9,700.00	9,580.77	9,602.84	9,581.77	26.59	22.43	-90.26	-93.00	456.00	661.76	617.64	44.12	14.999	
9,800.00	9,680.77	9,702.84	9,681.77	26.81	22.69	-90.26	-93.00	456.00	661.76	617.12	44.64	14.826	
9,900.00	9,780.77	9,802.84	9,781.77	27.03	22.95	-90.26	-93.00	456.00	661.76	616.60	45.16	14.655	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 134H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,880.77	9,902.84	9,881.77	27.26	23.22	-90.26	-93.00	456.00	661.76	616.07	45.68	14.486	
10,100.00	9,980.77	10,002.84	9,981.77	27.49	23.48	-90.26	-93.00	456.00	661.76	615.54	46.21	14.319	
10,200.00	10,080.77	10,102.84	10,081.77	27.72	23.75	-90.26	-93.00	456.00	661.76	615.01	46.75	14.155	
10,300.00	10,180.77	10,202.84	10,181.77	27.95	24.02	-90.26	-93.00	456.00	661.76	614.47	47.29	13.993	
10,400.00	10,280.77	10,302.84	10,281.77	28.19	24.30	-90.26	-93.00	456.00	661.76	613.92	47.84	13.834	
10,500.00	10,380.77	10,402.84	10,381.77	28.43	24.57	-90.26	-93.00	456.00	661.76	613.37	48.39	13.676	
10,600.00	10,480.77	10,502.84	10,481.77	28.67	24.85	-90.26	-93.00	456.00	661.76	612.81	48.94	13.521	
10,700.00	10,580.77	10,602.84	10,581.77	28.91	25.13	-90.26	-93.00	456.00	661.76	612.26	49.50	13.369	
10,800.00	10,680.77	10,702.84	10,681.77	29.16	25.41	-90.26	-93.00	456.00	661.76	611.69	50.06	13.218	
10,900.00	10,780.77	10,802.84	10,781.77	29.40	25.70	-90.26	-93.00	456.00	661.76	611.13	50.63	13.071	
11,000.00	10,880.77	10,902.84	10,881.77	29.65	25.98	-90.26	-93.00	456.00	661.76	610.56	51.20	12.925	
11,100.00	10,980.77	11,002.84	10,981.77	29.91	26.27	-90.26	-93.00	456.00	661.76	609.98	51.77	12.782	
11,200.00	11,080.77	11,102.84	11,081.77	30.16	26.56	-90.26	-93.00	456.00	661.76	609.41	52.35	12.641	
11,300.00	11,180.77	11,202.84	11,181.77	30.42	26.85	-90.26	-93.00	456.00	661.76	608.82	52.93	12.502	
11,400.00	11,280.77	11,302.84	11,281.77	30.68	27.14	-90.26	-93.00	456.00	661.76	608.24	53.52	12.365	
11,415.02	11,295.79	11,317.86	11,296.79	30.72	27.19	-90.26	-93.00	456.00	661.76	608.15	53.60	12.345	
11,500.00	11,380.77	11,402.82	11,381.74	30.94	27.44	-90.26	-92.98	456.00	661.76	607.65	54.10	12.231	
11,600.00	11,480.77	11,501.15	11,479.52	31.20	27.72	-89.46	-83.76	455.91	661.87	607.21	54.66	12.108	
11,635.13	11,515.90	11,534.58	11,512.22	31.29	27.81	-88.86	-76.83	455.85	662.05	607.20	54.84	12.072	
11,650.00	11,530.77	11,548.51	11,525.71	31.33	27.85	-88.03	-73.38	455.82	662.16	607.24	54.92	12.057	
11,700.00	11,580.63	11,594.80	11,569.88	31.46	27.97	-87.05	-59.57	455.69	662.67	607.50	55.17	12.012	
11,750.00	11,630.00	11,640.30	11,612.08	31.59	28.09	-86.10	-42.57	455.53	663.35	607.95	55.40	11.973	
11,800.00	11,678.50	11,685.09	11,652.17	31.71	28.20	-85.18	-22.62	455.35	664.19	608.55	55.64	11.938	
11,850.00	11,725.77	11,729.23	11,690.03	31.83	28.30	-84.30	0.04	455.14	665.15	609.29	55.86	11.907	
11,900.00	11,771.43	11,772.77	11,725.56	31.94	28.39	-83.47	25.19	454.91	666.21	610.13	56.08	11.880	
11,950.00	11,815.16	11,815.78	11,758.68	32.05	28.47	-82.68	52.60	454.66	667.33	611.05	56.29	11.856	
12,000.00	11,856.60	11,858.31	11,789.32	32.14	28.55	-81.94	82.08	454.38	668.50	612.01	56.49	11.834	
12,050.00	11,895.45	11,900.40	11,817.42	32.23	28.63	-81.26	113.41	454.09	669.66	612.98	56.69	11.813	
12,100.00	11,931.42	11,942.12	11,842.92	32.31	28.70	-80.64	146.42	453.79	670.81	613.93	56.88	11.793	
12,150.00	11,964.22	11,983.50	11,865.77	32.38	28.76	-80.07	180.91	453.47	671.90	614.82	57.08	11.772	
12,200.00	11,993.61	12,024.60	11,885.94	32.44	28.83	-79.58	216.70	453.14	672.92	615.65	57.27	11.750	
12,250.00	12,019.36	12,065.45	11,903.40	32.50	28.91	-79.15	253.62	452.80	673.83	616.37	57.46	11.726	
12,300.00	12,041.28	12,106.09	11,918.12	32.56	29.00	-78.79	291.49	452.45	674.62	616.96	57.66	11.700	
12,350.00	12,059.21	12,146.56	11,930.07	32.61	29.10	-78.50	330.15	452.09	675.27	617.41	57.86	11.670	
12,400.00	12,073.00	12,186.91	11,939.24	37.58	29.20	-78.28	369.43	451.73	675.77	617.75	58.02	11.647	
12,435.13	12,080.15	12,215.21	11,944.01	37.61	29.29	-78.17	397.32	451.47	676.02	617.89	58.12	11.631	
12,460.13	12,084.49	12,235.30	11,946.56	37.64	29.35	-78.09	417.25	451.29	676.26	618.06	58.20	11.619	
12,500.00	12,090.60	12,267.20	11,949.16	37.68	29.45	-77.87	449.04	451.00	676.85	618.52	58.32	11.605	
12,550.00	12,095.92	12,309.24	11,950.00	37.73	29.59	-77.52	491.05	450.61	677.75	619.24	58.51	11.583	
12,600.00	12,098.63	12,359.16	11,950.00	37.79	29.76	-77.26	540.97	450.15	678.34	619.53	58.81	11.535	
12,626.80	12,099.00	12,385.95	11,950.00	37.82	29.88	-77.23	567.77	449.90	678.42	619.44	58.98	11.502	
12,700.00	12,099.00	12,459.15	11,950.00	37.91	30.19	-77.23	640.97	449.22	678.41	618.88	59.53	11.397	
12,800.00	12,099.00	12,559.15	11,950.00	38.06	30.67	-77.23	740.96	448.30	678.40	618.02	60.37	11.236	
12,900.00	12,099.00	12,659.15	11,950.00	38.23	31.20	-77.23	840.96	447.38	678.38	617.04	61.34	11.059	
13,000.00	12,099.00	12,759.15	11,950.00	38.42	31.79	-77.22	940.95	446.45	678.37	615.94	62.43	10.867	
13,100.00	12,099.00	12,859.15	11,950.00	38.64	32.44	-77.22	1,040.95	445.53	678.36	614.74	63.62	10.663	
13,200.00	12,099.00	12,959.15	11,950.00	38.90	33.13	-77.22	1,140.94	444.61	678.34	613.43	64.91	10.451	
13,300.00	12,099.00	13,059.15	11,950.00	39.20	33.87	-77.22	1,240.94	443.68	678.33	612.03	66.30	10.232	
13,400.00	12,099.00	13,159.15	11,950.00	39.55	34.65	-77.22	1,340.94	442.76	678.32	610.54	67.77	10.008	
13,500.00	12,099.00	13,259.15	11,950.00	39.95	35.48	-77.22	1,440.93	441.84	678.30	608.96	69.34	9.783	
13,600.00	12,099.00	13,359.15	11,950.00	40.40	36.34	-77.22	1,540.93	440.91	678.29	607.31	70.98	9.556	
13,700.00	12,099.00	13,459.15	11,950.00	40.92	37.24	-77.22	1,640.92	439.99	678.28	605.58	72.69	9.331	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 134H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	12,099.00	13,559.15	11,950.00	41.51	38.17	-77.22	1,740.92	439.07	678.26	603.78	74.48	9.107	
13,900.00	12,099.00	13,659.15	11,950.00	42.15	39.14	-77.22	1,840.91	438.14	678.25	601.92	76.33	8.886	
14,000.00	12,099.00	13,759.15	11,950.00	42.85	40.13	-77.22	1,940.91	437.22	678.24	600.00	78.23	8.670	
14,100.00	12,099.00	13,859.15	11,950.00	43.62	41.15	-77.22	2,040.91	436.30	678.22	598.03	80.19	8.457	
14,200.00	12,099.00	13,959.15	11,950.00	44.43	42.19	-77.22	2,140.90	435.37	678.21	596.00	82.21	8.250	
14,300.00	12,099.00	14,059.15	11,950.00	45.29	43.26	-77.22	2,240.90	434.45	678.19	593.93	84.27	8.048	
14,400.00	12,099.00	14,159.15	11,950.00	46.20	44.34	-77.22	2,340.89	433.53	678.18	591.81	86.37	7.852	
14,500.00	12,099.00	14,259.15	11,950.00	47.14	45.45	-77.22	2,440.89	432.60	678.17	589.65	88.51	7.662	
14,600.00	12,099.00	14,359.15	11,950.00	48.12	46.58	-77.22	2,540.88	431.68	678.15	587.46	90.70	7.477	
14,700.00	12,099.00	14,459.15	11,950.00	49.13	47.72	-77.22	2,640.88	430.76	678.14	585.23	92.91	7.299	
14,800.00	12,099.00	14,559.15	11,950.00	50.17	48.88	-77.22	2,740.88	429.83	678.13	582.96	95.17	7.126	
14,900.00	12,099.00	14,659.15	11,950.00	51.23	50.05	-77.22	2,840.87	428.91	678.11	580.67	97.45	6.959	
15,000.00	12,099.00	14,759.15	11,950.00	52.32	51.24	-77.22	2,940.87	427.99	678.10	578.35	99.76	6.798	
15,100.00	12,099.00	14,859.15	11,950.00	53.43	52.44	-77.22	3,040.86	427.06	678.09	576.00	102.09	6.642	
15,200.00	12,099.00	14,959.15	11,950.00	54.55	53.65	-77.22	3,140.86	426.14	678.07	573.62	104.45	6.492	
15,300.00	12,099.00	15,059.15	11,950.00	55.70	54.87	-77.22	3,240.86	425.22	678.06	571.22	106.84	6.347	
15,400.00	12,099.00	15,159.15	11,950.00	56.86	56.11	-77.22	3,340.85	424.29	678.05	568.81	109.24	6.207	
15,500.00	12,099.00	15,259.15	11,950.00	58.03	57.35	-77.22	3,440.85	423.37	678.03	566.37	111.67	6.072	
15,600.00	12,099.00	15,359.15	11,950.00	59.22	58.60	-77.22	3,540.84	422.45	678.02	563.91	114.11	5.942	
15,700.00	12,099.00	15,459.15	11,950.00	60.43	59.86	-77.22	3,640.84	421.52	678.01	561.43	116.57	5.816	
15,800.00	12,099.00	15,559.15	11,950.00	61.64	61.13	-77.22	3,740.83	420.60	677.99	558.94	119.05	5.695	
15,900.00	12,099.00	15,659.15	11,950.00	62.86	62.41	-77.22	3,840.83	419.68	677.98	556.43	121.55	5.578	
16,000.00	12,099.00	15,759.15	11,950.00	64.10	63.69	-77.22	3,940.83	418.75	677.97	553.91	124.06	5.465	
16,100.00	12,099.00	15,859.15	11,950.00	65.34	64.98	-77.22	4,040.82	417.83	677.95	551.38	126.58	5.356	
16,200.00	12,099.00	15,959.15	11,950.00	66.59	66.28	-77.22	4,140.82	416.91	677.94	548.83	129.12	5.251	
16,300.00	12,099.00	16,059.15	11,950.00	67.85	67.58	-77.22	4,240.81	415.98	677.93	546.26	131.66	5.149	
16,400.00	12,099.00	16,159.15	11,950.00	69.12	68.89	-77.22	4,340.81	415.06	677.91	543.69	134.22	5.051	
16,500.00	12,099.00	16,259.15	11,950.00	70.40	70.20	-77.22	4,440.80	414.14	677.90	541.11	136.79	4.956	
16,600.00	12,099.00	16,359.15	11,950.00	71.68	71.52	-77.22	4,540.80	413.22	677.89	538.51	139.37	4.864	
16,700.00	12,099.00	16,459.15	11,950.00	72.97	72.84	-77.22	4,640.80	412.29	677.87	535.91	141.96	4.775	
16,800.00	12,099.00	16,559.15	11,950.00	74.27	74.17	-77.22	4,740.79	411.37	677.86	533.30	144.56	4.689	
16,900.00	12,099.00	16,659.15	11,950.00	75.57	75.50	-77.22	4,840.79	410.45	677.85	530.68	147.17	4.606	
16,949.11	12,099.00	16,708.27	11,950.00	76.21	76.18	-77.22	4,889.90	409.99	677.84	529.39	148.45	4.566	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 201H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12292-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	18.00	18.00	0.00	0.02	-90.59	-34.00	-3,284.00	3,284.18				
100.00	100.00	118.00	118.00	0.13	0.19	-90.59	-34.00	-3,284.00	3,284.18	3,283.86	0.32	N/A	
200.00	200.00	218.00	218.00	0.49	0.55	-90.59	-34.00	-3,284.00	3,284.18	3,283.14	1.04	3,170.106	
300.00	300.00	318.00	318.00	0.84	0.91	-90.59	-34.00	-3,284.00	3,284.18	3,282.42	1.75	1,873.539	
400.00	400.00	418.00	418.00	1.20	1.27	-90.59	-34.00	-3,284.00	3,284.18	3,281.71	2.47	1,329.696	
500.00	500.00	518.00	518.00	1.56	1.63	-90.59	-34.00	-3,284.00	3,284.18	3,280.99	3.19	1,030.552	
600.00	600.00	618.00	618.00	1.92	1.98	-90.59	-34.00	-3,284.00	3,284.18	3,280.27	3.90	841.286	
700.00	700.00	718.00	718.00	2.28	2.34	-90.59	-34.00	-3,284.00	3,284.18	3,279.56	4.62	710.753	
800.00	800.00	818.00	818.00	2.64	2.70	-90.59	-34.00	-3,284.00	3,284.18	3,278.84	5.34	615.286	
900.00	900.00	918.00	918.00	3.00	3.06	-90.59	-34.00	-3,284.00	3,284.18	3,278.12	6.05	542.428	
1,000.00	1,000.00	1,018.00	1,018.00	3.35	3.42	-90.59	-34.00	-3,284.00	3,284.18	3,277.40	6.77	484.998	
1,100.00	1,100.00	1,118.00	1,118.00	3.71	3.78	-90.59	-34.00	-3,284.00	3,284.18	3,276.69	7.49	438.564	
1,200.00	1,200.00	1,218.00	1,218.00	4.07	4.10	-90.59	-34.00	-3,284.00	3,284.18	3,276.00	8.17	401.792	
1,300.00	1,300.00	1,340.79	1,340.79	4.25	4.27	-90.59	-34.03	-3,283.86	3,284.11	3,275.59	8.52	385.517	
1,400.00	1,400.00	1,567.22	1,567.12	4.28	4.40	-90.62	-35.33	-3,277.91	3,281.49	3,272.82	8.68	378.214	
1,500.00	1,500.00	1,792.81	1,792.21	4.34	4.68	-90.68	-38.51	-3,263.31	3,275.03	3,266.04	8.99	364.172	
1,600.00	1,599.99	1,903.49	1,895.50	4.43	4.86	174.69	-40.44	-3,254.48	3,267.41	3,258.15	9.26	352.970	
1,700.00	1,699.96	2,003.68	1,994.94	4.54	5.06	174.66	-42.29	-3,245.98	3,261.51	3,251.96	9.55	341.475	
1,800.00	1,799.86	2,103.78	2,094.46	4.68	5.27	174.64	-44.15	-3,237.47	3,257.36	3,247.47	9.89	329.356	
1,900.00	1,899.68	2,203.82	2,194.03	4.84	5.50	174.62	-46.01	-3,228.96	3,254.94	3,244.67	10.27	316.963	
1,989.19	1,988.60	2,285.36	2,282.88	5.00	5.70	174.60	-47.66	-3,221.37	3,254.25	3,243.63	10.62	306.387 CC	
2,000.00	1,999.37	2,303.83	2,293.64	5.02	5.75	174.59	-47.86	-3,220.45	3,254.26	3,243.57	10.68	304.567	
2,100.00	2,098.99	2,403.84	2,393.26	5.22	6.01	174.57	-49.72	-3,211.93	3,254.45	3,243.31	11.13	292.320	
2,200.00	2,198.60	2,503.85	2,492.87	5.45	6.28	174.55	-51.58	-3,203.42	3,254.63	3,243.02	11.61	280.326	
2,300.00	2,298.22	2,603.86	2,592.48	5.69	6.56	174.53	-53.44	-3,194.90	3,254.82	3,242.71	12.11	268.716	
2,400.00	2,397.84	2,703.86	2,692.09	5.94	6.85	174.51	-55.29	-3,186.39	3,255.01	3,242.37	12.64	257.573	
2,500.00	2,497.46	2,803.87	2,791.71	6.21	7.15	174.49	-57.15	-3,177.87	3,255.20	3,242.02	13.18	246.951	
2,600.00	2,597.08	2,903.88	2,891.32	6.49	7.46	174.47	-59.01	-3,169.36	3,255.39	3,241.65	13.74	236.871	
2,700.00	2,696.70	3,003.88	2,990.93	6.78	7.77	174.45	-60.87	-3,160.84	3,255.58	3,241.26	14.32	227.340	
2,800.00	2,796.32	3,103.89	3,090.54	7.07	8.09	174.43	-62.72	-3,152.33	3,255.77	3,240.86	14.91	218.350	
2,900.00	2,895.94	3,203.90	3,190.16	7.38	8.42	174.41	-64.58	-3,143.82	3,255.96	3,240.45	15.51	209.883	
3,000.00	2,995.56	3,296.10	3,289.77	7.69	8.72	174.39	-66.44	-3,135.30	3,256.16	3,240.05	16.10	202.226	
3,100.00	3,095.18	3,403.91	3,389.38	8.00	9.08	174.37	-68.29	-3,126.79	3,256.35	3,239.60	16.75	194.423	
3,200.00	3,194.80	3,496.08	3,488.99	8.32	9.39	174.35	-70.15	-3,118.27	3,256.54	3,239.19	17.35	187.651	
3,300.00	3,294.42	3,603.92	3,588.61	8.65	9.75	174.33	-72.01	-3,109.76	3,256.73	3,238.72	18.02	180.748	
3,400.00	3,394.04	3,703.93	3,688.22	8.98	10.09	174.31	-73.87	-3,101.24	3,256.93	3,238.26	18.66	174.511	
3,500.00	3,493.66	3,796.06	3,787.83	9.31	10.41	174.29	-75.72	-3,092.73	3,257.12	3,237.83	19.29	168.865	
3,600.00	3,593.28	3,903.94	3,887.45	9.65	10.78	174.27	-77.58	-3,084.21	3,257.31	3,237.34	19.97	163.101	
3,700.00	3,692.90	4,003.95	3,987.06	9.99	11.13	174.25	-79.44	-3,075.70	3,257.51	3,236.88	20.63	157.881	
3,800.00	3,792.52	4,096.04	4,086.67	10.33	11.45	174.23	-81.30	-3,067.18	3,257.70	3,236.43	21.27	153.144	
3,900.00	3,892.14	4,196.04	4,186.28	10.68	11.81	174.21	-83.15	-3,058.67	3,257.90	3,235.96	21.94	148.477	
4,000.00	3,991.76	4,303.97	4,285.90	11.02	12.19	174.19	-85.01	-3,050.15	3,258.10	3,235.45	22.64	143.890	
4,100.00	4,091.37	4,403.98	4,385.51	11.37	12.54	174.17	-86.87	-3,041.64	3,258.29	3,234.97	23.32	139.720	
4,200.00	4,190.99	4,503.99	4,485.12	11.72	12.90	174.15	-88.73	-3,033.12	3,258.49	3,234.49	24.00	135.768	
4,300.00	4,290.61	4,603.99	4,584.73	12.07	13.26	174.13	-90.58	-3,024.61	3,258.68	3,234.00	24.68	132.018	
4,400.00	4,390.23	4,704.00	4,684.35	12.43	13.61	174.11	-92.44	-3,016.09	3,258.88	3,233.51	25.37	128.457	
4,500.00	4,489.85	4,804.01	4,783.96	12.78	13.97	174.09	-94.30	-3,007.58	3,259.08	3,233.02	26.06	125.072	
4,600.00	4,589.47	4,895.99	4,883.57	13.14	14.31	174.07	-96.16	-2,999.06	3,259.28	3,232.56	26.72	121.978	
4,700.00	4,689.09	4,995.98	4,983.18	13.50	14.51	174.05	-98.01	-2,990.55	3,259.48	3,232.23	27.25	119.626	
4,800.00	4,788.71	5,104.03	5,082.80	13.86	14.55	174.03	-99.87	-2,982.04	3,259.68	3,232.06	27.61	118.056	
4,900.00	4,888.33	5,204.03	5,182.41	14.22	14.60	174.01	-101.73	-2,973.52	3,259.88	3,231.90	27.98	116.515	
5,000.00	4,987.95	5,304.04	5,282.02	14.41	14.65	173.99	-103.59	-2,965.01	3,260.08	3,231.89	28.18	115.674 ES	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 201H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12292-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,404.05	5,381.64	14.44	14.72	173.97	-105.44	-2,956.49	3,260.28	3,232.04	28.23	115.479	
5,112.46	5,100.00	5,408.43	5,394.07	14.45	14.72	173.96	-105.67	-2,955.43	3,260.30	3,232.06	28.24	115.463	
5,200.00	5,187.13	5,504.06	5,481.24	14.49	14.79	173.95	-107.30	-2,947.98	3,261.14	3,232.84	28.30	115.231	
5,300.00	5,286.51	5,595.90	5,580.82	14.55	14.87	173.93	-109.16	-2,939.46	3,263.73	3,235.35	28.38	114.989	
5,400.00	5,385.68	5,704.19	5,680.35	14.63	14.97	173.92	-111.01	-2,930.96	3,268.05	3,239.56	28.49	114.691	
5,500.00	5,484.61	5,804.38	5,779.78	14.72	15.07	173.90	-112.87	-2,922.46	3,274.11	3,245.49	28.62	114.401	
5,600.00	5,583.27	5,904.69	5,879.10	14.83	15.18	173.89	-114.72	-2,913.97	3,281.89	3,253.13	28.76	114.097	
5,700.00	5,681.64	6,005.14	5,978.26	14.96	15.30	173.87	-116.57	-2,905.49	3,291.41	3,262.48	28.93	113.781	
5,800.00	5,779.67	6,105.78	6,077.25	15.11	15.43	173.86	-118.41	-2,897.03	3,302.65	3,273.54	29.11	113.454	
5,900.00	5,877.35	6,206.62	6,176.03	15.28	15.57	173.85	-120.26	-2,888.59	3,315.61	3,286.30	29.31	113.115	
6,000.00	5,974.63	6,307.71	6,274.56	15.47	15.71	173.85	-122.09	-2,880.16	3,330.30	3,300.76	29.53	112.767	
6,100.00	6,071.50	6,390.94	6,372.83	15.68	15.84	173.84	-123.92	-2,871.76	3,346.69	3,316.95	29.75	112.497	
6,200.00	6,167.92	6,461.93	6,443.57	15.91	15.95	173.83	-125.20	-2,865.91	3,365.11	3,335.14	29.97	112.290	
6,300.00	6,263.86	6,524.09	6,505.56	16.17	16.04	173.82	-126.17	-2,861.46	3,386.23	3,356.04	30.19	112.173	
6,347.11	6,308.89	6,553.18	6,534.59	16.30	16.09	173.82	-126.58	-2,859.60	3,397.12	3,366.83	30.29	112.135	
6,400.00	6,359.37	6,585.73	6,567.08	16.45	16.14	173.83	-127.00	-2,857.68	3,409.83	3,379.41	30.42	112.104	
6,500.00	6,454.83	6,647.02	6,628.29	16.75	16.23	173.85	-127.67	-2,854.58	3,434.63	3,403.97	30.65	112.044	
6,600.00	6,550.28	6,700.00	6,681.22	17.05	16.32	173.87	-128.15	-2,852.40	3,460.45	3,429.56	30.89	112.038	
6,700.00	6,645.73	6,768.57	6,749.76	17.38	16.42	173.90	-128.61	-2,850.30	3,487.23	3,456.08	31.15	111.935	
6,800.00	6,741.18	6,828.81	6,809.99	17.71	16.51	173.92	-128.87	-2,849.12	3,515.02	3,483.60	31.42	111.886	
6,900.00	6,836.63	6,900.00	6,881.17	18.06	16.62	173.96	-129.00	-2,848.52	3,543.81	3,512.11	31.71	111.770	
7,000.00	6,932.09	6,968.91	6,950.09	18.42	16.72	174.00	-129.00	-2,848.50	3,573.36	3,541.37	32.00	111.679	
7,100.00	7,027.54	7,064.36	7,045.54	18.78	16.86	174.04	-129.00	-2,848.50	3,603.03	3,570.68	32.35	111.387	
7,200.00	7,122.99	7,159.82	7,140.99	19.16	17.01	174.09	-129.00	-2,848.50	3,632.70	3,599.99	32.71	111.056	
7,300.00	7,218.44	7,255.27	7,236.44	19.55	17.17	174.14	-129.00	-2,848.50	3,662.37	3,629.28	33.09	110.690	
7,400.00	7,313.89	7,350.72	7,331.89	19.94	17.33	174.19	-129.00	-2,848.50	3,692.04	3,658.57	33.48	110.290	
7,500.00	7,409.35	7,446.17	7,427.35	20.35	17.49	174.23	-129.00	-2,848.50	3,721.72	3,687.84	33.88	109.861	
7,600.00	7,504.80	7,541.62	7,522.80	20.76	17.66	174.28	-129.00	-2,848.50	3,751.40	3,717.11	34.29	109.404	
7,700.00	7,600.25	7,637.08	7,618.25	21.18	17.83	174.33	-129.00	-2,848.50	3,781.08	3,746.36	34.71	108.923	
7,741.71	7,640.06	7,676.89	7,658.06	21.35	17.91	174.34	-129.00	-2,848.50	3,793.46	3,758.57	34.89	108.716	
7,800.00	7,695.83	7,732.66	7,713.83	21.60	18.01	174.40	-129.00	-2,848.50	3,810.34	3,775.19	35.15	108.411	
7,900.00	7,792.09	7,828.91	7,810.09	22.00	18.20	174.48	-129.00	-2,848.50	3,837.31	3,801.73	35.59	107.823	
8,000.00	7,889.02	7,925.85	7,907.02	22.39	18.39	174.55	-129.00	-2,848.50	3,861.78	3,825.74	36.04	107.159	
8,100.00	7,986.56	8,023.39	8,004.56	22.76	18.59	174.61	-129.00	-2,848.50	3,883.70	3,847.21	36.49	106.422	
8,200.00	8,084.65	8,121.47	8,102.65	23.10	18.79	174.66	-129.00	-2,848.50	3,903.08	3,866.13	36.95	105.618	
8,300.00	8,183.21	8,220.03	8,201.21	23.43	19.00	174.71	-129.00	-2,848.50	3,919.90	3,882.48	37.42	104.752	
8,400.00	8,282.18	8,319.00	8,300.18	23.73	19.21	174.75	-129.00	-2,848.50	3,934.14	3,896.25	37.89	103.830	
8,500.00	8,381.49	8,418.31	8,399.49	24.02	19.43	174.78	-129.00	-2,848.50	3,945.80	3,907.43	38.36	102.854	
8,600.00	8,481.07	8,517.90	8,499.07	24.28	19.65	174.81	-129.00	-2,848.50	3,954.86	3,916.02	38.84	101.830	
8,700.00	8,580.86	8,617.68	8,598.86	24.53	19.88	174.82	-129.00	-2,848.50	3,961.33	3,922.01	39.31	100.760	
8,800.00	8,680.78	8,717.60	8,698.78	24.75	20.11	174.83	-129.00	-2,848.50	3,965.19	3,925.39	39.79	99.649	
8,898.13	8,778.90	8,815.73	8,796.90	24.95	20.34	-90.56	-129.00	-2,848.50	3,966.44	3,926.19	40.25	98.536	
8,900.00	8,780.77	8,817.59	8,798.77	24.96	20.35	-90.56	-129.00	-2,848.50	3,966.44	3,926.18	40.26	98.515	
9,000.00	8,880.77	8,917.59	8,898.77	25.15	20.58	-90.56	-129.00	-2,848.50	3,966.44	3,925.71	40.73	97.383	
9,100.00	8,980.77	9,017.59	8,998.77	25.34	20.83	-90.56	-129.00	-2,848.50	3,966.44	3,925.24	41.21	96.260	
9,200.00	9,080.77	9,117.59	9,098.77	25.54	21.07	-90.56	-129.00	-2,848.50	3,966.44	3,924.75	41.69	95.146	
9,300.00	9,180.77	9,217.59	9,198.77	25.75	21.32	-90.56	-129.00	-2,848.50	3,966.44	3,924.27	42.18	94.044	
9,400.00	9,280.77	9,317.59	9,298.77	25.95	21.57	-90.56	-129.00	-2,848.50	3,966.44	3,923.77	42.67	92.953	
9,500.00	9,380.77	9,417.59	9,398.77	26.16	21.83	-90.56	-129.00	-2,848.50	3,966.44	3,923.27	43.17	91.873	
9,600.00	9,480.77	9,517.59	9,498.77	26.38	22.08	-90.56	-129.00	-2,848.50	3,966.44	3,922.76	43.68	90.806	
9,700.00	9,580.77	9,617.59	9,598.77	26.59	22.34	-90.56	-129.00	-2,848.50	3,966.44	3,922.25	44.19	89.752	
9,800.00	9,680.77	9,717.59	9,698.77	26.81	22.61	-90.56	-129.00	-2,848.50	3,966.44	3,921.73	44.71	88.710	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 201H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12292-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,817.59	9,798.77	27.03	22.87	-90.56	-129.00	-2,848.50	3,966.44	3,921.21	45.24	87.682	
10,000.00	9,880.77	9,917.59	9,898.77	27.26	23.14	-90.56	-129.00	-2,848.50	3,966.44	3,920.68	45.77	86.668	
10,100.00	9,980.77	10,017.59	9,998.77	27.49	23.41	-90.56	-129.00	-2,848.50	3,966.44	3,920.14	46.30	85.668	
10,200.00	10,080.77	10,117.59	10,098.77	27.72	23.68	-90.56	-129.00	-2,848.50	3,966.44	3,919.60	46.84	84.682	
10,300.00	10,180.77	10,217.59	10,198.77	27.95	23.96	-90.56	-129.00	-2,848.50	3,966.44	3,919.06	47.38	83.709	
10,400.00	10,280.77	10,317.59	10,298.77	28.19	24.24	-90.56	-129.00	-2,848.50	3,966.44	3,918.51	47.93	82.751	
10,500.00	10,380.77	10,417.59	10,398.77	28.43	24.52	-90.56	-129.00	-2,848.50	3,966.44	3,917.96	48.48	81.808	
10,600.00	10,480.77	10,517.59	10,498.77	28.67	24.80	-90.56	-129.00	-2,848.50	3,966.44	3,917.40	49.04	80.879	
10,700.00	10,580.77	10,617.59	10,598.77	28.91	25.08	-90.56	-129.00	-2,848.50	3,966.44	3,916.84	49.60	79.963	
10,800.00	10,680.77	10,717.59	10,698.77	29.16	25.37	-90.56	-129.00	-2,848.50	3,966.44	3,916.27	50.17	79.063	
10,900.00	10,780.77	10,817.59	10,798.77	29.40	25.65	-90.56	-129.00	-2,848.50	3,966.44	3,915.70	50.74	78.176	
11,000.00	10,880.77	10,917.59	10,898.77	29.65	25.94	-90.56	-129.00	-2,848.50	3,966.44	3,915.13	51.31	77.303	
11,100.00	10,980.77	11,017.59	10,998.77	29.91	26.23	-90.56	-129.00	-2,848.50	3,966.44	3,914.56	51.89	76.445	
11,200.00	11,080.77	11,117.59	11,098.77	30.16	26.53	-90.56	-129.00	-2,848.50	3,966.44	3,913.98	52.47	75.600	
11,300.00	11,180.77	11,217.59	11,198.77	30.42	26.82	-90.56	-129.00	-2,848.50	3,966.44	3,913.39	53.05	74.769	
11,400.00	11,280.77	11,317.59	11,298.77	30.68	27.12	-90.56	-129.00	-2,848.50	3,966.44	3,912.81	53.64	73.952	
11,500.00	11,380.77	11,417.59	11,398.77	30.94	27.41	-90.56	-129.00	-2,848.50	3,966.44	3,912.22	54.22	73.148	
11,600.00	11,480.77	11,517.71	11,498.88	31.20	27.71	-90.56	-128.78	-2,848.50	3,966.44	3,911.62	54.82	72.358	
11,635.13	11,515.90	11,552.98	11,534.09	31.29	27.82	-90.53	-126.71	-2,848.52	3,966.44	3,911.42	55.02	72.085	
11,650.00	11,530.77	11,567.83	11,548.85	31.33	27.86	-89.97	-125.19	-2,848.53	3,966.44	3,911.33	55.11	71.972	
11,695.52	11,576.18	11,613.07	11,593.54	31.45	27.99	-89.91	-118.22	-2,848.59	3,966.44	3,911.07	55.37	71.634	
11,700.00	11,580.63	11,617.50	11,597.89	31.46	28.00	-89.91	-117.34	-2,848.60	3,966.44	3,911.04	55.40	71.601	
11,750.00	11,630.00	11,666.80	11,645.70	31.59	28.14	-89.84	-105.38	-2,848.71	3,966.44	3,910.77	55.67	71.244	
11,800.00	11,678.50	11,715.74	11,691.97	31.71	28.27	-89.78	-89.50	-2,848.84	3,966.44	3,910.50	55.94	70.902	
11,850.00	11,725.77	11,764.33	11,736.40	31.83	28.39	-89.72	-69.87	-2,849.02	3,966.45	3,910.24	56.20	70.573	
11,900.00	11,771.43	11,812.58	11,778.73	31.94	28.51	-89.67	-46.72	-2,849.22	3,966.45	3,910.00	56.46	70.257	
11,950.00	11,815.16	11,860.53	11,818.71	32.05	28.61	-89.61	-20.28	-2,849.45	3,966.46	3,909.75	56.70	69.950	
12,000.00	11,856.60	11,908.18	11,856.11	32.14	28.71	-89.56	9.22	-2,849.71	3,966.46	3,909.51	56.95	69.650	
12,050.00	11,895.45	11,955.57	11,890.75	32.23	28.80	-89.51	41.53	-2,849.99	3,966.47	3,909.28	57.19	69.355	
12,100.00	11,931.42	12,002.70	11,922.44	32.31	28.89	-89.47	76.40	-2,850.29	3,966.47	3,909.04	57.43	69.062	
12,150.00	11,964.22	12,049.60	11,951.02	32.38	28.97	-89.42	113.58	-2,850.62	3,966.47	3,908.79	57.68	68.768	
12,200.00	11,993.61	12,096.30	11,976.36	32.44	29.05	-89.39	152.78	-2,850.96	3,966.47	3,908.54	57.93	68.471	
12,250.00	12,019.36	12,142.82	11,998.35	32.50	29.14	-89.36	193.76	-2,851.32	3,966.47	3,908.28	58.19	68.170	
12,300.00	12,041.28	12,189.18	12,016.88	32.56	29.24	-89.33	236.24	-2,851.69	3,966.46	3,908.01	58.45	67.861	
12,350.00	12,059.21	12,235.40	12,031.88	32.61	29.36	-89.30	279.94	-2,852.07	3,966.45	3,907.73	58.72	67.546	
12,400.00	12,073.00	12,281.51	12,043.29	37.58	32.53	-89.29	324.60	-2,852.46	3,966.43	3,907.48	58.95	67.280	
12,435.13	12,080.15	12,314.90	12,049.44	37.61	34.69	-89.28	357.42	-2,852.75	3,966.42	3,907.33	59.09	67.123	
12,460.13	12,084.49	12,339.25	12,053.59	37.64	34.71	-89.28	381.42	-2,852.95	3,966.40	3,907.21	59.19	67.009	
12,500.00	12,090.60	12,377.14	12,058.94	37.68	34.73	-89.27	418.92	-2,853.28	3,966.38	3,907.01	59.37	66.809	
12,550.00	12,095.92	12,424.64	12,063.53	37.73	34.77	-89.27	466.19	-2,853.69	3,966.35	3,906.73	59.62	66.529	
12,600.00	12,098.63	12,472.12	12,065.77	37.79	34.80	-89.26	513.62	-2,854.11	3,966.32	3,906.42	59.90	66.216	
12,626.80	12,099.00	12,502.21	12,066.00	37.82	34.83	-89.26	539.28	-2,854.33	3,966.31	3,906.23	60.08	66.020	
12,700.00	12,099.00	12,570.99	12,066.00	37.91	34.88	-89.26	612.48	-2,854.97	3,966.26	3,905.68	60.58	65.468	
12,800.00	12,099.00	12,670.99	12,066.00	38.06	34.97	-89.26	712.47	-2,855.84	3,966.20	3,904.80	61.40	64.598	
12,900.00	12,099.00	12,770.99	12,066.00	38.23	35.07	-89.26	812.47	-2,856.72	3,966.13	3,903.80	62.34	63.625	
13,000.00	12,099.00	12,870.99	12,066.00	38.42	35.18	-89.26	912.46	-2,857.59	3,966.07	3,902.68	63.39	62.555	
13,100.00	12,099.00	12,970.99	12,066.00	38.64	35.32	-89.26	1,012.46	-2,858.46	3,966.00	3,901.44	64.56	61.433	
13,200.00	12,099.00	13,070.99	12,066.00	38.90	35.49	-89.26	1,112.46	-2,859.33	3,965.94	3,900.11	65.83	60.244	
13,300.00	12,099.00	13,170.99	12,066.00	39.20	35.71	-89.26	1,212.45	-2,860.20	3,965.87	3,898.67	67.20	59.012	
13,400.00	12,099.00	13,270.99	12,066.00	39.55	36.00	-89.26	1,312.45	-2,861.08	3,965.81	3,897.14	68.67	57.750	
13,500.00	12,099.00	13,370.99	12,066.00	39.95	36.39	-89.26	1,412.45	-2,861.95	3,965.74	3,895.52	70.23	56.471	
13,600.00	12,099.00	13,470.99	12,066.00	40.40	36.91	-89.26	1,512.44	-2,862.82	3,965.68	3,893.82	71.86	55.184	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 201H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12292-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,570.99	12,066.00	40.92	37.54	-89.26	1,612.44	-2,863.69	3,965.62	3,892.04	73.58	53.897	
13,800.00	12,099.00	13,670.99	12,066.00	41.51	38.27	-89.26	1,712.43	-2,864.57	3,965.55	3,890.19	75.36	52.620	
13,900.00	12,099.00	13,770.99	12,066.00	42.15	39.08	-89.26	1,812.43	-2,865.44	3,965.49	3,888.27	77.21	51.357	
14,000.00	12,099.00	13,870.99	12,066.00	42.85	39.96	-89.26	1,912.43	-2,866.31	3,965.42	3,886.29	79.13	50.114	
14,100.00	12,099.00	13,970.99	12,066.00	43.62	40.88	-89.26	2,012.42	-2,867.18	3,965.36	3,884.26	81.10	48.895	
14,200.00	12,099.00	14,070.99	12,066.00	44.43	41.84	-89.26	2,112.42	-2,868.06	3,965.29	3,882.17	83.13	47.703	
14,300.00	12,099.00	14,170.99	12,066.00	45.29	42.85	-89.26	2,212.42	-2,868.93	3,965.23	3,880.03	85.20	46.540	
14,400.00	12,099.00	14,270.99	12,066.00	46.20	43.88	-89.26	2,312.41	-2,869.80	3,965.16	3,877.84	87.32	45.409	
14,500.00	12,099.00	14,370.99	12,066.00	47.14	44.93	-89.26	2,412.41	-2,870.67	3,965.10	3,875.62	89.48	44.311	
14,600.00	12,099.00	14,470.99	12,066.00	48.12	46.01	-89.26	2,512.40	-2,871.55	3,965.03	3,873.35	91.69	43.245	
14,700.00	12,099.00	14,570.99	12,066.00	49.13	47.12	-89.26	2,612.40	-2,872.42	3,964.97	3,871.04	93.93	42.213	
14,800.00	12,099.00	14,670.99	12,066.00	50.17	48.24	-89.26	2,712.40	-2,873.29	3,964.91	3,868.70	96.20	41.214	
14,900.00	12,099.00	14,770.99	12,066.00	51.23	49.38	-89.26	2,812.39	-2,874.16	3,964.84	3,866.33	98.51	40.249	
15,000.00	12,099.00	14,870.99	12,066.00	52.32	50.54	-89.26	2,912.39	-2,875.04	3,964.78	3,863.93	100.85	39.316	
15,100.00	12,099.00	14,970.99	12,066.00	53.43	51.71	-89.26	3,012.38	-2,875.91	3,964.71	3,861.50	103.21	38.414	
15,200.00	12,099.00	15,070.99	12,066.00	54.55	52.90	-89.26	3,112.38	-2,876.78	3,964.65	3,859.05	105.60	37.544	
15,300.00	12,099.00	15,170.99	12,066.00	55.70	54.10	-89.26	3,212.38	-2,877.65	3,964.58	3,856.57	108.01	36.704	
15,400.00	12,099.00	15,270.99	12,066.00	56.86	55.31	-89.26	3,312.37	-2,878.52	3,964.52	3,854.07	110.45	35.894	
15,500.00	12,099.00	15,370.99	12,066.00	58.03	56.53	-89.26	3,412.37	-2,879.40	3,964.45	3,851.54	112.91	35.112	
15,600.00	12,099.00	15,470.99	12,066.00	59.22	57.77	-89.26	3,512.37	-2,880.27	3,964.39	3,849.00	115.39	34.357	
15,700.00	12,099.00	15,570.99	12,066.00	60.43	59.01	-89.26	3,612.36	-2,881.14	3,964.32	3,846.44	117.88	33.629	
15,800.00	12,099.00	15,670.99	12,066.00	61.64	60.26	-89.26	3,712.36	-2,882.01	3,964.26	3,843.86	120.40	32.926	
15,900.00	12,099.00	15,770.99	12,066.00	62.86	61.52	-89.26	3,812.35	-2,882.89	3,964.19	3,841.27	122.93	32.248	
16,000.00	12,099.00	15,870.99	12,066.00	64.10	62.79	-89.26	3,912.35	-2,883.76	3,964.13	3,838.66	125.47	31.593	
16,100.00	12,099.00	15,970.99	12,066.00	65.34	64.07	-89.26	4,012.35	-2,884.63	3,964.07	3,836.03	128.03	30.961	
16,200.00	12,099.00	16,070.99	12,066.00	66.59	65.35	-89.26	4,112.34	-2,885.50	3,964.00	3,833.39	130.61	30.351	
16,300.00	12,099.00	16,170.99	12,066.00	67.85	66.64	-89.26	4,212.34	-2,886.38	3,963.94	3,830.74	133.19	29.761	
16,400.00	12,099.00	16,270.99	12,066.00	69.12	67.94	-89.26	4,312.33	-2,887.25	3,963.87	3,828.08	135.79	29.191	
16,500.00	12,099.00	16,370.99	12,066.00	70.40	69.24	-89.26	4,412.33	-2,888.12	3,963.81	3,825.41	138.40	28.640	
16,600.00	12,099.00	16,470.99	12,066.00	71.68	70.55	-89.26	4,512.33	-2,888.99	3,963.74	3,822.72	141.02	28.107	
16,700.00	12,099.00	16,570.99	12,066.00	72.97	71.86	-89.26	4,612.32	-2,889.87	3,963.68	3,820.03	143.65	27.592	
16,800.00	12,099.00	16,670.99	12,066.00	74.27	73.18	-89.26	4,712.32	-2,890.74	3,963.61	3,817.32	146.29	27.094	
16,900.00	12,099.00	16,770.99	12,066.00	75.57	74.50	-89.26	4,812.32	-2,891.61	3,963.55	3,814.61	148.94	26.611	
16,947.64	12,099.00	16,815.68	12,066.00	76.19	75.09	-89.26	4,857.00	-2,892.00	3,963.52	3,813.36	150.16	26.396	
16,949.11	12,099.00	16,815.68	12,066.00	76.21	75.09	-89.26	4,857.00	-2,892.00	3,963.52	3,813.35	150.17	26.393 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19.00	19.00	0.00	0.02	-90.58	-20.00	-1,963.00	1,963.10				
100.00	100.00	119.00	119.00	0.13	0.20	-90.58	-20.00	-1,963.00	1,963.10	1,962.78	0.32	6,084.784	
200.00	200.00	219.00	219.00	0.49	0.55	-90.58	-20.00	-1,963.00	1,963.10	1,962.06	1.04	1,888.383	
300.00	300.00	319.00	319.00	0.84	0.91	-90.58	-20.00	-1,963.00	1,963.10	1,961.35	1.76	1,117.614	
400.00	400.00	419.00	419.00	1.20	1.27	-90.58	-20.00	-1,963.00	1,963.10	1,960.63	2.47	793.668	
500.00	500.00	519.00	519.00	1.56	1.63	-90.58	-20.00	-1,963.00	1,963.10	1,959.91	3.19	615.316	
600.00	600.00	619.00	619.00	1.92	1.99	-90.58	-20.00	-1,963.00	1,963.10	1,959.19	3.91	502.414	
700.00	700.00	719.00	719.00	2.28	2.35	-90.58	-20.00	-1,963.00	1,963.10	1,958.48	4.62	424.520	
800.00	800.00	819.00	819.00	2.64	2.70	-90.58	-20.00	-1,963.00	1,963.10	1,957.76	5.34	367.538	
900.00	900.00	919.00	919.00	3.00	3.06	-90.58	-20.00	-1,963.00	1,963.10	1,957.04	6.06	324.042	
1,000.00	1,000.00	1,019.00	1,019.00	3.35	3.42	-90.58	-20.00	-1,963.00	1,963.10	1,956.33	6.78	289.752	
1,100.00	1,100.00	1,119.00	1,119.00	3.71	3.78	-90.58	-20.00	-1,963.00	1,963.10	1,955.61	7.49	262.024	
1,200.00	1,200.00	1,219.00	1,219.00	4.07	4.11	-90.58	-20.00	-1,963.00	1,963.10	1,954.93	8.18	240.115	
1,300.00	1,300.00	1,328.52	1,328.52	4.25	4.26	-90.58	-20.02	-1,962.93	1,963.06	1,954.54	8.52	230.536	
1,400.00	1,400.00	1,478.59	1,478.56	4.28	4.33	-90.60	-20.60	-1,960.28	1,961.29	1,952.69	8.61	227.817	
1,500.00	1,500.00	1,628.41	1,628.23	4.34	4.46	-90.65	-22.02	-1,953.81	1,956.98	1,948.19	8.79	222.550	
1,600.00	1,599.99	1,777.88	1,777.33	4.43	4.66	174.68	-24.27	-1,943.55	1,951.00	1,941.94	9.06	215.387	
1,700.00	1,699.96	1,885.03	1,884.07	4.54	4.83	174.63	-26.27	-1,934.47	1,945.14	1,935.81	9.33	208.378	
1,800.00	1,799.86	1,984.93	1,983.59	4.68	5.02	174.59	-28.14	-1,925.96	1,940.99	1,931.34	9.65	201.135	
1,900.00	1,899.68	2,084.89	2,083.17	4.84	5.23	174.55	-30.01	-1,917.45	1,938.57	1,928.56	10.01	193.685	
1,988.93	1,988.34	2,173.81	2,171.76	5.00	5.43	174.52	-31.67	-1,909.88	1,937.89	1,927.52	10.36	187.018 CC	
2,000.00	1,999.37	2,184.88	2,182.78	5.02	5.46	174.52	-31.88	-1,908.94	1,937.90	1,927.49	10.41	186.222	
2,100.00	2,098.99	2,284.87	2,282.39	5.22	5.70	174.48	-33.75	-1,900.43	1,938.09	1,927.25	10.84	178.809	
2,200.00	2,198.60	2,384.86	2,382.00	5.45	5.96	174.45	-35.62	-1,891.92	1,938.28	1,926.98	11.30	171.499	
2,300.00	2,298.22	2,484.86	2,481.62	5.69	6.23	174.41	-37.49	-1,883.41	1,938.48	1,926.68	11.79	164.388	
2,400.00	2,397.84	2,584.85	2,581.23	5.94	6.51	174.38	-39.36	-1,874.89	1,938.67	1,926.37	12.31	157.538	
2,500.00	2,497.46	2,684.84	2,680.84	6.21	6.80	174.34	-41.23	-1,866.38	1,938.87	1,926.03	12.84	150.991	
2,600.00	2,597.08	2,784.84	2,780.45	6.49	7.10	174.31	-43.09	-1,857.87	1,939.06	1,925.67	13.39	144.768	
2,700.00	2,696.70	2,884.83	2,880.07	6.78	7.40	174.27	-44.96	-1,849.36	1,939.26	1,925.30	13.96	138.877	
2,800.00	2,796.32	2,984.82	2,979.68	7.07	7.71	174.24	-46.83	-1,840.85	1,939.46	1,924.91	14.55	133.315	
2,900.00	2,895.94	3,084.81	3,079.29	7.38	8.03	174.21	-48.70	-1,832.33	1,939.66	1,924.51	15.14	128.076	
3,000.00	2,995.56	3,184.81	3,178.90	7.69	8.35	174.17	-50.57	-1,823.82	1,939.85	1,924.10	15.75	123.146	
3,100.00	3,095.18	3,284.80	3,278.52	8.00	8.68	174.14	-52.44	-1,815.31	1,940.05	1,923.68	16.37	118.510	
3,200.00	3,194.80	3,384.79	3,378.13	8.32	9.01	174.10	-54.31	-1,806.80	1,940.25	1,923.26	17.00	114.152	
3,300.00	3,294.42	3,484.79	3,477.74	8.65	9.35	174.07	-56.18	-1,798.29	1,940.46	1,922.82	17.63	110.053	
3,400.00	3,394.04	3,584.78	3,577.35	8.98	9.69	174.03	-58.05	-1,789.77	1,940.66	1,922.38	18.27	106.199	
3,500.00	3,493.66	3,684.77	3,676.97	9.31	10.03	174.00	-59.92	-1,781.26	1,940.86	1,921.94	18.92	102.571	
3,600.00	3,593.28	3,784.77	3,776.58	9.65	10.37	173.97	-61.79	-1,772.75	1,941.06	1,921.49	19.58	99.155	
3,700.00	3,692.90	3,884.76	3,876.19	9.99	10.72	173.93	-63.66	-1,764.24	1,941.27	1,921.03	20.24	95.934	
3,800.00	3,792.52	3,984.75	3,975.80	10.33	11.06	173.90	-65.53	-1,755.73	1,941.47	1,920.57	20.90	92.896	
3,900.00	3,892.14	4,084.74	4,075.42	10.68	11.41	173.86	-67.40	-1,747.21	1,941.68	1,920.11	21.57	90.028	
4,000.00	3,991.76	4,184.74	4,175.03	11.02	11.77	173.83	-69.27	-1,738.70	1,941.88	1,919.64	22.24	87.316	
4,100.00	4,091.37	4,284.73	4,274.64	11.37	12.12	173.79	-71.14	-1,730.19	1,942.09	1,919.17	22.92	84.751	
4,200.00	4,190.99	4,384.72	4,374.25	11.72	12.47	173.76	-73.01	-1,721.68	1,942.30	1,918.70	23.59	82.321	
4,300.00	4,290.61	4,484.72	4,473.87	12.07	12.83	173.72	-74.88	-1,713.17	1,942.50	1,918.23	24.28	80.017	
4,400.00	4,390.23	4,584.71	4,573.48	12.43	13.19	173.69	-76.75	-1,704.65	1,942.71	1,917.75	24.96	77.831	
4,500.00	4,489.85	4,684.70	4,673.09	12.78	13.55	173.66	-78.62	-1,696.14	1,942.92	1,917.28	25.65	75.754	
4,600.00	4,589.47	4,784.70	4,772.70	13.14	13.90	173.62	-80.49	-1,687.63	1,943.13	1,916.80	26.34	73.779	
4,700.00	4,689.09	4,884.69	4,872.32	13.50	14.26	173.59	-82.36	-1,679.12	1,943.34	1,916.32	27.03	71.899	
4,800.00	4,788.71	4,984.68	4,971.93	13.86	14.49	173.55	-84.23	-1,670.61	1,943.56	1,915.98	27.58	70.479	
4,900.00	4,888.33	5,084.67	5,071.54	14.22	14.55	173.52	-86.10	-1,662.09	1,943.77	1,915.81	27.96	69.521 ES	
5,000.00	4,987.95	5,184.67	5,171.15	14.41	14.59	173.48	-87.97	-1,653.58	1,943.98	1,915.83	28.15	69.049	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,284.66	5,270.77	14.44	14.64	173.45	-89.84	-1,645.07	1,944.19	1,916.00	28.19	68.962	
5,112.48	5,100.00	5,302.86	5,283.20	14.45	14.65	173.45	-90.08	-1,644.01	1,944.22	1,916.02	28.20	68.945	
5,200.00	5,187.13	5,384.65	5,370.37	14.49	14.71	173.42	-91.71	-1,636.56	1,945.07	1,916.82	28.25	68.853	
5,300.00	5,286.51	5,484.61	5,469.96	14.55	14.78	173.39	-93.58	-1,628.05	1,947.67	1,919.35	28.33	68.759	
5,400.00	5,385.68	5,584.51	5,569.48	14.63	14.86	173.37	-95.45	-1,619.54	1,952.00	1,923.58	28.42	68.680	
5,500.00	5,484.61	5,684.33	5,668.91	14.72	14.95	173.35	-97.32	-1,611.05	1,958.07	1,929.53	28.54	68.617	
5,600.00	5,583.27	5,784.02	5,768.23	14.83	15.05	173.33	-99.18	-1,602.56	1,965.86	1,937.19	28.67	68.569	
5,700.00	5,681.64	5,883.57	5,867.39	14.96	15.16	173.32	-101.04	-1,594.09	1,975.38	1,946.56	28.82	68.536	
5,800.00	5,779.67	5,982.93	5,966.38	15.11	15.27	173.31	-102.90	-1,585.63	1,986.62	1,957.63	28.99	68.519	
5,900.00	5,877.35	6,082.08	6,065.16	15.28	15.40	173.30	-104.75	-1,577.19	1,999.59	1,970.41	29.18	68.518	
6,000.00	5,974.63	6,181.00	6,163.69	15.47	15.53	173.30	-106.60	-1,568.77	2,014.27	1,984.88	29.39	68.531	
6,100.00	6,071.50	6,279.64	6,261.96	15.68	15.67	173.30	-108.45	-1,560.37	2,030.66	2,001.05	29.62	68.560	
6,200.00	6,167.92	6,377.98	6,359.93	15.91	15.82	173.31	-110.29	-1,552.00	2,048.77	2,018.90	29.86	68.604	
6,300.00	6,263.86	6,464.92	6,446.54	16.17	15.95	173.31	-111.90	-1,544.68	2,068.69	2,038.57	30.11	68.698	
6,347.11	6,308.89	6,500.00	6,481.51	16.30	16.01	173.32	-112.49	-1,541.99	2,078.98	2,048.75	30.23	68.777	
6,400.00	6,359.37	6,537.01	6,518.42	16.45	16.07	173.33	-113.08	-1,539.38	2,091.07	2,060.71	30.36	68.881	
6,500.00	6,454.83	6,608.64	6,589.92	16.75	16.18	173.37	-114.03	-1,534.98	2,114.82	2,084.21	30.61	69.090	
6,600.00	6,550.28	6,679.84	6,661.02	17.05	16.29	173.42	-114.80	-1,531.47	2,139.75	2,108.88	30.87	69.312	
6,700.00	6,645.73	6,750.57	6,731.70	17.38	16.40	173.46	-115.38	-1,528.84	2,165.84	2,134.70	31.14	69.551	
6,800.00	6,741.18	6,820.82	6,801.93	17.71	16.51	173.52	-115.76	-1,527.08	2,193.08	2,161.67	31.42	69.806	
6,900.00	6,836.63	6,890.59	6,871.69	18.06	16.61	173.57	-115.97	-1,526.16	2,221.47	2,189.77	31.70	70.076	
7,000.00	6,932.09	6,959.98	6,951.09	18.42	16.73	173.64	-116.00	-1,526.00	2,250.90	2,218.89	32.01	70.323	
7,100.00	7,027.54	7,065.44	7,046.54	18.78	16.87	173.73	-116.00	-1,526.00	2,280.55	2,248.19	32.36	70.479	
7,200.00	7,122.99	7,160.89	7,141.99	19.16	17.02	173.81	-116.00	-1,526.00	2,310.21	2,277.48	32.72	70.603	
7,300.00	7,218.44	7,256.34	7,237.44	19.55	17.18	173.89	-116.00	-1,526.00	2,339.86	2,306.77	33.10	70.698	
7,400.00	7,313.89	7,351.79	7,332.89	19.94	17.33	173.96	-116.00	-1,526.00	2,369.53	2,336.04	33.49	70.763	
7,500.00	7,409.35	7,447.24	7,428.35	20.35	17.50	174.04	-116.00	-1,526.00	2,399.19	2,365.31	33.89	70.803	
7,600.00	7,504.80	7,542.70	7,523.80	20.76	17.67	174.11	-116.00	-1,526.00	2,428.86	2,394.56	34.30	70.817	
7,700.00	7,600.25	7,638.15	7,619.25	21.18	17.84	174.18	-116.00	-1,526.00	2,458.53	2,423.81	34.72	70.808	
7,741.71	7,640.06	7,677.96	7,659.06	21.35	17.92	174.21	-116.00	-1,526.00	2,470.91	2,436.01	34.90	70.798	
7,800.00	7,695.83	7,733.73	7,714.83	21.60	18.02	174.28	-116.00	-1,526.00	2,487.79	2,452.63	35.15	70.767	
7,900.00	7,792.09	7,829.99	7,811.09	22.00	18.21	174.38	-116.00	-1,526.00	2,514.76	2,479.16	35.60	70.648	
8,000.00	7,889.02	7,926.92	7,908.02	22.39	18.40	174.47	-116.00	-1,526.00	2,539.22	2,503.17	36.04	70.448	
8,100.00	7,986.56	8,024.46	8,005.56	22.76	18.60	174.55	-116.00	-1,526.00	2,561.14	2,524.64	36.50	70.170	
8,200.00	8,084.65	8,122.55	8,103.65	23.10	18.80	174.62	-116.00	-1,526.00	2,580.52	2,543.56	36.96	69.819	
8,300.00	8,183.21	8,221.11	8,202.21	23.43	19.01	174.68	-116.00	-1,526.00	2,597.34	2,559.91	37.43	69.400	
8,400.00	8,282.18	8,320.08	8,301.18	23.73	19.22	174.73	-116.00	-1,526.00	2,611.58	2,573.68	37.90	68.916	
8,500.00	8,381.49	8,419.39	8,400.49	24.02	19.44	174.77	-116.00	-1,526.00	2,623.23	2,584.87	38.37	68.371	
8,600.00	8,481.07	8,518.97	8,500.07	24.28	19.66	174.80	-116.00	-1,526.00	2,632.30	2,593.45	38.84	67.769	
8,700.00	8,580.86	8,618.76	8,599.86	24.53	19.89	174.82	-116.00	-1,526.00	2,638.76	2,599.44	39.32	67.112	
8,800.00	8,680.78	8,718.68	8,699.78	24.75	20.12	174.83	-116.00	-1,526.00	2,642.62	2,602.83	39.80	66.405	
8,898.13	8,778.90	8,816.80	8,797.90	24.95	20.35	-90.56	-116.00	-1,526.00	2,643.88	2,603.62	40.26	65.674	
8,900.00	8,780.77	8,818.67	8,799.77	24.96	20.35	-90.56	-116.00	-1,526.00	2,643.88	2,603.61	40.27	65.660	
9,000.00	8,880.77	8,918.67	8,899.77	25.15	20.59	-90.56	-116.00	-1,526.00	2,643.88	2,603.14	40.73	64.905	
9,100.00	8,980.77	9,018.67	8,999.77	25.34	20.83	-90.56	-116.00	-1,526.00	2,643.88	2,602.67	41.21	64.157	
9,200.00	9,080.77	9,118.67	9,099.77	25.54	21.08	-90.56	-116.00	-1,526.00	2,643.88	2,602.19	41.69	63.415	
9,300.00	9,180.77	9,218.67	9,199.77	25.75	21.33	-90.56	-116.00	-1,526.00	2,643.88	2,601.70	42.18	62.680	
9,400.00	9,280.77	9,318.67	9,299.77	25.95	21.58	-90.56	-116.00	-1,526.00	2,643.88	2,601.20	42.68	61.953	
9,500.00	9,380.77	9,418.67	9,399.77	26.16	21.83	-90.56	-116.00	-1,526.00	2,643.88	2,600.70	43.18	61.234	
9,600.00	9,480.77	9,518.67	9,499.77	26.38	22.09	-90.56	-116.00	-1,526.00	2,643.88	2,600.19	43.68	60.523	
9,700.00	9,580.77	9,618.67	9,599.77	26.59	22.35	-90.56	-116.00	-1,526.00	2,643.88	2,599.68	44.20	59.820	
9,800.00	9,680.77	9,718.67	9,699.77	26.81	22.62	-90.56	-116.00	-1,526.00	2,643.88	2,599.16	44.72	59.126	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,818.67	9,799.77	27.03	22.88	-90.56	-116.00	-1,526.00	2,643.88	2,598.64	45.24	58.441	
10,000.00	9,880.77	9,918.67	9,899.77	27.26	23.15	-90.56	-116.00	-1,526.00	2,643.88	2,598.11	45.77	57.765	
10,100.00	9,980.77	10,018.67	9,999.77	27.49	23.42	-90.56	-116.00	-1,526.00	2,643.88	2,597.57	46.30	57.099	
10,200.00	10,080.77	10,118.67	10,099.77	27.72	23.69	-90.56	-116.00	-1,526.00	2,643.88	2,597.03	46.84	56.441	
10,300.00	10,180.77	10,218.67	10,199.77	27.95	23.97	-90.56	-116.00	-1,526.00	2,643.88	2,596.49	47.39	55.793	
10,400.00	10,280.77	10,318.67	10,299.77	28.19	24.24	-90.56	-116.00	-1,526.00	2,643.88	2,595.94	47.94	55.155	
10,500.00	10,380.77	10,418.67	10,399.77	28.43	24.52	-90.56	-116.00	-1,526.00	2,643.88	2,595.39	48.49	54.526	
10,600.00	10,480.77	10,518.67	10,499.77	28.67	24.81	-90.56	-116.00	-1,526.00	2,643.88	2,594.83	49.05	53.907	
10,700.00	10,580.77	10,618.67	10,599.77	28.91	25.09	-90.56	-116.00	-1,526.00	2,643.88	2,594.27	49.61	53.297	
10,800.00	10,680.77	10,718.67	10,699.77	29.16	25.37	-90.56	-116.00	-1,526.00	2,643.88	2,593.71	50.17	52.697	
10,900.00	10,780.77	10,818.67	10,799.77	29.40	25.66	-90.56	-116.00	-1,526.00	2,643.88	2,593.14	50.74	52.106	
11,000.00	10,880.77	10,918.67	10,899.77	29.65	25.95	-90.56	-116.00	-1,526.00	2,643.88	2,592.56	51.31	51.524	
11,100.00	10,980.77	11,018.67	10,999.77	29.91	26.24	-90.56	-116.00	-1,526.00	2,643.88	2,591.99	51.89	50.952	
11,200.00	11,080.77	11,118.67	11,099.77	30.16	26.53	-90.56	-116.00	-1,526.00	2,643.88	2,591.41	52.47	50.389	
11,300.00	11,180.77	11,218.67	11,199.77	30.42	26.83	-90.56	-116.00	-1,526.00	2,643.88	2,590.83	53.05	49.835	
11,400.00	11,280.77	11,318.67	11,299.77	30.68	27.12	-90.56	-116.00	-1,526.00	2,643.88	2,590.24	53.64	49.291	
11,500.00	11,380.77	11,418.67	11,399.77	30.94	27.42	-90.56	-116.00	-1,526.00	2,643.88	2,589.65	54.23	48.755	
11,600.00	11,480.77	11,518.68	11,499.78	31.20	27.72	-90.56	-115.97	-1,526.00	2,643.88	2,589.06	54.82	48.228	
11,635.13	11,515.90	11,553.84	11,534.91	31.29	27.82	-90.53	-114.53	-1,526.01	2,643.88	2,588.85	55.03	48.047	
11,636.37	11,517.14	11,555.08	11,536.14	31.30	27.83	-89.99	-114.44	-1,526.01	2,643.88	2,588.84	55.03	48.040	
11,650.00	11,530.77	11,568.66	11,549.67	31.33	27.87	-89.97	-113.28	-1,526.03	2,643.88	2,588.76	55.11	47.971	
11,700.00	11,580.63	11,618.29	11,598.80	31.46	28.01	-89.89	-106.32	-1,526.09	2,643.88	2,588.48	55.40	47.724	
11,750.00	11,630.00	11,667.62	11,646.85	31.59	28.15	-89.82	-95.21	-1,526.19	2,643.89	2,588.21	55.68	47.485	
11,800.00	11,678.50	11,716.67	11,693.49	31.71	28.28	-89.74	-80.11	-1,526.33	2,643.90	2,587.95	55.95	47.257	
11,850.00	11,725.77	11,765.43	11,738.43	31.83	28.40	-89.67	-61.20	-1,526.51	2,643.91	2,587.70	56.21	47.037	
11,900.00	11,771.43	11,813.93	11,781.36	31.94	28.52	-89.60	-38.67	-1,526.72	2,643.93	2,587.47	56.46	46.826	
11,950.00	11,815.16	11,862.18	11,822.03	32.05	28.63	-89.53	-12.74	-1,526.96	2,643.95	2,587.24	56.71	46.621	
12,000.00	11,856.60	11,910.20	11,860.19	32.14	28.73	-89.47	16.37	-1,527.22	2,643.97	2,587.01	56.96	46.421	
12,050.00	11,895.45	11,958.00	11,895.63	32.23	28.82	-89.41	48.43	-1,527.52	2,643.99	2,586.79	57.20	46.224	
12,100.00	11,931.42	12,005.60	11,928.15	32.31	28.91	-89.36	83.17	-1,527.84	2,644.01	2,586.57	57.44	46.028	
12,150.00	11,964.22	12,053.01	11,957.56	32.38	28.99	-89.31	120.34	-1,528.19	2,644.03	2,586.34	57.69	45.833	
12,200.00	11,993.61	12,100.26	11,983.71	32.44	29.08	-89.26	159.68	-1,528.55	2,644.05	2,586.11	57.94	45.635	
12,250.00	12,019.36	12,147.37	12,006.47	32.50	29.16	-89.22	200.91	-1,528.93	2,644.07	2,585.87	58.20	45.434	
12,300.00	12,041.28	12,194.36	12,025.72	32.56	29.26	-89.19	243.75	-1,529.33	2,644.08	2,585.62	58.46	45.229	
12,350.00	12,059.21	12,241.24	12,041.36	32.61	29.38	-89.16	287.93	-1,529.74	2,644.09	2,585.36	58.73	45.018	
12,400.00	12,073.00	12,288.03	12,053.33	37.58	29.51	-89.14	333.16	-1,530.15	2,644.10	2,585.11	58.98	44.827	
12,435.13	12,080.15	12,321.44	12,059.65	37.61	34.81	-89.13	365.95	-1,530.46	2,644.10	2,584.97	59.13	44.717	
12,460.13	12,084.49	12,346.09	12,063.90	37.64	34.83	-89.13	390.24	-1,530.68	2,644.10	2,584.87	59.23	44.642	
12,500.00	12,090.60	12,384.36	12,069.46	37.68	34.86	-89.12	428.09	-1,531.03	2,644.09	2,584.69	59.40	44.511	
12,550.00	12,095.92	12,432.33	12,074.28	37.73	34.89	-89.12	475.82	-1,531.47	2,644.09	2,584.44	59.65	44.327	
12,600.00	12,098.63	12,480.30	12,076.70	37.79	34.93	-89.11	523.71	-1,531.92	2,644.09	2,584.16	59.93	44.120	
12,626.80	12,099.00	12,506.07	12,077.00	37.82	34.95	-89.11	549.48	-1,532.15	2,644.08	2,583.99	60.09	44.002	
12,700.00	12,099.00	12,579.27	12,077.00	37.91	35.00	-89.11	622.68	-1,532.83	2,644.07	2,583.47	60.60	43.629	
12,800.00	12,099.00	12,679.27	12,077.00	38.06	35.09	-89.11	722.67	-1,533.75	2,644.06	2,582.65	61.41	43.054	
12,900.00	12,099.00	12,779.27	12,077.00	38.23	35.19	-89.11	822.67	-1,534.68	2,644.04	2,581.70	62.34	42.411	
13,000.00	12,099.00	12,879.27	12,077.00	38.42	35.30	-89.11	922.66	-1,535.60	2,644.03	2,580.64	63.39	41.709	
13,100.00	12,099.00	12,979.27	12,077.00	38.64	35.43	-89.11	1,022.66	-1,536.52	2,644.02	2,579.46	64.55	40.959	
13,200.00	12,099.00	13,079.27	12,077.00	38.90	35.60	-89.11	1,122.66	-1,537.44	2,644.00	2,578.18	65.82	40.170	
13,300.00	12,099.00	13,179.27	12,077.00	39.20	35.80	-89.11	1,222.65	-1,538.37	2,643.99	2,576.80	67.19	39.352	
13,400.00	12,099.00	13,279.27	12,077.00	39.55	36.08	-89.11	1,322.65	-1,539.29	2,643.97	2,575.32	68.65	38.514	
13,500.00	12,099.00	13,379.27	12,077.00	39.95	36.46	-89.11	1,422.64	-1,540.21	2,643.96	2,573.76	70.20	37.664	
13,600.00	12,099.00	13,479.27	12,077.00	40.40	36.95	-89.11	1,522.64	-1,541.14	2,643.95	2,572.11	71.83	36.808	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,579.27	12,077.00	40.92	37.56	-89.11	1,622.63	-1,542.06	2,643.93	2,570.39	73.54	35.952	
13,800.00	12,099.00	13,679.27	12,077.00	41.51	38.27	-89.11	1,722.63	-1,542.98	2,643.92	2,568.60	75.32	35.102	
13,900.00	12,099.00	13,779.27	12,077.00	42.15	39.07	-89.11	1,822.63	-1,543.90	2,643.90	2,566.73	77.17	34.261	
14,000.00	12,099.00	13,879.27	12,077.00	42.85	39.94	-89.11	1,922.62	-1,544.83	2,643.89	2,564.81	79.08	33.434	
14,100.00	12,099.00	13,979.27	12,077.00	43.62	40.85	-89.11	2,022.62	-1,545.75	2,643.87	2,562.83	81.05	32.622	
14,200.00	12,099.00	14,079.27	12,077.00	44.43	41.81	-89.11	2,122.61	-1,546.67	2,643.86	2,560.79	83.07	31.828	
14,300.00	12,099.00	14,179.27	12,077.00	45.29	42.81	-89.11	2,222.61	-1,547.60	2,643.85	2,558.71	85.14	31.053	
14,400.00	12,099.00	14,279.27	12,077.00	46.20	43.83	-89.11	2,322.60	-1,548.52	2,643.83	2,556.58	87.26	30.299	
14,500.00	12,099.00	14,379.27	12,077.00	47.14	44.89	-89.11	2,422.60	-1,549.44	2,643.82	2,554.40	89.42	29.567	
14,600.00	12,099.00	14,479.27	12,077.00	48.12	45.96	-89.11	2,522.60	-1,550.36	2,643.80	2,552.19	91.62	28.857	
14,700.00	12,099.00	14,579.27	12,077.00	49.13	47.06	-89.11	2,622.59	-1,551.29	2,643.79	2,549.93	93.86	28.169	
14,800.00	12,099.00	14,679.27	12,077.00	50.17	48.18	-89.11	2,722.59	-1,552.21	2,643.78	2,547.65	96.13	27.503	
14,900.00	12,099.00	14,779.27	12,077.00	51.23	49.32	-89.11	2,822.58	-1,553.13	2,643.76	2,545.33	98.43	26.859	
15,000.00	12,099.00	14,879.27	12,077.00	52.32	50.48	-89.11	2,922.58	-1,554.06	2,643.75	2,542.98	100.77	26.236	
15,100.00	12,099.00	14,979.27	12,077.00	53.43	51.65	-89.11	3,022.57	-1,554.98	2,643.73	2,540.60	103.13	25.635	
15,200.00	12,099.00	15,079.27	12,077.00	54.55	52.83	-89.11	3,122.57	-1,555.90	2,643.72	2,538.20	105.52	25.055	
15,300.00	12,099.00	15,179.27	12,077.00	55.70	54.03	-89.11	3,222.57	-1,556.82	2,643.71	2,535.78	107.93	24.495	
15,400.00	12,099.00	15,279.27	12,077.00	56.86	55.24	-89.11	3,322.56	-1,557.75	2,643.69	2,533.33	110.37	23.954	
15,500.00	12,099.00	15,379.27	12,077.00	58.03	56.46	-89.11	3,422.56	-1,558.67	2,643.68	2,530.86	112.82	23.432	
15,600.00	12,099.00	15,479.27	12,077.00	59.22	57.69	-89.11	3,522.55	-1,559.59	2,643.66	2,528.37	115.30	22.929	
15,700.00	12,099.00	15,579.27	12,077.00	60.43	58.93	-89.11	3,622.55	-1,560.52	2,643.65	2,525.86	117.79	22.443	
15,800.00	12,099.00	15,679.27	12,077.00	61.64	60.18	-89.11	3,722.54	-1,561.44	2,643.64	2,523.33	120.31	21.974	
15,900.00	12,099.00	15,779.27	12,077.00	62.86	61.44	-89.11	3,822.54	-1,562.36	2,643.62	2,520.79	122.83	21.522	
16,000.00	12,099.00	15,879.27	12,077.00	64.10	62.71	-89.11	3,922.54	-1,563.28	2,643.61	2,518.23	125.38	21.085	
16,100.00	12,099.00	15,979.27	12,077.00	65.34	63.99	-89.11	4,022.53	-1,564.21	2,643.59	2,515.65	127.94	20.663	
16,200.00	12,099.00	16,079.27	12,077.00	66.59	65.27	-89.11	4,122.53	-1,565.13	2,643.58	2,513.07	130.51	20.256	
16,300.00	12,099.00	16,179.27	12,077.00	67.85	66.56	-89.11	4,222.52	-1,566.05	2,643.56	2,510.47	133.10	19.862	
16,400.00	12,099.00	16,279.27	12,077.00	69.12	67.85	-89.11	4,322.52	-1,566.98	2,643.55	2,507.86	135.69	19.482	
16,500.00	12,099.00	16,379.27	12,077.00	70.40	69.15	-89.11	4,422.51	-1,567.90	2,643.54	2,505.23	138.30	19.114	
16,600.00	12,099.00	16,479.27	12,077.00	71.68	70.46	-89.11	4,522.51	-1,568.82	2,643.52	2,502.60	140.92	18.759	
16,700.00	12,099.00	16,579.27	12,077.00	72.97	71.77	-89.11	4,622.51	-1,569.74	2,643.51	2,499.96	143.55	18.415	
16,800.00	12,099.00	16,679.27	12,077.00	74.27	73.09	-89.11	4,722.50	-1,570.67	2,643.49	2,497.30	146.19	18.082	
16,900.00	12,099.00	16,779.27	12,077.00	75.57	74.41	-89.11	4,822.50	-1,571.59	2,643.48	2,494.64	148.84	17.761	
16,945.02	12,099.00	16,824.29	12,077.00	76.15	75.01	-89.11	4,867.51	-1,572.00	2,643.47	2,493.44	150.03	17.619	
16,949.11	12,099.00	16,823.77	12,077.00	76.21	75.00	-89.11	4,867.00	-1,572.00	2,643.48	2,493.42	150.06	17.617 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 203H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12329-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.02	-90.62	-7.00	-642.00	642.04				
100.00	100.00	116.00	116.00	0.13	0.18	-90.62	-7.00	-642.00	642.04	641.73	0.31	2,058.669	
200.00	200.00	216.00	216.00	0.49	0.54	-90.62	-7.00	-642.00	642.04	641.01	1.03	624.057	
300.00	300.00	316.00	316.00	0.84	0.90	-90.62	-7.00	-642.00	642.04	640.29	1.75	367.771	
400.00	400.00	416.00	416.00	1.20	1.26	-90.62	-7.00	-642.00	642.04	639.58	2.46	260.705	
500.00	500.00	516.00	516.00	1.56	1.62	-90.62	-7.00	-642.00	642.04	638.86	3.18	201.921	
600.00	600.00	616.00	616.00	1.92	1.98	-90.62	-7.00	-642.00	642.04	638.14	3.90	164.769	
700.00	700.00	716.00	716.00	2.28	2.34	-90.62	-7.00	-642.00	642.04	637.42	4.61	139.164	
800.00	800.00	816.00	816.00	2.64	2.69	-90.62	-7.00	-642.00	642.04	636.71	5.33	120.447	
900.00	900.00	916.00	916.00	3.00	3.05	-90.62	-7.00	-642.00	642.04	635.99	6.05	106.167	
1,000.00	1,000.00	1,016.00	1,016.00	3.35	3.41	-90.62	-7.00	-642.00	642.04	635.27	6.76	94.915	
1,100.00	1,100.00	1,116.00	1,116.00	3.71	3.77	-90.62	-7.00	-642.00	642.04	634.56	7.48	85.819	
1,200.00	1,200.00	1,216.00	1,216.00	4.07	4.10	-90.62	-7.00	-642.00	642.04	633.87	8.17	78.583	
1,300.00	1,300.00	1,317.96	1,317.96	4.25	4.26	-90.63	-7.01	-641.97	642.01	633.50	8.51	75.423	
1,400.00	1,400.00	1,430.20	1,430.19	4.28	4.30	-90.65	-7.31	-640.55	640.75	632.17	8.58	74.659	
1,500.00	1,500.00	1,542.34	1,542.27	4.34	4.38	-90.73	-8.09	-636.99	637.59	628.87	8.72	73.156	
1,600.00	1,599.99	1,654.35	1,654.13	4.43	4.49	174.56	-9.33	-631.30	633.38	624.48	8.91	71.115	
1,700.00	1,699.96	1,766.25	1,765.74	4.54	4.64	174.42	-11.03	-623.47	629.02	619.86	9.15	68.732	
1,800.00	1,799.86	1,869.76	1,868.86	4.68	4.81	174.28	-12.92	-614.75	624.95	615.51	9.44	66.174	
1,900.00	1,899.68	1,969.72	1,968.44	4.84	4.99	174.15	-14.77	-606.24	622.54	612.76	9.78	63.653	
1,988.63	1,988.04	2,058.34	2,056.72	5.00	5.17	174.05	-16.41	-598.69	621.86	611.75	10.11	61.483 CC	
2,000.00	1,999.37	2,069.71	2,068.05	5.02	5.20	174.04	-16.63	-597.72	621.87	611.71	10.16	61.220	
2,100.00	2,098.99	2,169.70	2,167.66	5.22	5.42	173.93	-18.48	-589.21	622.07	611.50	10.57	58.839	
2,200.00	2,198.60	2,269.69	2,267.27	5.45	5.66	173.83	-20.33	-580.69	622.27	611.25	11.02	56.468	
2,300.00	2,298.22	2,369.69	2,366.89	5.69	5.92	173.72	-22.18	-572.18	622.47	610.98	11.50	54.145	
2,400.00	2,397.84	2,469.68	2,466.50	5.94	6.19	173.61	-24.03	-563.66	622.68	610.68	12.00	51.896	
2,500.00	2,497.46	2,569.67	2,566.11	6.21	6.46	173.51	-25.88	-555.14	622.89	610.38	12.52	49.739	
2,600.00	2,597.08	2,669.67	2,665.72	6.49	6.75	173.40	-27.73	-546.63	623.09	610.03	13.07	47.683	
2,700.00	2,696.70	2,769.66	2,765.34	6.78	7.05	173.30	-29.58	-538.11	623.31	609.68	13.63	45.734	
2,800.00	2,796.32	2,869.65	2,864.95	7.07	7.36	173.19	-31.44	-529.60	623.52	609.31	14.21	43.891	
2,900.00	2,895.94	2,969.65	2,964.56	7.38	7.67	173.09	-33.29	-521.08	623.73	608.94	14.80	42.154	
3,000.00	2,995.56	3,069.64	3,064.18	7.69	7.98	172.98	-35.14	-512.56	623.95	608.55	15.40	40.518	
3,100.00	3,095.18	3,169.63	3,163.79	8.00	8.31	172.88	-36.99	-504.05	624.17	608.16	16.01	38.980	
3,200.00	3,194.80	3,269.63	3,263.40	8.32	8.63	172.77	-38.84	-495.53	624.39	607.76	16.64	37.534	
3,300.00	3,294.42	3,369.62	3,363.01	8.65	8.96	172.67	-40.69	-487.02	624.62	607.35	17.27	36.175	
3,400.00	3,394.04	3,469.61	3,462.63	8.98	9.30	172.56	-42.54	-478.50	624.84	606.94	17.91	34.897	
3,500.00	3,493.66	3,569.61	3,562.24	9.31	9.63	172.46	-44.39	-469.98	625.07	606.52	18.55	33.695	
3,600.00	3,593.28	3,669.60	3,661.85	9.65	9.97	172.36	-46.25	-461.47	625.30	606.10	19.20	32.563	
3,700.00	3,692.90	3,769.59	3,761.46	9.99	10.32	172.25	-48.10	-452.95	625.53	605.67	19.86	31.497	
3,800.00	3,792.52	3,869.59	3,861.08	10.33	10.66	172.15	-49.95	-444.44	625.77	605.25	20.52	30.492	
3,900.00	3,892.14	3,969.58	3,960.69	10.68	11.01	172.04	-51.80	-435.92	626.00	604.81	21.19	29.543	
4,000.00	3,991.76	4,069.57	4,060.30	11.02	11.36	171.94	-53.65	-427.40	626.24	604.38	21.86	28.647	
4,100.00	4,091.37	4,169.57	4,159.92	11.37	11.71	171.83	-55.50	-418.89	626.48	603.95	22.54	27.800	
4,200.00	4,190.99	4,269.56	4,259.53	11.72	12.07	171.73	-57.35	-410.37	626.73	603.51	23.21	26.998	
4,300.00	4,290.61	4,369.55	4,359.14	12.07	12.42	171.63	-59.21	-401.85	626.97	603.08	23.89	26.239	
4,400.00	4,390.23	4,469.55	4,458.75	12.43	12.78	171.52	-61.06	-393.34	627.22	602.64	24.58	25.518	
4,500.00	4,489.85	4,569.54	4,558.37	12.78	13.13	171.42	-62.91	-384.82	627.47	602.20	25.27	24.834	
4,600.00	4,589.47	4,669.53	4,657.98	13.14	13.49	171.31	-64.76	-376.31	627.72	601.76	25.96	24.184	
4,700.00	4,689.09	4,769.53	4,757.59	13.50	13.85	171.21	-66.61	-367.79	627.97	601.32	26.65	23.566	
4,800.00	4,788.71	4,869.52	4,857.20	13.86	14.21	171.11	-68.46	-359.27	628.22	600.88	27.34	22.977	
4,900.00	4,888.33	4,969.51	4,956.82	14.22	14.46	171.00	-70.31	-350.76	628.48	600.56	27.92	22.512 ES	
5,000.00	4,987.95	5,069.51	5,056.43	14.41	14.54	170.90	-72.16	-342.24	628.74	600.59	28.16	22.331	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 203H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12329-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,087.57	5,169.50	5,156.04	14.44	14.58	170.80	-74.02	-333.73	629.00	600.82	28.18	22.317	
5,112.48	5,100.00	5,181.98	5,168.47	14.45	14.59	170.78	-74.25	-332.66	629.03	600.84	28.19	22.315	
5,200.00	5,187.13	5,269.49	5,255.65	14.49	14.63	170.70	-75.87	-325.21	629.92	601.69	28.23	22.312	
5,300.00	5,286.51	5,369.45	5,355.23	14.55	14.70	170.63	-77.72	-316.70	632.56	604.26	28.30	22.352	
5,400.00	5,385.68	5,469.35	5,454.75	14.63	14.77	170.59	-79.57	-308.19	636.91	608.52	28.39	22.437	
5,500.00	5,484.61	5,569.17	5,554.19	14.72	14.85	170.56	-81.42	-299.69	642.99	614.49	28.49	22.567	
5,600.00	5,583.27	5,668.86	5,653.50	14.83	14.94	170.56	-83.26	-291.20	650.78	622.16	28.62	22.741	
5,700.00	5,681.64	5,768.41	5,752.67	14.96	15.03	170.58	-85.10	-282.72	660.26	631.52	28.76	22.958	
5,800.00	5,779.67	5,867.77	5,851.66	15.11	15.14	170.62	-86.94	-274.26	671.50	642.58	28.92	23.217	
5,900.00	5,877.35	5,966.93	5,950.43	15.28	15.26	170.68	-88.78	-265.81	684.43	655.33	29.10	23.517	
6,000.00	5,974.63	6,065.84	6,048.97	15.47	15.38	170.76	-90.61	-257.39	699.07	669.77	29.30	23.856	
6,100.00	6,071.50	6,164.48	6,147.24	15.68	15.51	170.85	-92.44	-248.99	715.41	685.89	29.52	24.234	
6,200.00	6,167.92	6,262.83	6,245.21	15.91	15.65	170.96	-94.26	-240.61	733.46	703.70	29.76	24.648	
6,300.00	6,263.86	6,360.84	6,342.85	16.17	15.79	171.08	-96.07	-232.26	753.20	723.19	30.01	25.098	
6,347.11	6,308.89	6,406.89	6,388.73	16.30	15.86	171.14	-96.93	-228.34	763.08	732.95	30.14	25.321	
6,400.00	6,359.37	6,455.36	6,437.01	16.45	15.94	171.22	-97.81	-224.27	774.45	744.17	30.28	25.578	
6,500.00	6,454.83	6,541.43	6,522.84	16.75	16.07	171.37	-99.19	-217.92	796.95	766.40	30.55	26.086	
6,600.00	6,550.28	6,626.89	6,608.14	17.05	16.21	171.55	-100.29	-212.87	820.85	790.02	30.83	26.625	
6,700.00	6,645.73	6,711.72	6,692.88	17.38	16.34	171.73	-101.11	-209.09	846.15	815.03	31.12	27.192	
6,800.00	6,741.18	6,795.87	6,776.99	17.71	16.47	171.93	-101.66	-206.55	872.83	841.42	31.41	27.787	
6,900.00	6,836.63	6,879.33	6,860.44	18.06	16.60	172.14	-101.95	-205.23	900.88	869.17	31.71	28.408	
7,000.00	6,932.09	6,966.98	6,948.09	18.42	16.73	172.37	-102.00	-205.00	930.19	898.16	32.03	29.042	
7,100.00	7,027.54	7,062.43	7,043.54	18.78	16.87	172.60	-102.00	-205.00	959.77	927.39	32.38	29.645	
7,200.00	7,122.99	7,157.88	7,138.99	19.16	17.02	172.82	-102.00	-205.00	989.36	956.63	32.74	30.222	
7,300.00	7,218.44	7,253.33	7,234.44	19.55	17.17	173.03	-102.00	-205.00	1,018.97	985.86	33.11	30.776	
7,400.00	7,313.89	7,348.78	7,329.89	19.94	17.33	173.23	-102.00	-205.00	1,048.59	1,015.10	33.50	31.306	
7,500.00	7,409.35	7,444.24	7,425.35	20.35	17.49	173.42	-102.00	-205.00	1,078.22	1,044.33	33.89	31.812	
7,600.00	7,504.80	7,539.69	7,520.80	20.76	17.66	173.59	-102.00	-205.00	1,107.86	1,073.58	34.30	32.296	
7,700.00	7,600.25	7,635.14	7,616.25	21.18	17.84	173.76	-102.00	-205.00	1,137.51	1,102.79	34.72	32.758	
7,741.71	7,640.06	7,674.95	7,656.06	21.35	17.91	173.83	-102.00	-205.00	1,149.88	1,114.98	34.90	32.945	
7,800.00	7,695.83	7,730.72	7,711.83	21.60	18.02	173.95	-102.00	-205.00	1,166.75	1,131.59	35.16	33.188	
7,900.00	7,792.09	7,826.98	7,808.09	22.00	18.20	174.13	-102.00	-205.00	1,193.71	1,158.11	35.59	33.536	
8,000.00	7,889.02	7,923.91	7,905.02	22.39	18.39	174.28	-102.00	-205.00	1,218.16	1,182.11	36.04	33.799	
8,100.00	7,986.56	8,021.45	8,002.56	22.76	18.59	174.42	-102.00	-205.00	1,240.08	1,203.58	36.50	33.979	
8,200.00	8,084.65	8,119.54	8,100.65	23.10	18.79	174.53	-102.00	-205.00	1,259.45	1,222.49	36.95	34.081	
8,300.00	8,183.21	8,218.10	8,199.21	23.43	19.00	174.63	-102.00	-205.00	1,276.26	1,238.84	37.42	34.107	
8,400.00	8,282.18	8,317.07	8,298.18	23.73	19.21	174.71	-102.00	-205.00	1,290.50	1,252.61	37.89	34.061	
8,500.00	8,381.49	8,416.38	8,397.49	24.02	19.43	174.77	-102.00	-205.00	1,302.16	1,263.80	38.36	33.946	
8,600.00	8,481.07	8,515.96	8,497.07	24.28	19.65	174.82	-102.00	-205.00	1,311.22	1,272.39	38.83	33.765	
8,700.00	8,580.86	8,615.75	8,596.86	24.53	19.88	174.85	-102.00	-205.00	1,317.69	1,278.38	39.31	33.521	
8,800.00	8,680.78	8,715.67	8,696.78	24.75	20.11	174.87	-102.00	-205.00	1,321.55	1,281.76	39.79	33.216	
8,898.13	8,778.90	8,813.79	8,794.90	24.95	20.34	-90.52	-102.00	-205.00	1,322.80	1,282.56	40.25	32.866	
8,900.00	8,780.77	8,815.66	8,796.77	24.96	20.35	-90.52	-102.00	-205.00	1,322.80	1,282.55	40.26	32.859	
9,000.00	8,880.77	8,915.66	8,896.77	25.15	20.58	-90.52	-102.00	-205.00	1,322.80	1,282.08	40.73	32.481	
9,100.00	8,980.77	9,015.66	8,996.77	25.34	20.83	-90.52	-102.00	-205.00	1,322.80	1,281.60	41.20	32.107	
9,200.00	9,080.77	9,115.66	9,096.77	25.54	21.07	-90.52	-102.00	-205.00	1,322.80	1,281.12	41.68	31.735	
9,300.00	9,180.77	9,215.66	9,196.77	25.75	21.32	-90.52	-102.00	-205.00	1,322.80	1,280.63	42.17	31.368	
9,400.00	9,280.77	9,315.66	9,296.77	25.95	21.57	-90.52	-102.00	-205.00	1,322.80	1,280.14	42.67	31.004	
9,500.00	9,380.77	9,415.66	9,396.77	26.16	21.83	-90.52	-102.00	-205.00	1,322.80	1,279.64	43.17	30.644	
9,600.00	9,480.77	9,515.66	9,496.77	26.38	22.08	-90.52	-102.00	-205.00	1,322.80	1,279.13	43.67	30.288	
9,700.00	9,580.77	9,615.66	9,596.77	26.59	22.34	-90.52	-102.00	-205.00	1,322.80	1,278.62	44.19	29.936	
9,800.00	9,680.77	9,715.66	9,696.77	26.81	22.61	-90.52	-102.00	-205.00	1,322.80	1,278.10	44.71	29.589	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 203H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12329-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,780.77	9,815.66	9,796.77	27.03	22.87	-90.52	-102.00	-205.00	1,322.80	1,277.57	45.23	29.246	
10,000.00	9,880.77	9,915.66	9,896.77	27.26	23.14	-90.52	-102.00	-205.00	1,322.80	1,277.04	45.76	28.908	
10,100.00	9,980.77	10,015.66	9,996.77	27.49	23.41	-90.52	-102.00	-205.00	1,322.80	1,276.51	46.29	28.574	
10,200.00	10,080.77	10,115.66	10,096.77	27.72	23.68	-90.52	-102.00	-205.00	1,322.80	1,275.97	46.83	28.245	
10,300.00	10,180.77	10,215.66	10,196.77	27.95	23.96	-90.52	-102.00	-205.00	1,322.80	1,275.43	47.38	27.921	
10,400.00	10,280.77	10,315.66	10,296.77	28.19	24.24	-90.52	-102.00	-205.00	1,322.80	1,274.88	47.93	27.601	
10,500.00	10,380.77	10,415.66	10,396.77	28.43	24.52	-90.52	-102.00	-205.00	1,322.80	1,274.33	48.48	27.286	
10,600.00	10,480.77	10,515.66	10,496.77	28.67	24.80	-90.52	-102.00	-205.00	1,322.80	1,273.77	49.04	26.977	
10,700.00	10,580.77	10,615.66	10,596.77	28.91	25.08	-90.52	-102.00	-205.00	1,322.80	1,273.21	49.60	26.671	
10,800.00	10,680.77	10,715.66	10,696.77	29.16	25.37	-90.52	-102.00	-205.00	1,322.80	1,272.64	50.16	26.371	
10,900.00	10,780.77	10,815.66	10,796.77	29.40	25.65	-90.52	-102.00	-205.00	1,322.80	1,272.07	50.73	26.075	
11,000.00	10,880.77	10,915.66	10,896.77	29.65	25.94	-90.52	-102.00	-205.00	1,322.80	1,271.50	51.30	25.784	
11,100.00	10,980.77	11,015.66	10,996.77	29.91	26.23	-90.52	-102.00	-205.00	1,322.80	1,270.92	51.88	25.498	
11,200.00	11,080.77	11,115.66	11,096.77	30.16	26.52	-90.52	-102.00	-205.00	1,322.80	1,270.35	52.46	25.216	
11,300.00	11,180.77	11,215.66	11,196.77	30.42	26.82	-90.52	-102.00	-205.00	1,322.80	1,269.76	53.04	24.939	
11,400.00	11,280.77	11,315.66	11,296.77	30.68	27.11	-90.52	-102.00	-205.00	1,322.80	1,269.18	53.63	24.666	
11,500.00	11,380.77	11,415.66	11,396.77	30.94	27.41	-90.52	-102.00	-205.00	1,322.80	1,268.59	54.22	24.398	
11,600.00	11,480.77	11,515.66	11,496.77	31.20	27.71	-90.52	-102.00	-205.00	1,322.80	1,267.99	54.81	24.134	
11,601.14	11,481.91	11,516.80	11,497.91	31.20	27.71	-90.52	-102.00	-205.00	1,322.80	1,267.99	54.82	24.131	
11,635.13	11,515.90	11,550.77	11,531.88	31.29	27.81	-90.50	-101.62	-205.00	1,322.80	1,267.79	55.02	24.043	
11,650.00	11,530.77	11,565.61	11,546.69	31.33	27.86	-89.94	-100.88	-205.01	1,322.80	1,267.70	55.11	24.005	
11,700.00	11,580.63	11,615.39	11,596.18	31.46	28.00	-89.86	-95.62	-205.06	1,322.81	1,267.41	55.39	23.880	
11,750.00	11,630.00	11,665.02	11,644.88	31.59	28.14	-89.78	-86.12	-205.15	1,322.81	1,267.14	55.67	23.760	
11,800.00	11,678.50	11,714.50	11,692.43	31.71	28.28	-89.71	-72.48	-205.27	1,322.82	1,266.87	55.95	23.644	
11,850.00	11,725.77	11,763.84	11,738.49	31.83	28.41	-89.63	-54.86	-205.44	1,322.82	1,266.61	56.21	23.533	
11,900.00	11,771.43	11,813.03	11,782.75	31.94	28.53	-89.56	-33.41	-205.63	1,322.83	1,266.36	56.47	23.426	
11,950.00	11,815.16	11,862.10	11,824.89	32.05	28.64	-89.50	-8.31	-205.87	1,322.84	1,266.12	56.72	23.322	
12,000.00	11,856.60	11,911.03	11,864.63	32.14	28.75	-89.43	20.22	-206.13	1,322.85	1,265.88	56.97	23.221	
12,050.00	11,895.45	11,959.86	11,901.70	32.23	28.85	-89.37	51.96	-206.42	1,322.86	1,265.64	57.21	23.121	
12,100.00	11,931.42	12,008.57	11,935.87	32.31	28.94	-89.32	86.66	-206.75	1,322.86	1,265.40	57.46	23.022	
12,150.00	11,964.22	12,057.18	11,966.91	32.38	29.02	-89.27	124.06	-207.09	1,322.87	1,265.16	57.71	22.923	
12,200.00	11,993.61	12,105.71	11,994.62	32.44	29.11	-89.23	163.88	-207.46	1,322.88	1,264.92	57.96	22.823	
12,250.00	12,019.36	12,154.17	12,018.83	32.50	29.20	-89.19	205.83	-207.85	1,322.88	1,264.66	58.22	22.722	
12,300.00	12,041.28	12,202.55	12,039.38	32.56	29.30	-89.16	249.61	-208.25	1,322.89	1,264.40	58.49	22.618	
12,350.00	12,059.21	12,250.88	12,056.15	32.61	29.41	-89.13	294.93	-208.67	1,322.89	1,264.12	58.77	22.511	
12,400.00	12,073.00	12,299.17	12,069.03	37.58	29.54	-89.11	341.45	-209.10	1,322.89	1,263.87	59.02	22.414	
12,435.13	12,080.15	12,333.20	12,075.75	37.61	34.83	-89.10	374.81	-209.41	1,322.88	1,263.72	59.16	22.360	
12,460.13	12,084.49	12,358.13	12,080.07	37.64	34.85	-89.10	399.36	-209.64	1,322.88	1,263.62	59.26	22.322	
12,500.00	12,090.60	12,397.16	12,085.92	37.68	34.88	-89.10	437.93	-209.99	1,322.88	1,263.44	59.44	22.257	
12,550.00	12,095.92	12,446.09	12,091.03	37.73	34.91	-89.09	486.60	-210.44	1,322.87	1,263.18	59.68	22.164	
12,600.00	12,098.63	12,495.03	12,093.64	37.79	34.95	-89.09	535.45	-210.90	1,322.86	1,262.89	59.97	22.060	
12,626.80	12,099.00	12,521.67	12,094.00	37.82	34.97	-89.09	561.67	-211.14	1,322.86	1,262.73	60.13	21.999	
12,700.00	12,099.00	12,605.55	12,094.00	37.91	35.03	-89.09	634.87	-211.81	1,322.85	1,262.17	60.68	21.800	
12,800.00	12,099.00	12,705.55	12,094.00	38.06	35.12	-89.09	734.86	-212.74	1,322.83	1,261.34	61.50	21.510	
12,900.00	12,099.00	12,805.55	12,094.00	38.23	35.22	-89.09	834.86	-213.66	1,322.82	1,260.38	62.44	21.187	
13,000.00	12,099.00	12,905.55	12,094.00	38.42	35.34	-89.09	934.86	-214.58	1,322.81	1,259.31	63.49	20.834	
13,100.00	12,099.00	13,005.55	12,094.00	38.64	35.47	-89.09	1,034.85	-215.50	1,322.79	1,258.13	64.66	20.458	
13,200.00	12,099.00	13,105.55	12,094.00	38.90	35.64	-89.09	1,134.85	-216.43	1,322.78	1,256.85	65.93	20.063	
13,300.00	12,099.00	13,205.55	12,094.00	39.20	35.86	-89.09	1,234.84	-217.35	1,322.76	1,255.46	67.30	19.653	
13,400.00	12,099.00	13,305.55	12,094.00	39.55	36.14	-89.09	1,334.84	-218.27	1,322.75	1,253.98	68.77	19.234	
13,500.00	12,099.00	13,405.55	12,094.00	39.95	36.53	-89.09	1,434.83	-219.20	1,322.74	1,252.41	70.33	18.809	
13,600.00	12,099.00	13,505.55	12,094.00	40.40	37.04	-89.09	1,534.83	-220.12	1,322.72	1,250.76	71.96	18.381	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Offset Design Nina Cortell Fed Com - No. 203H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12329-MWD+HDGM — **Offset Well Error:** 0.00 usft

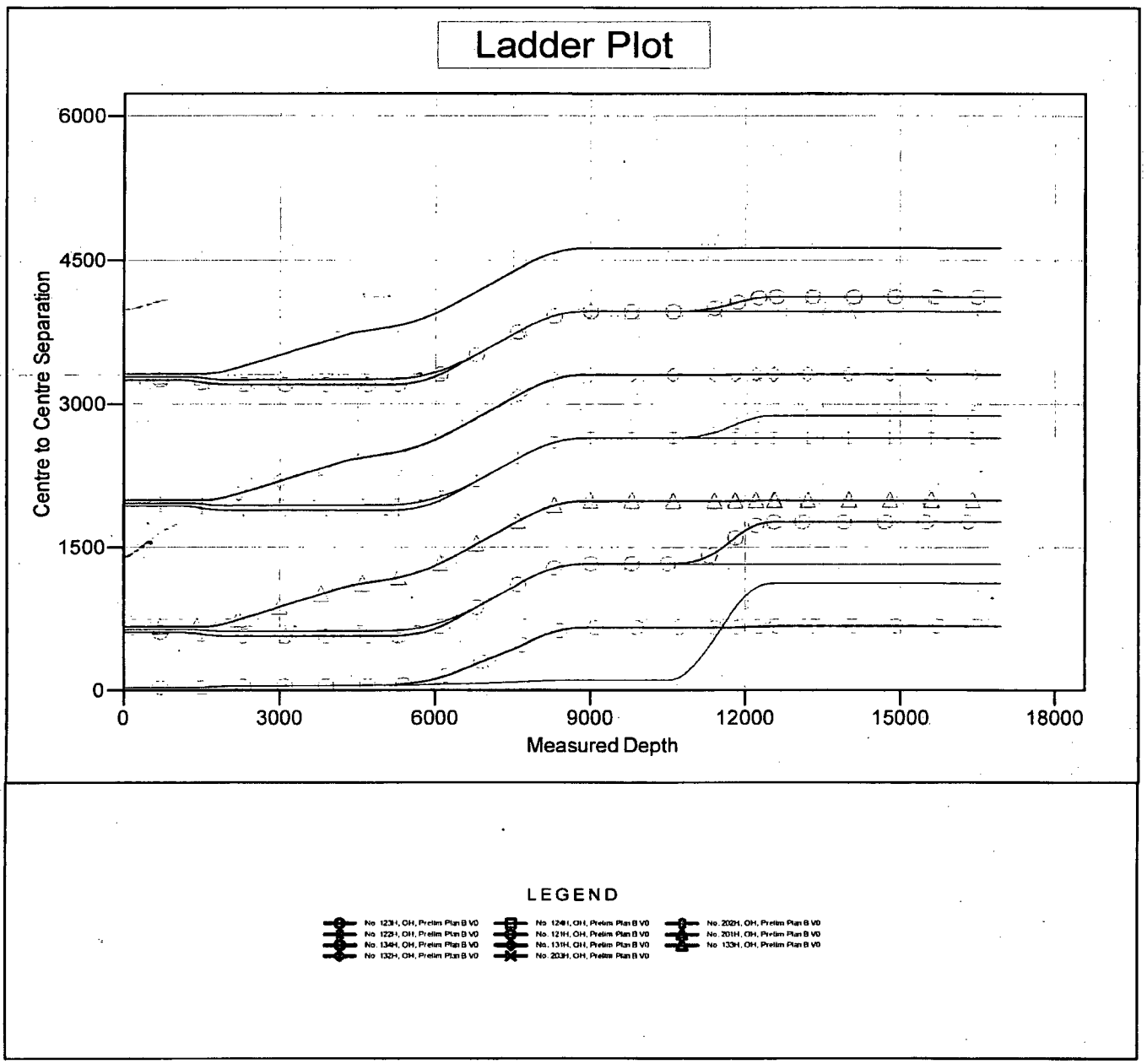
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,099.00	13,605.55	12,094.00	40.92	37.68	-89.09	1,634.83	-221.04	1,322.71	1,249.03	73.67	17.953	
13,800.00	12,099.00	13,705.55	12,094.00	41.51	38.39	-89.09	1,734.82	-221.96	1,322.69	1,247.23	75.46	17.528	
13,900.00	12,099.00	13,805.55	12,094.00	42.15	39.20	-89.09	1,834.82	-222.89	1,322.68	1,245.37	77.31	17.109	
14,000.00	12,099.00	13,905.55	12,094.00	42.85	40.07	-89.09	1,934.81	-223.81	1,322.66	1,243.44	79.22	16.695	
14,100.00	12,099.00	14,005.55	12,094.00	43.62	40.99	-89.09	2,034.81	-224.73	1,322.65	1,241.46	81.19	16.290	
14,200.00	12,099.00	14,105.55	12,094.00	44.43	41.96	-89.09	2,134.80	-225.66	1,322.64	1,239.42	83.22	15.893	
14,300.00	12,099.00	14,205.55	12,094.00	45.29	42.95	-89.09	2,234.80	-226.58	1,322.62	1,237.33	85.29	15.507	
14,400.00	12,099.00	14,305.55	12,094.00	46.20	43.98	-89.09	2,334.80	-227.50	1,322.61	1,235.20	87.41	15.131	
14,500.00	12,099.00	14,405.55	12,094.00	47.14	45.04	-89.09	2,434.79	-228.42	1,322.59	1,233.02	89.57	14.765	
14,600.00	12,099.00	14,505.55	12,094.00	48.12	46.12	-89.09	2,534.79	-229.35	1,322.58	1,230.80	91.78	14.411	
14,700.00	12,099.00	14,605.55	12,094.00	49.13	47.22	-89.09	2,634.78	-230.27	1,322.57	1,228.55	94.02	14.067	
14,800.00	12,099.00	14,705.55	12,094.00	50.17	48.34	-89.09	2,734.78	-231.19	1,322.55	1,226.26	96.29	13.735	
14,900.00	12,099.00	14,805.55	12,094.00	51.23	49.48	-89.09	2,834.77	-232.12	1,322.54	1,223.94	98.60	13.414	
15,000.00	12,099.00	14,905.55	12,094.00	52.32	50.64	-89.09	2,934.77	-233.04	1,322.52	1,221.59	100.93	13.103	
15,100.00	12,099.00	15,005.55	12,094.00	53.43	51.81	-89.09	3,034.77	-233.96	1,322.51	1,219.21	103.29	12.803	
15,200.00	12,099.00	15,105.55	12,094.00	54.55	53.00	-89.09	3,134.76	-234.88	1,322.50	1,216.81	105.68	12.514	
15,300.00	12,099.00	15,205.55	12,094.00	55.70	54.19	-89.09	3,234.76	-235.81	1,322.48	1,214.38	108.10	12.234	
15,400.00	12,099.00	15,305.55	12,094.00	56.86	55.41	-89.09	3,334.75	-236.73	1,322.47	1,211.93	110.53	11.964	
15,500.00	12,099.00	15,405.55	12,094.00	58.03	56.63	-89.09	3,434.75	-237.65	1,322.45	1,209.46	112.99	11.704	
15,600.00	12,099.00	15,505.55	12,094.00	59.22	57.86	-89.09	3,534.74	-238.58	1,322.44	1,206.97	115.47	11.453	
15,700.00	12,099.00	15,605.55	12,094.00	60.43	59.10	-89.09	3,634.74	-239.50	1,322.42	1,204.46	117.96	11.210	
15,800.00	12,099.00	15,705.55	12,094.00	61.64	60.35	-89.09	3,734.74	-240.42	1,322.41	1,201.93	120.48	10.976	
15,900.00	12,099.00	15,805.55	12,094.00	62.86	61.61	-89.09	3,834.73	-241.34	1,322.40	1,199.39	123.01	10.751	
16,000.00	12,099.00	15,905.55	12,094.00	64.10	62.88	-89.09	3,934.73	-242.27	1,322.38	1,196.83	125.55	10.533	
16,100.00	12,099.00	16,005.55	12,094.00	65.34	64.16	-89.09	4,034.72	-243.19	1,322.37	1,194.26	128.11	10.322	
16,200.00	12,099.00	16,105.55	12,094.00	66.59	65.44	-89.09	4,134.72	-244.11	1,322.35	1,191.67	130.68	10.119	
16,300.00	12,099.00	16,205.55	12,094.00	67.85	66.73	-89.09	4,234.71	-245.04	1,322.34	1,189.07	133.27	9.922	
16,400.00	12,099.00	16,305.55	12,094.00	69.12	68.03	-89.09	4,334.71	-245.96	1,322.33	1,186.46	135.87	9.732	
16,500.00	12,099.00	16,405.55	12,094.00	70.40	69.33	-89.09	4,434.71	-246.88	1,322.31	1,183.84	138.48	9.549	
16,600.00	12,099.00	16,505.55	12,094.00	71.68	70.64	-89.09	4,534.70	-247.80	1,322.30	1,181.20	141.10	9.372	
16,700.00	12,099.00	16,605.55	12,094.00	72.97	71.95	-89.09	4,634.70	-248.73	1,322.28	1,178.56	143.73	9.200	
16,800.00	12,099.00	16,705.55	12,094.00	74.27	73.27	-89.09	4,734.69	-249.65	1,322.27	1,175.90	146.37	9.034	
16,900.00	12,099.00	16,794.45	12,094.00	75.57	74.44	-89.09	4,834.69	-250.57	1,322.26	1,173.39	148.87	8.882	
16,949.11	12,099.00	16,843.56	12,094.00	76.21	75.09	-89.09	4,883.60	-251.03	1,322.25	1,172.08	150.17	8.805 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
Project:	Lea County, NM	**TVD Reference:**	Well @ 3818.00usft
Reference Site:	Nina Cortell Fed Com	**MD Reference:**	Well @ 3818.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	No. 204H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan B	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to Well @ 3818.00usft	Coordinates are relative to: No. 204H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104.333334°W	Grid Convergence at Surface is: 0.36°



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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well No. 204H
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Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
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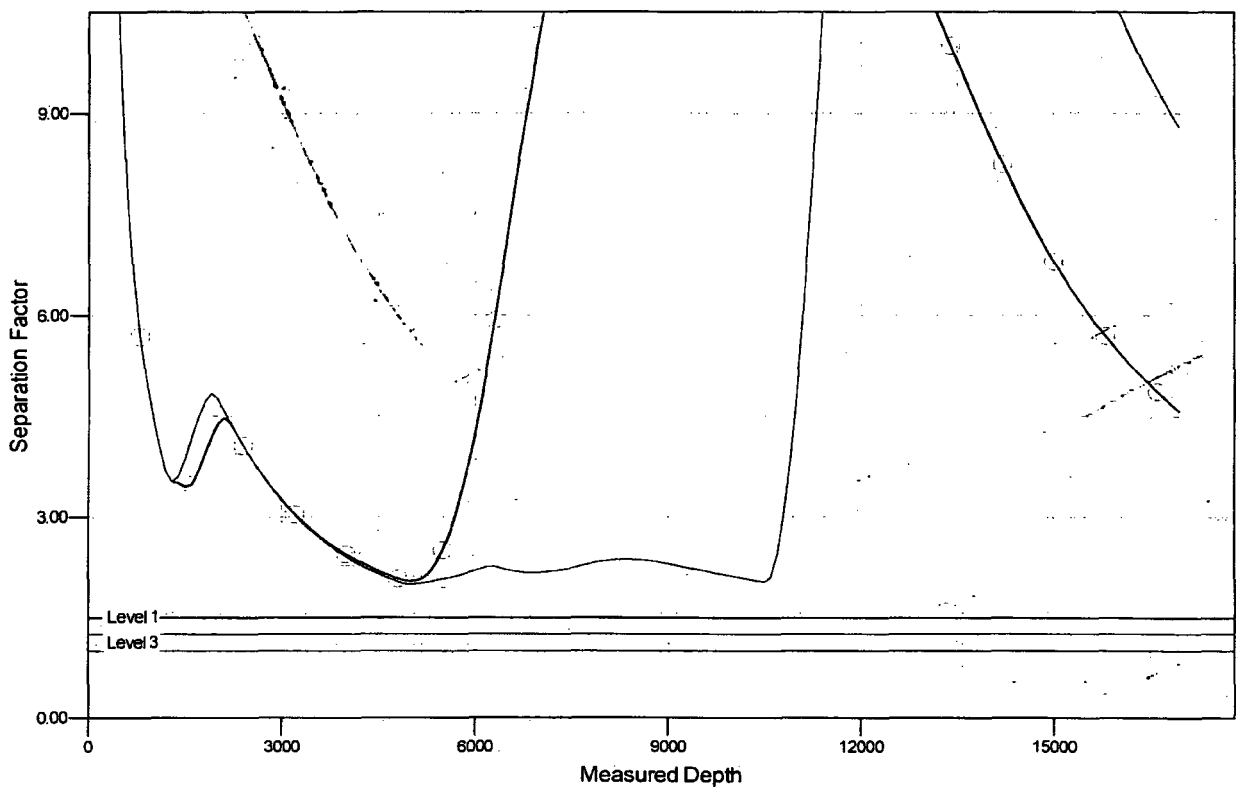
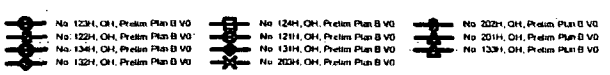
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104.333334°W	Grid Convergence at Surface is: 0.36°

Separation Factor Plot



LEGEND



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

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 5)

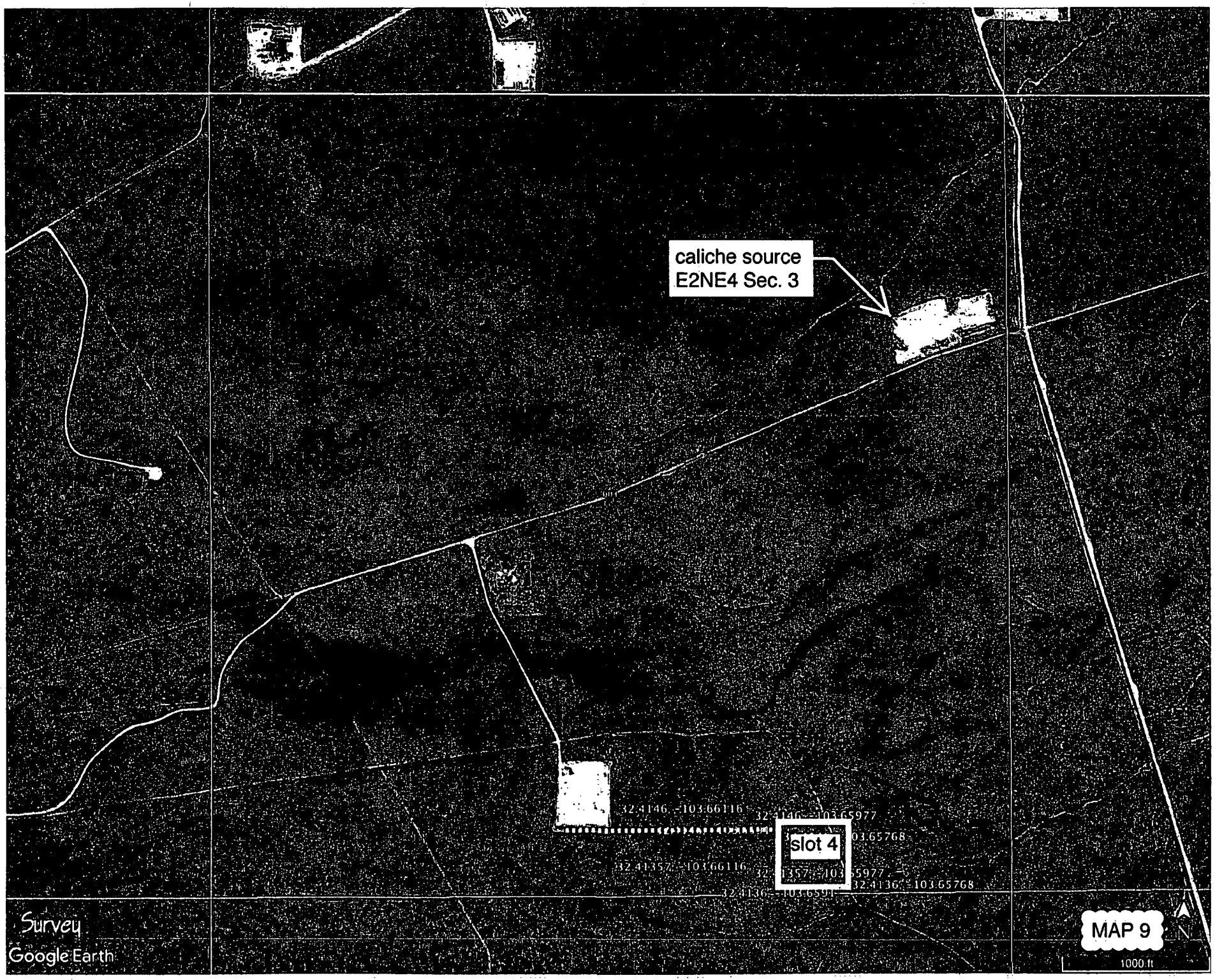
From the junction of US 285 and US 62/180 in Carlsbad...
Go E 29.75 miles on US 62/180 to the equivalent of Mile Post 66.6
Then turn right and go South 9.0 miles on paved Lea County Road 29
(It transitions into Eddy County Road 798)
Then turn left at a very large oil tank and go E 2/3 mile on a caliche road
Then turn left and go N 0.5 mile on a caliche road
Then turn right and go East 1.4 mile on a caliche road
Then turn right and go South 0.6 mile on a caliche road
Then turn left and go East 0.3 mile on a caliche road
Then turn right and go South 0.9 mile on a caliche road
Then turn left and go Northeast 1.2 mile on a caliche road
Then turn right and go SE 0.4 mile on caliche road to SW corner of a P&A pad
Then turn left and go East 1450.21' cross-country to the NW pad corner

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 4 & 5)

The 1450.21' of new resource road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 5%. Maximum cut or fill = 3'. No culvert, cattle guard, or vehicle turn out is needed.

Upgrading will consist of draining and/or patching ten potholes with caliche. The potholes are located (from east to west and in NAD 83) at:
32.41494°, -103.67654°
32.41504°, -103.67879°


caliche source
E2NE4 Sec. 3
32.4146, -103.66116
32.4146, -103.65977
32.4135, -103.65768
slot 4
32.4135, -103.66116
32.4135, -103.65977
32.4136, -103.65768
32.4136, -103.65591
Survey
Google Earth
MAP 9
1000 ft

32.41512°, -103.68060°
32.41702°, -103.68328°
32.41873°, -103.68333°
32.42312°, -103.68326°
32.42402°, -103.68326°
32.42804°, -103.68354°
32.43641°, -103.68974°
32.43644°, -103.69497°

3. EXISTING WELLS (See MAP 3)

Existing oil, gas, SWD, and P & A wells are within a mile. No water or injection wells are within a mile radius.

4. PROPOSED PRODUCTION FACILITIES

No pipeline or power line plans have been finalized at this time. Production equipment will be located on the south side of the pad.

5. WATER SUPPLY (See MAP 6)

Water will be trucked from an existing water station on private land. Berry's water station (CP 00802) is in NWNE 2-21s-33e.

6. CONSTRUCTION MATERIALS & METHODS (See MAPS 7 & 8)

NM One Call (811) will be notified before construction starts. A straw wattle will be installed south of the pad before moving earth to protect an arroyo. A stock water pipeline crossing the NE corner of the pad will be rerouted to the surface owner's satisfaction. A jeep trail that parallels the pipeline will be posted and gated where it crosses the pad to discourage oilfield traffic. Top ≈6" of soil and

brush will be stockpiled north of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Mills) land in E2NE4 3-22s-32e.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Hobbs wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, and mud logger.

9. WELL SITE LAYOUT (See MAP 8)

Also see Rig Layout diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION (See MAPS 9-11)

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad ≈20% (0.73 acre) by removing caliche and reclaiming a 100' x 320' area on the northeast corner of the pad. This will leave 2.92 acres for production equipment (e. g., tank battery, heater-treaters, separators, flare/CBU, pump jacks), and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed

on the contour. Disturbed areas will be seeded in accordance with the surface owners' requirements.

Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the last well is plugged, then the rest of the pad and 1450.21' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Land use:

1450.21' x 30' road = 1.00 acre
+ 370' x 430' pad = 3.65 acres
4.65 acres short term
- 0.73 acre interim reclamation
3.92 acres long term (1.00 ac. road + 2.92 ac. pad)

11. SURFACE OWNER

The west 362.85' of road construction will be on NM State Land Office land (SESW 3-22s-32e). Their address is PO Box 1148, Santa Fe, NM 87504. Phone is 505 827-5760. Matador will file for a road right-of-way with the State.

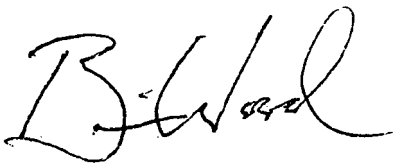
All remaining construction will be on fee land owned by the Jimmy Mills Trust, 1602 Ave. J., Abernathy TX 79311. Phone number is (806) 298-2752. The Trust has leased the land to Slash 46, Inc.; 16 Mills Ranch Road, Loving NM 88256. Their phone is (575) 390-2779. Matador has entered into negotiations.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf (BLM) on June 2, 2017. Lone Mountain filed archaeology report NMCRIS 139519 on December 13, 2017.

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 16th day of December, 2017.



Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop, Santa Fe, NM 87508
(505) 466-8120 FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:

Sam Pryor, Senior Staff Landman
Matador Production Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240
Phone: (972) 371-5241
FAX: (214) 866-4841

December 15, 2017

To Who it May Concern:

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Brian Wood

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment: