# PECOS DISTRICT
# DRILLING OPERATIONS
# CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | **Matador Production Company** |
| **LEASE NO.:** | **NMNM-136226** |
| **WELL NAME & NO.:** | **Leslie Fed Com 203H** |
| **SURFACE HOLE FOOTAGE:** | **0390' FSL & 0584' FEL** |
| **BOTTOM HOLE FOOTAGE** | **0240' FNL & 0990' FEL** |
| **LOCATION:** | **Section 17, T. 25 S., R 35 E., NMPM** |
| **COUNTY:** | **County, New Mexico** |

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

**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. **Hydrogen Sulfide**



**Approval Date: 02/26/2018**

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts 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.**

## A. 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 Water Basin:**
**After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.**

**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.**

**Possibility of water flows in the Castile and Salado formations**
**Possibility of lost circulation in the Rustler, Red Beds, and Delaware formations**
**Abnormal pressure may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.**

1. The **13-3/8** inch surface casing shall be set at approximately **1000** 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 1st intermediate casing is:

    ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

**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.**

3. The minimum required fill of cement behind the **7** inch 1st intermediate casing is:

☐ Cement as proposed by operator. 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 (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 through the curve and a minimum of one every other joint.**

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

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 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.

    a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

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 intermediate 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.)**

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

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

b. 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.

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

d. 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.**

e. 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.

f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

## C. DRILLING MUD

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

## D. DRILL STEM TEST

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

## E. 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 012518**

# PECOS DISTRICT
# SURFACE USE
# CONDITIONS OF APPROVAL

| | |
|---|---|
| OPERATOR'S NAME: | MATADOR PRODUCTION COMPANY |
| LEASE NO.: | NMNM136226 |
| WELL NAME & NO.: | 203H – LESLIE FEDERAL COM |
| SURFACE HOLE FOOTAGE: | 390'/S & 584'/E |
| BOTTOM HOLE FOOTAGE | 240'/N & 990'/E |
| LOCATION: | Section 17.,T25S., R.35E., NMP |
| 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.





**Approval Date: 02/26/2018**

## I. GENERAL PROVISIONS

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

## II. PERMIT EXPIRATION

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

## III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

## IV. NOXIOUS WEEDS

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

## V. SPECIAL REQUIREMENT(S)

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

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

### 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. Automatic shut off,

check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

# VI. CONSTRUCTION

## A. NOTIFICATION

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

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

## B. TOPSOIL

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

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

## C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

## D. FEDERAL MINERAL MATERIALS PIT

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

## E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

## F. EXCLOSURE FENCING (CELLARS & PITS)

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

## G. ON LEASE ACCESS ROADS

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

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

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

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

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

**Ditching**
Ditching shall be required on both sides of the road.

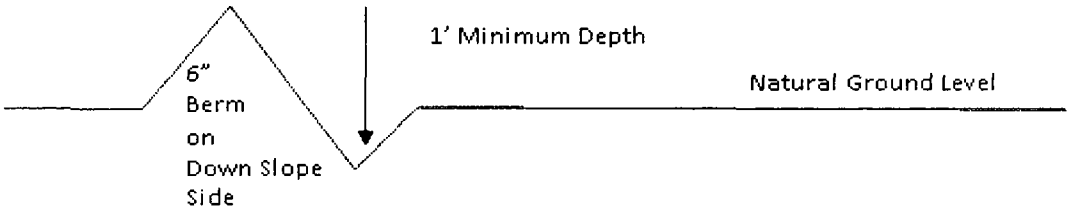
**Turnouts**
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

**Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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

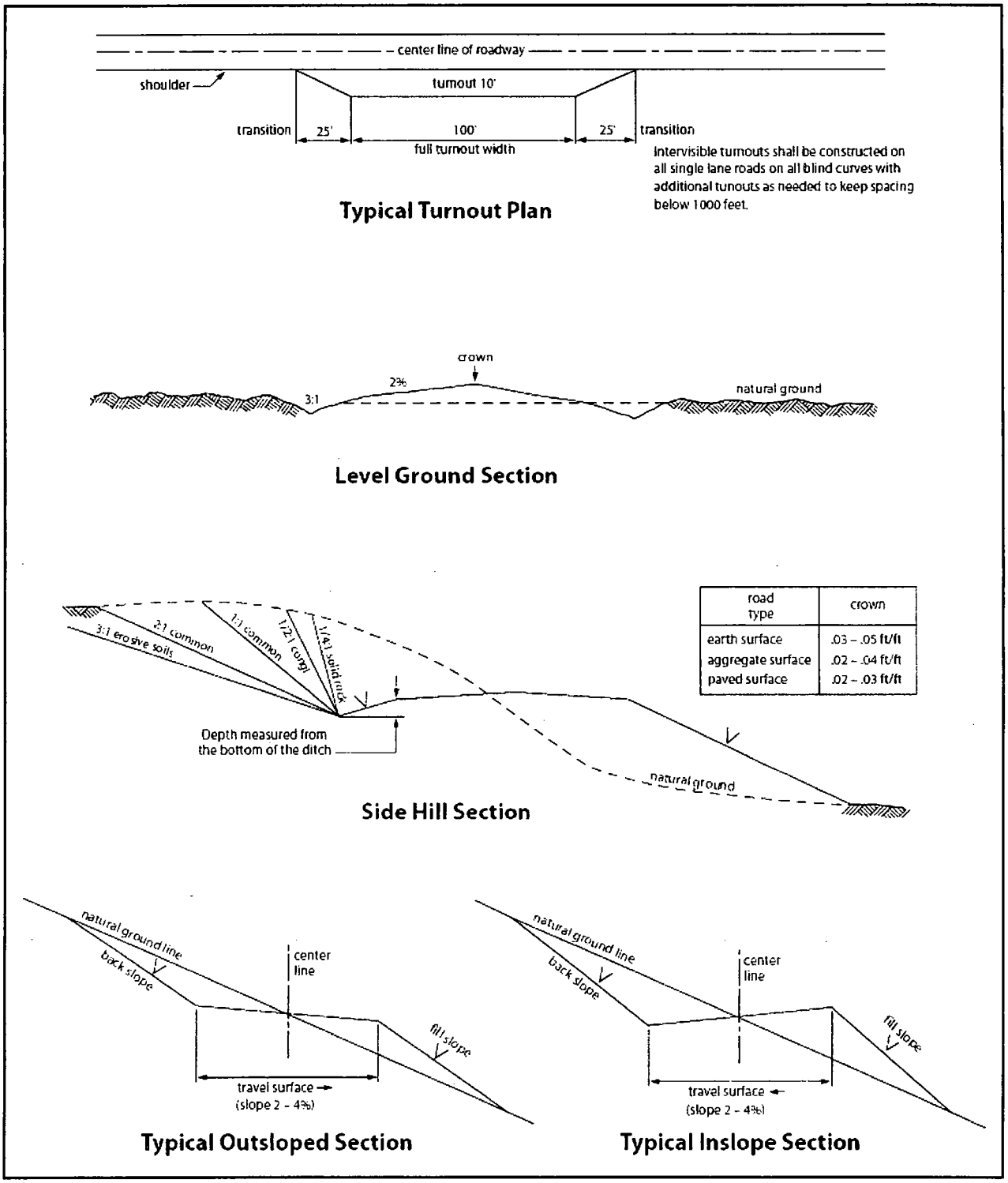



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

# 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.

**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).

## VIII. INTERIM RECLAMATION

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

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

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

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

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

## IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

| Species | lb/acre |
|---|---|
| Plains Bristlegrass | 5lbs/A |
| Sand Bluestem | 5lbs/A |
| Little Bluestem | 3lbs/A |
| Big Bluestem | 6lbs/A |
| Plains Coreopsis | 2lbs/A |
| Sand Dropseed | 1lbs/A |

*Pounds of pure live seed:

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



**Approval Date: 02/26/2018**

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, and 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 should be high enough to be visible.
- Windsock on the rig floor and / top of doghouse should 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.

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
Leslie Fed Com wells
Matador Production Company
Sec. 17, T25S, R35E 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 |
| Patrick Walsh | Drilling Engineer | 972-371-5291 | 626-318-5808 |
| Greg Deevers | Construction Superintendent | | 405-431-9527 |
| Jimmy Benefield | Construction Superintendent | | 318-548-6659 |
| **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. (Jal) | | 575-395-2221 | |
| 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 | |

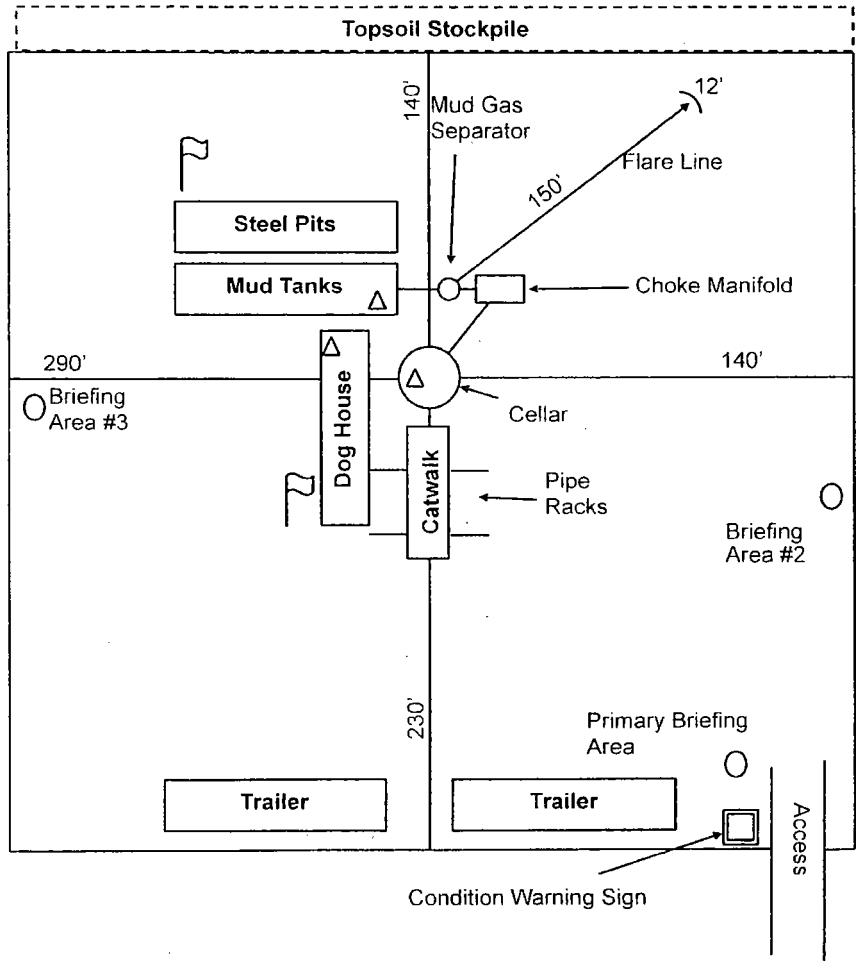
# H2S Rig Diagram

Leslie Fed Com 203H
SHL 390' FSL & 584' FEL
17-25S-35E Lea County, NM

Wind Direction Indicator

H2S Monitors

Briefing Areas




**North**

*Prevailing Winds Out of the South*

Matador Resources
Lea County, NM
Leslie Fed Com
203H
Prelim Plan B
GL:3254 +KB:29

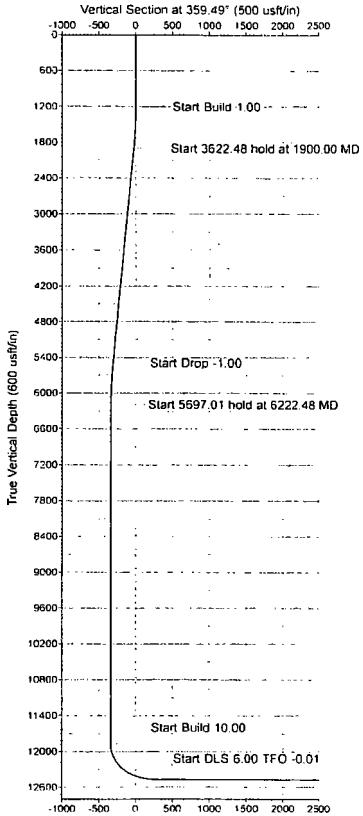
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

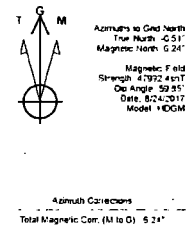
RKB Elevation: RIG @ 3283.00usft (GL:3254 +KB:29)

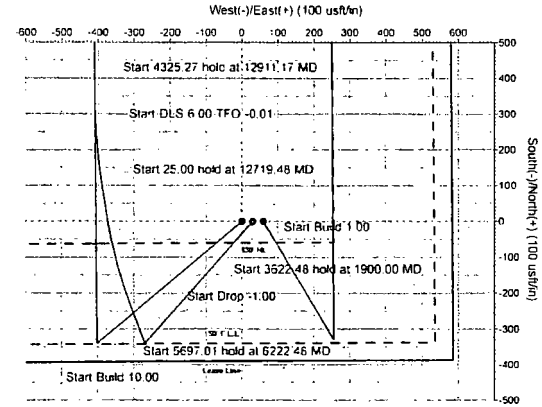
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 410157.00 | 794379.00 | 32.1240670 | -103.3824439 | |

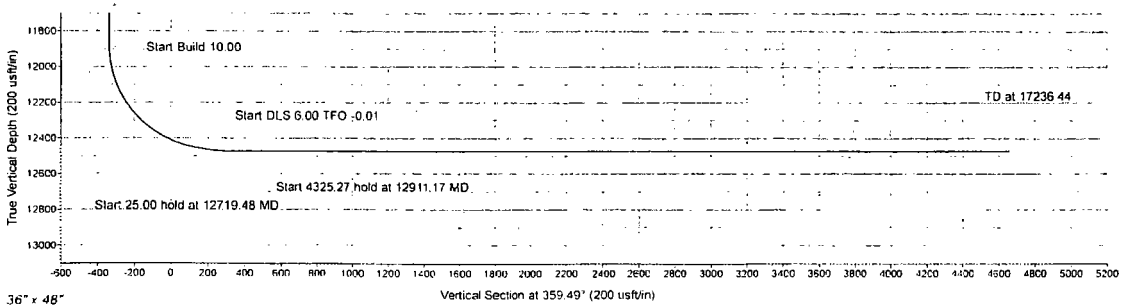
SECTION DETAILS- Lateral

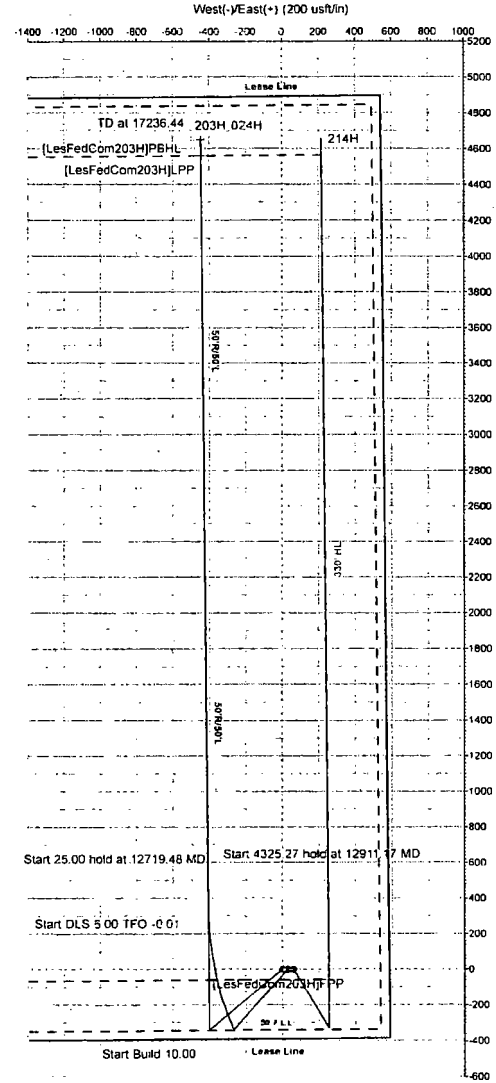
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | VSect |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 1200.00 | 0.00 | 0.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 1900.00 | 7.00 | 229.81 | 1898.26 | -27.56 | -32.63 | 1.00 | -27.27 |
| 4 | 5522.48 | 7.00 | 229.81 | 5493.73 | -312.44 | -369.87 | 0.00 | -309.14 |
| 5 | 6222.48 | 0.00 | 0.00 | 6191.99 | -340.00 | -402.50 | 1.00 | -336.40 |
| 6 | 11919.48 | 0.00 | 0.00 | 11889.00 | -340.00 | -402.50 | 0.00 | -336.40 |
| 7 | 12719.48 | 80.00 | 359.49 | 12453.25 | 133.45 | -406.71 | 10.00 | 137.06 |
| 8 | 12744.48 | 80.00 | 359.49 | 12457.59 | 158.07 | -406.93 | 0.00 | 161.68 |
| 9 | 12911.17 | 90.00 | 359.49 | 12472.10 | 323.90 | -408.41 | 6.00 | 327.53 |
| 10 | 17236.44 | 90.00 | 359.49 | 12472.00 | 4649.90 | -447.00 | 0.00 | 4652.79 |



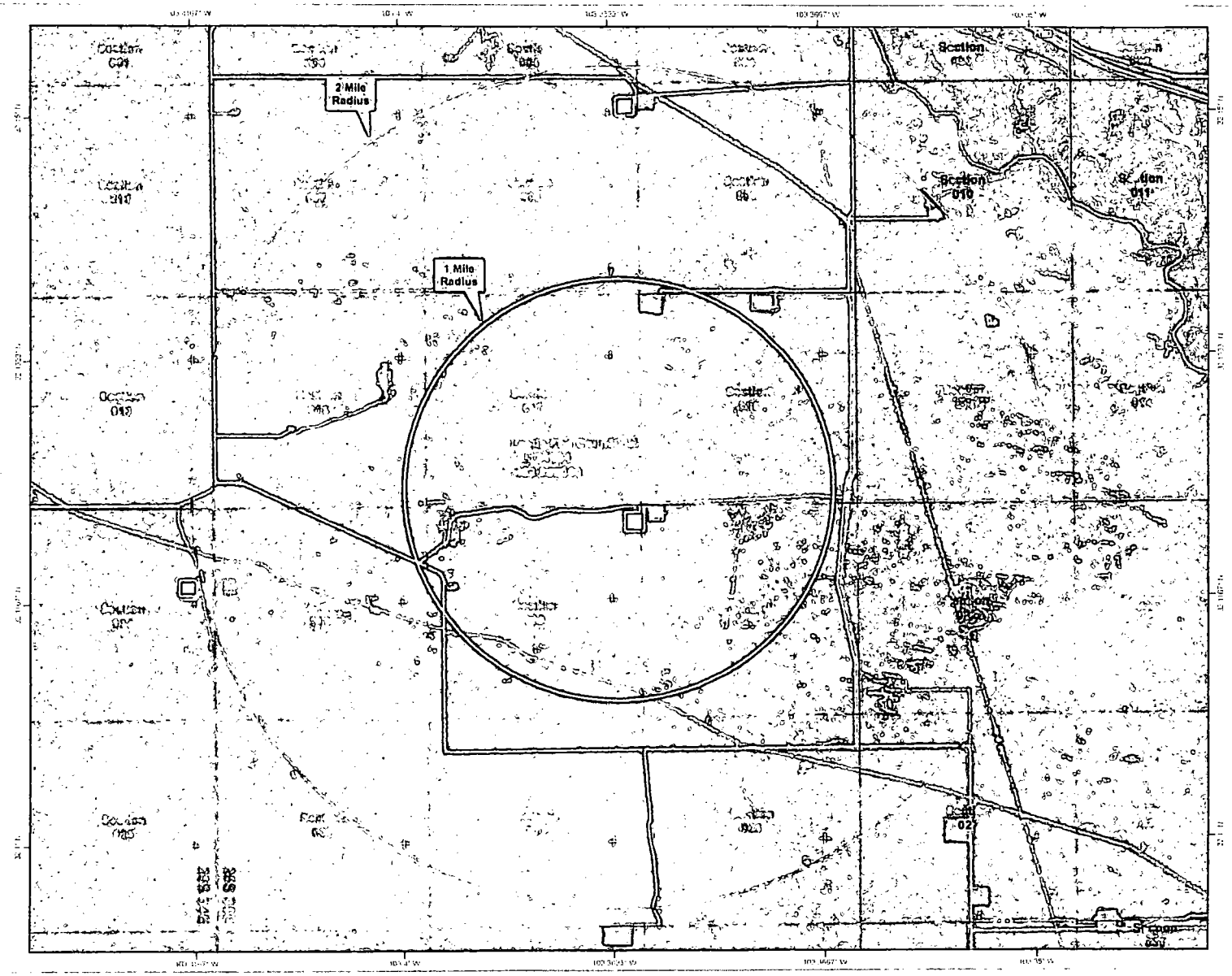




36" x 48"

# Matador Production Company

**Leslie Fed Com #203H**
**$H_2S$ Contingency Plan:**
**2 Mile Radius Map**

Section 17, Township 25S, Range 35E
Lea County, New Mexico




Surface Hole Location

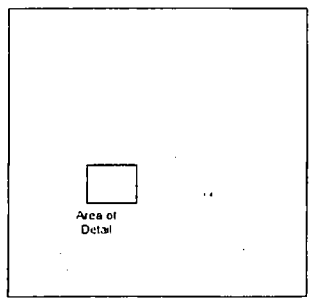
1:27,000
0 0.25 0.5 1
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., July 27, 2017
for Matador Production Company



# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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** | Leslie Fed Com | | | | |
| **Site Position:** | | **Northing:** | 410,039.00 usft | **Latitude:** | 32.1238270 |
| **From:** | Map | **Easting:** | 790,881.00 usft | **Longitude:** | -103.3937449 |
| **Position Uncertainty:** | 0.00 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.50 ° |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well** | 203H | | | | | |
| **Well Position** | **+N/-S** | 0.00 usft | **Northing:** | 410,157.00 usft | **Latitude:** | 32.1240670 |
| | **+E/-W** | 0.00 usft | **Easting:** | 794,379.00 usft | **Longitude:** | -103.3824439 |
| **Position Uncertainty** | | 0.00 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,254.00 usft |

| | | | | | |
|---|---|---|---|---|---|
| **Wellbore** | OH | | | | |
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | HDGM | 8/24/2017 | 6.75 | 59.85 | 47,992.40 |

| | | | | | |
|---|---|---|---|---|---|
| **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 | 359.49 | |

**Survey Tool Program** **Date** 8/24/2017

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 17,236.42 | 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 |
| 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 |

# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 1.00 | 229.81 | 1,299.99 | -0.56 | -0.67 | -0.56 | 1.00 | 1.00 | 0.00 |
| 1,400.00 | 2.00 | 229.81 | 1,399.96 | -2.25 | -2.67 | -2.23 | 1.00 | 1.00 | 0.00 |
| 1,500.00 | 3.00 | 229.81 | 1,499.86 | -5.07 | -6.00 | -5.01 | 1.00 | 1.00 | 0.00 |
| 1,600.00 | 4.00 | 229.81 | 1,599.68 | -9.01 | -10.66 | -8.91 | 1.00 | 1.00 | 0.00 |
| 1,700.00 | 5.00 | 229.81 | 1,699.37 | -14.07 | -16.66 | -13.92 | 1.00 | 1.00 | 0.00 |
| 1,800.00 | 6.00 | 229.81 | 1,798.90 | -20.25 | -23.98 | -20.04 | 1.00 | 1.00 | 0.00 |
| 1,900.00 | 7.00 | 229.81 | 1,898.26 | -27.56 | -32.63 | -27.27 | 1.00 | 1.00 | 0.00 |
| 2,000.00 | 7.00 | 229.81 | 1,997.51 | -35.42 | -41.94 | -35.05 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 7.00 | 229.81 | 2,096.77 | -43.29 | -51.25 | -42.83 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 7.00 | 229.81 | 2,196.02 | -51.15 | -60.56 | -50.61 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 7.00 | 229.81 | 2,295.28 | -59.02 | -69.86 | -58.39 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 7.00 | 229.81 | 2,394.53 | -66.88 | -79.17 | -66.17 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 7.00 | 229.81 | 2,493.79 | -74.74 | -88.48 | -73.95 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 7.00 | 229.81 | 2,593.04 | -82.61 | -97.79 | -81.74 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 7.00 | 229.81 | 2,692.30 | -90.47 | -107.10 | -89.52 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 7.00 | 229.81 | 2,791.55 | -98.34 | -116.41 | -97.30 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 7.00 | 229.81 | 2,890.81 | -106.20 | -125.72 | -105.08 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 7.00 | 229.81 | 2,990.06 | -114.07 | -135.03 | -112.86 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 7.00 | 229.81 | 3,089.32 | -121.93 | -144.34 | -120.64 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 7.00 | 229.81 | 3,188.57 | -129.79 | -153.65 | -128.42 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 7.00 | 229.81 | 3,287.82 | -137.66 | -162.96 | -136.20 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 7.00 | 229.81 | 3,387.08 | -145.52 | -172.27 | -143.98 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 7.00 | 229.81 | 3,486.33 | -153.39 | -181.58 | -151.77 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 7.00 | 229.81 | 3,585.59 | -161.25 | -190.89 | -159.55 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 7.00 | 229.81 | 3,684.84 | -169.12 | -200.20 | -167.33 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 7.00 | 229.81 | 3,784.10 | -176.98 | -209.51 | -175.11 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 7.00 | 229.81 | 3,883.35 | -184.84 | -218.82 | -182.89 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 7.00 | 229.81 | 3,982.61 | -192.71 | -228.13 | -190.67 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 7.00 | 229.81 | 4,081.86 | -200.57 | -237.44 | -198.45 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 7.00 | 229.81 | 4,181.12 | -208.44 | -246.75 | -206.23 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 7.00 | 229.81 | 4,280.37 | -216.30 | -256.06 | -214.01 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 7.00 | 229.81 | 4,379.63 | -224.17 | -265.37 | -221.80 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 7.00 | 229.81 | 4,478.88 | -232.03 | -274.68 | -229.58 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 7.00 | 229.81 | 4,578.13 | -239.89 | -283.99 | -237.36 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 7.00 | 229.81 | 4,677.39 | -247.76 | -293.30 | -245.14 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 7.00 | 229.81 | 4,776.64 | -255.62 | -302.61 | -252.92 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 7.00 | 229.81 | 4,875.90 | -263.49 | -311.92 | -260.70 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 7.00 | 229.81 | 4,975.15 | -271.35 | -321.23 | -268.48 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 7.00 | 229.81 | 5,074.41 | -279.22 | -330.54 | -276.26 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 7.00 | 229.81 | 5,173.66 | -287.08 | -339.85 | -284.04 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 7.00 | 229.81 | 5,272.92 | -294.94 | -349.16 | -291.83 | 0.00 | 0.00 | 0.00 |

# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 5,400.00 | 7.00 | 229.81 | 5,372.17 | -302.81 | -358.47 | -299.61 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 7.00 | 229.81 | 5,471.43 | -310.67 | -367.78 | -307.39 | 0.00 | 0.00 | 0.00 |
| 5,522.48 | 7.00 | 229.81 | 5,493.73 | -312.44 | -369.87 | -309.14 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 6.22 | 229.81 | 5,570.74 | -318.20 | -376.69 | -314.84 | 1.00 | -1.00 | 0.00 |
| 5,700.00 | 5.22 | 229.81 | 5,670.24 | -324.64 | -384.31 | -321.20 | 1.00 | -1.00 | 0.00 |
| 5,800.00 | 4.22 | 229.81 | 5,769.90 | -329.95 | -390.61 | -326.46 | 1.00 | -1.00 | 0.00 |
| 5,900.00 | 3.22 | 229.81 | 5,869.69 | -334.15 | -395.57 | -330.61 | 1.00 | -1.00 | 0.00 |
| 6,000.00 | 2.22 | 229.81 | 5,969.57 | -337.21 | -399.20 | -333.65 | 1.00 | -1.00 | 0.00 |
| 6,100.00 | 1.22 | 229.81 | 6,069.53 | -339.16 | -401.50 | -335.57 | 1.00 | -1.00 | 0.00 |
| 6,200.00 | 0.22 | 229.81 | 6,169.52 | -339.97 | -402.47 | -336.38 | 1.00 | -1.00 | 0.00 |
| 6,222.48 | 0.00 | 0.00 | 6,191.99 | -340.00 | -402.50 | -336.40 | 1.00 | -1.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,969.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,069.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,169.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,969.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,069.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,169.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 0.00 | 0.00 | 8,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 0.00 | 0.00 | 8,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 0.00 | 0.00 | 8,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 0.00 | 0.00 | 8,969.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 0.00 | 0.00 | 9,069.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 0.00 | 0.00 | 9,169.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 0.00 | 0.00 | 9,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 0.00 | 0.00 | 9,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |

# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 9,500.00 | 0.00 | 0.00 | 9,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 0.00 | 0.00 | 9,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 0.00 | 0.00 | 9,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 0.00 | 0.00 | 9,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 0.00 | 0.00 | 9,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 0.00 | 0.00 | 9,969.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 0.00 | 0.00 | 10,069.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 0.00 | 0.00 | 10,169.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 0.00 | 0.00 | 10,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 0.00 | 0.00 | 10,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 0.00 | 0.00 | 10,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 0.00 | 0.00 | 10,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 0.00 | 0.00 | 10,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 0.00 | 0.00 | 10,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 0.00 | 0.00 | 10,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 0.00 | 0.00 | 10,969.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 0.00 | 0.00 | 11,069.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 0.00 | 0.00 | 11,169.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 0.00 | 0.00 | 11,269.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 0.00 | 0.00 | 11,369.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 0.00 | 0.00 | 11,469.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 0.00 | 0.00 | 11,569.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 0.00 | 0.00 | 11,669.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 0.00 | 0.00 | 11,769.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 0.00 | 0.00 | 11,869.52 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,919.48 | 0.00 | 0.00 | 11,889.00 | -340.00 | -402.50 | -336.40 | 0.00 | 0.00 | 0.00 |
| 11,950.00 | 3.05 | 359.49 | 11,919.50 | -339.19 | -402.51 | -335.59 | 10.00 | 10.00 | 0.00 |
| 12,000.00 | 8.05 | 359.49 | 11,969.25 | -334.35 | -402.55 | -330.76 | 10.00 | 10.00 | 0.00 |
| 12,050.00 | 13.05 | 359.49 | 12,018.39 | -325.20 | -402.63 | -321.60 | 10.00 | 10.00 | 0.00 |
| 12,100.00 | 18.05 | 359.49 | 12,066.55 | -311.80 | -402.75 | -308.20 | 10.00 | 10.00 | 0.00 |
| 12,150.00 | 23.05 | 359.49 | 12,113.35 | -294.25 | -402.91 | -290.65 | 10.00 | 10.00 | 0.00 |
| 12,200.00 | 28.05 | 359.49 | 12,158.45 | -272.69 | -403.10 | -269.09 | 10.00 | 10.00 | 0.00 |
| 12,250.00 | 33.05 | 359.49 | 12,201.49 | -247.29 | -403.33 | -243.69 | 10.00 | 10.00 | 0.00 |
| 12,300.00 | 38.05 | 359.49 | 12,242.16 | -218.22 | -403.58 | -214.62 | 10.00 | 10.00 | 0.00 |
| 12,350.00 | 43.05 | 359.49 | 12,280.14 | -185.73 | -403.87 | -182.13 | 10.00 | 10.00 | 0.00 |
| 12,400.00 | 48.05 | 359.49 | 12,315.14 | -150.05 | -404.19 | -146.44 | 10.00 | 10.00 | 0.00 |
| 12,450.00 | 53.05 | 359.49 | 12,346.90 | -111.45 | -404.53 | -107.85 | 10.00 | 10.00 | 0.00 |
| 12,500.00 | 58.05 | 359.49 | 12,375.17 | -70.23 | -404.90 | -66.63 | 10.00 | 10.00 | 0.00 |
| 12,550.00 | 63.05 | 359.49 | 12,399.74 | -26.71 | -405.29 | -23.10 | 10.00 | 10.00 | 0.00 |
| 12,600.00 | 68.05 | 359.49 | 12,420.43 | 18.79 | -405.69 | 22.40 | 10.00 | 10.00 | 0.00 |
| 12,650.00 | 73.05 | 359.49 | 12,437.07 | 65.92 | -406.11 | 69.53 | 10.00 | 10.00 | 0.00 |
| 12,700.00 | 78.05 | 359.49 | 12,449.55 | 114.32 | -406.54 | 117.94 | 10.00 | 10.00 | 0.00 |
| 12,719.48 | 80.00 | 359.49 | 12,453.25 | 133.45 | -406.71 | 137.06 | 10.00 | 10.00 | 0.00 |

# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 12,744.48 | 80.00 | 359.49 | 12,457.59 | 158.07 | -406.93 | 161.68 | 0.00 | 0.00 | 0.00 |
| 12,750.00 | 80.33 | 359.49 | 12,458.54 | 163.50 | -406.98 | 167.12 | 6.00 | 6.00 | 0.00 |
| 12,800.00 | 83.33 | 359.49 | 12,465.64 | 212.99 | -407.42 | 216.61 | 6.00 | 6.00 | 0.00 |
| 12,850.00 | 86.33 | 359.49 | 12,470.15 | 262.78 | -407.87 | 266.40 | 6.00 | 6.00 | 0.00 |
| 12,900.00 | 89.33 | 359.49 | 12,472.04 | 312.73 | -408.31 | 316.35 | 6.00 | 6.00 | 0.00 |
| 12,911.17 | 90.00 | 359.49 | 12,472.10 | 323.90 | -408.41 | 327.53 | 6.00 | 6.00 | 0.00 |
| 13,000.00 | 90.00 | 359.49 | 12,472.10 | 412.73 | -409.20 | 416.35 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 359.49 | 12,472.10 | 512.72 | -410.10 | 516.35 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 359.49 | 12,472.10 | 612.72 | -410.99 | 616.35 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 359.49 | 12,472.09 | 712.72 | -411.88 | 716.35 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 359.49 | 12,472.09 | 812.71 | -412.77 | 816.35 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 359.49 | 12,472.09 | 912.71 | -413.66 | 916.35 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 359.49 | 12,472.09 | 1,012.70 | -414.56 | 1,016.35 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 359.49 | 12,472.08 | 1,112.70 | -415.45 | 1,116.35 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 359.49 | 12,472.08 | 1,212.70 | -416.34 | 1,216.35 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 359.49 | 12,472.08 | 1,312.69 | -417.23 | 1,316.35 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 359.49 | 12,472.08 | 1,412.69 | -418.13 | 1,416.35 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 359.49 | 12,472.07 | 1,512.68 | -419.02 | 1,516.35 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 359.49 | 12,472.07 | 1,612.68 | -419.91 | 1,616.35 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 359.49 | 12,472.07 | 1,712.68 | -420.80 | 1,716.35 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 359.49 | 12,472.07 | 1,812.67 | -421.69 | 1,816.35 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 359.49 | 12,472.06 | 1,912.67 | -422.59 | 1,916.35 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 359.49 | 12,472.06 | 2,012.66 | -423.48 | 2,016.35 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 359.49 | 12,472.06 | 2,112.66 | -424.37 | 2,116.35 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 359.49 | 12,472.06 | 2,212.66 | -425.26 | 2,216.35 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 359.49 | 12,472.06 | 2,312.65 | -426.16 | 2,316.35 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 359.49 | 12,472.05 | 2,412.65 | -427.05 | 2,416.35 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 359.49 | 12,472.05 | 2,512.65 | -427.94 | 2,516.35 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 359.49 | 12,472.05 | 2,612.64 | -428.83 | 2,616.35 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 359.49 | 12,472.05 | 2,712.64 | -429.72 | 2,716.35 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 359.49 | 12,472.04 | 2,812.63 | -430.62 | 2,816.35 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 359.49 | 12,472.04 | 2,912.63 | -431.51 | 2,916.35 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 359.49 | 12,472.04 | 3,012.63 | -432.40 | 3,016.35 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 359.49 | 12,472.04 | 3,112.62 | -433.29 | 3,116.35 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 359.49 | 12,472.03 | 3,212.62 | -434.18 | 3,216.35 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 359.49 | 12,472.03 | 3,312.61 | -435.08 | 3,316.35 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 359.49 | 12,472.03 | 3,412.61 | -435.97 | 3,416.35 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 359.49 | 12,472.03 | 3,512.61 | -436.86 | 3,516.35 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 359.49 | 12,472.02 | 3,612.60 | -437.75 | 3,616.35 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 359.49 | 12,472.02 | 3,712.60 | -438.65 | 3,716.35 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 359.49 | 12,472.02 | 3,812.59 | -439.54 | 3,816.35 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 359.49 | 12,472.02 | 3,912.59 | -440.43 | 3,916.35 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 359.49 | 12,472.02 | 4,012.59 | -441.32 | 4,016.35 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 359.49 | 12,472.01 | 4,112.58 | -442.21 | 4,116.35 | 0.00 | 0.00 | 0.00 |

# Pro Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Well:** | 203H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 16,800.00 | 90.00 | 359.49 | 12,472.01 | 4,212.58 | -443.11 | 4,216.35 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.00 | 359.49 | 12,472.01 | 4,312.57 | -444.00 | 4,316.35 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 90.00 | 359.49 | 12,472.01 | 4,412.57 | -444.89 | 4,416.35 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 90.00 | 359.49 | 12,472.00 | 4,512.57 | -445.78 | 4,516.35 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 90.00 | 359.49 | 12,472.00 | 4,612.56 | -446.67 | 4,616.35 | 0.00 | 0.00 | 0.00 |
| 17,236.44 | 90.00 | 359.49 | 12,472.00 | 4,649.00 | -447.00 | 4,652.79 | 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 |
|---|---|---|---|---|---|---|---|---|---|
| [LesFedCom203H]LPP | 0.00 | 0.01 | 0.00 | 4,559.00 | -446.00 | 414,716.00 | 793,933.00 | 32.1366090 | -103.3837545 |
| - plan misses target center by 4580.76usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| [LesFedCom203H]FPP | 0.00 | 0.00 | 0.00 | -62.00 | -405.00 | 410,095.00 | 793,974.00 | 32.1239064 | -103.3837537 |
| - plan misses target center by 409.72usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| [LesFedCom203H]PBHL | 0.00 | 0.00 | 12,472.00 | 4,649.00 | -447.00 | 414,806.00 | 793,932.00 | 32.1368564 | -103.3837552 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 1200 | 1200 | 0 | 0 | Start Build 1.00 |
| 1900 | 1898 | -28 | -33 | Start 3622.48 hold at 1900.00 MD |
| 5522 | 5494 | -312 | -370 | Start Drop -1.00 |
| 6222 | 6192 | -340 | -403 | Start 5697.01 hold at 6222.48 MD |
| 11,919 | 11,889 | -340 | -403 | Start Build 10.00 |
| 12,719 | 12,453 | 133 | -407 | Start 25.00 hold at 12719.48 MD |
| 12,744 | 12,458 | 158 | -407 | Start DLS 6.00 TFO -0.01 |
| 12,911 | 12,472 | 324 | -408 | Start 4325.27 hold at 12911.17 MD |
| 17,236 | 12,472 | 4649 | -447 | TD at 17236.44 |

Checked By: _____ Approved By: _____ Date: _____

# Pro Directional

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** 8/24/2017

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 17,236.42 | 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 |
|---|---|---|---|---|---|---|
| Leslie Fed Com | | | | | | |
| 021H - OH - Prelim Plan A | 702.48 | 759.48 | 3,529.97 | 3,525.19 | 738.753 | CC |
| 021H - OH - Prelim Plan A | 800.00 | 830.05 | 3,530.19 | 3,524.81 | 656.474 | ES |
| 021H - OH - Prelim Plan A | 17,236.44 | 13,949.18 | 5,188.93 | 5,045.63 | 36.211 | SF |
| 024H - OH - Prelim Plan B | 1,200.00 | 1,200.00 | 30.00 | 21.86 | 3.685 | CC |
| 024H - OH - Prelim Plan B | 1,300.00 | 1,300.01 | 30.67 | 21.83 | 3.468 | ES |
| 024H - OH - Prelim Plan B | 8,730.11 | 8,725.38 | 123.99 | 62.84 | 2.028 | SF |
| 201H - OH - Prelim Plan A | 702.48 | 759.48 | 3,499.99 | 3,495.21 | 732.478 | CC |
| 201H - OH - Prelim Plan A | 800.00 | 830.23 | 3,500.21 | 3,494.83 | 650.830 | ES |
| 201H - OH - Prelim Plan A | 17,236.44 | 17,235.97 | 3,840.27 | 3,675.41 | 23.295 | SF |
| 202H - OH - Prelim Plan A | 505.56 | 530.56 | 1,533.20 | 1,529.95 | 471.502 | CC |
| 202H - OH - Prelim Plan A | 600.00 | 617.92 | 1,533.26 | 1,529.36 | 392.978 | ES |
| 202H - OH - Prelim Plan A | 17,236.44 | 17,234.34 | 2,040.20 | 1,875.32 | 12.374 | SF |
| 214H - Prelim Plan A - Prelim Plan A | 1,200.00 | 1,200.00 | 60.00 | 51.86 | 7.370 | CC |
| 214H - Prelim Plan A - Prelim Plan A | 1,300.00 | 1,300.01 | 60.67 | 51.83 | 6.861 | ES |
| 214H - Prelim Plan A - Prelim Plan A | 17,236.44 | 17,295.94 | 664.61 | 501.29 | 4.069 | SF |
| 215H - OH - Prelim Plan B | 5,959.86 | 5,885.22 | 3,082.54 | 3,041.56 | 75.225 | CC, ES |
| 215H - OH - Prelim Plan B | 17,236.44 | 17,305.59 | 3,302.53 | 3,137.71 | 20.038 | SF |
| 217H - OH - Prelim Plan A | 6,221.93 | 6,217.13 | 1,123.45 | 1,081.32 | 26.663 | CC |
| 217H - OH - Prelim Plan A | 17,236.44 | 17,280.41 | 1,141.94 | 977.51 | 6.945 | ES, SF |

**Offset Design** Leslie Fed Com - 021H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 | 57.00 | 57.00 | 0.00 | 0.07 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | | | | |
| 100.00 | 100.00 | 157.00 | 157.00 | 0.13 | 0.33 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,529.51 | 0.46 | 7,693.189 | |
| 200.00 | 200.00 | 257.00 | 257.00 | 0.49 | 0.69 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,528.80 | 1.18 | 3,002.221 | |
| 300.00 | 300.00 | 357.00 | 357.00 | 0.84 | 1.05 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,528.08 | 1.89 | 1,865.017 | |
| 400.00 | 400.00 | 457.00 | 457.00 | 1.20 | 1.41 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,527.36 | 2.61 | 1,352.649 | |
| 500.00 | 500.00 | 557.00 | 557.00 | 1.56 | 1.77 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,526.65 | 3.33 | 1,061.130 | |
| 600.00 | 600.00 | 657.00 | 657.00 | 1.92 | 2.12 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,525.93 | 4.04 | 872.987 | |
| 700.00 | 700.00 | 757.00 | 757.00 | 2.28 | 2.48 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,525.21 | 4.76 | 741.513 | |
| 702.48 | 702.48 | 759.48 | 759.48 | 2.29 | 2.49 | -91.92 | -118.00 | -3,528.00 | 3,529.97 | 3,525.19 | 4.78 | 738.753 | CC |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 021H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 800.00 | 800.00 | 830.05 | 830.05 | 2.64 | 2.74 | -91.92 | -118.03 | -3,528.11 | 3,530.19 | 3,524.81 | 5.38 | 656.474 ES | |
| 900.00 | 900.00 | 900.00 | 899.99 | 3.00 | 2.98 | -91.92 | -118.36 | -3,529.26 | 3,531.70 | 3,525.72 | 5.98 | 590.729 | |
| 1,000.00 | 1,000.00 | 935.44 | 935.41 | 3.35 | 3.11 | -91.93 | -118.66 | -3,530.31 | 3,534.39 | 3,527.94 | 6.46 | 547.460 | |
| 1,100.00 | 1,100.00 | 1,000.00 | 999.91 | 3.71 | 3.33 | -91.94 | -119.43 | -3,533.03 | 3,538.54 | 3,531.51 | 7.03 | 503.225 | |
| 1,200.00 | 1,200.00 | 1,040.62 | 1,040.46 | 4.07 | 3.47 | -91.95 | -120.08 | -3,535.29 | 3,543.95 | 3,536.42 | 7.53 | 470.936 | |
| 1,300.00 | 1,299.99 | 1,100.00 | 1,099.69 | 4.41 | 3.67 | 38.19 | -121.23 | -3,539.32 | 3,550.05 | 3,541.98 | 8.07 | 440.032 | |
| 1,400.00 | 1,399.96 | 1,145.57 | 1,145.10 | 4.75 | 3.84 | 38.15 | -122.28 | -3,543.02 | 3,556.09 | 3,547.54 | 8.55 | 415.942 | |
| 1,500.00 | 1,499.86 | 1,200.00 | 1,199.27 | 5.08 | 4.03 | 38.12 | -123.74 | -3,548.12 | 3,562.11 | 3,553.04 | 9.07 | 392.949 | |
| 1,600.00 | 1,599.68 | 1,250.36 | 1,249.32 | 5.43 | 4.21 | 38.09 | -125.27 | -3,553.50 | 3,568.08 | 3,558.51 | 9.57 | 372.869 | |
| 1,700.00 | 1,699.37 | 1,335.39 | 1,333.72 | 5.77 | 4.53 | 38.09 | -128.10 | -3,563.44 | 3,573.69 | 3,563.48 | 10.21 | 350.071 | |
| 1,800.00 | 1,798.90 | 1,435.25 | 1,432.84 | 6.12 | 4.90 | 38.11 | -131.44 | -3,575.14 | 3,578.00 | 3,567.10 | 10.91 | 328.086 | |
| 1,900.00 | 1,898.26 | 1,535.13 | 1,531.96 | 6.48 | 5.26 | 38.15 | -134.77 | -3,586.84 | 3,580.94 | 3,569.33 | 11.61 | 308.377 | |
| 2,000.00 | 1,997.51 | 1,634.99 | 1,631.09 | 6.84 | 5.67 | 38.23 | -138.11 | -3,598.55 | 3,583.20 | 3,570.88 | 12.32 | 290.745 | |
| 2,100.00 | 2,096.77 | 1,734.86 | 1,730.21 | 7.20 | 6.05 | 38.30 | -141.45 | -3,610.25 | 3,585.47 | 3,572.43 | 13.04 | 274.940 | |
| 2,200.00 | 2,196.02 | 1,834.73 | 1,829.34 | 7.57 | 6.44 | 38.37 | -144.78 | -3,621.96 | 3,587.74 | 3,573.98 | 13.76 | 260.710 | |
| 2,300.00 | 2,295.28 | 1,934.60 | 1,928.46 | 7.94 | 6.83 | 38.45 | -148.12 | -3,633.66 | 3,590.02 | 3,575.53 | 14.49 | 247.838 | |
| 2,400.00 | 2,394.53 | 2,034.47 | 2,027.59 | 8.32 | 7.23 | 38.52 | -151.45 | -3,645.37 | 3,592.30 | 3,577.09 | 15.21 | 236.147 | |
| 2,500.00 | 2,493.79 | 2,134.34 | 2,126.71 | 8.69 | 7.62 | 38.59 | -154.79 | -3,657.07 | 3,594.59 | 3,578.65 | 15.94 | 225.487 | |
| 2,600.00 | 2,593.04 | 2,234.21 | 2,225.83 | 9.07 | 8.02 | 38.67 | -158.13 | -3,668.78 | 3,596.88 | 3,580.21 | 16.67 | 215.732 | |
| 2,700.00 | 2,692.30 | 2,334.07 | 2,324.96 | 9.45 | 8.42 | 38.74 | -161.46 | -3,680.48 | 3,599.19 | 3,581.78 | 17.41 | 206.773 | |
| 2,800.00 | 2,791.55 | 2,433.94 | 2,424.08 | 9.83 | 8.82 | 38.81 | -164.80 | -3,692.19 | 3,601.49 | 3,583.35 | 18.14 | 198.520 | |
| 2,900.00 | 2,890.81 | 2,533.81 | 2,523.21 | 10.21 | 9.22 | 38.88 | -168.14 | -3,703.89 | 3,603.80 | 3,584.93 | 18.88 | 190.895 | |
| 3,000.00 | 2,990.06 | 2,633.68 | 2,622.33 | 10.60 | 9.62 | 38.96 | -171.47 | -3,715.60 | 3,606.12 | 3,586.51 | 19.62 | 183.829 | |
| 3,100.00 | 3,089.32 | 2,733.55 | 2,721.45 | 10.98 | 10.02 | 39.03 | -174.81 | -3,727.30 | 3,608.45 | 3,588.09 | 20.36 | 177.266 | |
| 3,200.00 | 3,188.57 | 2,833.42 | 2,820.58 | 11.37 | 10.42 | 39.10 | -178.14 | -3,739.01 | 3,610.78 | 3,589.68 | 21.10 | 171.153 | |
| 3,300.00 | 3,287.82 | 2,933.29 | 2,919.70 | 11.75 | 10.83 | 39.17 | -181.48 | -3,750.71 | 3,613.11 | 3,591.27 | 21.84 | 165.447 | |
| 3,400.00 | 3,387.08 | 3,033.15 | 3,018.83 | 12.14 | 11.23 | 39.25 | -184.82 | -3,762.42 | 3,615.45 | 3,592.87 | 22.58 | 160.110 | |
| 3,500.00 | 3,486.33 | 3,133.02 | 3,117.95 | 12.53 | 11.63 | 39.32 | -188.15 | -3,774.12 | 3,617.80 | 3,594.48 | 23.32 | 155.107 | |
| 3,600.00 | 3,585.59 | 3,232.89 | 3,217.08 | 12.91 | 12.04 | 39.39 | -191.49 | -3,785.83 | 3,620.15 | 3,596.08 | 24.07 | 150.408 | |
| 3,700.00 | 3,684.84 | 3,332.76 | 3,316.20 | 13.30 | 12.44 | 39.46 | -194.83 | -3,797.53 | 3,622.51 | 3,597.70 | 24.81 | 145.986 | |
| 3,800.00 | 3,784.10 | 3,432.63 | 3,415.32 | 13.69 | 12.84 | 39.53 | -198.16 | -3,809.23 | 3,624.88 | 3,599.32 | 25.56 | 141.819 | |
| 3,900.00 | 3,883.35 | 3,532.50 | 3,514.45 | 14.08 | 13.25 | 39.61 | -201.50 | -3,820.94 | 3,627.25 | 3,600.94 | 26.31 | 137.885 | |
| 4,000.00 | 3,982.61 | 3,632.37 | 3,613.57 | 14.47 | 13.65 | 39.68 | -204.83 | -3,832.64 | 3,629.62 | 3,602.57 | 27.05 | 134.165 | |
| 4,100.00 | 4,081.86 | 3,732.24 | 3,712.70 | 14.86 | 14.06 | 39.75 | -208.17 | -3,844.35 | 3,632.00 | 3,604.20 | 27.80 | 130.643 | |
| 4,200.00 | 4,181.12 | 3,832.10 | 3,811.82 | 15.25 | 14.47 | 39.82 | -211.51 | -3,856.05 | 3,634.39 | 3,605.84 | 28.55 | 127.303 | |
| 4,300.00 | 4,280.37 | 3,931.97 | 3,910.95 | 15.65 | 14.87 | 39.89 | -214.84 | -3,867.76 | 3,636.78 | 3,607.48 | 29.30 | 124.131 | |
| 4,400.00 | 4,379.63 | 4,031.84 | 4,010.07 | 16.04 | 15.28 | 39.96 | -218.18 | -3,879.46 | 3,639.18 | 3,609.13 | 30.05 | 121.116 | |
| 4,500.00 | 4,478.88 | 4,131.71 | 4,109.19 | 16.43 | 15.68 | 40.03 | -221.52 | -3,891.17 | 3,641.58 | 3,610.79 | 30.80 | 118.246 | |
| 4,600.00 | 4,578.13 | 4,231.58 | 4,208.32 | 16.82 | 16.09 | 40.11 | -224.85 | -3,902.87 | 3,643.99 | 3,612.45 | 31.55 | 115.511 | |
| 4,700.00 | 4,677.39 | 4,331.45 | 4,307.44 | 17.21 | 16.50 | 40.18 | -228.19 | -3,914.58 | 3,646.41 | 3,614.11 | 32.30 | 112.901 | |
| 4,800.00 | 4,776.64 | 4,431.32 | 4,406.57 | 17.61 | 16.90 | 40.25 | -231.52 | -3,926.28 | 3,648.83 | 3,615.78 | 33.05 | 110.409 | |
| 4,900.00 | 4,875.90 | 4,531.18 | 4,505.69 | 18.00 | 17.31 | 40.32 | -234.86 | -3,937.99 | 3,651.26 | 3,617.46 | 33.80 | 108.027 | |
| 5,000.00 | 4,975.15 | 4,631.05 | 4,604.82 | 18.39 | 17.72 | 40.39 | -238.20 | -3,949.69 | 3,653.69 | 3,619.14 | 34.55 | 105.747 | |
| 5,100.00 | 5,074.41 | 4,730.92 | 4,703.94 | 18.79 | 18.12 | 40.46 | -241.53 | -3,961.40 | 3,656.12 | 3,620.82 | 35.30 | 103.564 | |
| 5,200.00 | 5,173.66 | 4,830.79 | 4,803.06 | 19.18 | 18.53 | 40.53 | -244.87 | -3,973.10 | 3,658.57 | 3,622.51 | 36.06 | 101.471 | |
| 5,300.00 | 5,272.92 | 4,930.66 | 4,902.19 | 19.57 | 18.94 | 40.60 | -248.21 | -3,984.81 | 3,661.02 | 3,624.21 | 36.81 | 99.462 | |
| 5,400.00 | 5,372.17 | 5,030.53 | 5,001.31 | 19.97 | 19.34 | 40.67 | -251.54 | -3,996.51 | 3,663.47 | 3,625.91 | 37.56 | 97.534 | |
| 5,500.00 | 5,471.43 | 5,130.40 | 5,100.44 | 20.36 | 19.75 | 40.74 | -254.88 | -4,008.22 | 3,665.93 | 3,627.62 | 38.31 | 95.680 | |
| 5,522.48 | 5,493.73 | 5,152.84 | 5,122.72 | 20.45 | 19.84 | 40.76 | -255.63 | -4,010.95 | 3,666.48 | 3,628.00 | 38.48 | 95.274 | |
| 5,600.00 | 5,570.74 | 5,230.27 | 5,199.56 | 20.75 | 20.16 | 40.82 | -258.21 | -4,019.92 | 3,668.79 | 3,629.73 | 39.07 | 93.912 | |
| 5,700.00 | 5,670.24 | 5,330.13 | 5,298.69 | 21.14 | 20.56 | 40.90 | -261.55 | -4,031.62 | 3,672.94 | 3,633.13 | 39.81 | 92.254 | |
| 5,800.00 | 5,769.90 | 5,429.97 | 5,397.77 | 21.51 | 20.97 | 40.96 | -264.89 | -4,043.33 | 3,678.41 | 3,637.86 | 40.55 | 90.703 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 021H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,900.00 | 5,869.69 | 5,529.73 | 5,496.79 | 21.88 | 21.38 | 41.02 | -268.22 | -4,055.02 | 3,685.20 | 3,643.91 | 41.29 | 89.252 | |
| 6,000.00 | 5,969.57 | 5,629.40 | 5,595.72 | 22.24 | 21.79 | 41.06 | -271.55 | -4,066.70 | 3,693.30 | 3,651.28 | 42.02 | 87.895 | |
| 6,100.00 | 6,069.53 | 5,728.94 | 5,694.52 | 22.59 | 22.19 | 41.10 | -274.87 | -4,078.37 | 3,702.72 | 3,659.97 | 42.74 | 86.629 | |
| 6,200.00 | 6,169.52 | 5,828.33 | 5,793.17 | 22.94 | 22.60 | 41.13 | -278.19 | -4,090.01 | 3,713.44 | 3,669.98 | 43.46 | 85.447 | |
| 6,222.48 | 6,191.99 | 5,850.64 | 5,815.31 | 23.01 | 22.69 | -89.05 | -278.94 | -4,092.63 | 3,716.03 | 3,672.41 | 43.62 | 85.197 | |
| 6,300.00 | 6,269.52 | 5,927.59 | 5,891.69 | 23.26 | 23.00 | -89.09 | -281.51 | -4,101.65 | 3,725.08 | 3,680.92 | 44.15 | 84.369 | |
| 6,400.00 | 6,369.52 | 6,026.84 | 5,990.20 | 23.58 | 23.41 | -89.15 | -284.83 | -4,113.28 | 3,736.75 | 3,691.91 | 44.84 | 83.327 | |
| 6,500.00 | 6,469.52 | 6,126.10 | 6,088.72 | 23.90 | 23.81 | -89.20 | -288.14 | -4,124.91 | 3,748.43 | 3,702.89 | 45.54 | 82.316 | |
| 6,600.00 | 6,569.52 | 6,225.35 | 6,187.23 | 24.22 | 24.22 | -89.26 | -291.46 | -4,136.55 | 3,760.11 | 3,713.88 | 46.23 | 81.334 | |
| 6,700.00 | 6,669.52 | 6,324.61 | 6,285.75 | 24.54 | 24.62 | -89.31 | -294.77 | -4,148.18 | 3,771.79 | 3,724.87 | 46.93 | 80.379 | |
| 6,800.00 | 6,769.52 | 6,423.86 | 6,384.26 | 24.87 | 25.03 | -89.36 | -298.09 | -4,159.81 | 3,783.48 | 3,735.86 | 47.62 | 79.450 | |
| 6,900.00 | 6,869.52 | 6,523.12 | 6,482.78 | 25.19 | 25.43 | -89.41 | -301.40 | -4,171.44 | 3,795.17 | 3,746.86 | 48.32 | 78.547 | |
| 7,000.00 | 6,969.52 | 6,622.37 | 6,581.29 | 25.52 | 25.84 | -89.47 | -304.72 | -4,183.08 | 3,806.87 | 3,757.85 | 49.01 | 77.669 | |
| 7,100.00 | 7,069.52 | 6,721.63 | 6,679.80 | 25.85 | 26.25 | -89.52 | -308.04 | -4,194.71 | 3,818.56 | 3,768.85 | 49.71 | 76.814 | |
| 7,200.00 | 7,169.52 | 6,820.88 | 6,778.32 | 26.18 | 26.65 | -89.57 | -311.35 | -4,206.34 | 3,830.26 | 3,779.85 | 50.41 | 75.981 | |
| 7,300.00 | 7,269.52 | 6,920.13 | 6,876.83 | 26.50 | 27.06 | -89.62 | -314.67 | -4,217.97 | 3,841.97 | 3,790.86 | 51.11 | 75.171 | |
| 7,400.00 | 7,369.52 | 7,019.39 | 6,975.35 | 26.83 | 27.46 | -89.67 | -317.98 | -4,229.61 | 3,853.67 | 3,801.86 | 51.81 | 74.381 | |
| 7,500.00 | 7,469.52 | 7,118.64 | 7,073.86 | 27.16 | 27.87 | -89.72 | -321.30 | -4,241.24 | 3,865.38 | 3,812.87 | 52.51 | 73.612 | |
| 7,600.00 | 7,569.52 | 7,217.90 | 7,172.38 | 27.49 | 28.27 | -89.77 | -324.61 | -4,252.87 | 3,877.09 | 3,823.88 | 53.21 | 72.862 | |
| 7,700.00 | 7,669.52 | 7,317.15 | 7,270.89 | 27.83 | 28.68 | -89.82 | -327.93 | -4,264.51 | 3,888.81 | 3,834.89 | 53.91 | 72.130 | |
| 7,800.00 | 7,769.52 | 7,416.41 | 7,369.41 | 28.16 | 29.09 | -89.87 | -331.25 | -4,276.14 | 3,900.53 | 3,845.91 | 54.62 | 71.417 | |
| 7,900.00 | 7,869.52 | 7,515.66 | 7,467.92 | 28.49 | 29.49 | -89.92 | -334.56 | -4,287.77 | 3,912.25 | 3,856.93 | 55.32 | 70.721 | |
| 8,000.00 | 7,969.52 | 7,614.92 | 7,566.44 | 28.82 | 29.90 | -89.97 | -337.88 | -4,299.40 | 3,923.97 | 3,867.95 | 56.02 | 70.042 | |
| 8,100.00 | 8,069.52 | 7,714.17 | 7,664.95 | 29.16 | 30.30 | -90.02 | -341.19 | -4,311.04 | 3,935.70 | 3,878.97 | 56.73 | 69.380 | |
| 8,200.00 | 8,169.52 | 7,813.43 | 7,763.47 | 29.49 | 30.71 | -90.07 | -344.51 | -4,322.67 | 3,947.43 | 3,889.99 | 57.43 | 68.733 | |
| 8,300.00 | 8,269.52 | 7,912.68 | 7,861.98 | 29.83 | 31.11 | -90.11 | -347.82 | -4,334.30 | 3,959.16 | 3,901.02 | 58.14 | 68.101 | |
| 8,400.00 | 8,369.52 | 8,478.91 | 8,426.52 | 30.16 | 33.19 | -90.26 | -358.00 | -4,370.00 | 3,967.54 | 3,907.14 | 60.40 | 65.684 | |
| 8,500.00 | 8,469.52 | 8,578.91 | 8,526.52 | 30.50 | 33.50 | -90.26 | -358.00 | -4,370.00 | 3,967.54 | 3,906.47 | 61.07 | 64.966 | |
| 8,594.56 | 8,564.08 | 8,673.48 | 8,621.08 | 30.82 | 33.79 | -90.25 | -357.31 | -4,370.00 | 3,967.54 | 3,905.84 | 61.70 | 64.303 | |
| 8,600.00 | 8,569.52 | 8,678.91 | 8,626.50 | 30.84 | 33.81 | -90.25 | -357.02 | -4,370.00 | 3,967.54 | 3,905.80 | 61.74 | 64.265 | |
| 8,700.00 | 8,669.52 | 8,776.72 | 8,723.18 | 31.17 | 34.08 | -90.04 | -343.01 | -4,370.07 | 3,967.57 | 3,905.18 | 62.38 | 63.598 | |
| 8,800.00 | 8,769.52 | 8,867.37 | 8,809.47 | 31.51 | 34.31 | -89.65 | -315.53 | -4,370.19 | 3,967.80 | 3,904.80 | 63.00 | 62.981 | |
| 8,900.00 | 8,869.52 | 8,947.72 | 8,881.50 | 31.85 | 34.47 | -89.13 | -280.07 | -4,370.34 | 3,968.55 | 3,904.97 | 63.58 | 62.418 | |
| 9,000.00 | 8,969.52 | 9,016.84 | 8,938.98 | 32.19 | 34.59 | -88.58 | -241.75 | -4,370.51 | 3,970.19 | 3,906.06 | 64.13 | 61.912 | |
| 9,100.00 | 9,069.52 | 9,075.32 | 8,983.70 | 32.53 | 34.67 | -88.04 | -204.13 | -4,370.67 | 3,973.06 | 3,908.42 | 64.64 | 61.463 | |
| 9,200.00 | 9,169.52 | 9,124.47 | 9,018.17 | 32.87 | 34.72 | -87.53 | -169.11 | -4,370.82 | 3,977.46 | 3,912.34 | 65.12 | 61.074 | |
| 9,300.00 | 9,269.52 | 9,165.78 | 9,044.74 | 33.21 | 34.76 | -87.08 | -137.48 | -4,370.96 | 3,983.60 | 3,918.03 | 65.58 | 60.747 | |
| 9,400.00 | 9,369.52 | 9,200.00 | 9,064.97 | 33.55 | 34.79 | -86.68 | -109.89 | -4,371.08 | 3,991.66 | 3,925.66 | 65.99 | 60.485 | |
| 9,500.00 | 9,469.52 | 9,230.29 | 9,081.48 | 33.89 | 34.80 | -86.32 | -84.49 | -4,371.19 | 4,001.73 | 3,935.35 | 66.38 | 60.284 | |
| 9,600.00 | 9,569.52 | 9,250.00 | 9,091.49 | 34.23 | 34.82 | -86.07 | -67.52 | -4,371.27 | 4,013.93 | 3,947.21 | 66.72 | 60.162 | |
| 9,700.00 | 9,669.52 | 9,277.51 | 9,104.47 | 34.57 | 34.83 | -85.72 | -43.27 | -4,371.37 | 4,028.27 | 3,961.21 | 67.05 | 60.074 | |
| 9,800.00 | 9,769.52 | 9,300.00 | 9,114.21 | 34.91 | 34.84 | -85.43 | -23.00 | -4,371.46 | 4,044.82 | 3,977.46 | 67.35 | 60.054 | |
| 9,900.00 | 9,869.52 | 9,300.00 | 9,114.21 | 35.25 | 34.84 | -85.43 | -23.00 | -4,371.46 | 4,063.62 | 3,996.06 | 67.56 | 60.150 | |
| 10,000.00 | 9,969.52 | 9,327.77 | 9,125.12 | 35.60 | 34.86 | -85.07 | 2.53 | -4,371.57 | 4,084.53 | 4,016.71 | 67.82 | 60.226 | |
| 10,100.00 | 10,069.52 | 9,350.00 | 9,132.96 | 35.94 | 34.87 | -84.77 | 23.33 | -4,371.66 | 4,107.73 | 4,039.68 | 68.05 | 60.352 | |
| 10,200.00 | 10,169.52 | 9,350.00 | 9,132.96 | 36.28 | 34.87 | -84.77 | 23.33 | -4,371.66 | 4,133.05 | 4,064.87 | 68.18 | 60.618 | |
| 10,300.00 | 10,269.52 | 9,350.00 | 9,132.96 | 36.63 | 34.87 | -84.77 | 23.33 | -4,371.66 | 4,160.63 | 4,092.34 | 68.29 | 60.927 | |
| 10,400.00 | 10,369.52 | 9,372.05 | 9,139.94 | 36.97 | 34.88 | -84.47 | 44.25 | -4,371.76 | 4,190.22 | 4,121.77 | 68.45 | 61.214 | |
| 10,500.00 | 10,469.52 | 9,380.51 | 9,142.40 | 37.31 | 34.89 | -84.35 | 52.35 | -4,371.79 | 4,221.97 | 4,153.42 | 68.55 | 61.594 | |
| 10,600.00 | 10,569.52 | 9,400.00 | 9,147.61 | 37.66 | 34.90 | -84.09 | 71.12 | -4,371.87 | 4,255.83 | 4,187.18 | 68.66 | 61.989 | |
| 10,700.00 | 10,669.52 | 9,400.00 | 9,147.61 | 38.00 | 34.90 | -84.09 | 71.12 | -4,371.87 | 4,291.61 | 4,222.92 | 68.68 | 62.485 | |
| 10,800.00 | 10,769.52 | 9,400.00 | 9,147.61 | 38.35 | 34.90 | -84.09 | 71.12 | -4,371.87 | 4,329.40 | 4,260.70 | 68.69 | 63.026 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 021H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,900.00 | 10,869.52 | 9,400.00 | 9,147.61 | 38.69 | 34.90 | -84.09 | 71.12 | -4,371.87 | 4,369.15 | 4,300.46 | 68.69 | 63.609 | |
| 11,000.00 | 10,969.52 | 9,400.00 | 9,147.61 | 39.04 | 34.90 | -84.09 | 71.12 | -4,371.87 | 4,410.81 | 4,342.14 | 68.67 | 64.233 | |
| 11,100.00 | 11,069.52 | 9,418.10 | 9,151.88 | 39.38 | 34.91 | -83.84 | 88.71 | -4,371.95 | 4,454.16 | 4,385.45 | 68.71 | 64.830 | |
| 11,200.00 | 11,169.52 | 9,422.79 | 9,152.89 | 39.73 | 34.92 | -83.77 | 93.29 | -4,371.97 | 4,499.37 | 4,430.69 | 68.68 | 65.510 | |
| 11,300.00 | 11,269.52 | 9,427.15 | 9,153.80 | 40.07 | 34.92 | -83.71 | 97.55 | -4,371.99 | 4,546.32 | 4,477.67 | 68.65 | 66.226 | |
| 11,400.00 | 11,369.52 | 9,445.39 | 9,157.25 | 40.42 | 34.94 | -83.45 | 115.46 | -4,372.07 | 4,595.05 | 4,526.39 | 68.66 | 66.928 | |
| 11,500.00 | 11,469.52 | 9,445.39 | 9,157.25 | 40.77 | 34.94 | -83.45 | 115.46 | -4,372.07 | 4,645.25 | 4,576.65 | 68.59 | 67.722 | |
| 11,600.00 | 11,569.52 | 9,445.39 | 9,157.25 | 41.11 | 34.94 | -83.45 | 115.46 | -4,372.07 | 4,697.04 | 4,628.51 | 68.53 | 68.545 | |
| 11,700.00 | 11,669.52 | 9,445.39 | 9,157.25 | 41.46 | 34.94 | -83.45 | 115.46 | -4,372.07 | 4,750.37 | 4,681.92 | 68.45 | 69.395 | |
| 11,800.00 | 11,769.52 | 9,447.47 | 9,156.89 | 41.81 | 34.94 | -83.48 | 113.41 | -4,372.06 | 4,805.19 | 4,736.81 | 68.38 | 70.268 | |
| 11,900.00 | 11,869.52 | 9,460.67 | 9,159.91 | 42.15 | 34.95 | -83.24 | 130.51 | -4,372.13 | 4,861.43 | 4,793.07 | 68.36 | 71.112 | |
| 11,919.48 | 11,889.00 | 9,464.05 | 9,160.49 | 42.22 | 34.95 | -83.19 | 133.84 | -4,372.15 | 4,872.54 | 4,804.18 | 68.36 | 71.276 | |
| 11,950.00 | 11,919.50 | 9,470.15 | 9,161.55 | 42.33 | 34.96 | -80.50 | 139.85 | -4,372.17 | 4,889.96 | 4,821.59 | 68.36 | 71.532 | |
| 12,000.00 | 11,969.25 | 9,470.39 | 9,161.59 | 42.49 | 34.96 | -77.13 | 140.08 | -4,372.17 | 4,918.26 | 4,849.94 | 68.32 | 71.990 | |
| 12,050.00 | 12,018.39 | 9,470.39 | 9,161.59 | 42.65 | 34.96 | -73.88 | 140.08 | -4,372.17 | 4,946.11 | 4,877.83 | 68.27 | 72.448 | |
| 12,100.00 | 12,066.55 | 9,482.77 | 9,163.67 | 42.81 | 34.98 | -70.66 | 152.28 | -4,372.23 | 4,973.23 | 4,904.96 | 68.27 | 72.847 | |
| 12,150.00 | 12,113.35 | 9,488.59 | 9,164.58 | 42.95 | 34.98 | -67.71 | 158.03 | -4,372.26 | 4,999.49 | 4,931.25 | 68.24 | 73.262 | |
| 12,200.00 | 12,158.45 | 9,500.00 | 9,166.28 | 43.08 | 35.00 | -64.93 | 169.32 | -4,372.31 | 5,024.68 | 4,956.45 | 68.23 | 73.640 | |
| 12,250.00 | 12,201.49 | 9,500.00 | 9,166.28 | 43.20 | 35.00 | -62.49 | 169.32 | -4,372.31 | 5,048.58 | 4,980.39 | 68.18 | 74.044 | |
| 12,300.00 | 12,242.16 | 9,500.00 | 9,166.28 | 43.30 | 35.00 | -60.27 | 169.32 | -4,372.31 | 5,071.08 | 5,002.94 | 68.14 | 74.424 | |
| 12,350.00 | 12,280.14 | 9,518.66 | 9,168.77 | 43.40 | 35.02 | -58.17 | 187.81 | -4,372.41 | 5,091.89 | 5,023.72 | 68.17 | 74.695 | |
| 12,400.00 | 12,315.14 | 9,527.57 | 9,169.83 | 43.48 | 35.04 | -56.37 | 196.66 | -4,372.45 | 5,110.98 | 5,042.81 | 68.17 | 74.976 | |
| 12,450.00 | 12,346.90 | 9,550.00 | 9,172.14 | 43.55 | 35.08 | -54.75 | 218.97 | -4,372.58 | 5,128.24 | 5,060.02 | 68.23 | 75.166 | |
| 12,500.00 | 12,375.17 | 9,550.00 | 9,172.14 | 43.60 | 35.08 | -53.46 | 218.97 | -4,372.58 | 5,143.34 | 5,075.13 | 68.21 | 75.403 | |
| 12,550.00 | 12,399.74 | 9,550.00 | 9,172.14 | 43.65 | 35.08 | -52.38 | 218.97 | -4,372.58 | 5,156.40 | 5,088.19 | 68.21 | 75.597 | |
| 12,600.00 | 12,420.43 | 9,550.00 | 9,172.14 | 43.69 | 35.08 | -51.50 | 218.97 | -4,372.58 | 5,167.33 | 5,099.10 | 68.22 | 75.744 | |
| 12,650.00 | 12,437.07 | 9,577.66 | 9,174.26 | 43.74 | 35.13 | -50.76 | 246.54 | -4,372.76 | 5,175.72 | 5,107.37 | 68.35 | 75.722 | |
| 12,700.00 | 12,449.55 | 9,600.00 | 9,175.39 | 43.78 | 35.18 | -50.24 | 268.85 | -4,372.91 | 5,181.95 | 5,113.47 | 68.47 | 75.677 | |
| 12,719.48 | 12,453.25 | 9,600.00 | 9,175.39 | 43.80 | 35.18 | -50.11 | 268.85 | -4,372.91 | 5,183.67 | 5,115.17 | 68.50 | 75.678 | |
| 12,744.48 | 12,457.59 | 9,600.00 | 9,175.39 | 43.83 | 35.18 | -50.11 | 268.85 | -4,372.91 | 5,185.71 | 5,117.18 | 68.53 | 75.673 | |
| 12,750.00 | 12,458.54 | 9,600.00 | 9,175.39 | 43.84 | 35.18 | -50.09 | 268.85 | -4,372.91 | 5,186.17 | 5,117.63 | 68.53 | 75.672 | |
| 12,800.00 | 12,465.64 | 9,600.00 | 9,175.39 | 43.92 | 35.18 | -49.93 | 268.85 | -4,372.91 | 5,189.64 | 5,121.03 | 68.61 | 75.639 | |
| 12,850.00 | 12,470.15 | 9,620.92 | 9,175.97 | 44.00 | 35.24 | -49.82 | 289.76 | -4,373.06 | 5,191.71 | 5,122.94 | 68.78 | 75.487 | |
| 12,900.00 | 12,472.04 | 9,637.11 | 9,176.11 | 44.09 | 35.28 | -49.78 | 305.95 | -4,373.19 | 5,192.54 | 5,123.60 | 68.94 | 75.321 | |
| 12,911.17 | 12,472.10 | 9,637.11 | 9,176.11 | 44.11 | 35.28 | -49.78 | 305.95 | -4,373.19 | 5,192.53 | 5,123.56 | 68.96 | 75.292 | |
| 13,000.00 | 12,472.10 | 9,712.74 | 9,176.10 | 44.31 | 35.53 | -49.78 | 381.58 | -4,373.78 | 5,192.44 | 5,122.97 | 69.47 | 74.740 | |
| 13,100.00 | 12,472.10 | 9,812.74 | 9,176.10 | 44.57 | 35.94 | -49.78 | 481.58 | -4,374.56 | 5,192.36 | 5,122.18 | 70.18 | 73.987 | |
| 13,200.00 | 12,472.10 | 9,912.74 | 9,176.10 | 44.88 | 36.45 | -49.78 | 581.57 | -4,375.35 | 5,192.27 | 5,121.30 | 70.97 | 73.159 | |
| 13,300.00 | 12,472.09 | 10,012.74 | 9,176.10 | 45.24 | 37.04 | -49.78 | 681.57 | -4,376.13 | 5,192.19 | 5,120.34 | 71.85 | 72.263 | |
| 13,400.00 | 12,472.09 | 10,112.74 | 9,176.09 | 45.63 | 37.70 | -49.78 | 781.57 | -4,376.91 | 5,192.11 | 5,119.30 | 72.81 | 71.310 | |
| 13,500.00 | 12,472.09 | 10,212.74 | 9,176.09 | 46.07 | 38.42 | -49.77 | 881.57 | -4,377.70 | 5,192.02 | 5,118.18 | 73.85 | 70.307 | |
| 13,600.00 | 12,472.09 | 10,312.74 | 9,176.09 | 46.54 | 39.21 | -49.77 | 981.56 | -4,378.48 | 5,191.94 | 5,116.98 | 74.96 | 69.263 | |
| 13,700.00 | 12,472.08 | 10,412.74 | 9,176.09 | 47.05 | 40.04 | -49.77 | 1,081.56 | -4,379.27 | 5,191.86 | 5,115.72 | 76.14 | 68.186 | |
| 13,800.00 | 12,472.08 | 10,512.74 | 9,176.08 | 47.60 | 40.93 | -49.77 | 1,181.56 | -4,380.05 | 5,191.78 | 5,114.38 | 77.39 | 67.084 | |
| 13,900.00 | 12,472.08 | 10,612.74 | 9,176.08 | 48.19 | 41.87 | -49.77 | 1,281.55 | -4,380.83 | 5,191.69 | 5,112.99 | 78.71 | 65.964 | |
| 14,000.00 | 12,472.08 | 10,712.74 | 9,176.08 | 48.81 | 42.84 | -49.77 | 1,381.55 | -4,381.62 | 5,191.61 | 5,111.53 | 80.08 | 64.831 | |
| 14,100.00 | 12,472.07 | 10,812.74 | 9,176.08 | 49.47 | 43.86 | -49.77 | 1,481.55 | -4,382.40 | 5,191.53 | 5,110.02 | 81.51 | 63.692 | |
| 14,200.00 | 12,472.07 | 10,912.74 | 9,176.07 | 50.15 | 44.92 | -49.77 | 1,581.54 | -4,383.18 | 5,191.44 | 5,108.45 | 83.00 | 62.551 | |
| 14,300.00 | 12,472.07 | 11,012.74 | 9,176.07 | 50.87 | 46.01 | -49.77 | 1,681.54 | -4,383.97 | 5,191.36 | 5,106.83 | 84.53 | 61.412 | |
| 14,400.00 | 12,472.07 | 11,112.74 | 9,176.07 | 51.62 | 47.13 | -49.77 | 1,781.54 | -4,384.75 | 5,191.28 | 5,105.16 | 86.12 | 60.281 | |
| 14,500.00 | 12,472.06 | 11,212.74 | 9,176.07 | 52.40 | 48.29 | -49.77 | 1,881.53 | -4,385.53 | 5,191.20 | 5,103.45 | 87.75 | 59.160 | |
| 14,600.00 | 12,472.06 | 11,312.74 | 9,176.06 | 53.20 | 49.47 | -49.77 | 1,981.53 | -4,386.32 | 5,191.11 | 5,101.69 | 89.42 | 58.051 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 021H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14,700.00 | 12,472.06 | 11,412.74 | 9,176.06 | 54.03 | 50.68 | -49.77 | 2,081.53 | -4,387.10 | 5,191.03 | 5,099.89 | 91.14 | 56.958 | |
| 14,800.00 | 12,472.06 | 11,512.74 | 9,176.06 | 54.88 | 51.91 | -49.76 | 2,181.52 | -4,387.88 | 5,190.95 | 5,098.05 | 92.89 | 55.881 | |
| 14,900.00 | 12,472.06 | 11,612.74 | 9,176.06 | 55.76 | 53.17 | -49.76 | 2,281.52 | -4,388.67 | 5,190.86 | 5,096.18 | 94.68 | 54.824 | |
| 15,000.00 | 12,472.05 | 11,712.74 | 9,176.05 | 56.66 | 54.45 | -49.76 | 2,381.52 | -4,389.45 | 5,190.78 | 5,094.27 | 96.51 | 53.786 | |
| 15,100.00 | 12,472.05 | 11,812.74 | 9,176.05 | 57.59 | 55.75 | -49.76 | 2,481.52 | -4,390.24 | 5,190.70 | 5,092.33 | 98.36 | 52.770 | |
| 15,200.00 | 12,472.05 | 11,912.74 | 9,176.05 | 58.53 | 57.06 | -49.76 | 2,581.51 | -4,391.02 | 5,190.62 | 5,090.36 | 100.25 | 51.775 | |
| 15,300.00 | 12,472.05 | 12,012.74 | 9,176.05 | 59.49 | 58.40 | -49.76 | 2,681.51 | -4,391.80 | 5,190.53 | 5,088.36 | 102.17 | 50.803 | |
| 15,400.00 | 12,472.04 | 12,112.74 | 9,176.04 | 60.47 | 59.75 | -49.76 | 2,781.51 | -4,392.59 | 5,190.45 | 5,086.34 | 104.11 | 49.854 | |
| 15,500.00 | 12,472.04 | 12,212.74 | 9,176.04 | 61.47 | 61.11 | -49.76 | 2,881.50 | -4,393.37 | 5,190.37 | 5,084.28 | 106.08 | 48.927 | |
| 15,600.00 | 12,472.04 | 12,312.74 | 9,176.04 | 62.49 | 62.49 | -49.76 | 2,981.50 | -4,394.15 | 5,190.28 | 5,082.21 | 108.08 | 48.023 | |
| 15,700.00 | 12,472.04 | 12,412.74 | 9,176.04 | 63.52 | 63.88 | -49.76 | 3,081.50 | -4,394.94 | 5,190.20 | 5,080.10 | 110.10 | 47.142 | |
| 15,800.00 | 12,472.03 | 12,512.74 | 9,176.04 | 64.57 | 65.29 | -49.76 | 3,181.49 | -4,395.72 | 5,190.12 | 5,077.98 | 112.14 | 46.284 | |
| 15,900.00 | 12,472.03 | 12,612.74 | 9,176.03 | 65.63 | 66.70 | -49.76 | 3,281.49 | -4,396.50 | 5,190.04 | 5,075.84 | 114.20 | 45.448 | |
| 16,000.00 | 12,472.03 | 12,712.74 | 9,176.03 | 66.71 | 68.13 | -49.76 | 3,381.49 | -4,397.29 | 5,189.95 | 5,073.67 | 116.28 | 44.634 | |
| 16,100.00 | 12,472.03 | 12,812.74 | 9,176.03 | 67.80 | 69.57 | -49.75 | 3,481.48 | -4,398.07 | 5,189.87 | 5,071.49 | 118.38 | 43.841 | |
| 16,200.00 | 12,472.02 | 12,912.74 | 9,176.03 | 68.90 | 71.01 | -49.75 | 3,581.48 | -4,398.85 | 5,189.79 | 5,069.29 | 120.50 | 43.070 | |
| 16,300.00 | 12,472.02 | 13,012.74 | 9,176.02 | 70.02 | 72.47 | -49.75 | 3,681.48 | -4,399.64 | 5,189.70 | 5,067.07 | 122.63 | 42.320 | |
| 16,400.00 | 12,472.02 | 13,112.74 | 9,176.02 | 71.14 | 73.93 | -49.75 | 3,781.47 | -4,400.42 | 5,189.62 | 5,064.84 | 124.78 | 41.590 | |
| 16,500.00 | 12,472.02 | 13,212.74 | 9,176.02 | 72.28 | 75.40 | -49.75 | 3,881.47 | -4,401.21 | 5,189.54 | 5,062.59 | 126.95 | 40.880 | |
| 16,600.00 | 12,472.02 | 13,312.74 | 9,176.02 | 73.43 | 76.88 | -49.75 | 3,981.47 | -4,401.99 | 5,189.46 | 5,060.33 | 129.13 | 40.189 | |
| 16,700.00 | 12,472.01 | 13,412.74 | 9,176.01 | 74.58 | 78.37 | -49.75 | 4,081.47 | -4,402.77 | 5,189.37 | 5,058.05 | 131.32 | 39.517 | |
| 16,800.00 | 12,472.01 | 13,512.74 | 9,176.01 | 75.75 | 79.86 | -49.75 | 4,181.46 | -4,403.56 | 5,189.29 | 5,055.76 | 133.53 | 38.863 | |
| 16,900.00 | 12,472.01 | 13,612.74 | 9,176.01 | 76.93 | 81.36 | -49.75 | 4,281.46 | -4,404.34 | 5,189.21 | 5,053.46 | 135.75 | 38.227 | |
| 17,000.00 | 12,472.01 | 13,712.74 | 9,176.01 | 78.11 | 82.87 | -49.75 | 4,381.46 | -4,405.12 | 5,189.12 | 5,051.15 | 137.98 | 37.609 | |
| 17,100.00 | 12,472.00 | 13,812.74 | 9,176.00 | 79.30 | 84.38 | -49.75 | 4,481.45 | -4,405.91 | 5,189.04 | 5,048.82 | 140.22 | 37.007 | |
| 17,200.00 | 12,472.00 | 13,912.74 | 9,176.00 | 80.51 | 85.90 | -49.75 | 4,581.45 | -4,406.69 | 5,188.96 | 5,046.49 | 142.47 | 36.421 | |
| 17,236.44 | 12,472.00 | 13,949.18 | 9,176.00 | 80.94 | 86.45 | -49.75 | 4,617.89 | -4,406.98 | 5,188.93 | 5,045.63 | 143.30 | 36.211 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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 024H - OH - Prelim Plan B — Offset Site Error: 0.00 usft

Survey Program: 0-MWD - OWSG — 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 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | 30.00 | 30.00 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.13 | 0.13 | 90.00 | 0.00 | 30.00 | 30.00 | 29.75 | 0.25 | 117.871 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.49 | 0.49 | 90.00 | 0.00 | 30.00 | 30.00 | 29.03 | 0.97 | 30.881 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.84 | 0.84 | 90.00 | 0.00 | 30.00 | 30.00 | 28.31 | 1.69 | 17.768 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.20 | 1.20 | 90.00 | 0.00 | 30.00 | 30.00 | 27.59 | 2.41 | 12.472 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.56 | 1.56 | 90.00 | 0.00 | 30.00 | 30.00 | 26.88 | 3.12 | 9.608 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.92 | 1.92 | 90.00 | 0.00 | 30.00 | 30.00 | 26.16 | 3.84 | 7.814 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.28 | 2.28 | 90.00 | 0.00 | 30.00 | 30.00 | 25.44 | 4.56 | 6.584 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.64 | 2.64 | 90.00 | 0.00 | 30.00 | 30.00 | 24.73 | 5.27 | 5.689 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.00 | 3.00 | 90.00 | 0.00 | 30.00 | 30.00 | 24.01 | 5.99 | 5.008 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.35 | 3.35 | 90.00 | 0.00 | 30.00 | 30.00 | 23.29 | 6.71 | 4.473 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 3.71 | 3.71 | 90.00 | 0.00 | 30.00 | 30.00 | 22.58 | 7.42 | 4.041 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 4.07 | 4.07 | 90.00 | 0.00 | 30.00 | 30.00 | 21.86 | 8.14 | 3.685 CC | |
| 1,300.00 | 1,299.99 | 1,300.01 | 1,299.99 | 4.41 | 4.43 | -140.86 | 0.00 | 30.00 | 30.67 | 21.83 | 8.84 | 3.468 ES | |
| 1,400.00 | 1,399.96 | 1,400.04 | 1,399.96 | 4.75 | 4.79 | -143.74 | 0.00 | 30.00 | 32.74 | 23.21 | 9.53 | 3.434 | |
| 1,500.00 | 1,499.86 | 1,499.86 | 1,499.86 | 5.08 | 5.15 | -147.79 | 0.00 | 30.00 | 36.35 | 26.13 | 10.23 | 3.554 | |
| 1,600.00 | 1,599.68 | 1,600.54 | 1,600.53 | 5.43 | 5.49 | -151.18 | -0.99 | 29.12 | 40.59 | 29.69 | 10.91 | 3.721 | |
| 1,700.00 | 1,699.37 | 1,701.36 | 1,701.27 | 5.77 | 5.82 | -152.98 | -3.98 | 26.49 | 44.35 | 32.77 | 11.58 | 3.831 | |
| 1,800.00 | 1,798.90 | 1,802.31 | 1,801.99 | 6.12 | 6.16 | -153.63 | -8.97 | 22.09 | 47.53 | 35.28 | 12.25 | 3.881 | |
| 1,900.00 | 1,898.26 | 1,902.58 | 1,901.89 | 6.48 | 6.50 | -153.77 | -15.42 | 16.39 | 50.63 | 37.70 | 12.93 | 3.916 | |
| 2,000.00 | 1,997.51 | 2,002.51 | 2,001.44 | 6.84 | 6.85 | -154.24 | -21.96 | 10.63 | 54.40 | 40.78 | 13.62 | 3.995 | |
| 2,100.00 | 2,096.77 | 2,102.44 | 2,100.99 | 7.20 | 7.20 | -154.64 | -28.49 | 4.87 | 58.18 | 43.87 | 14.31 | 4.065 | |
| 2,200.00 | 2,196.02 | 2,202.36 | 2,200.54 | 7.57 | 7.55 | -155.00 | -35.02 | -0.90 | 61.97 | 46.95 | 15.01 | 4.127 | |
| 2,300.00 | 2,295.28 | 2,302.29 | 2,300.08 | 7.94 | 7.90 | -155.31 | -41.55 | -6.66 | 65.75 | 50.03 | 15.72 | 4.183 | |
| 2,400.00 | 2,394.53 | 2,402.22 | 2,399.63 | 8.32 | 8.26 | -155.59 | -48.08 | -12.42 | 69.54 | 53.11 | 16.43 | 4.234 | |
| 2,500.00 | 2,493.79 | 2,502.15 | 2,499.18 | 8.69 | 8.62 | -155.85 | -54.61 | -18.18 | 73.33 | 56.19 | 17.14 | 4.279 | |
| 2,600.00 | 2,593.04 | 2,602.07 | 2,598.73 | 9.07 | 8.99 | -156.07 | -61.14 | -23.95 | 77.12 | 59.27 | 17.85 | 4.320 | |
| 2,700.00 | 2,692.30 | 2,702.00 | 2,698.27 | 9.45 | 9.35 | -156.28 | -67.67 | -29.71 | 80.91 | 62.34 | 18.56 | 4.358 | |
| 2,800.00 | 2,791.55 | 2,801.93 | 2,797.82 | 9.83 | 9.72 | -156.47 | -74.20 | -35.47 | 84.70 | 65.42 | 19.28 | 4.393 | |
| 2,900.00 | 2,890.81 | 2,901.86 | 2,897.37 | 10.21 | 10.08 | -156.64 | -80.73 | -41.23 | 88.49 | 68.49 | 20.00 | 4.424 | |
| 3,000.00 | 2,990.06 | 3,001.78 | 2,996.92 | 10.60 | 10.45 | -156.80 | -87.26 | -46.99 | 92.29 | 71.56 | 20.72 | 4.453 | |
| 3,100.00 | 3,089.32 | 3,101.71 | 3,096.46 | 10.98 | 10.82 | -156.94 | -93.79 | -52.76 | 96.08 | 74.63 | 21.44 | 4.480 | |
| 3,200.00 | 3,188.57 | 3,201.64 | 3,196.01 | 11.37 | 11.20 | -157.07 | -100.32 | -58.52 | 99.87 | 77.71 | 22.17 | 4.505 | |
| 3,300.00 | 3,287.82 | 3,301.57 | 3,295.56 | 11.75 | 11.57 | -157.20 | -106.85 | -64.28 | 103.67 | 80.78 | 22.89 | 4.528 | |
| 3,400.00 | 3,387.08 | 3,401.50 | 3,395.11 | 12.14 | 11.94 | -157.31 | -113.38 | -70.04 | 107.46 | 83.84 | 23.62 | 4.550 | |
| 3,500.00 | 3,486.33 | 3,501.42 | 3,494.65 | 12.53 | 12.31 | -157.42 | -119.91 | -75.81 | 111.26 | 86.91 | 24.35 | 4.570 | |
| 3,600.00 | 3,585.59 | 3,601.35 | 3,594.20 | 12.91 | 12.69 | -157.52 | -126.44 | -81.57 | 115.06 | 89.98 | 25.07 | 4.589 | |
| 3,700.00 | 3,684.84 | 3,701.28 | 3,693.75 | 13.30 | 13.06 | -157.62 | -132.97 | -87.33 | 118.85 | 93.05 | 25.80 | 4.606 | |
| 3,800.00 | 3,784.10 | 3,801.21 | 3,793.30 | 13.69 | 13.44 | -157.70 | -139.50 | -93.09 | 122.65 | 96.12 | 26.53 | 4.623 | |
| 3,900.00 | 3,883.35 | 3,901.13 | 3,892.84 | 14.08 | 13.82 | -157.79 | -146.04 | -98.85 | 126.45 | 99.18 | 27.26 | 4.638 | |
| 4,000.00 | 3,982.61 | 4,001.06 | 3,992.39 | 14.47 | 14.19 | -157.87 | -152.57 | -104.62 | 130.24 | 102.25 | 27.99 | 4.653 | |
| 4,100.00 | 4,081.86 | 4,100.99 | 4,091.94 | 14.86 | 14.57 | -157.94 | -159.10 | -110.38 | 134.04 | 105.32 | 28.72 | 4.666 | |
| 4,200.00 | 4,181.12 | 4,200.92 | 4,191.49 | 15.25 | 14.95 | -158.01 | -165.63 | -116.14 | 137.84 | 108.38 | 29.46 | 4.679 | |
| 4,300.00 | 4,280.37 | 4,300.85 | 4,291.03 | 15.65 | 15.33 | -158.07 | -172.16 | -121.90 | 141.64 | 111.45 | 30.19 | 4.692 | |
| 4,400.00 | 4,379.63 | 4,400.77 | 4,390.58 | 16.04 | 15.71 | -158.14 | -178.69 | -127.67 | 145.44 | 114.51 | 30.92 | 4.703 | |
| 4,500.00 | 4,478.88 | 4,500.70 | 4,490.13 | 16.43 | 16.09 | -158.20 | -185.22 | -133.43 | 149.23 | 117.58 | 31.66 | 4.714 | |
| 4,600.00 | 4,578.13 | 4,600.63 | 4,589.67 | 16.82 | 16.46 | -158.25 | -191.75 | -139.19 | 153.03 | 120.64 | 32.39 | 4.725 | |
| 4,700.00 | 4,677.39 | 4,700.56 | 4,689.22 | 17.21 | 16.84 | -158.31 | -198.28 | -144.95 | 156.83 | 123.71 | 33.12 | 4.735 | |
| 4,800.00 | 4,776.64 | 4,800.48 | 4,788.77 | 17.61 | 17.22 | -158.36 | -204.81 | -150.71 | 160.63 | 126.77 | 33.86 | 4.744 | |
| 4,900.00 | 4,875.90 | 4,900.41 | 4,888.32 | 18.00 | 17.60 | -158.40 | -211.34 | -156.48 | 164.43 | 129.84 | 34.59 | 4.753 | |
| 5,000.00 | 4,975.15 | 5,000.34 | 4,987.86 | 18.39 | 17.99 | -158.45 | -217.87 | -162.24 | 168.23 | 132.90 | 35.33 | 4.762 | |
| 5,100.00 | 5,074.41 | 5,100.27 | 5,087.41 | 18.79 | 18.37 | -158.50 | -224.40 | -168.00 | 172.03 | 135.96 | 36.06 | 4.770 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 024H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,173.66 | 5,200.19 | 5,186.96 | 19.18 | 18.75 | -158.54 | -230.93 | -173.76 | 175.83 | 139.03 | 36.80 | 4.778 | |
| 5,300.00 | 5,272.92 | 5,300.12 | 5,286.51 | 19.57 | 19.13 | -158.58 | -237.46 | -179.53 | 179.63 | 142.09 | 37.53 | 4.786 | |
| 5,400.00 | 5,372.17 | 5,400.05 | 5,386.05 | 19.97 | 19.51 | -158.62 | -243.99 | -185.29 | 183.42 | 145.15 | 38.27 | 4.793 | |
| 5,500.00 | 5,471.43 | 5,500.02 | 5,485.60 | 20.36 | 19.89 | -158.66 | -250.52 | -191.05 | 187.22 | 148.22 | 39.01 | 4.800 | |
| 5,522.48 | 5,493.73 | 5,522.44 | 5,507.98 | 20.45 | 19.98 | -158.66 | -251.99 | -192.35 | 188.08 | 148.91 | 39.17 | 4.801 | |
| 5,600.00 | 5,570.74 | 5,600.08 | 5,585.17 | 20.75 | 20.27 | -158.64 | -257.06 | -196.81 | 190.54 | 150.79 | 39.74 | 4.794 | |
| 5,700.00 | 5,670.24 | 5,700.10 | 5,684.77 | 21.14 | 20.65 | -158.44 | -263.59 | -202.58 | 192.26 | 151.78 | 40.48 | 4.749 | |
| 5,800.00 | 5,769.90 | 5,800.11 | 5,784.38 | 21.51 | 21.04 | -158.05 | -270.12 | -208.34 | 192.38 | 151.15 | 41.22 | 4.667 | |
| 5,900.00 | 5,869.69 | 5,900.14 | 5,883.96 | 21.88 | 21.42 | -157.45 | -276.66 | -214.11 | 190.88 | 148.92 | 41.97 | 4.548 | |
| 6,000.00 | 5,969.57 | 6,000.22 | 5,983.50 | 22.24 | 21.80 | -156.63 | -283.19 | -219.87 | 187.81 | 145.10 | 42.71 | 4.397 | |
| 6,100.00 | 6,069.53 | 6,100.39 | 6,082.95 | 22.59 | 22.19 | -155.55 | -289.71 | -225.63 | 183.18 | 139.72 | 43.46 | 4.215 | |
| 6,200.00 | 6,169.52 | 6,200.67 | 6,182.29 | 22.94 | 22.57 | -154.16 | -296.23 | -231.38 | 177.05 | 132.83 | 44.22 | 4.004 | |
| 6,222.48 | 6,191.99 | 6,221.72 | 6,204.60 | 23.01 | 22.65 | 76.01 | -297.69 | -232.67 | 175.47 | 131.09 | 44.38 | 3.954 | |
| 6,300.00 | 6,269.52 | 6,301.05 | 6,281.54 | 23.26 | 22.95 | 77.30 | -302.74 | -237.12 | 169.95 | 124.98 | 44.97 | 3.779 | |
| 6,400.00 | 6,369.52 | 6,401.43 | 6,380.78 | 23.58 | 23.34 | 79.10 | -309.25 | -242.87 | 162.96 | 117.24 | 45.72 | 3.564 | |
| 6,500.00 | 6,469.52 | 6,501.81 | 6,480.02 | 23.90 | 23.72 | 81.05 | -315.76 | -248.61 | 156.14 | 109.66 | 46.47 | 3.360 | |
| 6,600.00 | 6,569.52 | 6,602.19 | 6,579.26 | 24.22 | 24.11 | 83.18 | -322.27 | -254.36 | 149.52 | 102.28 | 47.24 | 3.165 | |
| 6,700.00 | 6,669.52 | 6,697.43 | 6,678.50 | 24.54 | 24.47 | 85.50 | -328.78 | -260.10 | 143.12 | 95.13 | 48.00 | 2.982 | |
| 6,800.00 | 6,769.52 | 6,794.75 | 6,775.53 | 24.87 | 24.84 | 87.63 | -334.31 | -264.98 | 137.77 | 89.02 | 48.75 | 2.826 | |
| 6,900.00 | 6,869.52 | 6,892.25 | 6,872.91 | 25.19 | 25.20 | 89.14 | -337.98 | -268.22 | 134.34 | 84.87 | 49.47 | 2.716 | |
| 7,000.00 | 6,969.52 | 6,989.94 | 6,970.57 | 25.52 | 25.54 | 89.91 | -339.79 | -269.82 | 132.69 | 82.54 | 50.15 | 2.646 | |
| 7,062.57 | 7,032.09 | 7,051.47 | 7,032.09 | 25.73 | 25.75 | 90.00 | -340.00 | -270.00 | 132.50 | 81.95 | 50.55 | 2.621 | |
| 7,100.00 | 7,069.52 | 7,088.89 | 7,069.52 | 25.85 | 25.87 | 90.00 | -340.00 | -270.00 | 132.50 | 81.70 | 50.80 | 2.608 | |
| 7,200.00 | 7,169.52 | 7,188.89 | 7,169.52 | 26.18 | 26.19 | 90.00 | -340.00 | -270.00 | 132.50 | 81.04 | 51.46 | 2.575 | |
| 7,300.00 | 7,269.52 | 7,288.89 | 7,269.52 | 26.50 | 26.52 | 90.00 | -340.00 | -270.00 | 132.50 | 80.38 | 52.12 | 2.542 | |
| 7,400.00 | 7,369.52 | 7,388.89 | 7,369.52 | 26.83 | 26.84 | 90.00 | -340.00 | -270.00 | 132.50 | 79.72 | 52.78 | 2.510 | |
| 7,500.00 | 7,469.52 | 7,488.89 | 7,469.52 | 27.16 | 27.17 | 90.00 | -340.00 | -270.00 | 132.50 | 79.05 | 53.45 | 2.479 | |
| 7,600.00 | 7,569.52 | 7,588.89 | 7,569.52 | 27.49 | 27.49 | 90.00 | -340.00 | -270.00 | 132.50 | 78.39 | 54.11 | 2.449 | |
| 7,700.00 | 7,669.52 | 7,688.89 | 7,669.52 | 27.83 | 27.82 | 90.00 | -340.00 | -270.00 | 132.50 | 77.72 | 54.78 | 2.419 | |
| 7,800.00 | 7,769.52 | 7,788.89 | 7,769.52 | 28.16 | 28.15 | 90.00 | -340.00 | -270.00 | 132.50 | 77.05 | 55.45 | 2.390 | |
| 7,900.00 | 7,869.52 | 7,888.89 | 7,869.52 | 28.49 | 28.48 | 90.00 | -340.00 | -270.00 | 132.50 | 76.38 | 56.12 | 2.361 | |
| 8,000.00 | 7,969.52 | 7,988.89 | 7,969.52 | 28.82 | 28.81 | 90.00 | -340.00 | -270.00 | 132.50 | 75.71 | 56.79 | 2.333 | |
| 8,100.00 | 8,069.52 | 8,088.89 | 8,069.52 | 29.16 | 29.14 | 90.00 | -340.00 | -270.00 | 132.50 | 75.04 | 57.46 | 2.306 | |
| 8,200.00 | 8,169.52 | 8,188.89 | 8,169.52 | 29.49 | 29.47 | 90.00 | -340.00 | -270.00 | 132.50 | 74.37 | 58.13 | 2.279 | |
| 8,300.00 | 8,269.52 | 8,288.89 | 8,269.52 | 29.83 | 29.80 | 90.00 | -340.00 | -270.00 | 132.50 | 73.70 | 58.80 | 2.253 | |
| 8,400.00 | 8,369.52 | 8,388.89 | 8,369.52 | 30.16 | 30.14 | 90.00 | -340.00 | -270.00 | 132.50 | 73.02 | 59.48 | 2.228 | |
| 8,500.00 | 8,469.52 | 8,488.89 | 8,469.52 | 30.50 | 30.47 | 90.00 | -340.00 | -270.00 | 132.50 | 72.34 | 60.16 | 2.203 | |
| 8,600.00 | 8,569.52 | 8,596.31 | 8,576.36 | 30.84 | 30.82 | 86.10 | -331.20 | -273.32 | 129.66 | 68.88 | 60.78 | 2.133 | |
| 8,700.00 | 8,669.52 | 8,697.15 | 8,673.45 | 31.17 | 31.11 | 74.20 | -306.12 | -282.77 | 124.49 | 63.38 | 61.12 | 2.037 | |
| 8,730.11 | 8,699.63 | 8,725.38 | 8,699.63 | 31.28 | 31.18 | 69.35 | -296.27 | -286.48 | 123.99 | 62.84 | 61.15 | 2.028 | SF |
| 8,800.00 | 8,769.52 | 8,786.38 | 8,754.27 | 31.51 | 31.32 | 57.04 | -270.95 | -296.02 | 127.82 | 67.08 | 60.74 | 2.104 | |
| 8,900.00 | 8,869.52 | 8,862.36 | 8,817.80 | 31.85 | 31.48 | 40.38 | -232.05 | -310.68 | 150.86 | 92.58 | 58.28 | 2.589 | |
| 9,000.00 | 8,969.52 | 8,924.24 | 8,865.15 | 32.19 | 31.58 | 28.25 | -194.71 | -324.43 | 195.19 | 140.87 | 54.32 | 3.593 | |
| 9,100.00 | 9,069.52 | 8,975.10 | 8,900.85 | 32.53 | 31.65 | 20.44 | -160.24 | -335.51 | 255.44 | 204.78 | 50.66 | 5.043 | |
| 9,200.00 | 9,169.52 | 9,017.37 | 8,928.48 | 32.87 | 31.69 | 15.35 | -128.72 | -344.49 | 325.73 | 277.90 | 47.84 | 6.809 | |
| 9,300.00 | 9,269.52 | 9,050.00 | 8,947.55 | 33.21 | 31.72 | 12.31 | -103.82 | -350.95 | 402.62 | 357.25 | 45.37 | 8.874 | |
| 9,400.00 | 9,369.52 | 9,085.04 | 8,966.80 | 33.55 | 31.75 | 9.60 | -75.34 | -357.73 | 483.98 | 439.91 | 44.07 | 10.983 | |
| 9,500.00 | 9,469.52 | 9,111.42 | 8,980.13 | 33.89 | 31.76 | 7.91 | -53.11 | -362.64 | 568.68 | 525.86 | 42.82 | 13.282 | |
| 9,600.00 | 9,569.52 | 9,134.17 | 8,990.80 | 34.23 | 31.77 | 6.66 | -33.45 | -366.71 | 655.87 | 614.02 | 41.85 | 15.670 | |
| 9,700.00 | 9,669.52 | 9,150.00 | 8,997.77 | 34.57 | 31.78 | 5.88 | -19.50 | -369.47 | 745.02 | 704.06 | 40.96 | 18.188 | |
| 9,800.00 | 9,769.52 | 9,171.19 | 9,005.50 | 34.91 | 31.77 | 4.96 | -0.52 | -373.04 | 835.65 | 795.08 | 40.56 | 20.601 | |
| 9,900.00 | 9,869.52 | 9,186.41 | 9,012.34 | 35.25 | 31.79 | 4.37 | 13.30 | -375.52 | 927.53 | 887.38 | 40.15 | 23.101 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 024H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 | 9,969.52 | 9,200.00 | 9,017.25 | 35.60 | 31.84 | 3.88 | 25.79 | -377.68 | 1,020.41 | 980.55 | 39.86 | 25.600 | |
| 10,100.00 | 10,069.52 | 9,200.00 | 9,017.25 | 35.94 | 31.84 | 3.88 | 25.79 | -377.68 | 1,114.31 | 1,074.94 | 39.38 | 28.298 | |
| 10,200.00 | 10,169.52 | 9,222.66 | 9,024.78 | 36.28 | 31.91 | 3.16 | 46.88 | -381.15 | 1,208.54 | 1,169.01 | 39.53 | 30.571 | |
| 10,300.00 | 10,269.52 | 9,232.36 | 9,027.75 | 36.63 | 31.94 | 2.88 | 56.00 | -382.58 | 1,303.54 | 1,264.06 | 39.48 | 33.022 | |
| 10,400.00 | 10,369.52 | 9,250.00 | 9,032.76 | 36.97 | 32.00 | 2.41 | 72.73 | -385.11 | 1,399.13 | 1,359.51 | 39.63 | 35.309 | |
| 10,500.00 | 10,469.52 | 9,250.00 | 9,032.76 | 37.31 | 32.00 | 2.41 | 72.73 | -385.11 | 1,494.97 | 1,455.44 | 39.53 | 37.819 | |
| 10,600.00 | 10,569.52 | 9,250.00 | 9,032.76 | 37.66 | 32.00 | 2.41 | 72.73 | -385.11 | 1,591.31 | 1,551.81 | 39.51 | 40.279 | |
| 10,700.00 | 10,669.52 | 9,250.00 | 9,032.76 | 38.00 | 32.00 | 2.41 | 72.73 | -385.11 | 1,688.08 | 1,648.54 | 39.55 | 42.688 | |
| 10,800.00 | 10,769.52 | 9,269.16 | 9,037.63 | 38.35 | 32.07 | 1.96 | 91.07 | -387.73 | 1,784.79 | 1,744.94 | 39.86 | 44.782 | |
| 10,900.00 | 10,869.52 | 9,274.80 | 9,038.94 | 38.69 | 32.09 | 1.84 | 96.50 | -388.48 | 1,881.95 | 1,841.93 | 40.02 | 47.021 | |
| 11,000.00 | 10,969.52 | 9,280.02 | 9,040.12 | 39.04 | 32.11 | 1.73 | 101.54 | -389.16 | 1,979.33 | 1,939.11 | 40.21 | 49.219 | |
| 11,100.00 | 11,069.52 | 9,300.00 | 9,044.19 | 39.38 | 32.18 | 1.34 | 120.94 | -391.69 | 2,077.15 | 2,036.58 | 40.57 | 51.199 | |
| 11,200.00 | 11,169.52 | 9,300.00 | 9,044.19 | 39.73 | 32.18 | 1.34 | 120.94 | -391.69 | 2,174.77 | 2,134.02 | 40.75 | 53.373 | |
| 11,300.00 | 11,269.52 | 9,300.00 | 9,044.19 | 40.07 | 32.18 | 1.34 | 120.94 | -391.69 | 2,272.59 | 2,231.65 | 40.95 | 55.501 | |
| 11,400.00 | 11,369.52 | 9,300.00 | 9,044.19 | 40.42 | 32.18 | 1.34 | 120.94 | -391.69 | 2,370.60 | 2,329.43 | 41.17 | 57.583 | |
| 11,500.00 | 11,469.52 | 9,300.00 | 9,044.19 | 40.77 | 32.18 | 1.34 | 120.94 | -391.69 | 2,468.77 | 2,427.36 | 41.41 | 59.620 | |
| 11,600.00 | 11,569.52 | 9,304.57 | 9,045.02 | 41.11 | 32.19 | 1.26 | 125.39 | -392.25 | 2,567.05 | 2,525.36 | 41.70 | 61.567 | |
| 11,700.00 | 11,669.52 | 9,309.48 | 9,045.39 | 41.46 | 32.21 | 1.23 | 127.41 | -392.50 | 2,665.45 | 2,623.47 | 41.98 | 63.491 | |
| 11,800.00 | 11,769.52 | 9,323.99 | 9,046.41 | 41.81 | 32.26 | 0.94 | 144.38 | -394.58 | 2,763.90 | 2,721.53 | 42.37 | 65.238 | |
| 11,900.00 | 11,869.52 | 9,333.06 | 9,049.98 | 42.15 | 32.30 | 0.79 | 153.24 | -395.67 | 2,862.36 | 2,819.66 | 42.71 | 67.022 | |
| 11,919.48 | 11,889.00 | 9,333.06 | 9,049.98 | 42.22 | 32.30 | 0.79 | 153.24 | -395.67 | 2,881.55 | 2,838.79 | 42.76 | 67.383 | |
| 11,950.00 | 11,919.50 | 9,333.06 | 9,049.98 | 42.33 | 32.30 | 1.00 | 153.24 | -395.67 | 2,911.48 | 2,868.63 | 42.85 | 67.948 | |
| 12,000.00 | 11,969.25 | 9,341.64 | 9,051.44 | 42.49 | 32.33 | 0.66 | 161.63 | -396.68 | 2,959.67 | 2,916.65 | 43.02 | 68.790 | |
| 12,050.00 | 12,018.39 | 9,350.00 | 9,052.80 | 42.65 | 32.36 | 0.47 | 169.83 | -397.62 | 3,006.63 | 2,963.45 | 43.18 | 69.629 | |
| 12,100.00 | 12,066.55 | 9,350.00 | 9,052.80 | 42.81 | 32.36 | 0.39 | 169.83 | -397.62 | 3,051.99 | 3,008.72 | 43.27 | 70.531 | |
| 12,150.00 | 12,113.35 | 9,350.00 | 9,052.80 | 42.95 | 32.36 | 0.33 | 169.83 | -397.62 | 3,095.54 | 3,052.19 | 43.35 | 71.410 | |
| 12,200.00 | 12,158.45 | 9,350.00 | 9,052.80 | 43.08 | 32.36 | 0.29 | 169.83 | -397.62 | 3,137.02 | 3,093.61 | 43.41 | 72.259 | |
| 12,250.00 | 12,201.49 | 9,374.13 | 9,056.38 | 43.20 | 32.45 | 0.20 | 193.56 | -400.13 | 3,175.85 | 3,132.27 | 43.58 | 72.867 | |
| 12,300.00 | 12,242.16 | 9,400.00 | 9,059.66 | 43.30 | 32.55 | 0.12 | 219.11 | -402.46 | 3,212.40 | 3,168.66 | 43.75 | 73.435 | |
| 12,350.00 | 12,280.14 | 9,400.00 | 9,059.66 | 43.40 | 32.55 | 0.12 | 219.11 | -402.46 | 3,245.82 | 3,202.05 | 43.77 | 74.159 | |
| 12,400.00 | 12,315.14 | 9,400.00 | 9,059.66 | 43.48 | 32.55 | 0.11 | 219.11 | -402.46 | 3,276.34 | 3,232.55 | 43.79 | 74.823 | |
| 12,450.00 | 12,346.90 | 9,400.00 | 9,059.66 | 43.55 | 32.55 | 0.10 | 219.11 | -402.46 | 3,303.81 | 3,260.01 | 43.80 | 75.421 | |
| 12,500.00 | 12,375.17 | 9,424.55 | 9,062.24 | 43.60 | 32.65 | 0.06 | 243.46 | -404.33 | 3,327.75 | 3,283.84 | 43.91 | 75.779 | |
| 12,550.00 | 12,399.74 | 9,450.00 | 9,064.35 | 43.65 | 32.75 | 0.04 | 268.77 | -405.91 | 3,348.46 | 3,304.44 | 44.02 | 76.072 | |
| 12,600.00 | 12,420.43 | 9,450.00 | 9,064.35 | 43.69 | 32.75 | 0.04 | 268.77 | -405.91 | 3,365.38 | 3,321.35 | 44.03 | 76.436 | |
| 12,650.00 | 12,437.07 | 9,450.00 | 9,064.35 | 43.74 | 32.75 | 0.04 | 268.77 | -405.91 | 3,378.82 | 3,334.77 | 44.05 | 76.703 | |
| 12,700.00 | 12,449.55 | 9,472.28 | 9,065.72 | 43.78 | 32.84 | 0.02 | 290.99 | -406.99 | 3,388.43 | 3,344.29 | 44.14 | 76.759 | |
| 12,719.48 | 12,453.25 | 9,477.11 | 9,065.97 | 43.80 | 32.86 | 0.02 | 295.80 | -407.19 | 3,391.18 | 3,347.01 | 44.17 | 76.777 | |
| 12,744.48 | 12,457.59 | 9,500.00 | 9,066.83 | 43.83 | 32.96 | 0.01 | 318.66 | -407.95 | 3,394.57 | 3,350.32 | 44.25 | 76.716 | |
| 12,750.00 | 12,458.54 | 9,500.00 | 9,066.83 | 43.84 | 32.96 | 0.01 | 318.66 | -407.95 | 3,395.25 | 3,351.00 | 44.25 | 76.723 | |
| 12,800.00 | 12,465.64 | 9,500.00 | 9,066.83 | 43.92 | 32.96 | 0.01 | 318.66 | -407.95 | 3,400.45 | 3,356.15 | 44.31 | 76.747 | |
| 12,850.00 | 12,470.15 | 9,500.00 | 9,066.83 | 44.00 | 32.96 | 0.01 | 318.66 | -407.95 | 3,403.77 | 3,359.39 | 44.38 | 76.694 | |
| 12,900.00 | 12,472.04 | 9,531.47 | 9,067.27 | 44.09 | 33.09 | 0.00 | 350.12 | -408.51 | 3,404.98 | 3,360.45 | 44.53 | 76.472 | |
| 12,911.17 | 12,472.10 | 9,531.47 | 9,067.27 | 44.11 | 33.09 | 0.00 | 350.12 | -408.51 | 3,404.94 | 3,360.39 | 44.55 | 76.435 | |
| 12,931.12 | 12,472.10 | 9,537.95 | 9,067.27 | 44.16 | 33.12 | 0.00 | 343.64 | -408.45 | 3,404.84 | 3,360.23 | 44.61 | 76.324 | |
| 13,000.00 | 12,472.10 | 9,606.13 | 9,067.26 | 44.31 | 33.43 | 0.00 | 412.52 | -409.07 | 3,404.84 | 3,359.97 | 44.87 | 75.876 | |
| 13,100.00 | 12,472.10 | 9,706.13 | 9,067.26 | 44.57 | 33.94 | 0.00 | 512.52 | -409.96 | 3,404.84 | 3,359.54 | 45.31 | 75.154 | |
| 13,200.00 | 12,472.10 | 9,806.13 | 9,067.25 | 44.88 | 34.52 | 0.00 | 612.51 | -410.86 | 3,404.85 | 3,359.06 | 45.79 | 74.360 | |
| 13,300.00 | 12,472.09 | 9,906.13 | 9,067.24 | 45.24 | 35.16 | 0.00 | 712.51 | -411.75 | 3,404.85 | 3,358.53 | 46.32 | 73.504 | |
| 13,400.00 | 12,472.09 | 10,006.13 | 9,067.24 | 45.63 | 35.86 | 0.00 | 812.50 | -412.65 | 3,404.85 | 3,357.95 | 46.90 | 72.594 | |
| 13,500.00 | 12,472.09 | 10,106.13 | 9,067.23 | 46.07 | 36.62 | 0.00 | 912.50 | -413.55 | 3,404.86 | 3,357.33 | 47.53 | 71.636 | |
| 13,600.00 | 12,472.09 | 10,206.13 | 9,067.22 | 46.54 | 37.44 | 0.00 | 1,012.50 | -414.44 | 3,404.86 | 3,356.66 | 48.20 | 70.639 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 024H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG — **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 | 12,472.08 | 10,306.13 | 9,067.22 | 47.05 | 38.31 | 0.00 | 1,112.49 | -415.34 | 3,404.87 | 3,355.95 | 48.91 | 69.611 | |
| 13,800.00 | 12,472.08 | 10,406.13 | 9,067.21 | 47.60 | 39.24 | 0.00 | 1,212.49 | -416.23 | 3,404.87 | 3,355.20 | 49.67 | 68.556 | |
| 13,900.00 | 12,472.08 | 10,506.13 | 9,067.21 | 48.19 | 40.20 | 0.00 | 1,312.48 | -417.13 | 3,404.87 | 3,354.42 | 50.45 | 67.483 | |
| 14,000.00 | 12,472.08 | 10,606.13 | 9,067.20 | 48.81 | 41.21 | 0.00 | 1,412.48 | -418.02 | 3,404.88 | 3,353.60 | 51.28 | 66.397 | |
| 14,100.00 | 12,472.07 | 10,706.13 | 9,067.19 | 49.47 | 42.27 | 0.00 | 1,512.48 | -418.92 | 3,404.88 | 3,352.74 | 52.14 | 65.303 | |
| 14,200.00 | 12,472.07 | 10,806.13 | 9,067.19 | 50.15 | 43.36 | 0.00 | 1,612.47 | -419.81 | 3,404.88 | 3,351.85 | 53.03 | 64.205 | |
| 14,300.00 | 12,472.07 | 10,906.13 | 9,067.18 | 50.87 | 44.48 | 0.00 | 1,712.47 | -420.71 | 3,404.89 | 3,350.93 | 53.95 | 63.108 | |
| 14,400.00 | 12,472.07 | 11,006.13 | 9,067.17 | 51.62 | 45.64 | 0.00 | 1,812.46 | -421.60 | 3,404.89 | 3,349.99 | 54.90 | 62.015 | |
| 14,500.00 | 12,472.06 | 11,106.13 | 9,067.17 | 52.40 | 46.82 | 0.00 | 1,912.46 | -422.50 | 3,404.90 | 3,349.01 | 55.88 | 60.929 | |
| 14,600.00 | 12,472.06 | 11,206.13 | 9,067.16 | 53.20 | 48.04 | 0.00 | 2,012.46 | -423.39 | 3,404.90 | 3,348.01 | 56.89 | 59.854 | |
| 14,700.00 | 12,472.06 | 11,306.13 | 9,067.16 | 54.03 | 49.28 | 0.00 | 2,112.45 | -424.29 | 3,404.90 | 3,346.99 | 57.92 | 58.791 | |
| 14,800.00 | 12,472.06 | 11,406.13 | 9,067.15 | 54.88 | 50.54 | 0.00 | 2,212.45 | -425.18 | 3,404.91 | 3,345.94 | 58.97 | 57.743 | |
| 14,900.00 | 12,472.06 | 11,506.13 | 9,067.14 | 55.76 | 51.83 | 0.00 | 2,312.44 | -426.08 | 3,404.91 | 3,344.87 | 60.04 | 56.711 | |
| 15,000.00 | 12,472.05 | 11,606.13 | 9,067.14 | 56.66 | 53.14 | 0.00 | 2,412.44 | -426.97 | 3,404.92 | 3,343.78 | 61.13 | 55.695 | |
| 15,100.00 | 12,472.05 | 11,706.13 | 9,067.13 | 57.59 | 54.46 | 0.00 | 2,512.44 | -427.87 | 3,404.92 | 3,342.67 | 62.25 | 54.699 | |
| 15,200.00 | 12,472.05 | 11,806.13 | 9,067.13 | 58.53 | 55.81 | 0.00 | 2,612.43 | -428.77 | 3,404.92 | 3,341.54 | 63.38 | 53.722 | |
| 15,300.00 | 12,472.05 | 11,906.13 | 9,067.12 | 59.49 | 57.17 | 0.00 | 2,712.43 | -429.66 | 3,404.93 | 3,340.40 | 64.53 | 52.764 | |
| 15,400.00 | 12,472.04 | 12,006.13 | 9,067.11 | 60.47 | 58.54 | 0.00 | 2,812.42 | -430.56 | 3,404.93 | 3,339.23 | 65.70 | 51.827 | |
| 15,500.00 | 12,472.04 | 12,106.13 | 9,067.11 | 61.47 | 59.93 | 0.00 | 2,912.42 | -431.45 | 3,404.93 | 3,338.05 | 66.88 | 50.910 | |
| 15,600.00 | 12,472.04 | 12,206.13 | 9,067.10 | 62.49 | 61.33 | 0.00 | 3,012.42 | -432.35 | 3,404.94 | 3,336.86 | 68.08 | 50.015 | |
| 15,700.00 | 12,472.04 | 12,306.13 | 9,067.09 | 63.52 | 62.75 | 0.00 | 3,112.41 | -433.24 | 3,404.94 | 3,335.65 | 69.29 | 49.140 | |
| 15,800.00 | 12,472.03 | 12,406.13 | 9,067.09 | 64.57 | 64.18 | 0.00 | 3,212.41 | -434.14 | 3,404.95 | 3,334.43 | 70.52 | 48.286 | |
| 15,900.00 | 12,472.03 | 12,506.13 | 9,067.08 | 65.63 | 65.62 | 0.00 | 3,312.40 | -435.03 | 3,404.95 | 3,333.19 | 71.76 | 47.452 | |
| 16,000.00 | 12,472.03 | 12,606.13 | 9,067.08 | 66.71 | 67.06 | 0.00 | 3,412.40 | -435.93 | 3,404.95 | 3,331.95 | 73.01 | 46.639 | |
| 16,100.00 | 12,472.03 | 12,706.13 | 9,067.07 | 67.80 | 68.52 | 0.00 | 3,512.40 | -436.82 | 3,404.96 | 3,330.69 | 74.27 | 45.846 | |
| 16,200.00 | 12,472.02 | 12,806.13 | 9,067.06 | 68.90 | 69.99 | 0.00 | 3,612.39 | -437.72 | 3,404.96 | 3,329.42 | 75.54 | 45.074 | |
| 16,300.00 | 12,472.02 | 12,906.13 | 9,067.06 | 70.02 | 71.46 | 0.00 | 3,712.39 | -438.61 | 3,404.96 | 3,328.14 | 76.83 | 44.320 | |
| 16,400.00 | 12,472.02 | 13,006.13 | 9,067.05 | 71.14 | 72.95 | 0.00 | 3,812.38 | -439.51 | 3,404.97 | 3,326.85 | 78.12 | 43.586 | |
| 16,500.00 | 12,472.02 | 13,106.13 | 9,067.05 | 72.28 | 74.44 | 0.00 | 3,912.38 | -440.40 | 3,404.97 | 3,325.55 | 79.42 | 42.870 | |
| 16,600.00 | 12,472.02 | 13,206.13 | 9,067.04 | 73.43 | 75.93 | 0.00 | 4,012.38 | -441.30 | 3,404.98 | 3,324.24 | 80.74 | 42.173 | |
| 16,700.00 | 12,472.01 | 13,306.13 | 9,067.03 | 74.58 | 77.44 | 0.00 | 4,112.37 | -442.20 | 3,404.98 | 3,322.92 | 82.06 | 41.494 | |
| 16,800.00 | 12,472.01 | 13,406.13 | 9,067.03 | 75.75 | 78.95 | 0.00 | 4,212.37 | -443.09 | 3,404.98 | 3,321.59 | 83.39 | 40.832 | |
| 16,900.00 | 12,472.01 | 13,506.13 | 9,067.02 | 76.93 | 80.47 | 0.00 | 4,312.36 | -443.99 | 3,404.99 | 3,320.26 | 84.73 | 40.186 | |
| 17,000.00 | 12,472.01 | 13,606.13 | 9,067.01 | 78.11 | 81.99 | 0.00 | 4,412.36 | -444.88 | 3,404.99 | 3,318.92 | 86.07 | 39.560 | |
| 17,100.00 | 12,472.00 | 13,706.13 | 9,067.01 | 79.30 | 83.51 | 0.00 | 4,512.36 | -445.78 | 3,404.99 | 3,317.57 | 87.43 | 38.948 | |
| 17,200.00 | 12,472.00 | 13,793.87 | 9,067.00 | 80.51 | 84.86 | 0.00 | 4,612.35 | -446.67 | 3,405.00 | 3,316.30 | 88.70 | 38.390 | |
| 17,236.44 | 12,472.00 | 13,830.31 | 9,067.00 | 80.94 | 85.42 | 0.00 | 4,648.79 | -447.00 | 3,405.00 | 3,315.81 | 89.19 | 38.176 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 201H - OH - Prelim Plan A — Offset Site Error: 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG — 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 | 57.00 | 57.00 | 0.00 | 0.07 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | | | | |
| 100.00 | 100.00 | 157.00 | 157.00 | 0.13 | 0.33 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,499.53 | 0.46 | 7,627.844 | |
| 200.00 | 200.00 | 257.00 | 257.00 | 0.49 | 0.69 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,498.81 | 1.18 | 2,976.721 | |
| 300.00 | 300.00 | 357.00 | 357.00 | 0.84 | 1.05 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,498.10 | 1.89 | 1,849.175 | |
| 400.00 | 400.00 | 457.00 | 457.00 | 1.20 | 1.41 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,497.38 | 2.61 | 1,341.160 | |
| 500.00 | 500.00 | 557.00 | 557.00 | 1.56 | 1.77 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,496.66 | 3.33 | 1,052.117 | |
| 600.00 | 600.00 | 657.00 | 657.00 | 1.92 | 2.12 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,495.95 | 4.04 | 865.572 | |
| 700.00 | 700.00 | 757.00 | 757.00 | 2.28 | 2.48 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,495.23 | 4.76 | 735.214 | |
| 702.48 | 702.48 | 759.48 | 759.48 | 2.29 | 2.49 | -91.93 | -118.00 | -3,498.00 | 3,499.99 | 3,495.21 | 4.78 | 732.478 | CC |
| 800.00 | 800.00 | 830.23 | 830.23 | 2.64 | 2.74 | -91.93 | -118.03 | -3,498.11 | 3,500.21 | 3,494.83 | 5.38 | 650.830 | ES |
| 900.00 | 900.00 | 900.00 | 899.99 | 3.00 | 2.98 | -91.94 | -118.38 | -3,499.25 | 3,501.72 | 3,495.74 | 5.98 | 585.727 | |
| 1,000.00 | 1,000.00 | 936.23 | 936.20 | 3.35 | 3.11 | -91.94 | -118.70 | -3,500.33 | 3,504.42 | 3,497.96 | 6.46 | 542.611 | |
| 1,100.00 | 1,100.00 | 1,000.00 | 999.91 | 3.71 | 3.33 | -91.95 | -119.51 | -3,503.01 | 3,508.57 | 3,501.54 | 7.03 | 498.992 | |
| 1,200.00 | 1,200.00 | 1,042.02 | 1,041.85 | 4.07 | 3.47 | -91.96 | -120.21 | -3,505.34 | 3,513.99 | 3,506.46 | 7.53 | 466.686 | |
| 1,300.00 | 1,299.99 | 1,100.00 | 1,099.69 | 4.41 | 3.67 | 38.17 | -121.40 | -3,509.27 | 3,520.10 | 3,512.04 | 8.07 | 436.360 | |
| 1,400.00 | 1,399.96 | 1,147.57 | 1,147.09 | 4.75 | 3.84 | 38.13 | -122.56 | -3,513.13 | 3,526.17 | 3,517.61 | 8.56 | 412.139 | |
| 1,500.00 | 1,499.86 | 1,200.54 | 1,199.81 | 5.08 | 4.03 | 38.10 | -124.05 | -3,518.09 | 3,532.20 | 3,523.13 | 9.07 | 389.613 | |
| 1,600.00 | 1,599.68 | 1,300.39 | 1,299.11 | 5.43 | 4.39 | 38.08 | -127.06 | -3,528.08 | 3,537.52 | 3,527.77 | 9.75 | 362.683 | |
| 1,700.00 | 1,699.37 | 1,400.29 | 1,398.46 | 5.77 | 4.76 | 38.09 | -130.07 | -3,538.08 | 3,541.47 | 3,531.02 | 10.45 | 338.948 | |
| 1,800.00 | 1,798.90 | 1,500.20 | 1,497.82 | 6.12 | 5.13 | 38.13 | -133.08 | -3,548.08 | 3,544.05 | 3,532.90 | 11.15 | 317.874 | |
| 1,900.00 | 1,898.26 | 1,600.10 | 1,597.17 | 6.48 | 5.51 | 38.19 | -136.10 | -3,558.08 | 3,545.26 | 3,533.40 | 11.86 | 299.033 | |
| 2,000.00 | 1,997.51 | 1,699.98 | 1,696.51 | 6.84 | 5.89 | 38.27 | -139.11 | -3,568.08 | 3,545.79 | 3,533.22 | 12.57 | 282.142 | |
| 2,100.00 | 2,096.77 | 1,800.14 | 1,795.84 | 7.20 | 6.27 | 38.35 | -142.12 | -3,578.07 | 3,546.32 | 3,533.04 | 13.28 | 266.956 | |
| 2,200.00 | 2,196.02 | 1,900.26 | 1,895.17 | 7.57 | 6.65 | 38.43 | -145.13 | -3,588.07 | 3,546.87 | 3,532.86 | 14.00 | 253.264 | |
| 2,300.00 | 2,295.28 | 2,000.38 | 1,994.51 | 7.94 | 7.04 | 38.51 | -148.14 | -3,598.07 | 3,547.42 | 3,532.69 | 14.73 | 240.861 | |
| 2,400.00 | 2,394.53 | 2,100.50 | 2,093.84 | 8.32 | 7.42 | 38.59 | -151.15 | -3,608.06 | 3,547.97 | 3,532.52 | 15.45 | 229.580 | |
| 2,500.00 | 2,493.79 | 2,200.62 | 2,193.17 | 8.69 | 7.81 | 38.67 | -154.16 | -3,618.06 | 3,548.53 | 3,532.35 | 16.18 | 219.281 | |
| 2,600.00 | 2,593.04 | 2,300.74 | 2,292.50 | 9.07 | 8.20 | 38.74 | -157.17 | -3,628.06 | 3,549.10 | 3,532.19 | 16.91 | 209.843 | |
| 2,700.00 | 2,692.30 | 2,399.14 | 2,391.84 | 9.45 | 8.58 | 38.82 | -160.18 | -3,638.05 | 3,549.68 | 3,532.04 | 17.64 | 201.239 | |
| 2,800.00 | 2,791.55 | 2,500.99 | 2,491.17 | 9.83 | 8.96 | 38.90 | -163.20 | -3,648.05 | 3,550.26 | 3,531.89 | 18.38 | 193.165 | |
| 2,900.00 | 2,890.81 | 2,601.11 | 2,590.50 | 10.21 | 9.37 | 38.98 | -166.21 | -3,658.05 | 3,550.85 | 3,531.74 | 19.11 | 185.764 | |
| 3,000.00 | 2,990.06 | 2,701.23 | 2,689.83 | 10.60 | 9.76 | 39.06 | -169.22 | -3,668.04 | 3,551.45 | 3,531.60 | 19.85 | 178.899 | |
| 3,100.00 | 3,089.32 | 2,798.65 | 2,789.17 | 10.98 | 10.14 | 39.14 | -172.23 | -3,678.04 | 3,552.05 | 3,531.47 | 20.58 | 172.599 | |
| 3,200.00 | 3,188.57 | 2,901.47 | 2,888.50 | 11.37 | 10.54 | 39.21 | -175.24 | -3,688.04 | 3,552.66 | 3,531.34 | 21.33 | 166.567 | |
| 3,300.00 | 3,287.82 | 3,001.59 | 2,987.83 | 11.75 | 10.93 | 39.29 | -178.25 | -3,698.03 | 3,553.28 | 3,531.21 | 22.07 | 161.009 | |
| 3,400.00 | 3,387.08 | 3,101.71 | 3,087.16 | 12.14 | 11.33 | 39.37 | -181.26 | -3,708.03 | 3,553.90 | 3,531.09 | 22.81 | 155.806 | |
| 3,500.00 | 3,486.33 | 3,201.83 | 3,186.50 | 12.53 | 11.72 | 39.45 | -184.27 | -3,718.03 | 3,554.53 | 3,530.98 | 23.55 | 150.925 | |
| 3,600.00 | 3,585.59 | 3,301.95 | 3,285.83 | 12.91 | 12.11 | 39.53 | -187.28 | -3,728.02 | 3,555.17 | 3,530.88 | 24.29 | 146.338 | |
| 3,700.00 | 3,684.84 | 3,402.07 | 3,385.16 | 13.30 | 12.51 | 39.61 | -190.30 | -3,738.02 | 3,555.81 | 3,530.78 | 25.04 | 142.020 | |
| 3,800.00 | 3,784.10 | 3,502.19 | 3,484.49 | 13.69 | 12.90 | 39.68 | -193.31 | -3,748.02 | 3,556.46 | 3,530.68 | 25.78 | 137.946 | |
| 3,900.00 | 3,883.35 | 3,597.69 | 3,583.83 | 14.08 | 13.28 | 39.76 | -196.32 | -3,758.01 | 3,557.12 | 3,530.61 | 26.51 | 134.185 | |
| 4,000.00 | 3,982.61 | 3,702.43 | 3,683.16 | 14.47 | 13.69 | 39.84 | -199.33 | -3,768.01 | 3,557.78 | 3,530.51 | 27.27 | 130.459 | |
| 4,100.00 | 4,081.86 | 3,802.55 | 3,782.49 | 14.86 | 14.08 | 39.92 | -202.34 | -3,778.01 | 3,558.45 | 3,530.44 | 28.02 | 127.010 | |
| 4,200.00 | 4,181.12 | 3,902.67 | 3,881.82 | 15.25 | 14.48 | 40.00 | -205.35 | -3,788.00 | 3,559.13 | 3,530.37 | 28.76 | 123.738 | |
| 4,300.00 | 4,280.37 | 4,002.79 | 3,981.16 | 15.65 | 14.87 | 40.07 | -208.36 | -3,798.00 | 3,559.81 | 3,530.30 | 29.51 | 120.630 | |
| 4,400.00 | 4,379.63 | 4,102.91 | 4,080.49 | 16.04 | 15.27 | 40.15 | -211.37 | -3,808.00 | 3,560.50 | 3,530.24 | 30.26 | 117.674 | |
| 4,500.00 | 4,478.88 | 4,203.03 | 4,179.82 | 16.43 | 15.66 | 40.23 | -214.38 | -3,817.99 | 3,561.20 | 3,530.19 | 31.01 | 114.859 | |
| 4,600.00 | 4,578.13 | 4,296.85 | 4,279.16 | 16.82 | 16.03 | 40.31 | -217.39 | -3,827.99 | 3,561.90 | 3,530.17 | 31.73 | 112.257 | |
| 4,700.00 | 4,677.39 | 4,403.27 | 4,378.49 | 17.21 | 16.45 | 40.39 | -220.41 | -3,837.99 | 3,562.61 | 3,530.11 | 32.50 | 109.613 | |
| 4,800.00 | 4,776.64 | 4,503.39 | 4,477.82 | 17.61 | 16.85 | 40.46 | -223.42 | -3,847.98 | 3,563.33 | 3,530.08 | 33.25 | 107.166 | |
| 4,900.00 | 4,875.90 | 4,603.51 | 4,577.15 | 18.00 | 17.24 | 40.54 | -226.43 | -3,857.98 | 3,564.05 | 3,530.05 | 34.00 | 104.826 | |
| 5,000.00 | 4,975.15 | 4,703.63 | 4,676.49 | 18.39 | 17.64 | 40.62 | -229.44 | -3,867.98 | 3,564.78 | 3,530.03 | 34.75 | 102.585 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 201H - OH - Prelim Plan A — Offset Site Error: 0.00 usft

Survey Program: 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG — 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 | 5,074.41 | 4,803.75 | 4,775.82 | 18.79 | 18.03 | 40.70 | -232.45 | -3,877.97 | 3,565.51 | 3,530.02 | 35.50 | 100.439 | |
| 5,200.00 | 5,173.66 | 4,903.87 | 4,875.15 | 19.18 | 18.43 | 40.78 | -235.46 | -3,887.97 | 3,566.26 | 3,530.01 | 36.25 | 98.380 | |
| 5,300.00 | 5,272.92 | 5,003.99 | 4,974.48 | 19.57 | 18.82 | 40.85 | -238.47 | -3,897.97 | 3,567.01 | 3,530.01 | 37.00 | 96.405 | |
| 5,400.00 | 5,372.17 | 5,095.89 | 5,073.82 | 19.97 | 19.18 | 40.93 | -241.48 | -3,907.96 | 3,567.76 | 3,530.04 | 37.72 | 94.583 | |
| 5,500.00 | 5,471.43 | 5,204.23 | 5,173.15 | 20.36 | 19.61 | 41.01 | -244.49 | -3,917.96 | 3,568.52 | 3,530.02 | 38.50 | 92.683 | |
| 5,522.48 | 5,493.73 | 5,218.22 | 5,195.47 | 20.45 | 19.67 | 41.03 | -245.17 | -3,920.21 | 3,568.70 | 3,530.06 | 38.64 | 92.358 | |
| 5,600.00 | 5,570.74 | 5,304.34 | 5,272.49 | 20.75 | 20.01 | 41.09 | -247.51 | -3,927.96 | 3,569.69 | 3,530.44 | 39.25 | 90.942 | |
| 5,700.00 | 5,670.24 | 5,404.43 | 5,371.86 | 21.14 | 20.40 | 41.16 | -250.52 | -3,937.96 | 3,572.14 | 3,532.15 | 39.99 | 89.328 | |
| 5,800.00 | 5,769.90 | 5,495.47 | 5,471.21 | 21.51 | 20.60 | 41.22 | -253.53 | -3,947.96 | 3,575.90 | 3,535.37 | 40.53 | 88.229 | |
| 5,900.00 | 5,869.69 | 5,604.66 | 5,570.53 | 21.88 | 20.67 | 41.27 | -256.54 | -3,957.95 | 3,580.98 | 3,540.07 | 40.92 | 87.521 | |
| 6,000.00 | 5,969.57 | 5,695.13 | 5,669.78 | 22.24 | 20.73 | 41.31 | -259.55 | -3,967.94 | 3,587.37 | 3,546.08 | 41.29 | 86.880 | |
| 6,100.00 | 6,069.53 | 5,805.17 | 5,768.93 | 22.59 | 20.81 | 41.34 | -262.55 | -3,977.92 | 3,595.07 | 3,553.39 | 41.67 | 86.269 | |
| 6,200.00 | 6,169.52 | 5,905.61 | 5,867.94 | 22.94 | 20.89 | 41.36 | -265.56 | -3,987.88 | 3,604.07 | 3,562.02 | 42.05 | 85.703 | |
| 6,222.48 | 6,191.99 | 5,916.75 | 5,890.18 | 23.01 | 20.90 | -88.82 | -266.23 | -3,990.12 | 3,606.27 | 3,564.14 | 42.13 | 85.594 | |
| 6,300.00 | 6,269.52 | 6,006.15 | 5,966.86 | 23.26 | 20.97 | -88.86 | -268.55 | -3,997.84 | 3,613.99 | 3,571.57 | 42.42 | 85.200 | |
| 6,400.00 | 6,369.52 | 6,106.70 | 6,065.76 | 23.58 | 21.07 | -88.91 | -271.55 | -4,007.79 | 3,623.94 | 3,581.15 | 42.79 | 84.696 | |
| 6,500.00 | 6,469.52 | 6,192.75 | 6,164.67 | 23.90 | 21.16 | -88.96 | -274.55 | -4,017.74 | 3,633.90 | 3,590.74 | 43.16 | 84.202 | |
| 6,600.00 | 6,569.52 | 6,307.80 | 6,263.58 | 24.22 | 21.28 | -89.01 | -277.55 | -4,027.70 | 3,643.86 | 3,600.31 | 43.55 | 83.669 | |
| 6,700.00 | 6,669.52 | 6,408.34 | 6,362.49 | 24.54 | 21.39 | -89.06 | -280.55 | -4,037.65 | 3,653.82 | 3,609.87 | 43.94 | 83.147 | |
| 6,800.00 | 6,769.52 | 6,508.89 | 6,461.39 | 24.87 | 21.52 | -89.11 | -283.54 | -4,047.61 | 3,663.78 | 3,619.44 | 44.34 | 82.621 | |
| 6,900.00 | 6,869.52 | 6,609.44 | 6,560.30 | 25.19 | 21.65 | -89.16 | -286.54 | -4,057.56 | 3,673.75 | 3,629.00 | 44.75 | 82.090 | |
| 7,000.00 | 6,969.52 | 6,690.01 | 6,659.21 | 25.52 | 21.75 | -89.21 | -289.54 | -4,067.51 | 3,683.72 | 3,638.57 | 45.15 | 81.589 | |
| 7,100.00 | 7,069.52 | 6,789.47 | 6,758.12 | 25.85 | 21.89 | -89.26 | -292.54 | -4,077.47 | 3,693.69 | 3,648.12 | 45.57 | 81.055 | |
| 7,200.00 | 7,169.52 | 6,888.92 | 6,857.02 | 26.18 | 22.04 | -89.31 | -295.54 | -4,087.42 | 3,703.67 | 3,657.67 | 46.00 | 80.519 | |
| 7,300.00 | 7,269.52 | 6,988.37 | 6,955.93 | 26.50 | 22.19 | -89.36 | -298.53 | -4,097.38 | 3,713.65 | 3,667.21 | 46.43 | 79.982 | |
| 7,400.00 | 7,369.52 | 7,087.82 | 7,054.84 | 26.83 | 22.35 | -89.41 | -301.53 | -4,107.33 | 3,723.63 | 3,676.75 | 46.87 | 79.443 | |
| 7,500.00 | 7,469.52 | 7,187.27 | 7,153.74 | 27.16 | 22.51 | -89.45 | -304.53 | -4,117.28 | 3,733.61 | 3,686.29 | 47.32 | 78.903 | |
| 7,600.00 | 7,569.52 | 7,286.73 | 7,252.65 | 27.49 | 22.68 | -89.50 | -307.53 | -4,127.24 | 3,743.59 | 3,695.82 | 47.77 | 78.362 | |
| 7,700.00 | 7,669.52 | 7,386.18 | 7,351.56 | 27.83 | 22.85 | -89.55 | -310.53 | -4,137.19 | 3,753.58 | 3,705.35 | 48.23 | 77.822 | |
| 7,800.00 | 7,769.52 | 7,485.63 | 7,450.47 | 28.16 | 23.03 | -89.59 | -313.53 | -4,147.14 | 3,763.57 | 3,714.87 | 48.70 | 77.282 | |
| 7,900.00 | 7,869.52 | 7,585.08 | 7,549.37 | 28.49 | 23.22 | -89.64 | -316.52 | -4,157.10 | 3,773.57 | 3,724.39 | 49.17 | 76.743 | |
| 8,000.00 | 7,969.52 | 7,684.54 | 7,648.28 | 28.82 | 23.41 | -89.69 | -319.52 | -4,167.05 | 3,783.56 | 3,733.91 | 49.65 | 76.205 | |
| 8,100.00 | 8,069.52 | 7,783.99 | 7,747.19 | 29.16 | 23.60 | -89.73 | -322.52 | -4,177.01 | 3,793.56 | 3,743.43 | 50.13 | 75.668 | |
| 8,200.00 | 8,169.52 | 7,883.44 | 7,846.10 | 29.49 | 23.80 | -89.78 | -325.52 | -4,186.96 | 3,803.56 | 3,752.94 | 50.62 | 75.133 | |
| 8,300.00 | 8,269.52 | 7,982.89 | 7,945.00 | 29.83 | 24.01 | -89.83 | -328.52 | -4,196.91 | 3,813.56 | 3,762.44 | 51.12 | 74.601 | |
| 8,400.00 | 8,369.52 | 8,082.34 | 8,043.91 | 30.16 | 24.22 | -89.87 | -331.51 | -4,206.87 | 3,823.57 | 3,771.95 | 51.62 | 74.071 | |
| 8,500.00 | 8,469.52 | 8,181.80 | 8,142.82 | 30.50 | 24.43 | -89.92 | -334.51 | -4,216.82 | 3,833.58 | 3,781.45 | 52.13 | 73.543 | |
| 8,600.00 | 8,569.52 | 8,666.67 | 8,626.52 | 30.84 | 25.38 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,789.22 | 53.28 | 72.116 | |
| 8,700.00 | 8,669.52 | 8,766.67 | 8,726.52 | 31.17 | 25.54 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,788.71 | 53.79 | 71.432 | |
| 8,800.00 | 8,769.52 | 8,866.67 | 8,826.52 | 31.51 | 25.69 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,788.19 | 54.31 | 70.756 | |
| 8,900.00 | 8,869.52 | 8,966.67 | 8,926.52 | 31.85 | 25.86 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,787.68 | 54.83 | 70.087 | |
| 9,000.00 | 8,969.52 | 9,066.67 | 9,026.52 | 32.19 | 26.02 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,787.15 | 55.35 | 69.424 | |
| 9,100.00 | 9,069.52 | 9,166.67 | 9,126.52 | 32.53 | 26.19 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,786.63 | 55.88 | 68.768 | |
| 9,200.00 | 9,169.52 | 9,266.67 | 9,226.52 | 32.87 | 26.37 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,786.09 | 56.41 | 68.120 | |
| 9,300.00 | 9,269.52 | 9,366.67 | 9,326.52 | 33.21 | 26.55 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,785.56 | 56.94 | 67.478 | |
| 9,400.00 | 9,369.52 | 9,466.67 | 9,426.52 | 33.55 | 26.73 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,785.02 | 57.48 | 66.844 | |
| 9,500.00 | 9,469.52 | 9,566.67 | 9,526.52 | 33.89 | 26.91 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,784.47 | 58.03 | 66.218 | |
| 9,600.00 | 9,569.52 | 9,666.67 | 9,626.52 | 34.23 | 27.10 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,783.92 | 58.58 | 65.598 | |
| 9,700.00 | 9,669.52 | 9,766.67 | 9,726.52 | 34.57 | 27.29 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,783.37 | 59.13 | 64.986 | |
| 9,800.00 | 9,769.52 | 9,866.67 | 9,826.52 | 34.91 | 27.49 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,782.82 | 59.68 | 64.381 | |
| 9,900.00 | 9,869.52 | 9,966.67 | 9,926.52 | 35.25 | 27.69 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,782.26 | 60.24 | 63.784 | |
| 10,000.00 | 9,969.52 | 10,066.67 | 10,026.52 | 35.60 | 27.89 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,781.70 | 60.81 | 63.193 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,100.00 | 10,069.52 | 10,166.67 | 10,126.52 | 35.94 | 28.09 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,781.13 | 61.37 | 62.611 | |
| 10,200.00 | 10,169.52 | 10,266.67 | 10,226.52 | 36.28 | 28.30 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,780.56 | 61.94 | 62.035 | |
| 10,300.00 | 10,269.52 | 10,366.67 | 10,326.52 | 36.63 | 28.51 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,779.99 | 62.51 | 61.467 | |
| 10,400.00 | 10,369.52 | 10,466.67 | 10,426.52 | 36.97 | 28.72 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,779.41 | 63.09 | 60.906 | |
| 10,500.00 | 10,469.52 | 10,566.67 | 10,526.52 | 37.31 | 28.94 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,778.83 | 63.67 | 60.353 | |
| 10,600.00 | 10,569.52 | 10,666.67 | 10,626.52 | 37.66 | 29.16 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,778.25 | 64.25 | 59.806 | |
| 10,700.00 | 10,669.52 | 10,766.67 | 10,726.52 | 38.00 | 29.38 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,777.67 | 64.83 | 59.267 | |
| 10,800.00 | 10,769.52 | 10,866.67 | 10,826.52 | 38.35 | 29.61 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,777.08 | 65.42 | 58.735 | |
| 10,900.00 | 10,869.52 | 10,966.67 | 10,926.52 | 38.69 | 29.84 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,776.49 | 66.01 | 58.209 | |
| 11,000.00 | 10,969.52 | 11,066.67 | 11,026.52 | 39.04 | 30.07 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,775.90 | 66.60 | 57.691 | |
| 11,100.00 | 11,069.52 | 11,166.67 | 11,126.52 | 39.38 | 30.30 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,775.30 | 67.20 | 57.180 | |
| 11,200.00 | 11,169.52 | 11,266.67 | 11,226.52 | 39.73 | 30.53 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,774.70 | 67.80 | 56.675 | |
| 11,300.00 | 11,269.52 | 11,366.67 | 11,326.52 | 40.07 | 30.77 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,774.10 | 68.40 | 56.178 | |
| 11,400.00 | 11,369.52 | 11,466.67 | 11,426.52 | 40.42 | 31.01 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,773.50 | 69.00 | 55.687 | |
| 11,500.00 | 11,469.52 | 11,566.67 | 11,526.52 | 40.77 | 31.25 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,772.89 | 69.61 | 55.203 | |
| 11,600.00 | 11,569.52 | 11,666.67 | 11,626.52 | 41.11 | 31.50 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,772.29 | 70.21 | 54.725 | |
| 11,700.00 | 11,669.52 | 11,766.67 | 11,726.52 | 41.46 | 31.74 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,771.68 | 70.82 | 54.254 | |
| 11,800.00 | 11,769.52 | 11,866.67 | 11,826.52 | 41.81 | 31.99 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,771.06 | 71.44 | 53.789 | |
| 11,810.12 | 11,779.64 | 11,876.79 | 11,836.64 | 41.84 | 32.02 | -90.04 | -343.00 | -4,245.00 | 3,842.50 | 3,771.00 | 71.50 | 53.742 | |
| 11,900.00 | 11,869.52 | 11,966.19 | 11,926.03 | 42.15 | 32.24 | -90.04 | -342.78 | -4,245.00 | 3,842.50 | 3,770.45 | 72.05 | 53.332 | |
| 11,919.48 | 11,889.00 | 11,985.07 | 11,944.89 | 42.22 | 32.28 | -90.03 | -341.94 | -4,245.01 | 3,842.51 | 3,770.34 | 72.17 | 53.245 | |
| 11,950.00 | 11,919.50 | 12,014.55 | 11,974.26 | 42.33 | 32.35 | -89.49 | -339.39 | -4,245.02 | 3,842.51 | 3,770.17 | 72.35 | 53.112 | |
| 12,000.00 | 11,969.25 | 12,062.66 | 12,021.78 | 42.49 | 32.46 | -89.45 | -331.99 | -4,245.06 | 3,842.51 | 3,769.88 | 72.63 | 52.903 | |
| 12,050.00 | 12,018.39 | 12,110.55 | 12,068.31 | 42.65 | 32.57 | -89.41 | -320.69 | -4,245.12 | 3,842.49 | 3,769.59 | 72.90 | 52.706 | |
| 12,100.00 | 12,066.55 | 12,158.25 | 12,113.55 | 42.81 | 32.66 | -89.38 | -305.62 | -4,245.20 | 3,842.46 | 3,769.30 | 73.16 | 52.521 | |
| 12,150.00 | 12,113.35 | 12,205.77 | 12,157.22 | 42.95 | 32.75 | -89.35 | -286.92 | -4,245.29 | 3,842.42 | 3,769.01 | 73.40 | 52.348 | |
| 12,200.00 | 12,158.45 | 12,253.13 | 12,199.05 | 43.08 | 32.83 | -89.33 | -264.75 | -4,245.41 | 3,842.35 | 3,768.72 | 73.63 | 52.184 | |
| 12,250.00 | 12,201.49 | 12,300.34 | 12,238.78 | 43.20 | 32.90 | -89.31 | -239.28 | -4,245.54 | 3,842.28 | 3,768.43 | 73.85 | 52.030 | |
| 12,300.00 | 12,242.16 | 12,347.42 | 12,276.19 | 43.30 | 32.96 | -89.30 | -210.71 | -4,245.69 | 3,842.18 | 3,768.13 | 74.05 | 51.884 | |
| 12,350.00 | 12,280.14 | 12,394.40 | 12,311.05 | 43.40 | 33.01 | -89.29 | -179.23 | -4,245.86 | 3,842.08 | 3,767.83 | 74.25 | 51.744 | |
| 12,400.00 | 12,315.14 | 12,441.29 | 12,343.16 | 43.48 | 33.06 | -89.29 | -145.08 | -4,246.04 | 3,841.96 | 3,767.51 | 74.44 | 51.609 | |
| 12,450.00 | 12,346.90 | 12,488.12 | 12,372.33 | 43.55 | 33.11 | -89.29 | -108.46 | -4,246.23 | 3,841.82 | 3,767.19 | 74.63 | 51.476 | |
| 12,500.00 | 12,375.17 | 12,534.90 | 12,398.40 | 43.60 | 33.16 | -89.30 | -69.63 | -4,246.43 | 3,841.68 | 3,766.86 | 74.82 | 51.344 | |
| 12,550.00 | 12,399.74 | 12,581.66 | 12,421.19 | 43.65 | 33.20 | -89.31 | -28.82 | -4,246.65 | 3,841.52 | 3,766.51 | 75.01 | 51.211 | |
| 12,600.00 | 12,420.43 | 12,628.41 | 12,440.58 | 43.69 | 33.25 | -89.33 | 13.70 | -4,246.87 | 3,841.35 | 3,766.15 | 75.21 | 51.077 | |
| 12,650.00 | 12,437.07 | 12,675.17 | 12,456.44 | 43.74 | 33.30 | -89.35 | 57.67 | -4,247.10 | 3,841.18 | 3,765.77 | 75.41 | 50.940 | |
| 12,700.00 | 12,449.55 | 12,721.96 | 12,468.68 | 43.78 | 35.64 | -89.38 | 102.83 | -4,247.33 | 3,840.99 | 3,765.40 | 75.60 | 50.808 | |
| 12,719.48 | 12,453.25 | 12,740.21 | 12,472.44 | 43.80 | 37.58 | -89.39 | 120.68 | -4,247.43 | 3,840.92 | 3,765.25 | 75.67 | 50.760 | |
| 12,744.48 | 12,457.59 | 12,764.54 | 12,476.75 | 43.83 | 38.65 | -89.39 | 144.63 | -4,247.55 | 3,840.83 | 3,765.07 | 75.76 | 50.699 | |
| 12,750.00 | 12,458.54 | 12,770.06 | 12,477.71 | 43.84 | 38.65 | -89.39 | 150.06 | -4,247.58 | 3,840.81 | 3,765.03 | 75.78 | 50.686 | |
| 12,800.00 | 12,465.64 | 12,815.09 | 12,484.71 | 43.92 | 38.69 | -89.41 | 194.54 | -4,247.83 | 3,840.64 | 3,764.68 | 75.96 | 50.562 | |
| 12,850.00 | 12,470.15 | 12,859.58 | 12,489.56 | 44.00 | 38.73 | -89.43 | 238.76 | -4,248.12 | 3,840.52 | 3,764.36 | 76.16 | 50.427 | |
| 12,900.00 | 12,472.04 | 12,904.11 | 12,492.36 | 44.09 | 38.78 | -89.45 | 283.20 | -4,248.46 | 3,840.44 | 3,764.06 | 76.38 | 50.280 | |
| 12,911.17 | 12,472.10 | 12,914.07 | 12,492.70 | 44.11 | 38.79 | -89.46 | 293.15 | -4,248.54 | 3,840.43 | 3,763.99 | 76.43 | 50.245 | |
| 13,000.00 | 12,472.10 | 13,000.48 | 12,493.10 | 44.31 | 38.90 | -89.46 | 378.60 | -4,249.29 | 3,840.41 | 3,763.49 | 76.92 | 49.927 | |
| 13,005.62 | 12,472.10 | 13,005.14 | 12,493.10 | 44.32 | 38.90 | -89.46 | 384.22 | -4,249.34 | 3,840.41 | 3,763.46 | 76.95 | 49.905 | |
| 13,100.00 | 12,472.10 | 13,100.48 | 12,493.10 | 44.57 | 39.03 | -89.46 | 478.59 | -4,250.18 | 3,840.41 | 3,762.81 | 77.60 | 49.492 | |
| 13,200.00 | 12,472.10 | 13,199.53 | 12,493.10 | 44.88 | 39.20 | -89.46 | 578.59 | -4,251.07 | 3,840.40 | 3,762.02 | 78.39 | 48.992 | |
| 13,300.00 | 12,472.09 | 13,300.48 | 12,493.10 | 45.24 | 39.40 | -89.46 | 678.59 | -4,251.96 | 3,840.40 | 3,761.09 | 79.31 | 48.424 | |
| 13,400.00 | 12,472.09 | 13,400.48 | 12,493.09 | 45.63 | 39.63 | -89.46 | 778.58 | -4,252.85 | 3,840.40 | 3,760.06 | 80.33 | 47.805 | |
| 13,500.00 | 12,472.09 | 13,499.53 | 12,493.09 | 46.07 | 39.91 | -89.46 | 878.58 | -4,253.74 | 3,840.39 | 3,758.93 | 81.46 | 47.143 | |
| 13,600.00 | 12,472.09 | 13,600.48 | 12,493.09 | 46.54 | 40.26 | -89.46 | 978.57 | -4,254.63 | 3,840.39 | 3,757.68 | 82.71 | 46.434 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG — **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 | 12,472.08 | 13,700.48 | 12,493.09 | 47.05 | 40.68 | -89.46 | 1,078.57 | -4,255.52 | 3,840.39 | 3,756.34 | 84.04 | 45.696 | |
| 13,800.00 | 12,472.08 | 13,800.48 | 12,493.08 | 47.60 | 41.17 | -89.46 | 1,178.57 | -4,256.40 | 3,840.38 | 3,754.91 | 85.47 | 44.933 | |
| 13,900.00 | 12,472.08 | 13,900.48 | 12,493.08 | 48.19 | 41.76 | -89.46 | 1,278.56 | -4,257.29 | 3,840.38 | 3,753.39 | 86.98 | 44.150 | |
| 14,000.00 | 12,472.08 | 14,000.48 | 12,493.08 | 48.81 | 42.44 | -89.46 | 1,378.56 | -4,258.18 | 3,840.38 | 3,751.79 | 88.58 | 43.354 | |
| 14,100.00 | 12,472.07 | 14,100.48 | 12,493.08 | 49.47 | 43.20 | -89.46 | 1,478.55 | -4,259.07 | 3,840.37 | 3,750.11 | 90.26 | 42.549 | |
| 14,200.00 | 12,472.07 | 14,200.48 | 12,493.07 | 50.15 | 44.04 | -89.46 | 1,578.55 | -4,259.96 | 3,840.37 | 3,748.36 | 92.01 | 41.740 | |
| 14,300.00 | 12,472.07 | 14,300.48 | 12,493.07 | 50.87 | 44.96 | -89.46 | 1,678.55 | -4,260.85 | 3,840.37 | 3,746.54 | 93.83 | 40.931 | |
| 14,400.00 | 12,472.07 | 14,400.48 | 12,493.07 | 51.62 | 45.94 | -89.46 | 1,778.54 | -4,261.74 | 3,840.36 | 3,744.65 | 95.71 | 40.125 | |
| 14,500.00 | 12,472.06 | 14,500.48 | 12,493.07 | 52.40 | 46.98 | -89.46 | 1,878.54 | -4,262.63 | 3,840.36 | 3,742.71 | 97.65 | 39.326 | |
| 14,600.00 | 12,472.06 | 14,600.48 | 12,493.06 | 53.20 | 48.06 | -89.46 | 1,978.53 | -4,263.51 | 3,840.36 | 3,740.70 | 99.66 | 38.536 | |
| 14,700.00 | 12,472.06 | 14,700.48 | 12,493.06 | 54.03 | 49.19 | -89.46 | 2,078.53 | -4,264.40 | 3,840.35 | 3,738.64 | 101.71 | 37.758 | |
| 14,800.00 | 12,472.06 | 14,800.48 | 12,493.06 | 54.88 | 50.36 | -89.46 | 2,178.53 | -4,265.29 | 3,840.35 | 3,736.53 | 103.82 | 36.992 | |
| 14,900.00 | 12,472.06 | 14,900.48 | 12,493.06 | 55.76 | 51.56 | -89.46 | 2,278.52 | -4,266.18 | 3,840.35 | 3,734.38 | 105.97 | 36.240 | |
| 15,000.00 | 12,472.05 | 15,000.48 | 12,493.06 | 56.66 | 52.79 | -89.46 | 2,378.52 | -4,267.07 | 3,840.34 | 3,732.17 | 108.17 | 35.503 | |
| 15,100.00 | 12,472.05 | 15,100.48 | 12,493.05 | 57.59 | 54.05 | -89.46 | 2,478.51 | -4,267.96 | 3,840.34 | 3,729.93 | 110.41 | 34.783 | |
| 15,200.00 | 12,472.05 | 15,200.48 | 12,493.05 | 58.53 | 55.33 | -89.46 | 2,578.51 | -4,268.85 | 3,840.34 | 3,727.65 | 112.69 | 34.079 | |
| 15,300.00 | 12,472.05 | 15,300.48 | 12,493.05 | 59.49 | 56.64 | -89.46 | 2,678.51 | -4,269.74 | 3,840.33 | 3,725.33 | 115.00 | 33.393 | |
| 15,400.00 | 12,472.04 | 15,400.48 | 12,493.05 | 60.47 | 57.96 | -89.46 | 2,778.50 | -4,270.62 | 3,840.33 | 3,722.97 | 117.36 | 32.724 | |
| 15,500.00 | 12,472.04 | 15,500.48 | 12,493.04 | 61.47 | 59.31 | -89.46 | 2,878.50 | -4,271.51 | 3,840.33 | 3,720.58 | 119.74 | 32.072 | |
| 15,600.00 | 12,472.04 | 15,600.48 | 12,493.04 | 62.49 | 60.67 | -89.46 | 2,978.49 | -4,272.40 | 3,840.32 | 3,718.17 | 122.16 | 31.438 | |
| 15,700.00 | 12,472.04 | 15,700.48 | 12,493.04 | 63.52 | 62.05 | -89.46 | 3,078.49 | -4,273.29 | 3,840.32 | 3,715.72 | 124.60 | 30.821 | |
| 15,800.00 | 12,472.03 | 15,800.48 | 12,493.04 | 64.57 | 63.44 | -89.46 | 3,178.49 | -4,274.18 | 3,840.32 | 3,713.24 | 127.07 | 30.221 | |
| 15,900.00 | 12,472.03 | 15,900.48 | 12,493.03 | 65.63 | 64.85 | -89.46 | 3,278.48 | -4,275.07 | 3,840.31 | 3,710.74 | 129.57 | 29.638 | |
| 16,000.00 | 12,472.03 | 16,000.48 | 12,493.03 | 66.71 | 66.27 | -89.46 | 3,378.48 | -4,275.96 | 3,840.31 | 3,708.21 | 132.09 | 29.072 | |
| 16,100.00 | 12,472.03 | 16,100.48 | 12,493.03 | 67.80 | 67.70 | -89.46 | 3,478.48 | -4,276.85 | 3,840.30 | 3,705.66 | 134.64 | 28.523 | |
| 16,200.00 | 12,472.02 | 16,200.48 | 12,493.03 | 68.90 | 69.14 | -89.46 | 3,578.47 | -4,277.73 | 3,840.30 | 3,703.09 | 137.21 | 27.989 | |
| 16,300.00 | 12,472.02 | 16,300.48 | 12,493.02 | 70.02 | 70.59 | -89.46 | 3,678.47 | -4,278.62 | 3,840.30 | 3,700.50 | 139.80 | 27.470 | |
| 16,400.00 | 12,472.02 | 16,400.48 | 12,493.02 | 71.14 | 72.05 | -89.46 | 3,778.46 | -4,279.51 | 3,840.29 | 3,697.89 | 142.41 | 26.967 | |
| 16,500.00 | 12,472.02 | 16,500.48 | 12,493.02 | 72.28 | 73.52 | -89.46 | 3,878.46 | -4,280.40 | 3,840.29 | 3,695.26 | 145.03 | 26.479 | |
| 16,600.00 | 12,472.02 | 16,600.48 | 12,493.02 | 73.43 | 75.00 | -89.46 | 3,978.46 | -4,281.29 | 3,840.29 | 3,692.61 | 147.68 | 26.004 | |
| 16,700.00 | 12,472.01 | 16,699.53 | 12,493.01 | 74.58 | 76.47 | -89.46 | 4,078.45 | -4,282.18 | 3,840.28 | 3,689.96 | 150.33 | 25.546 | |
| 16,800.00 | 12,472.01 | 16,800.48 | 12,493.01 | 75.75 | 77.98 | -89.46 | 4,178.45 | -4,283.07 | 3,840.28 | 3,687.26 | 153.02 | 25.097 | |
| 16,900.00 | 12,472.01 | 16,900.48 | 12,493.01 | 76.93 | 79.48 | -89.46 | 4,278.44 | -4,283.95 | 3,840.28 | 3,684.57 | 155.71 | 24.663 | |
| 17,000.00 | 12,472.01 | 17,000.48 | 12,493.01 | 78.11 | 80.98 | -89.46 | 4,378.44 | -4,284.84 | 3,840.27 | 3,681.86 | 158.42 | 24.242 | |
| 17,100.00 | 12,472.00 | 17,100.48 | 12,493.00 | 79.30 | 82.49 | -89.46 | 4,478.44 | -4,285.73 | 3,840.27 | 3,679.13 | 161.14 | 23.832 | |
| 17,200.00 | 12,472.00 | 17,199.53 | 12,493.00 | 80.51 | 84.00 | -89.46 | 4,578.43 | -4,286.62 | 3,840.27 | 3,676.41 | 163.86 | 23.437 | |
| 17,236.44 | 12,472.00 | 17,235.97 | 12,493.00 | 80.94 | 84.55 | -89.46 | 4,614.87 | -4,286.95 | 3,840.27 | 3,675.41 | 164.85 | 23.295 | SF |

# Pro Directional

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 202H - OH - Prelim Plan A — Offset Site Error: 0.00 usft

Survey Program: 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG — 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 | 25.00 | 25.00 | 0.00 | 0.03 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | | | | |
| 100.00 | 100.00 | 125.00 | 125.00 | 0.13 | 0.22 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,532.86 | 0.34 | 4,455.253 | |
| 200.00 | 200.00 | 225.00 | 225.00 | 0.49 | 0.58 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,532.14 | 1.06 | 1,444.948 | |
| 300.00 | 300.00 | 325.00 | 325.00 | 0.84 | 0.93 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,531.42 | 1.78 | 862.308 | |
| 400.00 | 400.00 | 425.00 | 425.00 | 1.20 | 1.29 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,530.70 | 2.49 | 614.518 | |
| 500.00 | 500.00 | 525.00 | 525.00 | 1.56 | 1.65 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,529.99 | 3.21 | 477.349 | |
| 505.56 | 505.56 | 530.56 | 530.56 | 1.58 | 1.67 | -93.70 | -99.00 | -1,530.00 | 1,533.20 | 1,529.95 | 3.25 | 471.502 | CC |
| 600.00 | 600.00 | 617.92 | 617.92 | 1.92 | 1.98 | -93.70 | -99.01 | -1,530.04 | 1,533.26 | 1,529.36 | 3.90 | 392.978 | ES |
| 700.00 | 700.00 | 689.60 | 689.59 | 2.28 | 2.23 | -93.71 | -99.26 | -1,531.02 | 1,534.64 | 1,530.13 | 4.51 | 340.329 | |
| 800.00 | 800.00 | 761.22 | 761.17 | 2.64 | 2.48 | -93.73 | -99.83 | -1,533.30 | 1,537.87 | 1,532.76 | 5.11 | 300.833 | |
| 900.00 | 900.00 | 832.72 | 832.58 | 3.00 | 2.73 | -93.75 | -100.73 | -1,536.87 | 1,542.94 | 1,537.23 | 5.71 | 270.064 | |
| 1,000.00 | 1,000.00 | 900.00 | 899.69 | 3.35 | 2.96 | -93.78 | -101.87 | -1,541.42 | 1,549.86 | 1,543.56 | 6.30 | 246.063 | |
| 1,100.00 | 1,100.00 | 975.19 | 974.59 | 3.71 | 3.23 | -93.83 | -103.49 | -1,547.86 | 1,558.59 | 1,551.67 | 6.91 | 225.452 | |
| 1,200.00 | 1,200.00 | 1,046.06 | 1,045.05 | 4.07 | 3.49 | -93.87 | -105.34 | -1,555.23 | 1,569.15 | 1,561.64 | 7.51 | 208.940 | |
| 1,300.00 | 1,299.99 | 1,137.07 | 1,135.39 | 4.41 | 3.83 | 36.19 | -108.03 | -1,565.93 | 1,580.37 | 1,572.20 | 8.17 | 193.419 | |
| 1,400.00 | 1,399.96 | 1,235.58 | 1,234.15 | 4.75 | 4.21 | 36.11 | -110.99 | -1,577.69 | 1,590.27 | 1,581.41 | 8.85 | 179.614 | |
| 1,500.00 | 1,499.86 | 1,336.21 | 1,333.04 | 5.08 | 4.60 | 36.08 | -113.95 | -1,589.47 | 1,598.76 | 1,589.22 | 9.55 | 167.495 | |
| 1,600.00 | 1,599.68 | 1,435.95 | 1,432.04 | 5.43 | 4.99 | 36.09 | -116.91 | -1,601.26 | 1,605.85 | 1,595.61 | 10.24 | 156.779 | |
| 1,700.00 | 1,699.37 | 1,535.76 | 1,531.10 | 5.77 | 5.38 | 36.14 | -119.88 | -1,613.06 | 1,611.53 | 1,600.59 | 10.95 | 147.228 | |
| 1,800.00 | 1,798.90 | 1,635.60 | 1,630.20 | 6.12 | 5.77 | 36.24 | -122.84 | -1,624.86 | 1,615.82 | 1,604.16 | 11.65 | 138.648 | |
| 1,900.00 | 1,898.26 | 1,735.46 | 1,729.31 | 6.48 | 6.17 | 36.39 | -125.81 | -1,636.66 | 1,618.70 | 1,606.33 | 12.37 | 130.885 | |
| 2,000.00 | 1,997.51 | 1,835.30 | 1,828.42 | 6.84 | 6.57 | 36.56 | -128.78 | -1,648.46 | 1,620.90 | 1,607.81 | 13.09 | 123.872 | |
| 2,100.00 | 2,096.77 | 1,935.15 | 1,927.52 | 7.20 | 6.96 | 36.74 | -131.74 | -1,660.26 | 1,623.11 | 1,609.30 | 13.81 | 117.557 | |
| 2,200.00 | 2,196.02 | 2,035.00 | 2,026.62 | 7.57 | 7.36 | 36.92 | -134.71 | -1,672.06 | 1,625.34 | 1,610.81 | 14.53 | 111.847 | |
| 2,300.00 | 2,295.28 | 2,134.85 | 2,125.73 | 7.94 | 7.77 | 37.10 | -137.68 | -1,683.86 | 1,627.58 | 1,612.32 | 15.26 | 106.661 | |
| 2,400.00 | 2,394.53 | 2,234.70 | 2,224.83 | 8.32 | 8.17 | 37.27 | -140.64 | -1,695.67 | 1,629.84 | 1,613.85 | 15.99 | 101.932 | |
| 2,500.00 | 2,493.79 | 2,334.55 | 2,323.94 | 8.69 | 8.57 | 37.45 | -143.61 | -1,707.47 | 1,632.12 | 1,615.40 | 16.72 | 97.605 | |
| 2,600.00 | 2,593.04 | 2,434.40 | 2,423.04 | 9.07 | 8.97 | 37.62 | -146.58 | -1,719.27 | 1,634.41 | 1,616.95 | 17.46 | 93.631 | |
| 2,700.00 | 2,692.30 | 2,534.25 | 2,522.15 | 9.45 | 9.38 | 37.80 | -149.54 | -1,731.07 | 1,636.71 | 1,618.52 | 18.19 | 89.970 | |
| 2,800.00 | 2,791.55 | 2,634.09 | 2,621.25 | 9.83 | 9.78 | 37.97 | -152.51 | -1,742.87 | 1,639.04 | 1,620.11 | 18.93 | 86.587 | |
| 2,900.00 | 2,890.81 | 2,733.94 | 2,720.36 | 10.21 | 10.19 | 38.15 | -155.48 | -1,754.67 | 1,641.37 | 1,621.70 | 19.67 | 83.453 | |
| 3,000.00 | 2,990.06 | 2,833.79 | 2,819.46 | 10.60 | 10.59 | 38.32 | -158.44 | -1,766.47 | 1,643.72 | 1,623.31 | 20.41 | 80.541 | |
| 3,100.00 | 3,089.32 | 2,933.64 | 2,918.56 | 10.98 | 11.00 | 38.49 | -161.41 | -1,778.28 | 1,646.09 | 1,624.94 | 21.15 | 77.829 | |
| 3,200.00 | 3,188.57 | 3,033.49 | 3,017.67 | 11.37 | 11.40 | 38.66 | -164.37 | -1,790.08 | 1,648.47 | 1,626.58 | 21.89 | 75.298 | |
| 3,300.00 | 3,287.82 | 3,133.34 | 3,116.77 | 11.75 | 11.81 | 38.83 | -167.34 | -1,801.88 | 1,650.86 | 1,628.23 | 22.64 | 72.930 | |
| 3,400.00 | 3,387.08 | 3,233.19 | 3,215.88 | 12.14 | 12.21 | 39.01 | -170.31 | -1,813.68 | 1,653.26 | 1,629.89 | 23.38 | 70.711 | |
| 3,500.00 | 3,486.33 | 3,333.04 | 3,314.98 | 12.53 | 12.62 | 39.18 | -173.27 | -1,825.48 | 1,655.70 | 1,631.57 | 24.13 | 68.626 | |
| 3,600.00 | 3,585.59 | 3,432.89 | 3,414.09 | 12.91 | 13.02 | 39.35 | -176.24 | -1,837.28 | 1,658.14 | 1,633.27 | 24.87 | 66.665 | |
| 3,700.00 | 3,684.84 | 3,532.73 | 3,513.19 | 13.30 | 13.43 | 39.52 | -179.21 | -1,849.08 | 1,660.60 | 1,634.98 | 25.62 | 64.816 | |
| 3,800.00 | 3,784.10 | 3,632.58 | 3,612.30 | 13.69 | 13.84 | 39.69 | -182.17 | -1,860.88 | 1,663.06 | 1,636.70 | 26.37 | 63.071 | |
| 3,900.00 | 3,883.35 | 3,732.43 | 3,711.40 | 14.08 | 14.24 | 39.85 | -185.14 | -1,872.69 | 1,665.55 | 1,638.43 | 27.12 | 61.421 | |
| 4,000.00 | 3,982.61 | 3,832.28 | 3,810.51 | 14.47 | 14.65 | 40.02 | -188.11 | -1,884.49 | 1,668.05 | 1,640.18 | 27.87 | 59.859 | |
| 4,100.00 | 4,081.86 | 3,932.13 | 3,909.61 | 14.86 | 15.06 | 40.19 | -191.07 | -1,896.29 | 1,670.56 | 1,641.94 | 28.62 | 58.377 | |
| 4,200.00 | 4,181.12 | 4,031.98 | 4,008.71 | 15.25 | 15.46 | 40.36 | -194.04 | -1,908.09 | 1,673.09 | 1,643.72 | 29.37 | 56.971 | |
| 4,300.00 | 4,280.37 | 4,131.83 | 4,107.82 | 15.65 | 15.87 | 40.52 | -197.01 | -1,919.89 | 1,675.63 | 1,645.51 | 30.12 | 55.634 | |
| 4,400.00 | 4,379.63 | 4,231.68 | 4,206.92 | 16.04 | 16.28 | 40.69 | -199.97 | -1,931.69 | 1,678.18 | 1,647.31 | 30.87 | 54.361 | |
| 4,500.00 | 4,478.88 | 4,331.52 | 4,306.03 | 16.43 | 16.69 | 40.86 | -202.94 | -1,943.49 | 1,680.75 | 1,649.13 | 31.62 | 53.149 | |
| 4,600.00 | 4,578.13 | 4,431.37 | 4,405.13 | 16.82 | 17.09 | 41.02 | -205.90 | -1,955.30 | 1,683.33 | 1,650.96 | 32.38 | 51.992 | |
| 4,700.00 | 4,677.39 | 4,531.22 | 4,504.24 | 17.21 | 17.50 | 41.19 | -208.87 | -1,967.10 | 1,685.93 | 1,652.80 | 33.13 | 50.888 | |
| 4,800.00 | 4,776.64 | 4,631.07 | 4,603.34 | 17.61 | 17.91 | 41.35 | -211.84 | -1,978.90 | 1,688.54 | 1,654.66 | 33.88 | 49.832 | |
| 4,900.00 | 4,875.90 | 4,730.92 | 4,702.45 | 18.00 | 18.32 | 41.51 | -214.80 | -1,990.70 | 1,691.17 | 1,656.53 | 34.64 | 48.822 | |
| 5,000.00 | 4,975.15 | 4,830.77 | 4,801.55 | 18.39 | 18.72 | 41.68 | -217.77 | -2,002.50 | 1,693.81 | 1,658.41 | 35.39 | 47.855 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG — **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 | 5,074.41 | 4,930.62 | 4,900.66 | 18.79 | 19.13 | 41.84 | -220.74 | -2,014.30 | 1,696.46 | 1,660.31 | 36.15 | 46.928 | |
| 5,200.00 | 5,173.66 | 5,030.47 | 4,999.76 | 19.18 | 19.54 | 42.00 | -223.70 | -2,026.10 | 1,699.12 | 1,662.22 | 36.91 | 46.038 | |
| 5,300.00 | 5,272.92 | 5,130.31 | 5,098.86 | 19.57 | 19.95 | 42.16 | -226.67 | -2,037.91 | 1,701.80 | 1,664.14 | 37.66 | 45.185 | |
| 5,400.00 | 5,372.17 | 5,230.16 | 5,197.97 | 19.97 | 20.36 | 42.32 | -229.64 | -2,049.71 | 1,704.50 | 1,666.08 | 38.42 | 44.364 | |
| 5,500.00 | 5,471.43 | 5,330.01 | 5,297.07 | 20.36 | 20.76 | 42.48 | -232.60 | -2,061.51 | 1,707.20 | 1,668.03 | 39.18 | 43.575 | |
| 5,522.48 | 5,493.73 | 5,352.45 | 5,319.35 | 20.45 | 20.85 | 42.52 | -233.27 | -2,064.16 | 1,707.81 | 1,668.47 | 39.35 | 43.402 | |
| 5,600.00 | 5,570.74 | 5,429.87 | 5,396.18 | 20.75 | 21.12 | 42.65 | -235.57 | -2,073.31 | 1,710.31 | 1,670.43 | 39.88 | 42.886 | |
| 5,700.00 | 5,670.24 | 5,529.72 | 5,495.29 | 21.14 | 21.31 | 42.79 | -238.54 | -2,085.11 | 1,714.67 | 1,674.28 | 40.40 | 42.447 | |
| 5,800.00 | 5,769.90 | 5,629.53 | 5,594.36 | 21.51 | 21.39 | 42.90 | -241.50 | -2,096.91 | 1,720.32 | 1,679.54 | 40.78 | 42.183 | |
| 5,900.00 | 5,869.69 | 5,729.29 | 5,693.37 | 21.88 | 21.47 | 42.97 | -244.47 | -2,108.70 | 1,727.25 | 1,686.08 | 41.17 | 41.955 | |
| 6,000.00 | 5,969.57 | 5,828.95 | 5,792.29 | 22.24 | 21.57 | 43.02 | -247.43 | -2,120.48 | 1,735.45 | 1,693.89 | 41.56 | 41.761 | |
| 6,100.00 | 6,069.53 | 5,928.49 | 5,891.09 | 22.59 | 21.66 | 43.03 | -250.38 | -2,132.24 | 1,744.92 | 1,702.97 | 41.94 | 41.601 | |
| 6,200.00 | 6,169.52 | 6,027.87 | 5,989.73 | 22.94 | 21.77 | 43.02 | -253.34 | -2,143.99 | 1,755.66 | 1,713.33 | 42.33 | 41.475 | |
| 6,222.48 | 6,191.99 | 6,050.18 | 6,011.88 | 23.01 | 21.80 | -87.18 | -254.00 | -2,146.63 | 1,758.25 | 1,715.84 | 42.42 | 41.453 | |
| 6,300.00 | 6,269.52 | 6,127.13 | 6,088.25 | 23.26 | 21.88 | -87.27 | -256.29 | -2,155.72 | 1,767.30 | 1,724.60 | 42.70 | 41.388 | |
| 6,400.00 | 6,369.52 | 6,226.39 | 6,186.77 | 23.58 | 22.00 | -87.38 | -259.23 | -2,167.45 | 1,778.97 | 1,735.90 | 43.08 | 41.298 | |
| 6,500.00 | 6,469.52 | 6,325.64 | 6,285.28 | 23.90 | 22.13 | -87.49 | -262.18 | -2,179.18 | 1,790.65 | 1,747.19 | 43.46 | 41.203 | |
| 6,600.00 | 6,569.52 | 6,424.89 | 6,383.79 | 24.22 | 22.27 | -87.60 | -265.13 | -2,190.92 | 1,802.34 | 1,758.49 | 43.85 | 41.103 | |
| 6,700.00 | 6,669.52 | 6,524.15 | 6,482.31 | 24.54 | 22.41 | -87.71 | -268.08 | -2,202.65 | 1,814.04 | 1,769.79 | 44.25 | 40.998 | |
| 6,800.00 | 6,769.52 | 6,623.40 | 6,580.82 | 24.87 | 22.55 | -87.82 | -271.03 | -2,214.38 | 1,825.74 | 1,781.09 | 44.65 | 40.888 | |
| 6,900.00 | 6,869.52 | 6,722.66 | 6,679.34 | 25.19 | 22.71 | -87.93 | -273.98 | -2,226.11 | 1,837.45 | 1,792.38 | 45.06 | 40.773 | |
| 7,000.00 | 6,969.52 | 6,821.91 | 6,777.85 | 25.52 | 22.87 | -88.03 | -276.93 | -2,237.84 | 1,849.16 | 1,803.68 | 45.48 | 40.655 | |
| 7,100.00 | 7,069.52 | 6,921.17 | 6,876.37 | 25.85 | 23.03 | -88.14 | -279.88 | -2,249.57 | 1,860.88 | 1,814.97 | 45.91 | 40.533 | |
| 7,200.00 | 7,169.52 | 7,020.42 | 6,974.88 | 26.18 | 23.20 | -88.24 | -282.82 | -2,261.30 | 1,872.61 | 1,826.26 | 46.34 | 40.407 | |
| 7,300.00 | 7,269.52 | 7,119.68 | 7,073.40 | 26.50 | 23.38 | -88.34 | -285.77 | -2,273.03 | 1,884.34 | 1,837.55 | 46.78 | 40.278 | |
| 7,400.00 | 7,369.52 | 7,218.93 | 7,171.91 | 26.83 | 23.56 | -88.44 | -288.72 | -2,284.76 | 1,896.08 | 1,848.85 | 47.23 | 40.146 | |
| 7,500.00 | 7,469.52 | 7,318.19 | 7,270.43 | 27.16 | 23.75 | -88.54 | -291.67 | -2,296.50 | 1,907.82 | 1,860.14 | 47.68 | 40.011 | |
| 7,600.00 | 7,569.52 | 7,417.44 | 7,368.94 | 27.49 | 23.94 | -88.64 | -294.62 | -2,308.23 | 1,919.57 | 1,871.43 | 48.14 | 39.873 | |
| 7,700.00 | 7,669.52 | 7,516.70 | 7,467.46 | 27.83 | 24.14 | -88.73 | -297.57 | -2,319.96 | 1,931.32 | 1,882.71 | 48.61 | 39.733 | |
| 7,800.00 | 7,769.52 | 7,615.95 | 7,565.97 | 28.16 | 24.35 | -88.83 | -300.52 | -2,331.69 | 1,943.08 | 1,894.00 | 49.08 | 39.591 | |
| 7,900.00 | 7,869.52 | 7,715.20 | 7,664.49 | 28.49 | 24.56 | -88.92 | -303.47 | -2,343.42 | 1,954.85 | 1,905.29 | 49.56 | 39.447 | |
| 8,000.00 | 7,969.52 | 7,814.46 | 7,763.00 | 28.82 | 24.77 | -89.01 | -306.42 | -2,355.15 | 1,966.62 | 1,916.58 | 50.04 | 39.301 | |
| 8,100.00 | 8,069.52 | 7,913.71 | 7,861.52 | 29.16 | 24.99 | -89.11 | -309.36 | -2,366.88 | 1,978.39 | 1,927.86 | 50.53 | 39.154 | |
| 8,200.00 | 8,169.52 | 8,012.97 | 7,960.03 | 29.49 | 25.21 | -89.20 | -312.31 | -2,378.61 | 1,990.17 | 1,939.15 | 51.02 | 39.006 | |
| 8,300.00 | 8,269.52 | 8,112.22 | 8,058.55 | 29.83 | 25.44 | -89.29 | -315.26 | -2,390.34 | 2,001.95 | 1,950.43 | 51.52 | 38.856 | |
| 8,400.00 | 8,369.52 | 8,211.48 | 8,157.06 | 30.16 | 25.67 | -89.38 | -318.21 | -2,402.08 | 2,013.74 | 1,961.72 | 52.03 | 38.705 | |
| 8,500.00 | 8,469.52 | 8,310.73 | 8,255.58 | 30.50 | 25.91 | -89.46 | -321.16 | -2,413.81 | 2,025.54 | 1,973.00 | 52.54 | 38.553 | |
| 8,600.00 | 8,569.52 | 8,483.59 | 8,427.43 | 30.84 | 26.31 | -89.59 | -325.65 | -2,431.67 | 2,036.09 | 1,982.86 | 53.23 | 38.251 | |
| 8,700.00 | 8,669.52 | 8,690.26 | 8,633.74 | 31.17 | 26.72 | -89.68 | -328.56 | -2,443.25 | 2,041.69 | 1,987.76 | 53.92 | 37.862 | |
| 8,800.00 | 8,769.52 | 8,851.06 | 8,794.52 | 31.51 | 26.98 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,988.04 | 54.49 | 37.483 | |
| 8,900.00 | 8,869.52 | 8,951.06 | 8,894.52 | 31.85 | 27.14 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,987.52 | 55.01 | 37.132 | |
| 9,000.00 | 8,969.52 | 9,051.06 | 8,994.52 | 32.19 | 27.30 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,987.00 | 55.53 | 36.784 | |
| 9,100.00 | 9,069.52 | 9,151.06 | 9,094.52 | 32.53 | 27.46 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,986.48 | 56.05 | 36.439 | |
| 9,200.00 | 9,169.52 | 9,251.06 | 9,194.52 | 32.87 | 27.62 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,985.95 | 56.58 | 36.099 | |
| 9,300.00 | 9,269.52 | 9,351.06 | 9,294.52 | 33.21 | 27.79 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,985.41 | 57.12 | 35.762 | |
| 9,400.00 | 9,369.52 | 9,451.06 | 9,394.52 | 33.55 | 27.96 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,984.88 | 57.65 | 35.428 | |
| 9,500.00 | 9,469.52 | 9,551.06 | 9,494.52 | 33.89 | 28.14 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,984.34 | 58.19 | 35.099 | |
| 9,600.00 | 9,569.52 | 9,651.06 | 9,594.52 | 34.23 | 28.32 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,983.79 | 58.74 | 34.773 | |
| 9,700.00 | 9,669.52 | 9,751.06 | 9,694.52 | 34.57 | 28.50 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,983.24 | 59.29 | 34.451 | |
| 9,800.00 | 9,769.52 | 9,851.06 | 9,794.52 | 34.91 | 28.69 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,982.69 | 59.84 | 34.133 | |
| 9,900.00 | 9,869.52 | 9,951.06 | 9,894.52 | 35.25 | 28.88 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,982.13 | 60.40 | 33.818 | |
| 10,000.00 | 9,969.52 | 10,051.06 | 9,994.52 | 35.60 | 29.07 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,981.57 | 60.96 | 33.508 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,100.00 | 10,069.52 | 10,151.06 | 10,094.52 | 35.94 | 29.27 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,981.01 | 61.52 | 33.201 | |
| 10,200.00 | 10,169.52 | 10,251.06 | 10,194.52 | 36.28 | 29.47 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,980.44 | 62.09 | 32.898 | |
| 10,300.00 | 10,269.52 | 10,351.06 | 10,294.52 | 36.63 | 29.67 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,979.87 | 62.66 | 32.599 | |
| 10,400.00 | 10,369.52 | 10,451.06 | 10,394.52 | 36.97 | 29.87 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,979.30 | 63.23 | 32.303 | |
| 10,500.00 | 10,469.52 | 10,551.06 | 10,494.52 | 37.31 | 30.08 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,978.72 | 63.81 | 32.011 | |
| 10,600.00 | 10,569.52 | 10,651.06 | 10,594.52 | 37.66 | 30.29 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,978.14 | 64.39 | 31.723 | |
| 10,700.00 | 10,669.52 | 10,751.06 | 10,694.52 | 38.00 | 30.50 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,977.56 | 64.97 | 31.439 | |
| 10,800.00 | 10,769.52 | 10,851.06 | 10,794.52 | 38.35 | 30.72 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,976.98 | 65.55 | 31.159 | |
| 10,900.00 | 10,869.52 | 10,951.06 | 10,894.52 | 38.69 | 30.94 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,976.39 | 66.14 | 30.882 | |
| 11,000.00 | 10,969.52 | 11,051.06 | 10,994.52 | 39.04 | 31.16 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,975.80 | 66.73 | 30.608 | |
| 11,100.00 | 11,069.52 | 11,151.06 | 11,094.52 | 39.38 | 31.38 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,975.21 | 67.32 | 30.339 | |
| 11,200.00 | 11,169.52 | 11,251.06 | 11,194.52 | 39.73 | 31.61 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,974.61 | 67.92 | 30.073 | |
| 11,300.00 | 11,269.52 | 11,351.06 | 11,294.52 | 40.07 | 31.84 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,974.01 | 68.52 | 29.810 | |
| 11,400.00 | 11,369.52 | 11,451.06 | 11,394.52 | 40.42 | 32.07 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,973.41 | 69.12 | 29.551 | |
| 11,500.00 | 11,469.52 | 11,551.06 | 11,494.52 | 40.77 | 32.30 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,972.81 | 69.72 | 29.295 | |
| 11,600.00 | 11,569.52 | 11,651.06 | 11,594.52 | 41.11 | 32.54 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,972.20 | 70.33 | 29.043 | |
| 11,700.00 | 11,669.52 | 11,751.06 | 11,694.52 | 41.46 | 32.78 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,971.59 | 70.93 | 28.794 | |
| 11,800.00 | 11,769.52 | 11,851.06 | 11,794.52 | 41.81 | 33.02 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,970.98 | 71.54 | 28.549 | |
| 11,815.09 | 11,784.61 | 11,866.15 | 11,809.61 | 41.86 | 33.05 | -89.69 | -329.00 | -2,445.00 | 2,042.53 | 1,970.89 | 71.64 | 28.512 | |
| 11,900.00 | 11,869.52 | 11,950.90 | 11,894.35 | 42.15 | 33.26 | -89.69 | -328.98 | -2,445.00 | 2,042.53 | 1,970.37 | 72.16 | 28.307 | |
| 11,919.48 | 11,889.00 | 11,969.65 | 11,913.11 | 42.22 | 33.30 | -89.68 | -328.53 | -2,445.00 | 2,042.53 | 1,970.26 | 72.27 | 28.261 | |
| 11,950.00 | 11,919.50 | 11,998.98 | 11,942.37 | 42.33 | 33.37 | -89.13 | -326.60 | -2,445.01 | 2,042.55 | 1,970.09 | 72.46 | 28.190 | |
| 12,000.00 | 11,969.25 | 12,046.92 | 11,989.86 | 42.49 | 33.48 | -89.09 | -320.23 | -2,445.05 | 2,042.55 | 1,969.81 | 72.74 | 28.079 | |
| 12,050.00 | 12,018.39 | 12,094.72 | 12,036.53 | 42.65 | 33.58 | -89.04 | -309.95 | -2,445.10 | 2,042.54 | 1,969.52 | 73.02 | 27.974 | |
| 12,100.00 | 12,066.55 | 12,142.40 | 12,082.07 | 42.81 | 33.67 | -89.01 | -295.85 | -2,445.17 | 2,042.51 | 1,969.24 | 73.27 | 27.876 | |
| 12,150.00 | 12,113.35 | 12,189.99 | 12,126.18 | 42.95 | 33.75 | -88.98 | -278.06 | -2,445.27 | 2,042.46 | 1,968.95 | 73.51 | 27.783 | |
| 12,200.00 | 12,158.45 | 12,237.48 | 12,168.60 | 43.08 | 33.83 | -88.96 | -256.71 | -2,445.38 | 2,042.40 | 1,968.65 | 73.74 | 27.697 | |
| 12,250.00 | 12,201.49 | 12,284.92 | 12,209.04 | 43.20 | 33.90 | -88.95 | -231.95 | -2,445.51 | 2,042.31 | 1,968.36 | 73.96 | 27.615 | |
| 12,300.00 | 12,242.16 | 12,332.30 | 12,247.26 | 43.30 | 33.96 | -88.94 | -203.98 | -2,445.65 | 2,042.22 | 1,968.06 | 74.16 | 27.537 | |
| 12,350.00 | 12,280.14 | 12,379.64 | 12,283.02 | 43.40 | 34.02 | -88.94 | -172.96 | -2,445.82 | 2,042.10 | 1,967.75 | 74.36 | 27.463 | |
| 12,400.00 | 12,315.14 | 12,426.97 | 12,316.08 | 43.48 | 34.07 | -88.95 | -139.11 | -2,445.99 | 2,041.97 | 1,967.43 | 74.55 | 27.391 | |
| 12,450.00 | 12,346.90 | 12,474.30 | 12,346.23 | 43.55 | 34.11 | -88.97 | -102.65 | -2,446.19 | 2,041.83 | 1,967.10 | 74.73 | 27.321 | |
| 12,500.00 | 12,375.17 | 12,521.65 | 12,373.29 | 43.60 | 34.15 | -88.99 | -63.80 | -2,446.39 | 2,041.67 | 1,966.75 | 74.92 | 27.251 | |
| 12,550.00 | 12,399.74 | 12,569.03 | 12,397.06 | 43.65 | 34.20 | -89.03 | -22.83 | -2,446.60 | 2,041.51 | 1,966.40 | 75.11 | 27.181 | |
| 12,600.00 | 12,420.43 | 12,616.47 | 12,417.38 | 43.69 | 34.24 | -89.07 | 20.01 | -2,446.83 | 2,041.33 | 1,966.03 | 75.30 | 27.110 | |
| 12,650.00 | 12,437.07 | 12,663.97 | 12,434.12 | 43.74 | 34.29 | -89.11 | 64.46 | -2,447.06 | 2,041.14 | 1,965.64 | 75.49 | 27.037 | |
| 12,700.00 | 12,449.55 | 12,711.56 | 12,447.13 | 43.78 | 35.62 | -89.17 | 110.22 | -2,447.30 | 2,040.94 | 1,965.25 | 75.69 | 26.964 | |
| 12,719.48 | 12,453.25 | 12,730.13 | 12,451.17 | 43.80 | 37.69 | -89.19 | 128.34 | -2,447.39 | 2,040.87 | 1,965.11 | 75.76 | 26.938 | |
| 12,744.48 | 12,457.59 | 12,754.34 | 12,455.61 | 43.83 | 39.53 | -89.19 | 152.14 | -2,447.52 | 2,040.77 | 1,964.92 | 75.85 | 26.905 | |
| 12,750.00 | 12,458.54 | 12,759.86 | 12,456.57 | 43.84 | 39.53 | -89.20 | 157.57 | -2,447.55 | 2,040.75 | 1,964.88 | 75.87 | 26.898 | |
| 12,800.00 | 12,465.64 | 12,807.24 | 12,464.14 | 43.92 | 39.58 | -89.23 | 204.34 | -2,447.81 | 2,040.57 | 1,964.52 | 76.05 | 26.831 | |
| 12,850.00 | 12,470.15 | 12,853.87 | 12,469.38 | 44.00 | 39.63 | -89.27 | 250.66 | -2,448.11 | 2,040.44 | 1,964.19 | 76.26 | 26.758 | |
| 12,900.00 | 12,472.04 | 12,900.54 | 12,472.36 | 44.09 | 39.68 | -89.31 | 297.24 | -2,448.46 | 2,040.36 | 1,963.88 | 76.48 | 26.678 | |
| 12,911.17 | 12,472.10 | 12,910.98 | 12,472.72 | 44.11 | 39.70 | -89.32 | 307.67 | -2,448.55 | 2,040.35 | 1,963.81 | 76.54 | 26.659 | |
| 13,000.00 | 12,472.10 | 13,002.10 | 12,473.10 | 44.31 | 39.82 | -89.33 | 394.59 | -2,449.31 | 2,040.33 | 1,963.29 | 77.04 | 26.484 | |
| 13,003.09 | 12,472.10 | 13,000.99 | 12,473.10 | 44.32 | 39.82 | -89.33 | 397.67 | -2,449.34 | 2,040.33 | 1,963.29 | 77.04 | 26.483 | |
| 13,100.00 | 12,472.10 | 13,102.10 | 12,473.10 | 44.57 | 39.98 | -89.33 | 494.58 | -2,450.20 | 2,040.33 | 1,962.61 | 77.72 | 26.254 | |
| 13,200.00 | 12,472.10 | 13,202.10 | 12,473.10 | 44.88 | 40.17 | -89.33 | 594.58 | -2,451.09 | 2,040.32 | 1,961.81 | 78.51 | 25.987 | |
| 13,300.00 | 12,472.09 | 13,297.90 | 12,473.10 | 45.24 | 40.38 | -89.33 | 694.58 | -2,451.98 | 2,040.32 | 1,960.92 | 79.40 | 25.696 | |
| 13,400.00 | 12,472.09 | 13,402.10 | 12,473.09 | 45.63 | 40.65 | -89.33 | 794.57 | -2,452.87 | 2,040.32 | 1,959.87 | 80.45 | 25.360 | |
| 13,500.00 | 12,472.09 | 13,502.10 | 12,473.09 | 46.07 | 40.97 | -89.33 | 894.57 | -2,453.76 | 2,040.32 | 1,958.73 | 81.59 | 25.008 | |
| 13,600.00 | 12,472.09 | 13,602.10 | 12,473.09 | 46.54 | 41.33 | -89.33 | 994.56 | -2,454.65 | 2,040.31 | 1,957.49 | 82.82 | 24.634 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 202H - OH - Prelim Plan A — *Offset Site Error:* 0.00 usft

Survey Program: 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG — 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 | 12,472.08 | 13,702.10 | 12,473.09 | 47.05 | 41.76 | -89.33 | 1,094.56 | -2,455.54 | 2,040.31 | 1,956.15 | 84.16 | 24.244 | |
| 13,800.00 | 12,472.08 | 13,802.10 | 12,473.08 | 47.60 | 42.26 | -89.33 | 1,194.56 | -2,456.43 | 2,040.31 | 1,954.72 | 85.58 | 23.840 | |
| 13,900.00 | 12,472.08 | 13,902.10 | 12,473.08 | 48.19 | 42.84 | -89.33 | 1,294.55 | -2,457.31 | 2,040.30 | 1,953.20 | 87.10 | 23.425 | |
| 14,000.00 | 12,472.08 | 13,997.90 | 12,473.08 | 48.81 | 43.46 | -89.33 | 1,394.55 | -2,458.20 | 2,040.30 | 1,951.65 | 88.65 | 23.014 | |
| 14,100.00 | 12,472.07 | 14,102.10 | 12,473.08 | 49.47 | 44.22 | -89.33 | 1,494.54 | -2,459.09 | 2,040.30 | 1,949.93 | 90.37 | 22.577 | |
| 14,200.00 | 12,472.07 | 14,202.10 | 12,473.07 | 50.15 | 45.03 | -89.33 | 1,594.54 | -2,459.98 | 2,040.29 | 1,948.18 | 92.12 | 22.149 | |
| 14,300.00 | 12,472.07 | 14,302.10 | 12,473.07 | 50.87 | 45.90 | -89.33 | 1,694.54 | -2,460.87 | 2,040.29 | 1,946.36 | 93.93 | 21.720 | |
| 14,400.00 | 12,472.07 | 14,402.10 | 12,473.07 | 51.62 | 46.84 | -89.33 | 1,794.53 | -2,461.76 | 2,040.29 | 1,944.47 | 95.82 | 21.294 | |
| 14,500.00 | 12,472.06 | 14,502.10 | 12,473.07 | 52.40 | 47.84 | -89.33 | 1,894.53 | -2,462.65 | 2,040.29 | 1,942.53 | 97.76 | 20.870 | |
| 14,600.00 | 12,472.06 | 14,602.10 | 12,473.06 | 53.20 | 48.88 | -89.33 | 1,994.52 | -2,463.54 | 2,040.28 | 1,940.52 | 99.76 | 20.452 | |
| 14,700.00 | 12,472.06 | 14,702.10 | 12,473.06 | 54.03 | 49.98 | -89.33 | 2,094.52 | -2,464.43 | 2,040.28 | 1,938.47 | 101.81 | 20.039 | |
| 14,800.00 | 12,472.06 | 14,802.10 | 12,473.06 | 54.88 | 51.11 | -89.33 | 2,194.52 | -2,465.32 | 2,040.28 | 1,936.36 | 103.92 | 19.634 | |
| 14,900.00 | 12,472.06 | 14,902.10 | 12,473.06 | 55.76 | 52.28 | -89.33 | 2,294.51 | -2,466.21 | 2,040.27 | 1,934.20 | 106.07 | 19.235 | |
| 15,000.00 | 12,472.05 | 15,002.10 | 12,473.06 | 56.66 | 53.48 | -89.33 | 2,394.51 | -2,467.10 | 2,040.27 | 1,932.00 | 108.27 | 18.845 | |
| 15,100.00 | 12,472.05 | 15,102.10 | 12,473.05 | 57.59 | 54.71 | -89.33 | 2,494.50 | -2,467.98 | 2,040.27 | 1,929.76 | 110.51 | 18.463 | |
| 15,200.00 | 12,472.05 | 15,202.10 | 12,473.05 | 58.53 | 55.97 | -89.33 | 2,594.50 | -2,468.87 | 2,040.26 | 1,927.48 | 112.78 | 18.090 | |
| 15,300.00 | 12,472.05 | 15,302.10 | 12,473.05 | 59.49 | 57.25 | -89.33 | 2,694.50 | -2,469.76 | 2,040.26 | 1,925.16 | 115.10 | 17.726 | |
| 15,400.00 | 12,472.04 | 15,402.10 | 12,473.05 | 60.47 | 58.56 | -89.33 | 2,794.49 | -2,470.65 | 2,040.26 | 1,922.81 | 117.45 | 17.371 | |
| 15,500.00 | 12,472.04 | 15,502.10 | 12,473.04 | 61.47 | 59.88 | -89.33 | 2,894.49 | -2,471.54 | 2,040.26 | 1,920.42 | 119.83 | 17.026 | |
| 15,600.00 | 12,472.04 | 15,602.10 | 12,473.04 | 62.49 | 61.23 | -89.33 | 2,994.48 | -2,472.43 | 2,040.25 | 1,918.00 | 122.25 | 16.689 | |
| 15,700.00 | 12,472.04 | 15,697.90 | 12,473.04 | 63.52 | 62.53 | -89.33 | 3,094.48 | -2,473.32 | 2,040.25 | 1,915.62 | 124.63 | 16.370 | |
| 15,800.00 | 12,472.03 | 15,802.10 | 12,473.04 | 64.57 | 63.96 | -89.33 | 3,194.48 | -2,474.21 | 2,040.25 | 1,913.08 | 127.16 | 16.044 | |
| 15,900.00 | 12,472.03 | 15,902.10 | 12,473.03 | 65.63 | 65.35 | -89.33 | 3,294.47 | -2,475.10 | 2,040.24 | 1,910.58 | 129.66 | 15.735 | |
| 16,000.00 | 12,472.03 | 16,002.10 | 12,473.03 | 66.71 | 66.76 | -89.33 | 3,394.47 | -2,475.99 | 2,040.24 | 1,908.06 | 132.18 | 15.435 | |
| 16,100.00 | 12,472.03 | 16,102.10 | 12,473.03 | 67.80 | 68.18 | -89.33 | 3,494.47 | -2,476.88 | 2,040.24 | 1,905.51 | 134.73 | 15.143 | |
| 16,200.00 | 12,472.02 | 16,202.10 | 12,473.03 | 68.90 | 69.61 | -89.33 | 3,594.46 | -2,477.77 | 2,040.23 | 1,902.94 | 137.29 | 14.860 | |
| 16,300.00 | 12,472.02 | 16,297.90 | 12,473.02 | 70.02 | 70.98 | -89.33 | 3,694.46 | -2,478.65 | 2,040.23 | 1,900.41 | 139.82 | 14.592 | |
| 16,400.00 | 12,472.02 | 16,402.10 | 12,473.02 | 71.14 | 72.49 | -89.33 | 3,794.45 | -2,479.54 | 2,040.23 | 1,897.74 | 142.49 | 14.318 | |
| 16,500.00 | 12,472.02 | 16,502.10 | 12,473.02 | 72.28 | 73.95 | -89.33 | 3,894.45 | -2,480.43 | 2,040.22 | 1,895.11 | 145.12 | 14.059 | |
| 16,600.00 | 12,472.02 | 16,602.10 | 12,473.02 | 73.43 | 75.42 | -89.33 | 3,994.45 | -2,481.32 | 2,040.22 | 1,892.46 | 147.76 | 13.808 | |
| 16,700.00 | 12,472.01 | 16,702.10 | 12,473.01 | 74.58 | 76.90 | -89.33 | 4,094.44 | -2,482.21 | 2,040.22 | 1,889.80 | 150.42 | 13.563 | |
| 16,800.00 | 12,472.01 | 16,802.10 | 12,473.01 | 75.75 | 78.38 | -89.33 | 4,194.44 | -2,483.10 | 2,040.22 | 1,887.12 | 153.10 | 13.326 | |
| 16,900.00 | 12,472.01 | 16,902.10 | 12,473.01 | 76.93 | 79.87 | -89.33 | 4,294.43 | -2,483.99 | 2,040.21 | 1,884.42 | 155.79 | 13.096 | |
| 17,000.00 | 12,472.01 | 17,002.10 | 12,473.01 | 78.11 | 81.37 | -89.33 | 4,394.43 | -2,484.88 | 2,040.21 | 1,881.72 | 158.49 | 12.872 | |
| 17,100.00 | 12,472.00 | 17,102.10 | 12,473.00 | 79.30 | 82.88 | -89.33 | 4,494.43 | -2,485.77 | 2,040.21 | 1,878.99 | 161.21 | 12.655 | |
| 17,200.00 | 12,472.00 | 17,202.10 | 12,473.00 | 80.51 | 84.39 | -89.33 | 4,594.42 | -2,486.66 | 2,040.20 | 1,876.26 | 163.95 | 12.444 | |
| 17,236.44 | 12,472.00 | 17,234.34 | 12,473.00 | 80.94 | 84.87 | -89.33 | 4,630.86 | -2,486.98 | 2,040.20 | 1,875.32 | 164.88 | 12.374 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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG — **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 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | 60.00 | 60.00 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.13 | 0.13 | 90.00 | 0.00 | 60.00 | 60.00 | 59.75 | 0.25 | 235.742 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.49 | 0.49 | 90.00 | 0.00 | 60.00 | 60.00 | 59.03 | 0.97 | 61.763 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.84 | 0.84 | 90.00 | 0.00 | 60.00 | 60.00 | 58.31 | 1.69 | 35.537 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.20 | 1.20 | 90.00 | 0.00 | 60.00 | 60.00 | 57.59 | 2.41 | 24.944 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.56 | 1.56 | 90.00 | 0.00 | 60.00 | 60.00 | 56.88 | 3.12 | 19.217 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.92 | 1.92 | 90.00 | 0.00 | 60.00 | 60.00 | 56.16 | 3.84 | 15.628 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.28 | 2.28 | 90.00 | 0.00 | 60.00 | 60.00 | 55.44 | 4.56 | 13.169 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.64 | 2.64 | 90.00 | 0.00 | 60.00 | 60.00 | 54.73 | 5.27 | 11.378 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.00 | 3.00 | 90.00 | 0.00 | 60.00 | 60.00 | 54.01 | 5.99 | 10.017 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.35 | 3.35 | 90.00 | 0.00 | 60.00 | 60.00 | 53.29 | 6.71 | 8.946 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 3.71 | 3.71 | 90.00 | 0.00 | 60.00 | 60.00 | 52.58 | 7.42 | 8.082 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 4.07 | 4.07 | 90.00 | 0.00 | 60.00 | 60.00 | 51.86 | 8.14 | 7.370 | CC |
| 1,300.00 | 1,299.99 | 1,300.01 | 1,299.99 | 4.41 | 4.43 | -140.34 | 0.00 | 60.00 | 60.67 | 51.83 | 8.84 | 6.861 | ES |
| 1,400.00 | 1,399.96 | 1,400.04 | 1,399.96 | 4.75 | 4.79 | -141.85 | 0.00 | 60.00 | 62.71 | 53.17 | 9.53 | 6.577 | |
| 1,500.00 | 1,499.86 | 1,500.14 | 1,499.86 | 5.08 | 5.15 | -144.16 | 0.00 | 60.00 | 66.19 | 55.96 | 10.23 | 6.471 | |
| 1,600.00 | 1,599.68 | 1,600.32 | 1,599.68 | 5.43 | 5.51 | -147.01 | 0.00 | 60.00 | 71.23 | 60.31 | 10.93 | 6.519 | |
| 1,700.00 | 1,699.37 | 1,700.63 | 1,699.37 | 5.77 | 5.87 | -150.12 | 0.00 | 60.00 | 77.94 | 66.31 | 11.63 | 6.702 | |
| 1,800.00 | 1,798.90 | 1,801.10 | 1,798.90 | 6.12 | 6.23 | -153.25 | 0.00 | 60.00 | 86.39 | 74.05 | 12.33 | 7.004 | |
| 1,900.00 | 1,898.26 | 1,901.74 | 1,898.26 | 6.48 | 6.59 | -156.22 | 0.00 | 60.00 | 96.64 | 83.60 | 13.04 | 7.410 | |
| 2,000.00 | 1,997.51 | 2,002.49 | 1,997.51 | 6.84 | 6.95 | -158.83 | 0.00 | 60.00 | 107.91 | 94.16 | 13.75 | 7.848 | |
| 2,100.00 | 2,096.77 | 2,103.23 | 2,096.77 | 7.20 | 7.31 | -160.94 | 0.00 | 60.00 | 119.37 | 104.91 | 14.46 | 8.255 | |
| 2,200.00 | 2,196.02 | 2,203.98 | 2,196.02 | 7.57 | 7.67 | -162.68 | 0.00 | 60.00 | 130.96 | 115.79 | 15.17 | 8.632 | |
| 2,300.00 | 2,295.28 | 2,304.72 | 2,295.28 | 7.94 | 8.03 | -164.14 | 0.00 | 60.00 | 142.65 | 126.76 | 15.88 | 8.980 | |
| 2,400.00 | 2,394.53 | 2,405.47 | 2,394.53 | 8.32 | 8.39 | -165.37 | 0.00 | 60.00 | 154.41 | 137.81 | 16.60 | 9.303 | |
| 2,500.00 | 2,493.79 | 2,506.21 | 2,493.79 | 8.69 | 8.75 | -166.43 | 0.00 | 60.00 | 166.24 | 148.92 | 17.31 | 9.601 | |
| 2,600.00 | 2,593.04 | 2,606.96 | 2,593.04 | 9.07 | 9.11 | -167.35 | 0.00 | 60.00 | 178.11 | 160.08 | 18.03 | 9.878 | |
| 2,700.00 | 2,692.30 | 2,707.70 | 2,692.30 | 9.45 | 9.48 | -168.16 | 0.00 | 60.00 | 190.02 | 171.28 | 18.75 | 10.136 | |
| 2,800.00 | 2,791.55 | 2,808.45 | 2,791.55 | 9.83 | 9.84 | -168.87 | 0.00 | 60.00 | 201.97 | 182.51 | 19.47 | 10.376 | |
| 2,900.00 | 2,890.81 | 2,909.19 | 2,890.81 | 10.21 | 10.20 | -169.50 | 0.00 | 60.00 | 213.94 | 193.76 | 20.18 | 10.600 | |
| 3,000.00 | 2,990.06 | 3,009.94 | 2,990.06 | 10.60 | 10.56 | -170.06 | 0.00 | 60.00 | 225.94 | 205.04 | 20.90 | 10.809 | |
| 3,100.00 | 3,089.32 | 3,089.32 | 3,089.32 | 10.98 | 10.84 | -170.57 | 0.00 | 60.00 | 237.96 | 216.41 | 21.55 | 11.044 | |
| 3,200.00 | 3,188.57 | 3,188.57 | 3,188.57 | 11.37 | 11.20 | -171.02 | 0.00 | 60.00 | 249.99 | 227.73 | 22.26 | 11.230 | |
| 3,300.00 | 3,287.82 | 3,287.82 | 3,287.82 | 11.75 | 11.55 | -171.44 | 0.00 | 60.00 | 262.04 | 239.06 | 22.98 | 11.405 | |
| 3,400.00 | 3,387.08 | 3,387.08 | 3,387.08 | 12.14 | 11.91 | -171.82 | 0.00 | 60.00 | 274.10 | 250.40 | 23.69 | 11.569 | |
| 3,500.00 | 3,486.33 | 3,486.33 | 3,486.33 | 12.53 | 12.27 | -172.17 | 0.00 | 60.00 | 286.17 | 261.76 | 24.41 | 11.724 | |
| 3,600.00 | 3,585.59 | 3,585.59 | 3,585.59 | 12.91 | 12.62 | -172.49 | 0.00 | 60.00 | 298.24 | 273.12 | 25.12 | 11.871 | |
| 3,700.00 | 3,684.84 | 3,684.84 | 3,684.84 | 13.30 | 12.98 | -172.78 | 0.00 | 60.00 | 310.33 | 284.49 | 25.84 | 12.009 | |
| 3,800.00 | 3,784.10 | 3,784.10 | 3,784.10 | 13.69 | 13.33 | -173.05 | 0.00 | 60.00 | 322.43 | 295.87 | 26.56 | 12.140 | |
| 3,900.00 | 3,883.35 | 3,883.35 | 3,883.35 | 14.08 | 13.69 | -173.30 | 0.00 | 60.00 | 334.53 | 307.25 | 27.28 | 12.265 | |
| 4,000.00 | 3,982.61 | 3,982.61 | 3,982.61 | 14.47 | 14.05 | -173.54 | 0.00 | 60.00 | 346.64 | 318.64 | 27.99 | 12.383 | |
| 4,100.00 | 4,081.86 | 4,081.86 | 4,081.86 | 14.86 | 14.40 | -173.76 | 0.00 | 60.00 | 358.75 | 330.04 | 28.71 | 12.495 | |
| 4,200.00 | 4,181.12 | 4,181.12 | 4,181.12 | 15.25 | 14.76 | -173.96 | 0.00 | 60.00 | 370.87 | 341.44 | 29.43 | 12.602 | |
| 4,300.00 | 4,280.37 | 4,280.37 | 4,280.37 | 15.65 | 15.11 | -174.15 | 0.00 | 60.00 | 382.99 | 352.84 | 30.15 | 12.704 | |
| 4,400.00 | 4,379.63 | 4,379.63 | 4,379.63 | 16.04 | 15.47 | -174.33 | 0.00 | 60.00 | 395.12 | 364.25 | 30.87 | 12.801 | |
| 4,500.00 | 4,478.88 | 4,478.88 | 4,478.88 | 16.43 | 15.82 | -174.50 | 0.00 | 60.00 | 407.25 | 375.66 | 31.59 | 12.894 | |
| 4,600.00 | 4,578.13 | 4,578.13 | 4,578.13 | 16.82 | 16.18 | -174.66 | 0.00 | 60.00 | 419.38 | 387.08 | 32.30 | 12.982 | |
| 4,700.00 | 4,677.39 | 4,677.39 | 4,677.39 | 17.21 | 16.54 | -174.81 | 0.00 | 60.00 | 431.52 | 398.49 | 33.02 | 13.067 | |
| 4,800.00 | 4,776.64 | 4,776.64 | 4,776.64 | 17.61 | 16.89 | -174.96 | 0.00 | 60.00 | 443.66 | 409.91 | 33.74 | 13.148 | |
| 4,900.00 | 4,875.90 | 4,876.64 | 4,876.64 | 18.00 | 17.24 | -174.99 | -0.66 | 60.39 | 455.74 | 421.28 | 34.45 | 13.227 | |
| 5,000.00 | 4,975.15 | 4,976.86 | 4,976.80 | 18.39 | 17.57 | -174.72 | -3.52 | 62.08 | 467.62 | 432.47 | 35.15 | 13.303 | |
| 5,100.00 | 5,074.41 | 5,076.95 | 5,076.71 | 18.79 | 17.89 | -174.14 | -8.64 | 65.11 | 479.33 | 443.48 | 35.84 | 13.372 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A — Offset Site Error: 0.00 usft

Survey Program: 0-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,173.66 | 5,176.48 | 5,175.89 | 19.18 | 18.22 | -173.32 | -15.75 | 69.31 | 490.95 | 454.42 | 36.54 | 13.437 | |
| 5,300.00 | 5,272.92 | 5,275.53 | 5,274.57 | 19.57 | 18.55 | -172.49 | -23.18 | 73.70 | 502.66 | 465.43 | 37.23 | 13.501 | |
| 5,400.00 | 5,372.17 | 5,374.58 | 5,373.24 | 19.97 | 18.87 | -171.70 | -30.62 | 78.09 | 514.47 | 476.54 | 37.93 | 13.564 | |
| 5,500.00 | 5,471.43 | 5,473.64 | 5,471.92 | 20.36 | 19.09 | -170.94 | -38.05 | 82.48 | 526.37 | 487.86 | 38.51 | 13.670 | |
| 5,522.48 | 5,493.73 | 5,495.90 | 5,494.10 | 20.45 | 19.13 | -170.77 | -39.72 | 83.47 | 529.05 | 490.43 | 38.63 | 13.697 | |
| 5,600.00 | 5,570.74 | 5,572.75 | 5,570.65 | 20.75 | 19.14 | -170.22 | -45.48 | 86.88 | 537.84 | 498.91 | 38.93 | 13.817 | |
| 5,700.00 | 5,670.24 | 5,672.01 | 5,669.54 | 21.14 | 19.16 | -169.51 | -52.93 | 91.28 | 547.73 | 508.42 | 39.31 | 13.934 | |
| 5,800.00 | 5,769.90 | 5,771.41 | 5,768.56 | 21.51 | 19.18 | -168.78 | -60.39 | 95.69 | 556.01 | 516.31 | 39.70 | 14.005 | |
| 5,900.00 | 5,869.69 | 5,870.91 | 5,867.68 | 21.88 | 19.21 | -168.04 | -67.86 | 100.10 | 562.67 | 522.57 | 40.10 | 14.033 | |
| 6,000.00 | 5,969.57 | 5,970.49 | 5,966.88 | 22.24 | 19.25 | -167.27 | -75.33 | 104.51 | 567.73 | 527.23 | 40.50 | 14.018 | |
| 6,100.00 | 6,069.53 | 6,070.11 | 6,066.12 | 22.59 | 19.30 | -166.47 | -82.80 | 108.93 | 571.20 | 530.29 | 40.91 | 13.963 | |
| 6,200.00 | 6,169.52 | 6,169.73 | 6,165.37 | 22.94 | 19.35 | -165.64 | -90.28 | 113.35 | 573.09 | 531.77 | 41.32 | 13.869 | |
| 6,222.48 | 6,191.99 | 6,207.88 | 6,187.67 | 23.01 | 19.36 | 64.36 | -91.96 | 114.34 | 573.29 | 531.87 | 41.42 | 13.841 | |
| 6,300.00 | 6,269.52 | 6,269.35 | 6,264.61 | 23.26 | 19.42 | 65.03 | -97.75 | 117.76 | 573.92 | 532.20 | 41.72 | 13.756 | |
| 6,400.00 | 6,369.52 | 6,368.97 | 6,363.85 | 23.58 | 19.49 | 65.89 | -105.23 | 122.18 | 574.84 | 532.71 | 42.13 | 13.645 | |
| 6,500.00 | 6,469.52 | 6,468.59 | 6,463.09 | 23.90 | 19.57 | 66.75 | -112.70 | 126.60 | 575.89 | 533.34 | 42.55 | 13.536 | |
| 6,600.00 | 6,569.52 | 6,568.21 | 6,562.33 | 24.22 | 19.65 | 67.61 | -120.18 | 131.02 | 577.07 | 534.10 | 42.97 | 13.430 | |
| 6,700.00 | 6,669.52 | 6,667.83 | 6,661.57 | 24.54 | 19.74 | 68.46 | -127.65 | 135.43 | 578.38 | 534.98 | 43.40 | 13.327 | |
| 6,800.00 | 6,769.52 | 6,767.45 | 6,760.81 | 24.87 | 19.84 | 69.31 | -135.13 | 139.85 | 579.82 | 535.98 | 43.84 | 13.226 | |
| 6,900.00 | 6,869.52 | 6,867.07 | 6,860.05 | 25.19 | 19.95 | 70.15 | -142.60 | 144.27 | 581.38 | 537.10 | 44.29 | 13.128 | |
| 7,000.00 | 6,969.52 | 6,966.69 | 6,959.29 | 25.52 | 20.06 | 70.99 | -150.08 | 148.68 | 583.08 | 538.34 | 44.74 | 13.033 | |
| 7,100.00 | 7,069.52 | 7,066.31 | 7,058.53 | 25.85 | 20.18 | 71.82 | -157.55 | 153.10 | 584.89 | 539.69 | 45.20 | 12.940 | |
| 7,200.00 | 7,169.52 | 7,165.93 | 7,157.77 | 26.18 | 20.31 | 72.65 | -165.03 | 157.52 | 586.83 | 541.16 | 45.67 | 12.850 | |
| 7,300.00 | 7,269.52 | 7,265.55 | 7,257.01 | 26.50 | 20.44 | 73.47 | -172.50 | 161.93 | 588.89 | 542.75 | 46.14 | 12.763 | |
| 7,400.00 | 7,369.52 | 7,365.17 | 7,356.25 | 26.83 | 20.58 | 74.29 | -179.98 | 166.35 | 591.08 | 544.46 | 46.62 | 12.678 | |
| 7,500.00 | 7,469.52 | 7,464.79 | 7,455.49 | 27.16 | 20.72 | 75.10 | -187.45 | 170.77 | 593.38 | 546.27 | 47.11 | 12.596 | |
| 7,600.00 | 7,569.52 | 7,564.41 | 7,554.73 | 27.49 | 20.87 | 75.90 | -194.93 | 175.19 | 595.81 | 548.20 | 47.60 | 12.516 | |
| 7,700.00 | 7,669.52 | 7,664.03 | 7,653.97 | 27.83 | 21.03 | 76.70 | -202.40 | 179.60 | 598.35 | 550.24 | 48.10 | 12.439 | |
| 7,800.00 | 7,769.52 | 7,763.65 | 7,753.21 | 28.16 | 21.19 | 77.49 | -209.88 | 184.02 | 601.00 | 552.39 | 48.61 | 12.364 | |
| 7,900.00 | 7,869.52 | 7,863.27 | 7,852.46 | 28.49 | 21.36 | 78.27 | -217.35 | 188.44 | 603.77 | 554.65 | 49.12 | 12.292 | |
| 8,000.00 | 7,969.52 | 7,962.89 | 7,951.70 | 28.82 | 21.54 | 79.05 | -224.83 | 192.85 | 606.65 | 557.02 | 49.64 | 12.222 | |
| 8,100.00 | 8,069.52 | 8,062.51 | 8,050.94 | 29.16 | 21.72 | 79.82 | -232.30 | 197.27 | 609.65 | 559.49 | 50.16 | 12.155 | |
| 8,200.00 | 8,169.52 | 8,162.12 | 8,150.18 | 29.49 | 21.90 | 80.58 | -239.78 | 201.69 | 612.75 | 562.06 | 50.68 | 12.090 | |
| 8,300.00 | 8,269.52 | 8,261.74 | 8,249.42 | 29.83 | 22.09 | 81.34 | -247.25 | 206.10 | 615.96 | 564.74 | 51.22 | 12.027 | |
| 8,400.00 | 8,369.52 | 8,361.36 | 8,348.66 | 30.16 | 22.29 | 82.08 | -254.73 | 210.52 | 619.27 | 567.52 | 51.75 | 11.966 | |
| 8,500.00 | 8,469.52 | 8,460.98 | 8,447.90 | 30.50 | 22.49 | 82.82 | -262.20 | 214.94 | 622.70 | 570.40 | 52.29 | 11.908 | |
| 8,600.00 | 8,569.52 | 8,560.60 | 8,547.14 | 30.84 | 22.69 | 83.55 | -269.68 | 219.36 | 626.22 | 573.38 | 52.84 | 11.851 | |
| 8,700.00 | 8,669.52 | 8,660.22 | 8,646.38 | 31.17 | 22.90 | 84.27 | -277.15 | 223.77 | 629.84 | 576.45 | 53.39 | 11.797 | |
| 8,800.00 | 8,769.52 | 8,759.84 | 8,745.62 | 31.51 | 23.11 | 84.98 | -284.63 | 228.19 | 633.57 | 579.62 | 53.94 | 11.745 | |
| 8,900.00 | 8,869.52 | 8,859.46 | 8,844.86 | 31.85 | 23.33 | 85.69 | -292.10 | 232.61 | 637.39 | 582.88 | 54.50 | 11.695 | |
| 9,000.00 | 8,969.52 | 8,959.08 | 8,944.10 | 32.19 | 23.55 | 86.38 | -299.58 | 237.02 | 641.30 | 586.24 | 55.07 | 11.646 | |
| 9,100.00 | 9,069.52 | 9,058.70 | 9,043.34 | 32.53 | 23.78 | 87.07 | -307.05 | 241.44 | 645.31 | 589.68 | 55.63 | 11.600 | |
| 9,200.00 | 9,169.52 | 9,158.32 | 9,142.58 | 32.87 | 24.01 | 87.75 | -314.53 | 245.86 | 649.42 | 593.21 | 56.20 | 11.555 | |
| 9,300.00 | 9,269.52 | 9,263.39 | 9,247.30 | 33.21 | 24.26 | 88.41 | -321.93 | 250.23 | 653.36 | 596.55 | 56.81 | 11.501 | |
| 9,400.00 | 9,369.52 | 9,372.37 | 9,356.11 | 33.55 | 24.50 | 88.88 | -327.16 | 253.32 | 656.09 | 598.66 | 57.43 | 11.425 | |
| 9,500.00 | 9,469.52 | 9,481.61 | 9,465.30 | 33.89 | 24.74 | 89.10 | -329.72 | 254.84 | 657.43 | 599.40 | 58.03 | 11.329 | |
| 9,600.00 | 9,569.52 | 9,585.83 | 9,569.52 | 34.23 | 24.95 | 89.13 | -330.00 | 255.00 | 657.58 | 598.99 | 58.59 | 11.223 | |
| 9,700.00 | 9,669.52 | 9,685.83 | 9,669.52 | 34.57 | 25.14 | 89.13 | -330.00 | 255.00 | 657.58 | 598.45 | 59.13 | 11.121 | |
| 9,800.00 | 9,769.52 | 9,785.83 | 9,769.52 | 34.91 | 25.34 | 89.13 | -330.00 | 255.00 | 657.58 | 597.90 | 59.67 | 11.020 | |
| 9,900.00 | 9,869.52 | 9,885.83 | 9,869.52 | 35.25 | 25.54 | 89.13 | -330.00 | 255.00 | 657.58 | 597.36 | 60.22 | 10.920 | |
| 10,000.00 | 9,969.52 | 9,985.83 | 9,969.52 | 35.60 | 25.74 | 89.13 | -330.00 | 255.00 | 657.58 | 596.81 | 60.77 | 10.821 | |
| 10,100.00 | 10,069.52 | 10,085.83 | 10,069.52 | 35.94 | 25.95 | 89.13 | -330.00 | 255.00 | 657.58 | 596.26 | 61.32 | 10.724 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A — Offset Site Error: 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,200.00 | 10,169.52 | 10,185.83 | 10,169.52 | 36.28 | 26.16 | 89.13 | -330.00 | 255.00 | 657.58 | 595.70 | 61.88 | 10.627 | |
| 10,300.00 | 10,269.52 | 10,285.83 | 10,269.52 | 36.63 | 26.38 | 89.13 | -330.00 | 255.00 | 657.58 | 595.14 | 62.44 | 10.532 | |
| 10,400.00 | 10,369.52 | 10,385.83 | 10,369.52 | 36.97 | 26.59 | 89.13 | -330.00 | 255.00 | 657.58 | 594.58 | 63.00 | 10.438 | |
| 10,500.00 | 10,469.52 | 10,485.83 | 10,469.52 | 37.31 | 26.81 | 89.13 | -330.00 | 255.00 | 657.58 | 594.01 | 63.57 | 10.345 | |
| 10,600.00 | 10,569.52 | 10,585.83 | 10,569.52 | 37.66 | 27.04 | 89.13 | -330.00 | 255.00 | 657.58 | 593.44 | 64.14 | 10.253 | |
| 10,700.00 | 10,669.52 | 10,685.83 | 10,669.52 | 38.00 | 27.26 | 89.13 | -330.00 | 255.00 | 657.58 | 592.87 | 64.71 | 10.162 | |
| 10,800.00 | 10,769.52 | 10,785.83 | 10,769.52 | 38.35 | 27.49 | 89.13 | -330.00 | 255.00 | 657.58 | 592.29 | 65.29 | 10.072 | |
| 10,900.00 | 10,869.52 | 10,885.83 | 10,869.52 | 38.69 | 27.72 | 89.13 | -330.00 | 255.00 | 657.58 | 591.71 | 65.86 | 9.984 | |
| 11,000.00 | 10,969.52 | 10,985.83 | 10,969.52 | 39.04 | 27.96 | 89.13 | -330.00 | 255.00 | 657.58 | 591.13 | 66.45 | 9.896 | |
| 11,100.00 | 11,069.52 | 11,085.83 | 11,069.52 | 39.38 | 28.19 | 89.13 | -330.00 | 255.00 | 657.58 | 590.54 | 67.03 | 9.810 | |
| 11,200.00 | 11,169.52 | 11,185.83 | 11,169.52 | 39.73 | 28.43 | 89.13 | -330.00 | 255.00 | 657.58 | 589.96 | 67.62 | 9.725 | |
| 11,300.00 | 11,269.52 | 11,285.83 | 11,269.52 | 40.07 | 28.67 | 89.13 | -330.00 | 255.00 | 657.58 | 589.37 | 68.21 | 9.641 | |
| 11,400.00 | 11,369.52 | 11,385.83 | 11,369.52 | 40.42 | 28.92 | 89.13 | -330.00 | 255.00 | 657.58 | 588.77 | 68.80 | 9.558 | |
| 11,500.00 | 11,469.52 | 11,485.83 | 11,469.52 | 40.77 | 29.16 | 89.13 | -330.00 | 255.00 | 657.58 | 588.18 | 69.40 | 9.476 | |
| 11,600.00 | 11,569.52 | 11,585.83 | 11,569.52 | 41.11 | 29.41 | 89.13 | -330.00 | 255.00 | 657.58 | 587.58 | 69.99 | 9.395 | |
| 11,700.00 | 11,669.52 | 11,685.83 | 11,669.52 | 41.46 | 29.66 | 89.13 | -330.00 | 255.00 | 657.58 | 586.98 | 70.60 | 9.315 | |
| 11,800.00 | 11,769.52 | 11,785.83 | 11,769.52 | 41.81 | 29.92 | 89.13 | -330.00 | 255.00 | 657.58 | 586.38 | 71.20 | 9.236 | |
| 11,900.00 | 11,869.52 | 11,885.83 | 11,869.52 | 42.15 | 30.17 | 89.13 | -330.00 | 255.00 | 657.58 | 585.77 | 71.80 | 9.158 | |
| 11,919.48 | 11,889.00 | 11,905.31 | 11,889.00 | 42.22 | 30.22 | 89.13 | -330.00 | 255.00 | 657.58 | 585.66 | 71.92 | 9.143 | |
| 11,950.00 | 11,919.50 | 11,935.82 | 11,919.50 | 42.33 | 30.30 | 89.71 | -330.00 | 255.00 | 657.57 | 585.47 | 72.11 | 9.120 | |
| 11,988.46 | 11,957.81 | 11,974.12 | 11,957.81 | 42.45 | 30.40 | 90.00 | -330.00 | 255.00 | 657.56 | 585.23 | 72.33 | 9.091 | |
| 12,000.00 | 11,969.25 | 11,985.57 | 11,969.25 | 42.49 | 30.43 | 90.13 | -330.00 | 255.00 | 657.56 | 585.16 | 72.40 | 9.082 | |
| 12,050.00 | 12,018.39 | 12,035.42 | 12,019.03 | 42.65 | 30.55 | 90.72 | -327.63 | 254.98 | 657.62 | 584.93 | 72.69 | 9.047 | |
| 12,100.00 | 12,066.55 | 12,085.87 | 12,069.01 | 42.81 | 30.67 | 91.30 | -320.85 | 254.94 | 657.75 | 584.79 | 72.96 | 9.015 | |
| 12,150.00 | 12,113.35 | 12,136.95 | 12,118.81 | 42.95 | 30.78 | 91.88 | -309.52 | 254.86 | 657.96 | 584.74 | 73.22 | 8.986 | |
| 12,200.00 | 12,158.45 | 12,188.67 | 12,167.99 | 43.08 | 30.88 | 92.45 | -293.59 | 254.75 | 658.25 | 584.78 | 73.46 | 8.960 | |
| 12,250.00 | 12,201.49 | 12,241.04 | 12,216.13 | 43.20 | 30.97 | 93.00 | -273.01 | 254.60 | 658.59 | 584.90 | 73.69 | 8.937 | |
| 12,300.00 | 12,242.16 | 12,294.06 | 12,262.74 | 43.30 | 31.05 | 93.53 | -247.78 | 254.43 | 658.99 | 585.09 | 73.90 | 8.917 | |
| 12,350.00 | 12,280.14 | 12,347.72 | 12,307.33 | 43.40 | 31.13 | 94.04 | -217.97 | 254.22 | 659.44 | 585.34 | 74.10 | 8.899 | |
| 12,400.00 | 12,315.14 | 12,402.02 | 12,349.42 | 43.48 | 31.19 | 94.51 | -183.70 | 253.98 | 659.92 | 585.64 | 74.28 | 8.884 | |
| 12,450.00 | 12,346.90 | 12,456.92 | 12,388.49 | 43.55 | 31.26 | 94.95 | -145.16 | 253.71 | 660.42 | 585.96 | 74.46 | 8.870 | |
| 12,500.00 | 12,375.17 | 12,512.41 | 12,424.04 | 43.60 | 31.32 | 95.36 | -102.59 | 253.41 | 660.92 | 586.29 | 74.63 | 8.856 | |
| 12,550.00 | 12,399.74 | 12,568.43 | 12,455.59 | 43.65 | 31.39 | 95.71 | -56.32 | 253.09 | 661.41 | 586.61 | 74.79 | 8.843 | |
| 12,600.00 | 12,420.43 | 12,624.94 | 12,482.68 | 43.69 | 31.47 | 96.03 | -6.76 | 252.74 | 661.87 | 586.90 | 74.96 | 8.829 | |
| 12,650.00 | 12,437.07 | 12,681.87 | 12,504.91 | 43.74 | 31.56 | 96.29 | 45.63 | 252.38 | 662.29 | 587.15 | 75.14 | 8.814 | |
| 12,700.00 | 12,449.55 | 12,739.17 | 12,521.92 | 43.78 | 31.68 | 96.49 | 100.32 | 252.00 | 662.65 | 587.32 | 75.33 | 8.797 | |
| 12,719.48 | 12,453.25 | 12,761.57 | 12,527.07 | 43.80 | 33.24 | 96.56 | 122.12 | 251.84 | 662.78 | 587.38 | 75.40 | 8.791 | |
| 12,744.48 | 12,457.59 | 12,789.44 | 12,532.32 | 43.83 | 37.08 | 96.59 | 149.49 | 251.65 | 662.87 | 587.39 | 75.48 | 8.783 | |
| 12,750.00 | 12,458.54 | 12,794.96 | 12,533.28 | 43.84 | 37.08 | 96.59 | 154.92 | 251.61 | 662.88 | 587.39 | 75.49 | 8.781 | |
| 12,800.00 | 12,465.64 | 12,848.42 | 12,541.73 | 43.92 | 37.11 | 96.66 | 207.70 | 251.24 | 663.06 | 587.42 | 75.64 | 8.766 | |
| 12,850.00 | 12,470.15 | 12,903.19 | 12,547.41 | 44.00 | 37.13 | 96.71 | 262.17 | 250.82 | 663.20 | 587.39 | 75.82 | 8.747 | |
| 12,900.00 | 12,472.04 | 12,958.00 | 12,549.95 | 44.09 | 37.16 | 96.75 | 316.91 | 250.37 | 663.29 | 587.26 | 76.03 | 8.724 | |
| 12,911.17 | 12,472.10 | 12,970.25 | 12,550.09 | 44.11 | 37.17 | 96.75 | 329.16 | 250.27 | 663.30 | 587.22 | 76.08 | 8.719 | |
| 13,000.00 | 12,472.10 | 13,059.50 | 12,550.10 | 44.31 | 37.22 | 96.75 | 418.41 | 249.50 | 663.33 | 586.79 | 76.54 | 8.667 | |
| 13,100.00 | 12,472.10 | 13,159.50 | 12,550.10 | 44.57 | 37.27 | 96.75 | 518.40 | 248.64 | 663.36 | 586.19 | 77.17 | 8.596 | |
| 13,200.00 | 12,472.10 | 13,259.50 | 12,550.10 | 44.88 | 37.33 | 96.75 | 618.40 | 247.78 | 663.39 | 585.48 | 77.92 | 8.514 | |
| 13,300.00 | 12,472.09 | 13,359.50 | 12,550.09 | 45.24 | 37.40 | 96.75 | 718.40 | 246.91 | 663.42 | 584.64 | 78.78 | 8.421 | |
| 13,400.00 | 12,472.09 | 13,459.50 | 12,550.09 | 45.63 | 37.47 | 96.75 | 818.39 | 246.05 | 663.45 | 583.69 | 79.76 | 8.318 | |
| 13,500.00 | 12,472.09 | 13,559.50 | 12,550.09 | 46.07 | 37.56 | 96.75 | 918.39 | 245.19 | 663.48 | 582.63 | 80.86 | 8.206 | |
| 13,600.00 | 12,472.09 | 13,659.50 | 12,550.09 | 46.54 | 37.67 | 96.75 | 1,018.38 | 244.33 | 663.51 | 581.46 | 82.05 | 8.087 | |
| 13,700.00 | 12,472.08 | 13,759.50 | 12,550.08 | 47.05 | 37.83 | 96.75 | 1,118.38 | 243.47 | 663.54 | 580.20 | 83.35 | 7.961 | |
| 13,800.00 | 12,472.08 | 13,859.50 | 12,550.08 | 47.60 | 38.13 | 96.75 | 1,218.38 | 242.61 | 663.57 | 578.84 | 84.73 | 7.831 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A — Offset Site Error: 0.00 usft

Survey Program: 0-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,900.00 | 12,472.08 | 13,959.50 | 12,550.08 | 48.19 | 38.68 | 96.75 | 1,318.37 | 241.74 | 663.60 | 577.39 | 86.21 | 7.697 | |
| 14,000.00 | 12,472.08 | 14,059.50 | 12,550.08 | 48.81 | 39.46 | 96.75 | 1,418.37 | 240.88 | 663.63 | 575.86 | 87.77 | 7.561 | |
| 14,100.00 | 12,472.07 | 14,159.50 | 12,550.07 | 49.47 | 40.38 | 96.75 | 1,518.37 | 240.02 | 663.66 | 574.25 | 89.42 | 7.422 | |
| 14,200.00 | 12,472.07 | 14,259.50 | 12,550.07 | 50.15 | 41.38 | 96.75 | 1,618.36 | 239.16 | 663.69 | 572.56 | 91.13 | 7.283 | |
| 14,300.00 | 12,472.07 | 14,359.50 | 12,550.07 | 50.87 | 42.43 | 96.75 | 1,718.36 | 238.30 | 663.72 | 570.81 | 92.92 | 7.143 | |
| 14,400.00 | 12,472.07 | 14,459.50 | 12,550.07 | 51.62 | 43.53 | 96.75 | 1,818.35 | 237.44 | 663.75 | 568.98 | 94.77 | 7.004 | |
| 14,500.00 | 12,472.06 | 14,559.50 | 12,550.07 | 52.40 | 44.66 | 96.75 | 1,918.35 | 236.57 | 663.78 | 567.10 | 96.69 | 6.865 | |
| 14,600.00 | 12,472.06 | 14,659.50 | 12,550.06 | 53.20 | 45.83 | 96.75 | 2,018.35 | 235.71 | 663.81 | 565.15 | 98.66 | 6.728 | |
| 14,700.00 | 12,472.06 | 14,759.50 | 12,550.06 | 54.03 | 47.04 | 96.75 | 2,118.34 | 234.85 | 663.84 | 563.16 | 100.69 | 6.593 | |
| 14,800.00 | 12,472.06 | 14,859.50 | 12,550.06 | 54.88 | 48.27 | 96.75 | 2,218.34 | 233.99 | 663.87 | 561.11 | 102.77 | 6.460 | |
| 14,900.00 | 12,472.06 | 14,959.50 | 12,550.06 | 55.76 | 49.52 | 96.75 | 2,318.34 | 233.13 | 663.91 | 559.01 | 104.90 | 6.329 | |
| 15,000.00 | 12,472.05 | 15,059.50 | 12,550.05 | 56.66 | 50.80 | 96.75 | 2,418.33 | 232.27 | 663.94 | 556.87 | 107.07 | 6.201 | |
| 15,100.00 | 12,472.05 | 15,159.50 | 12,550.05 | 57.59 | 52.10 | 96.75 | 2,518.33 | 231.40 | 663.97 | 554.68 | 109.29 | 6.076 | |
| 15,200.00 | 12,472.05 | 15,259.50 | 12,550.05 | 58.53 | 53.42 | 96.75 | 2,618.33 | 230.54 | 664.00 | 552.45 | 111.54 | 5.952 | |
| 15,300.00 | 12,472.05 | 15,359.50 | 12,550.05 | 59.49 | 54.76 | 96.75 | 2,718.32 | 229.68 | 664.03 | 550.19 | 113.84 | 5.833 | |
| 15,400.00 | 12,472.04 | 15,459.50 | 12,550.04 | 60.47 | 56.12 | 96.75 | 2,818.32 | 228.82 | 664.06 | 547.89 | 116.16 | 5.717 | |
| 15,500.00 | 12,472.04 | 15,559.50 | 12,550.04 | 61.47 | 57.49 | 96.75 | 2,918.31 | 227.96 | 664.09 | 545.56 | 118.53 | 5.603 | |
| 15,600.00 | 12,472.04 | 15,659.50 | 12,550.04 | 62.49 | 58.88 | 96.74 | 3,018.31 | 227.10 | 664.12 | 543.19 | 120.92 | 5.492 | |
| 15,700.00 | 12,472.04 | 15,759.50 | 12,550.04 | 63.52 | 60.28 | 96.74 | 3,118.31 | 226.23 | 664.15 | 540.80 | 123.35 | 5.384 | |
| 15,800.00 | 12,472.03 | 15,859.50 | 12,550.03 | 64.57 | 61.70 | 96.74 | 3,218.30 | 225.37 | 664.18 | 538.38 | 125.80 | 5.280 | |
| 15,900.00 | 12,472.03 | 15,959.50 | 12,550.03 | 65.63 | 63.12 | 96.74 | 3,318.30 | 224.51 | 664.21 | 535.93 | 128.28 | 5.178 | |
| 16,000.00 | 12,472.03 | 16,059.50 | 12,550.03 | 66.71 | 64.56 | 96.74 | 3,418.30 | 223.65 | 664.24 | 533.46 | 130.78 | 5.079 | |
| 16,100.00 | 12,472.03 | 16,159.50 | 12,550.03 | 67.80 | 66.01 | 96.74 | 3,518.29 | 222.79 | 664.27 | 530.96 | 133.30 | 4.983 | |
| 16,200.00 | 12,472.02 | 16,259.50 | 12,550.02 | 68.90 | 67.47 | 96.74 | 3,618.29 | 221.93 | 664.30 | 528.44 | 135.85 | 4.890 | |
| 16,300.00 | 12,472.02 | 16,359.50 | 12,550.02 | 70.02 | 68.94 | 96.74 | 3,718.28 | 221.06 | 664.33 | 525.91 | 138.42 | 4.799 | |
| 16,400.00 | 12,472.02 | 16,459.50 | 12,550.02 | 71.14 | 70.41 | 96.74 | 3,818.28 | 220.20 | 664.36 | 523.35 | 141.01 | 4.711 | |
| 16,500.00 | 12,472.02 | 16,559.50 | 12,550.02 | 72.28 | 71.90 | 96.74 | 3,918.28 | 219.34 | 664.39 | 520.77 | 143.62 | 4.626 | |
| 16,600.00 | 12,472.02 | 16,659.50 | 12,550.02 | 73.43 | 73.39 | 96.74 | 4,018.27 | 218.48 | 664.42 | 518.17 | 146.25 | 4.543 | |
| 16,700.00 | 12,472.01 | 16,759.50 | 12,550.01 | 74.58 | 74.89 | 96.74 | 4,118.27 | 217.62 | 664.45 | 515.56 | 148.89 | 4.463 | |
| 16,800.00 | 12,472.01 | 16,859.50 | 12,550.01 | 75.75 | 76.39 | 96.74 | 4,218.27 | 216.75 | 664.48 | 512.93 | 151.55 | 4.385 | |
| 16,900.00 | 12,472.01 | 16,959.50 | 12,550.01 | 76.93 | 77.90 | 96.74 | 4,318.26 | 215.89 | 664.51 | 510.29 | 154.22 | 4.309 | |
| 17,000.00 | 12,472.01 | 17,059.50 | 12,550.01 | 78.11 | 79.42 | 96.74 | 4,418.26 | 215.03 | 664.54 | 507.63 | 156.91 | 4.235 | |
| 17,100.00 | 12,472.00 | 17,159.50 | 12,550.00 | 79.30 | 80.94 | 96.74 | 4,518.25 | 214.17 | 664.57 | 504.96 | 159.61 | 4.164 | |
| 17,200.00 | 12,472.00 | 17,259.50 | 12,550.00 | 80.51 | 82.47 | 96.74 | 4,618.25 | 213.31 | 664.60 | 502.27 | 162.33 | 4.094 | |
| 17,236.44 | 12,472.00 | 17,295.94 | 12,550.00 | 80.94 | 83.03 | 96.74 | 4,654.69 | 212.99 | 664.61 | 501.29 | 163.32 | 4.069 SF | |

# Pro Directional

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 215H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12810-MWD - OWSG — **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 | 57.00 | 57.00 | 0.00 | 0.07 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | | | | |
| 100.00 | 100.00 | 157.00 | 157.00 | 0.13 | 0.33 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,469.55 | 0.46 | 7,562.500 | |
| 200.00 | 200.00 | 257.00 | 257.00 | 0.49 | 0.69 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,468.83 | 1.18 | 2,951.221 | |
| 300.00 | 300.00 | 357.00 | 357.00 | 0.84 | 1.05 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,468.11 | 1.89 | 1,833.334 | |
| 400.00 | 400.00 | 457.00 | 457.00 | 1.20 | 1.41 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,467.40 | 2.61 | 1,329.671 | |
| 500.00 | 500.00 | 557.00 | 557.00 | 1.56 | 1.77 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,466.68 | 3.33 | 1,043.104 | |
| 600.00 | 600.00 | 657.00 | 657.00 | 1.92 | 2.12 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,465.96 | 4.04 | 858.157 | |
| 700.00 | 700.00 | 757.00 | 757.00 | 2.28 | 2.48 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,465.25 | 4.76 | 728.916 | |
| 800.00 | 800.00 | 857.00 | 857.00 | 2.64 | 2.84 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,464.53 | 5.48 | 633.508 | |
| 900.00 | 900.00 | 957.00 | 957.00 | 3.00 | 3.20 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,463.81 | 6.19 | 560.186 | |
| 1,000.00 | 1,000.00 | 1,057.00 | 1,057.00 | 3.35 | 3.56 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,463.10 | 6.91 | 502.075 | |
| 1,100.00 | 1,100.00 | 1,157.00 | 1,157.00 | 3.71 | 3.92 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,462.38 | 7.63 | 454.888 | |
| 1,200.00 | 1,200.00 | 1,257.00 | 1,257.00 | 4.07 | 4.27 | -91.95 | -118.00 | -3,468.00 | 3,470.01 | 3,461.66 | 8.35 | 415.808 | |
| 1,300.00 | 1,299.99 | 1,356.99 | 1,356.99 | 4.41 | 4.63 | 38.25 | -118.00 | -3,468.00 | 3,469.32 | 3,460.27 | 9.05 | 383.462 | |
| 1,400.00 | 1,399.96 | 1,456.96 | 1,456.96 | 4.75 | 4.99 | 38.29 | -118.00 | -3,468.00 | 3,467.27 | 3,457.53 | 9.74 | 356.055 | |
| 1,500.00 | 1,499.86 | 1,556.86 | 1,556.86 | 5.08 | 5.35 | 38.36 | -118.00 | -3,468.00 | 3,463.84 | 3,453.41 | 10.43 | 332.035 | |
| 1,600.00 | 1,599.68 | 1,656.68 | 1,656.68 | 5.43 | 5.71 | 38.45 | -118.00 | -3,468.00 | 3,459.06 | 3,447.93 | 11.13 | 310.804 | |
| 1,700.00 | 1,699.37 | 1,756.37 | 1,756.37 | 5.77 | 6.06 | 38.57 | -118.00 | -3,468.00 | 3,452.91 | 3,441.08 | 11.83 | 291.892 | |
| 1,800.00 | 1,798.90 | 1,855.90 | 1,855.90 | 6.12 | 6.42 | 38.72 | -118.00 | -3,468.00 | 3,445.41 | 3,432.88 | 12.53 | 274.927 | |
| 1,900.00 | 1,898.26 | 1,955.26 | 1,955.26 | 6.48 | 6.78 | 38.89 | -118.00 | -3,468.00 | 3,436.57 | 3,423.33 | 13.24 | 259.607 | |
| 2,000.00 | 1,997.51 | 2,054.51 | 2,054.51 | 6.84 | 7.13 | 39.02 | -118.00 | -3,468.00 | 3,427.06 | 3,413.11 | 13.95 | 245.745 | |
| 2,100.00 | 2,096.77 | 2,153.77 | 2,153.77 | 7.20 | 7.49 | 39.15 | -118.00 | -3,468.00 | 3,417.57 | 3,402.92 | 14.66 | 233.184 | |
| 2,200.00 | 2,196.02 | 2,253.02 | 2,253.02 | 7.57 | 7.85 | 39.27 | -118.00 | -3,468.00 | 3,408.10 | 3,392.73 | 15.37 | 221.749 | |
| 2,300.00 | 2,295.28 | 2,352.28 | 2,352.28 | 7.94 | 8.20 | 39.40 | -118.00 | -3,468.00 | 3,398.65 | 3,382.56 | 16.08 | 211.299 | |
| 2,400.00 | 2,394.53 | 2,451.53 | 2,451.53 | 8.32 | 8.56 | 39.53 | -118.00 | -3,468.00 | 3,389.21 | 3,372.41 | 16.80 | 201.716 | |
| 2,500.00 | 2,493.79 | 2,550.79 | 2,550.79 | 8.69 | 8.91 | 39.67 | -118.00 | -3,468.00 | 3,379.79 | 3,362.27 | 17.52 | 192.900 | |
| 2,600.00 | 2,593.04 | 2,650.04 | 2,650.04 | 9.07 | 9.27 | 39.80 | -118.00 | -3,468.00 | 3,370.39 | 3,352.15 | 18.24 | 184.764 | |
| 2,700.00 | 2,692.30 | 2,749.30 | 2,749.30 | 9.45 | 9.62 | 39.93 | -118.00 | -3,468.00 | 3,361.01 | 3,342.04 | 18.96 | 177.234 | |
| 2,800.00 | 2,791.55 | 2,848.55 | 2,848.55 | 9.83 | 9.98 | 40.06 | -118.00 | -3,468.00 | 3,351.64 | 3,331.96 | 19.69 | 170.246 | |
| 2,900.00 | 2,890.81 | 2,947.81 | 2,947.81 | 10.21 | 10.34 | 40.20 | -118.00 | -3,468.00 | 3,342.30 | 3,321.88 | 20.41 | 163.746 | |
| 3,000.00 | 2,990.06 | 3,047.06 | 3,047.06 | 10.60 | 10.69 | 40.33 | -118.00 | -3,468.00 | 3,332.97 | 3,311.83 | 21.14 | 157.684 | |
| 3,100.00 | 3,089.32 | 3,146.32 | 3,146.32 | 10.98 | 11.05 | 40.47 | -118.00 | -3,468.00 | 3,323.66 | 3,301.79 | 21.86 | 152.018 | |
| 3,200.00 | 3,188.57 | 3,245.57 | 3,245.57 | 11.37 | 11.40 | 40.60 | -118.00 | -3,468.00 | 3,314.37 | 3,291.78 | 22.59 | 146.713 | |
| 3,300.00 | 3,287.82 | 3,344.82 | 3,344.82 | 11.75 | 11.76 | 40.74 | -118.00 | -3,468.00 | 3,305.09 | 3,281.78 | 23.32 | 141.734 | |
| 3,400.00 | 3,387.08 | 3,444.08 | 3,444.08 | 12.14 | 12.11 | 40.88 | -118.00 | -3,468.00 | 3,295.84 | 3,271.79 | 24.05 | 137.053 | |
| 3,500.00 | 3,486.33 | 3,543.33 | 3,543.33 | 12.53 | 12.47 | 41.02 | -118.00 | -3,468.00 | 3,286.61 | 3,261.83 | 24.78 | 132.645 | |
| 3,600.00 | 3,585.59 | 3,642.59 | 3,642.59 | 12.91 | 12.83 | 41.16 | -118.00 | -3,468.00 | 3,277.39 | 3,251.88 | 25.51 | 128.486 | |
| 3,700.00 | 3,684.84 | 3,741.84 | 3,741.84 | 13.30 | 13.18 | 41.30 | -118.00 | -3,468.00 | 3,268.20 | 3,241.96 | 26.24 | 124.557 | |
| 3,800.00 | 3,784.10 | 3,841.10 | 3,841.10 | 13.69 | 13.54 | 41.44 | -118.00 | -3,468.00 | 3,259.02 | 3,232.05 | 26.97 | 120.839 | |
| 3,900.00 | 3,883.35 | 3,940.35 | 3,940.35 | 14.08 | 13.89 | 41.58 | -118.00 | -3,468.00 | 3,249.86 | 3,222.16 | 27.70 | 117.315 | |
| 4,000.00 | 3,982.61 | 4,039.61 | 4,039.61 | 14.47 | 14.25 | 41.72 | -118.00 | -3,468.00 | 3,240.73 | 3,212.29 | 28.43 | 113.972 | |
| 4,100.00 | 4,081.86 | 4,138.86 | 4,138.86 | 14.86 | 14.61 | 41.87 | -118.00 | -3,468.00 | 3,231.61 | 3,202.44 | 29.17 | 110.795 | |
| 4,200.00 | 4,181.12 | 4,238.12 | 4,238.12 | 15.25 | 14.96 | 42.01 | -118.00 | -3,468.00 | 3,222.52 | 3,192.62 | 29.90 | 107.773 | |
| 4,300.00 | 4,280.37 | 4,337.37 | 4,337.37 | 15.65 | 15.32 | 42.15 | -118.00 | -3,468.00 | 3,213.44 | 3,182.81 | 30.63 | 104.895 | |
| 4,400.00 | 4,379.63 | 4,436.63 | 4,436.63 | 16.04 | 15.67 | 42.30 | -118.00 | -3,468.00 | 3,204.39 | 3,173.02 | 31.37 | 102.151 | |
| 4,500.00 | 4,478.88 | 4,535.88 | 4,535.88 | 16.43 | 16.03 | 42.45 | -118.00 | -3,468.00 | 3,195.35 | 3,163.25 | 32.10 | 99.532 | |
| 4,600.00 | 4,578.13 | 4,635.13 | 4,635.13 | 16.82 | 16.38 | 42.59 | -118.00 | -3,468.00 | 3,186.34 | 3,153.50 | 32.84 | 97.029 | |
| 4,700.00 | 4,677.39 | 4,734.39 | 4,734.39 | 17.21 | 16.74 | 42.74 | -118.00 | -3,468.00 | 3,177.35 | 3,143.77 | 33.57 | 94.636 | |
| 4,800.00 | 4,776.64 | 4,833.64 | 4,833.64 | 17.61 | 17.10 | 42.89 | -118.00 | -3,468.00 | 3,168.38 | 3,134.07 | 34.31 | 92.345 | |
| 4,900.00 | 4,875.90 | 4,932.90 | 4,932.90 | 18.00 | 17.45 | 43.04 | -118.00 | -3,468.00 | 3,159.43 | 3,124.38 | 35.05 | 90.149 | |
| 5,000.00 | 4,975.15 | 5,032.15 | 5,032.15 | 18.39 | 17.81 | 43.19 | -118.00 | -3,468.00 | 3,150.50 | 3,114.72 | 35.78 | 88.044 | |
| 5,100.00 | 5,074.41 | 5,131.41 | 5,131.41 | 18.79 | 18.16 | 43.34 | -118.00 | -3,468.00 | 3,141.60 | 3,105.08 | 36.52 | 86.024 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 215H - OH - Prelim Plan B — Offset Site Error: 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12810-MWD - OWSG — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,173.66 | 5,230.66 | 5,230.66 | 19.18 | 18.52 | 43.50 | -118.00 | -3,468.00 | 3,132.71 | 3,095.46 | 37.26 | 84.083 | |
| 5,300.00 | 5,272.92 | 5,329.92 | 5,329.92 | 19.57 | 18.88 | 43.65 | -118.00 | -3,468.00 | 3,123.85 | 3,085.86 | 38.00 | 82.217 | |
| 5,400.00 | 5,372.17 | 5,429.17 | 5,429.17 | 19.97 | 19.18 | 43.80 | -118.00 | -3,468.00 | 3,115.01 | 3,076.33 | 38.68 | 80.531 | |
| 5,500.00 | 5,471.43 | 5,528.43 | 5,528.43 | 20.36 | 19.31 | 43.96 | -118.00 | -3,468.00 | 3,106.20 | 3,067.01 | 39.19 | 79.254 | |
| 5,522.48 | 5,493.73 | 5,550.73 | 5,550.73 | 20.45 | 19.31 | 43.99 | -118.00 | -3,468.00 | 3,104.22 | 3,064.94 | 39.28 | 79.028 | |
| 5,600.00 | 5,570.74 | 5,627.74 | 5,627.74 | 20.75 | 19.32 | 44.06 | -118.00 | -3,468.00 | 3,097.78 | 3,058.20 | 39.58 | 78.262 | |
| 5,700.00 | 5,670.24 | 5,717.57 | 5,717.57 | 21.14 | 19.33 | 44.13 | -118.03 | -3,468.03 | 3,090.64 | 3,050.67 | 39.97 | 77.315 | |
| 5,800.00 | 5,769.90 | 5,781.97 | 5,781.96 | 21.51 | 19.34 | 44.15 | -118.60 | -3,468.64 | 3,085.61 | 3,045.24 | 40.37 | 76.440 | |
| 5,900.00 | 5,869.69 | 5,846.53 | 5,846.50 | 21.88 | 19.36 | 44.16 | -119.93 | -3,470.04 | 3,082.97 | 3,042.22 | 40.75 | 75.652 | |
| 5,959.86 | 5,929.47 | 5,885.22 | 5,885.14 | 22.10 | 19.37 | 44.16 | -121.08 | -3,471.27 | 3,082.54 | 3,041.56 | 40.98 | 75.225 | CC, ES |
| 6,000.00 | 5,969.57 | 5,900.00 | 5,899.91 | 22.24 | 19.37 | 44.16 | -121.59 | -3,471.81 | 3,082.77 | 3,041.64 | 41.12 | 74.962 | |
| 6,100.00 | 6,069.53 | 5,975.73 | 5,975.49 | 22.59 | 19.39 | 44.14 | -124.83 | -3,475.24 | 3,084.90 | 3,043.40 | 41.50 | 74.337 | |
| 6,200.00 | 6,169.52 | 6,043.87 | 6,043.41 | 22.94 | 19.42 | 44.11 | -128.60 | -3,479.24 | 3,089.46 | 3,047.59 | 41.86 | 73.799 | |
| 6,222.48 | 6,191.99 | 6,066.26 | 6,065.72 | 23.01 | 19.43 | -86.10 | -129.94 | -3,480.66 | 3,090.76 | 3,048.81 | 41.95 | 73.683 | |
| 6,300.00 | 6,269.52 | 6,143.49 | 6,142.65 | 23.26 | 19.46 | -86.19 | -134.56 | -3,485.56 | 3,095.36 | 3,053.13 | 42.23 | 73.298 | |
| 6,400.00 | 6,369.52 | 6,243.11 | 6,241.89 | 23.58 | 19.51 | -86.31 | -140.52 | -3,491.87 | 3,101.31 | 3,058.70 | 42.60 | 72.798 | |
| 6,500.00 | 6,469.52 | 6,342.73 | 6,341.13 | 23.90 | 19.57 | -86.42 | -146.48 | -3,498.19 | 3,107.27 | 3,064.28 | 42.98 | 72.293 | |
| 6,600.00 | 6,569.52 | 6,442.35 | 6,440.37 | 24.22 | 19.64 | -86.54 | -152.44 | -3,504.50 | 3,113.24 | 3,069.87 | 43.37 | 71.785 | |
| 6,700.00 | 6,669.52 | 6,541.97 | 6,539.61 | 24.54 | 19.71 | -86.66 | -158.39 | -3,510.82 | 3,119.22 | 3,075.46 | 43.76 | 71.272 | |
| 6,800.00 | 6,769.52 | 6,641.59 | 6,638.85 | 24.87 | 19.79 | -86.77 | -164.35 | -3,517.13 | 3,125.22 | 3,081.05 | 44.17 | 70.757 | |
| 6,900.00 | 6,869.52 | 6,741.21 | 6,738.09 | 25.19 | 19.88 | -86.89 | -170.31 | -3,523.45 | 3,131.23 | 3,086.65 | 44.58 | 70.240 | |
| 7,000.00 | 6,969.52 | 6,840.83 | 6,837.33 | 25.52 | 19.97 | -87.00 | -176.27 | -3,529.77 | 3,137.26 | 3,092.26 | 45.00 | 69.720 | |
| 7,100.00 | 7,069.52 | 6,940.45 | 6,936.57 | 25.85 | 20.07 | -87.12 | -182.23 | -3,536.08 | 3,143.29 | 3,097.87 | 45.42 | 69.199 | |
| 7,200.00 | 7,169.52 | 7,040.07 | 7,035.81 | 26.18 | 20.18 | -87.23 | -188.19 | -3,542.40 | 3,149.34 | 3,103.49 | 45.86 | 68.677 | |
| 7,300.00 | 7,269.52 | 7,139.69 | 7,135.05 | 26.50 | 20.29 | -87.35 | -194.14 | -3,548.71 | 3,155.41 | 3,109.11 | 46.30 | 68.155 | |
| 7,400.00 | 7,369.52 | 7,239.31 | 7,234.29 | 26.83 | 20.41 | -87.46 | -200.10 | -3,555.03 | 3,161.48 | 3,114.73 | 46.75 | 67.632 | |
| 7,500.00 | 7,469.52 | 7,338.93 | 7,333.54 | 27.16 | 20.54 | -87.57 | -206.06 | -3,561.34 | 3,167.57 | 3,120.37 | 47.20 | 67.110 | |
| 7,600.00 | 7,569.52 | 7,438.55 | 7,432.78 | 27.49 | 20.68 | -87.68 | -212.02 | -3,567.66 | 3,173.66 | 3,126.00 | 47.66 | 66.589 | |
| 7,700.00 | 7,669.52 | 7,538.17 | 7,532.02 | 27.83 | 20.82 | -87.80 | -217.98 | -3,573.97 | 3,179.77 | 3,131.65 | 48.13 | 66.069 | |
| 7,800.00 | 7,769.52 | 7,637.78 | 7,631.26 | 28.16 | 20.96 | -87.91 | -223.93 | -3,580.29 | 3,185.90 | 3,137.30 | 48.60 | 65.551 | |
| 7,900.00 | 7,869.52 | 7,737.40 | 7,730.50 | 28.49 | 21.11 | -88.02 | -229.89 | -3,586.61 | 3,192.03 | 3,142.95 | 49.08 | 65.034 | |
| 8,000.00 | 7,969.52 | 7,837.02 | 7,829.74 | 28.82 | 21.27 | -88.13 | -235.85 | -3,592.92 | 3,198.18 | 3,148.61 | 49.57 | 64.520 | |
| 8,100.00 | 8,069.52 | 7,936.64 | 7,928.98 | 29.16 | 21.44 | -88.24 | -241.81 | -3,599.24 | 3,204.34 | 3,154.28 | 50.06 | 64.009 | |
| 8,200.00 | 8,169.52 | 8,036.26 | 8,028.22 | 29.49 | 21.61 | -88.35 | -247.77 | -3,605.55 | 3,210.51 | 3,159.95 | 50.56 | 63.500 | |
| 8,300.00 | 8,269.52 | 8,135.88 | 8,127.46 | 29.83 | 21.78 | -88.46 | -253.72 | -3,611.87 | 3,216.69 | 3,165.63 | 51.06 | 62.994 | |
| 8,400.00 | 8,369.52 | 8,235.50 | 8,226.70 | 30.16 | 21.95 | -88.57 | -259.68 | -3,618.18 | 3,222.89 | 3,171.31 | 51.57 | 62.492 | |
| 8,500.00 | 8,469.52 | 8,335.12 | 8,325.94 | 30.50 | 22.15 | -88.68 | -265.64 | -3,624.50 | 3,229.09 | 3,177.00 | 52.09 | 61.993 | |
| 8,600.00 | 8,569.52 | 8,434.74 | 8,425.18 | 30.84 | 22.34 | -88.79 | -271.60 | -3,630.81 | 3,235.31 | 3,182.70 | 52.61 | 61.498 | |
| 8,700.00 | 8,669.52 | 8,534.36 | 8,524.42 | 31.17 | 22.53 | -88.89 | -277.56 | -3,637.13 | 3,241.54 | 3,188.40 | 53.13 | 61.007 | |
| 8,800.00 | 8,769.52 | 8,633.98 | 8,623.66 | 31.51 | 22.73 | -89.00 | -283.51 | -3,643.44 | 3,247.78 | 3,194.11 | 53.66 | 60.520 | |
| 8,900.00 | 8,869.52 | 8,733.60 | 8,722.90 | 31.85 | 22.94 | -89.11 | -289.47 | -3,649.76 | 3,254.03 | 3,199.83 | 54.20 | 60.038 | |
| 9,000.00 | 8,969.52 | 8,833.22 | 8,822.14 | 32.19 | 23.15 | -89.22 | -295.43 | -3,656.08 | 3,260.29 | 3,205.55 | 54.74 | 59.560 | |
| 9,100.00 | 9,069.52 | 8,932.84 | 8,921.38 | 32.53 | 23.36 | -89.32 | -301.39 | -3,662.39 | 3,266.57 | 3,211.28 | 55.28 | 59.086 | |
| 9,200.00 | 9,169.52 | 9,032.46 | 9,020.62 | 32.87 | 23.58 | -89.43 | -307.35 | -3,668.71 | 3,272.85 | 3,217.02 | 55.83 | 58.617 | |
| 9,300.00 | 9,269.52 | 9,132.08 | 9,119.86 | 33.21 | 23.80 | -89.53 | -313.30 | -3,675.02 | 3,279.15 | 3,222.76 | 56.39 | 58.153 | |
| 9,400.00 | 9,369.52 | 9,231.70 | 9,219.10 | 33.55 | 24.03 | -89.64 | -319.26 | -3,681.34 | 3,285.46 | 3,228.51 | 56.95 | 57.694 | |
| 9,500.00 | 9,469.52 | 9,331.32 | 9,318.34 | 33.89 | 24.26 | -89.74 | -325.22 | -3,687.65 | 3,291.78 | 3,234.27 | 57.51 | 57.240 | |
| 9,600.00 | 9,569.52 | 9,430.94 | 9,417.58 | 34.23 | 24.49 | -89.85 | -331.18 | -3,693.97 | 3,298.11 | 3,240.03 | 58.07 | 56.791 | |
| 9,700.00 | 9,669.52 | 9,647.38 | 9,633.52 | 34.57 | 25.00 | -90.02 | -341.04 | -3,704.42 | 3,303.23 | 3,244.31 | 58.92 | 56.061 | |
| 9,800.00 | 9,769.52 | 9,840.41 | 9,826.52 | 34.91 | 25.42 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,244.34 | 59.66 | 55.381 | |
| 9,900.00 | 9,869.52 | 9,940.41 | 9,926.52 | 35.25 | 25.62 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,243.79 | 60.21 | 54.874 | |
| 10,000.00 | 9,969.52 | 10,040.41 | 10,026.52 | 35.60 | 25.83 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,243.24 | 60.76 | 54.374 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 215H - OH - Prelim Plan B — Offset Site Error: 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12810-MWD - OWSG — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,100.00 | 10,069.52 | 10,140.41 | 10,126.52 | 35.94 | 26.04 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,242.68 | 61.32 | 53.879 | |
| 10,200.00 | 10,169.52 | 10,240.41 | 10,226.52 | 36.28 | 26.26 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,242.12 | 61.88 | 53.390 | |
| 10,300.00 | 10,269.52 | 10,340.41 | 10,326.52 | 36.63 | 26.48 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,241.55 | 62.45 | 52.907 | |
| 10,400.00 | 10,369.52 | 10,440.41 | 10,426.52 | 36.97 | 26.70 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,240.98 | 63.02 | 52.430 | |
| 10,500.00 | 10,469.52 | 10,540.41 | 10,526.52 | 37.31 | 26.92 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,240.41 | 63.59 | 51.959 | |
| 10,600.00 | 10,569.52 | 10,640.41 | 10,626.52 | 37.66 | 27.15 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,239.84 | 64.16 | 51.494 | |
| 10,700.00 | 10,669.52 | 10,740.41 | 10,726.52 | 38.00 | 27.38 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,239.26 | 64.74 | 51.034 | |
| 10,800.00 | 10,769.52 | 10,840.41 | 10,826.52 | 38.35 | 27.61 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,238.68 | 65.32 | 50.581 | |
| 10,900.00 | 10,869.52 | 10,940.41 | 10,926.52 | 38.69 | 27.85 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,238.10 | 65.90 | 50.133 | |
| 11,000.00 | 10,969.52 | 11,040.41 | 11,026.52 | 39.04 | 28.08 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,237.51 | 66.49 | 49.691 | |
| 11,100.00 | 11,069.52 | 11,140.41 | 11,126.52 | 39.38 | 28.32 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,236.92 | 67.08 | 49.255 | |
| 11,200.00 | 11,169.52 | 11,240.41 | 11,226.52 | 39.73 | 28.57 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,236.33 | 67.67 | 48.824 | |
| 11,300.00 | 11,269.52 | 11,340.41 | 11,326.52 | 40.07 | 28.81 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,235.74 | 68.27 | 48.399 | |
| 11,400.00 | 11,369.52 | 11,440.41 | 11,426.52 | 40.42 | 29.06 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,235.14 | 68.86 | 47.979 | |
| 11,500.00 | 11,469.52 | 11,540.41 | 11,526.52 | 40.77 | 29.31 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,234.54 | 69.46 | 47.566 | |
| 11,600.00 | 11,569.52 | 11,640.41 | 11,626.52 | 41.11 | 29.56 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,233.94 | 70.06 | 47.157 | |
| 11,700.00 | 11,669.52 | 11,740.41 | 11,726.52 | 41.46 | 29.82 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,233.33 | 70.67 | 46.754 | |
| 11,800.00 | 11,769.52 | 11,840.41 | 11,826.52 | 41.81 | 30.07 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,232.73 | 71.27 | 46.356 | |
| 11,900.00 | 11,869.52 | 11,940.41 | 11,926.52 | 42.15 | 30.33 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,232.12 | 71.88 | 45.964 | |
| 11,919.48 | 11,889.00 | 11,959.89 | 11,946.00 | 42.22 | 30.38 | -90.05 | -343.00 | -3,706.50 | 3,304.00 | 3,232.00 | 72.00 | 45.888 | |
| 11,950.00 | 11,919.50 | 11,990.40 | 11,976.50 | 42.33 | 30.46 | -89.56 | -343.00 | -3,706.50 | 3,304.00 | 3,231.81 | 72.19 | 45.770 | |
| 12,000.00 | 11,969.25 | 12,039.26 | 12,025.36 | 42.49 | 30.59 | -89.63 | -342.44 | -3,706.50 | 3,303.96 | 3,231.48 | 72.48 | 45.585 | |
| 12,050.00 | 12,018.39 | 12,087.53 | 12,073.43 | 42.65 | 30.71 | -89.72 | -338.28 | -3,706.54 | 3,303.94 | 3,231.18 | 72.76 | 45.409 | |
| 12,100.00 | 12,066.55 | 12,136.19 | 12,121.37 | 42.81 | 30.82 | -89.80 | -330.00 | -3,706.61 | 3,303.91 | 3,230.88 | 73.03 | 45.242 | |
| 12,150.00 | 12,113.35 | 12,185.26 | 12,168.83 | 42.95 | 30.93 | -89.89 | -317.56 | -3,706.72 | 3,303.89 | 3,230.61 | 73.28 | 45.085 | |
| 12,200.00 | 12,158.45 | 12,234.77 | 12,215.45 | 43.08 | 31.03 | -89.98 | -300.95 | -3,706.86 | 3,303.88 | 3,230.36 | 73.52 | 44.938 | |
| 12,250.00 | 12,201.49 | 12,284.73 | 12,260.86 | 43.20 | 31.13 | -90.07 | -280.17 | -3,707.04 | 3,303.88 | 3,230.13 | 73.75 | 44.799 | |
| 12,259.67 | 12,209.55 | 12,294.44 | 12,269.47 | 43.22 | 31.15 | -90.09 | -275.68 | -3,707.08 | 3,303.88 | 3,230.09 | 73.79 | 44.773 | |
| 12,300.00 | 12,242.16 | 12,335.14 | 12,304.68 | 43.30 | 31.22 | -90.16 | -255.28 | -3,707.25 | 3,303.88 | 3,229.91 | 73.97 | 44.668 | |
| 12,350.00 | 12,280.14 | 12,386.03 | 12,346.52 | 43.40 | 31.30 | -90.25 | -226.34 | -3,707.50 | 3,303.89 | 3,229.71 | 74.17 | 44.542 | |
| 12,400.00 | 12,315.14 | 12,437.39 | 12,385.98 | 43.48 | 31.37 | -90.34 | -193.49 | -3,707.78 | 3,303.90 | 3,229.53 | 74.38 | 44.422 | |
| 12,450.00 | 12,346.90 | 12,489.24 | 12,422.66 | 43.55 | 31.43 | -90.43 | -156.88 | -3,708.09 | 3,303.92 | 3,229.35 | 74.57 | 44.304 | |
| 12,500.00 | 12,375.17 | 12,541.55 | 12,456.17 | 43.60 | 31.49 | -90.51 | -116.73 | -3,708.44 | 3,303.95 | 3,229.18 | 74.77 | 44.188 | |
| 12,550.00 | 12,399.74 | 12,594.34 | 12,486.13 | 43.65 | 31.55 | -90.59 | -73.30 | -3,708.81 | 3,303.98 | 3,229.01 | 74.97 | 44.070 | |
| 12,600.00 | 12,420.43 | 12,647.58 | 12,512.17 | 43.69 | 31.64 | -90.66 | -26.88 | -3,709.20 | 3,304.01 | 3,228.83 | 75.17 | 43.951 | |
| 12,650.00 | 12,437.07 | 12,701.25 | 12,533.95 | 43.74 | 31.76 | -90.73 | 22.15 | -3,709.62 | 3,304.04 | 3,228.65 | 75.39 | 43.828 | |
| 12,700.00 | 12,449.55 | 12,755.33 | 12,551.16 | 43.78 | 31.90 | -90.80 | 73.40 | -3,710.06 | 3,304.07 | 3,228.46 | 75.61 | 43.700 | |
| 12,719.48 | 12,453.25 | 12,776.51 | 12,556.57 | 43.80 | 31.96 | -90.82 | 93.87 | -3,710.24 | 3,304.08 | 3,228.38 | 75.70 | 43.648 | |
| 12,744.48 | 12,457.59 | 12,803.78 | 12,562.41 | 43.83 | 32.04 | -90.84 | 120.51 | -3,710.46 | 3,304.09 | 3,228.27 | 75.82 | 43.580 | |
| 12,750.00 | 12,458.54 | 12,809.81 | 12,563.53 | 43.84 | 35.58 | -90.84 | 126.43 | -3,710.51 | 3,304.09 | 3,228.25 | 75.84 | 43.568 | |
| 12,766.86 | 12,461.22 | 12,827.02 | 12,566.53 | 43.87 | 37.25 | -90.85 | 143.37 | -3,710.66 | 3,304.09 | 3,228.19 | 75.90 | 43.533 | |
| 12,800.00 | 12,465.64 | 12,861.31 | 12,572.23 | 43.92 | 37.27 | -90.87 | 177.18 | -3,710.95 | 3,304.09 | 3,228.07 | 76.02 | 43.463 | |
| 12,850.00 | 12,470.15 | 12,914.10 | 12,578.73 | 44.00 | 37.30 | -90.90 | 229.56 | -3,711.40 | 3,304.10 | 3,227.87 | 76.23 | 43.344 | |
| 12,900.00 | 12,472.04 | 12,966.98 | 12,582.32 | 44.09 | 37.33 | -90.92 | 282.32 | -3,711.85 | 3,304.11 | 3,227.64 | 76.47 | 43.211 | |
| 12,911.17 | 12,472.10 | 12,978.81 | 12,582.73 | 44.11 | 37.33 | -90.93 | 294.14 | -3,711.95 | 3,304.11 | 3,227.59 | 76.52 | 43.179 | |
| 13,000.00 | 12,472.10 | 13,069.15 | 12,583.10 | 44.31 | 37.39 | -90.94 | 384.47 | -3,712.72 | 3,304.08 | 3,227.06 | 77.02 | 42.898 | |
| 13,100.00 | 12,472.10 | 13,169.15 | 12,583.10 | 44.57 | 37.45 | -90.94 | 484.46 | -3,713.58 | 3,304.04 | 3,226.35 | 77.69 | 42.528 | |
| 13,200.00 | 12,472.10 | 13,269.15 | 12,583.10 | 44.88 | 37.52 | -90.94 | 584.46 | -3,714.43 | 3,304.01 | 3,225.52 | 78.48 | 42.098 | |
| 13,300.00 | 12,472.09 | 13,369.15 | 12,583.09 | 45.24 | 37.59 | -90.94 | 684.46 | -3,715.29 | 3,303.97 | 3,224.58 | 79.39 | 41.616 | |
| 13,400.00 | 12,472.09 | 13,469.15 | 12,583.09 | 45.63 | 37.68 | -90.94 | 784.45 | -3,716.14 | 3,303.93 | 3,223.52 | 80.41 | 41.087 | |
| 13,500.00 | 12,472.09 | 13,569.15 | 12,583.09 | 46.07 | 37.80 | -90.94 | 884.45 | -3,717.00 | 3,303.90 | 3,222.36 | 81.54 | 40.518 | |
| 13,600.00 | 12,472.09 | 13,669.15 | 12,583.09 | 46.54 | 37.96 | -90.94 | 984.45 | -3,717.85 | 3,303.86 | 3,221.09 | 82.77 | 39.915 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 215H - OH - Prelim Plan B — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5481-MWD - OWSG, 12810-MWD - OWSG — **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 | 12,472.08 | 13,769.15 | 12,583.08 | 47.05 | 38.23 | -90.94 | 1,084.44 | -3,718.71 | 3,303.82 | 3,219.72 | 84.10 | 39.283 | |
| 13,800.00 | 12,472.08 | 13,869.15 | 12,583.08 | 47.60 | 38.70 | -90.94 | 1,184.44 | -3,719.57 | 3,303.79 | 3,218.26 | 85.52 | 38.630 | |
| 13,900.00 | 12,472.08 | 13,969.15 | 12,583.08 | 48.19 | 39.40 | -90.94 | 1,284.44 | -3,720.42 | 3,303.75 | 3,216.72 | 87.03 | 37.960 | |
| 14,000.00 | 12,472.08 | 14,069.15 | 12,583.08 | 48.81 | 40.25 | -90.94 | 1,384.43 | -3,721.28 | 3,303.71 | 3,215.09 | 88.63 | 37.277 | |
| 14,100.00 | 12,472.07 | 14,169.15 | 12,583.07 | 49.47 | 41.20 | -90.94 | 1,484.43 | -3,722.13 | 3,303.68 | 3,213.38 | 90.30 | 36.587 | |
| 14,200.00 | 12,472.07 | 14,269.15 | 12,583.07 | 50.15 | 42.22 | -90.94 | 1,584.42 | -3,722.99 | 3,303.64 | 3,211.60 | 92.04 | 35.893 | |
| 14,300.00 | 12,472.07 | 14,369.15 | 12,583.07 | 50.87 | 43.29 | -90.94 | 1,684.42 | -3,723.84 | 3,303.60 | 3,209.75 | 93.85 | 35.199 | |
| 14,400.00 | 12,472.07 | 14,469.15 | 12,583.07 | 51.62 | 44.40 | -90.94 | 1,784.42 | -3,724.70 | 3,303.57 | 3,207.83 | 95.73 | 34.508 | |
| 14,500.00 | 12,472.06 | 14,569.15 | 12,583.07 | 52.40 | 45.55 | -90.94 | 1,884.41 | -3,725.55 | 3,303.53 | 3,205.86 | 97.67 | 33.823 | |
| 14,600.00 | 12,472.06 | 14,669.15 | 12,583.06 | 53.20 | 46.73 | -90.94 | 1,984.41 | -3,726.41 | 3,303.49 | 3,203.82 | 99.67 | 33.145 | |
| 14,700.00 | 12,472.06 | 14,769.15 | 12,583.06 | 54.03 | 47.94 | -90.94 | 2,084.41 | -3,727.27 | 3,303.46 | 3,201.74 | 101.72 | 32.476 | |
| 14,800.00 | 12,472.06 | 14,869.15 | 12,583.06 | 54.88 | 49.18 | -90.94 | 2,184.40 | -3,728.12 | 3,303.42 | 3,199.60 | 103.82 | 31.818 | |
| 14,900.00 | 12,472.06 | 14,969.15 | 12,583.06 | 55.76 | 50.45 | -90.94 | 2,284.40 | -3,728.98 | 3,303.38 | 3,197.41 | 105.97 | 31.172 | |
| 15,000.00 | 12,472.05 | 15,069.15 | 12,583.05 | 56.66 | 51.74 | -90.94 | 2,384.39 | -3,729.83 | 3,303.35 | 3,195.18 | 108.17 | 30.540 | |
| 15,100.00 | 12,472.05 | 15,169.15 | 12,583.05 | 57.59 | 53.04 | -90.94 | 2,484.39 | -3,730.69 | 3,303.31 | 3,192.91 | 110.40 | 29.921 | |
| 15,200.00 | 12,472.05 | 15,269.15 | 12,583.05 | 58.53 | 54.37 | -90.94 | 2,584.39 | -3,731.54 | 3,303.27 | 3,190.59 | 112.68 | 29.316 | |
| 15,300.00 | 12,472.05 | 15,369.15 | 12,583.05 | 59.49 | 55.72 | -90.94 | 2,684.38 | -3,732.40 | 3,303.24 | 3,188.24 | 114.99 | 28.726 | |
| 15,400.00 | 12,472.04 | 15,469.15 | 12,583.04 | 60.47 | 57.08 | -90.94 | 2,784.38 | -3,733.25 | 3,303.20 | 3,185.86 | 117.34 | 28.151 | |
| 15,500.00 | 12,472.04 | 15,569.15 | 12,583.04 | 61.47 | 58.46 | -90.94 | 2,884.38 | -3,734.11 | 3,303.16 | 3,183.44 | 119.72 | 27.590 | |
| 15,600.00 | 12,472.04 | 15,669.15 | 12,583.04 | 62.49 | 59.85 | -90.94 | 2,984.37 | -3,734.96 | 3,303.13 | 3,180.99 | 122.13 | 27.045 | |
| 15,700.00 | 12,472.04 | 15,769.15 | 12,583.04 | 63.52 | 61.26 | -90.94 | 3,084.37 | -3,735.82 | 3,303.09 | 3,178.51 | 124.58 | 26.515 | |
| 15,800.00 | 12,472.03 | 15,869.15 | 12,583.03 | 64.57 | 62.68 | -90.94 | 3,184.37 | -3,736.68 | 3,303.05 | 3,176.01 | 127.05 | 25.999 | |
| 15,900.00 | 12,472.03 | 15,969.15 | 12,583.03 | 65.63 | 64.11 | -90.94 | 3,284.36 | -3,737.53 | 3,303.02 | 3,173.47 | 129.54 | 25.498 | |
| 16,000.00 | 12,472.03 | 16,069.15 | 12,583.03 | 66.71 | 65.55 | -90.94 | 3,384.36 | -3,738.39 | 3,302.98 | 3,170.92 | 132.06 | 25.011 | |
| 16,100.00 | 12,472.03 | 16,169.15 | 12,583.03 | 67.80 | 67.00 | -90.94 | 3,484.35 | -3,739.24 | 3,302.94 | 3,168.34 | 134.61 | 24.538 | |
| 16,200.00 | 12,472.02 | 16,269.15 | 12,583.02 | 68.90 | 68.46 | -90.94 | 3,584.35 | -3,740.10 | 3,302.91 | 3,165.73 | 137.17 | 24.079 | |
| 16,300.00 | 12,472.02 | 16,369.15 | 12,583.02 | 70.02 | 69.93 | -90.94 | 3,684.35 | -3,740.95 | 3,302.87 | 3,163.11 | 139.76 | 23.633 | |
| 16,400.00 | 12,472.02 | 16,469.15 | 12,583.02 | 71.14 | 71.41 | -90.94 | 3,784.34 | -3,741.81 | 3,302.83 | 3,160.47 | 142.37 | 23.200 | |
| 16,500.00 | 12,472.02 | 16,569.15 | 12,583.02 | 72.28 | 72.90 | -90.94 | 3,884.34 | -3,742.66 | 3,302.80 | 3,157.81 | 144.99 | 22.779 | |
| 16,600.00 | 12,472.02 | 16,669.15 | 12,583.02 | 73.43 | 74.39 | -90.94 | 3,984.34 | -3,743.52 | 3,302.76 | 3,155.13 | 147.63 | 22.371 | |
| 16,700.00 | 12,472.01 | 16,769.15 | 12,583.01 | 74.58 | 75.89 | -90.94 | 4,084.33 | -3,744.37 | 3,302.72 | 3,152.43 | 150.29 | 21.975 | |
| 16,800.00 | 12,472.01 | 16,869.15 | 12,583.01 | 75.75 | 77.40 | -90.94 | 4,184.33 | -3,745.23 | 3,302.69 | 3,149.72 | 152.97 | 21.591 | |
| 16,900.00 | 12,472.01 | 16,969.15 | 12,583.01 | 76.93 | 78.91 | -90.94 | 4,284.33 | -3,746.09 | 3,302.65 | 3,146.99 | 155.66 | 21.217 | |
| 17,000.00 | 12,472.01 | 17,069.15 | 12,583.01 | 78.11 | 80.43 | -90.94 | 4,384.32 | -3,746.94 | 3,302.61 | 3,144.25 | 158.36 | 20.855 | |
| 17,100.00 | 12,472.00 | 17,169.15 | 12,583.00 | 79.30 | 81.95 | -90.94 | 4,484.32 | -3,747.80 | 3,302.58 | 3,141.49 | 161.08 | 20.502 | |
| 17,200.00 | 12,472.00 | 17,269.15 | 12,583.00 | 80.51 | 83.48 | -90.94 | 4,584.31 | -3,748.65 | 3,302.54 | 3,138.72 | 163.82 | 20.160 | |
| 17,236.44 | 12,472.00 | 17,305.59 | 12,583.00 | 80.94 | 84.04 | -90.94 | 4,620.75 | -3,748.96 | 3,302.53 | 3,137.71 | 164.81 | 20.036 | SF |

# Pro Directional

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 217H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5492-MWD - OWSG, 12795-MWD - OWSG — **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 | 25.00 | 25.00 | 0.00 | 0.03 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | | | | |
| 100.00 | 100.00 | 125.00 | 125.00 | 0.13 | 0.22 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,502.92 | 0.34 | 4,368.263 | |
| 200.00 | 200.00 | 225.00 | 225.00 | 0.49 | 0.58 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,502.20 | 1.06 | 1,416.735 | |
| 300.00 | 300.00 | 325.00 | 325.00 | 0.84 | 0.93 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,501.49 | 1.78 | 845.471 | |
| 400.00 | 400.00 | 425.00 | 425.00 | 1.20 | 1.29 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,500.77 | 2.49 | 602.520 | |
| 500.00 | 500.00 | 525.00 | 525.00 | 1.56 | 1.65 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,500.05 | 3.21 | 468.029 | |
| 600.00 | 600.00 | 625.00 | 625.00 | 1.92 | 2.01 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,499.33 | 3.93 | 382.622 | |
| 700.00 | 700.00 | 725.00 | 725.00 | 2.28 | 2.37 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,498.62 | 4.65 | 323.575 | |
| 800.00 | 800.00 | 825.00 | 825.00 | 2.64 | 2.73 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,497.90 | 5.36 | 280.317 | |
| 900.00 | 900.00 | 925.00 | 925.00 | 3.00 | 3.08 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,497.18 | 6.08 | 247.260 | |
| 1,000.00 | 1,000.00 | 1,025.00 | 1,025.00 | 3.35 | 3.44 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,496.47 | 6.80 | 221.178 | |
| 1,100.00 | 1,100.00 | 1,125.00 | 1,125.00 | 3.71 | 3.80 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,495.75 | 7.51 | 200.073 | |
| 1,200.00 | 1,200.00 | 1,225.00 | 1,225.00 | 4.07 | 4.16 | -93.78 | -99.00 | -1,500.00 | 1,503.26 | 1,495.03 | 8.23 | 182.645 | |
| 1,300.00 | 1,299.99 | 1,324.99 | 1,324.99 | 4.41 | 4.52 | 36.44 | -99.00 | -1,500.00 | 1,502.56 | 1,493.63 | 8.93 | 168.210 | |
| 1,400.00 | 1,399.96 | 1,424.96 | 1,424.96 | 4.75 | 4.88 | 36.51 | -99.00 | -1,500.00 | 1,500.46 | 1,490.83 | 9.62 | 155.919 | |
| 1,500.00 | 1,499.86 | 1,524.86 | 1,524.86 | 5.08 | 5.23 | 36.63 | -99.00 | -1,500.00 | 1,496.95 | 1,486.63 | 10.32 | 145.089 | |
| 1,600.00 | 1,599.68 | 1,624.68 | 1,624.68 | 5.43 | 5.59 | 36.80 | -99.00 | -1,500.00 | 1,492.05 | 1,481.04 | 11.01 | 135.461 | |
| 1,700.00 | 1,699.37 | 1,724.37 | 1,724.37 | 5.77 | 5.95 | 37.02 | -99.00 | -1,500.00 | 1,485.77 | 1,474.06 | 11.71 | 126.832 | |
| 1,800.00 | 1,798.90 | 1,823.90 | 1,823.90 | 6.12 | 6.31 | 37.29 | -99.00 | -1,500.00 | 1,478.12 | 1,465.70 | 12.42 | 119.039 | |
| 1,900.00 | 1,898.26 | 1,923.26 | 1,923.26 | 6.48 | 6.66 | 37.61 | -99.00 | -1,500.00 | 1,469.11 | 1,455.99 | 13.12 | 111.955 | |
| 2,000.00 | 1,997.51 | 2,022.51 | 2,022.51 | 6.84 | 7.02 | 37.90 | -99.00 | -1,500.00 | 1,459.45 | 1,445.62 | 13.83 | 105.526 | |
| 2,100.00 | 2,096.77 | 2,121.77 | 2,121.77 | 7.20 | 7.37 | 38.19 | -99.00 | -1,500.00 | 1,449.83 | 1,435.29 | 14.54 | 99.709 | |
| 2,200.00 | 2,196.02 | 2,221.02 | 2,221.02 | 7.57 | 7.73 | 38.49 | -99.00 | -1,500.00 | 1,440.24 | 1,424.99 | 15.25 | 94.420 | |
| 2,300.00 | 2,295.28 | 2,320.28 | 2,320.28 | 7.94 | 8.09 | 38.80 | -99.00 | -1,500.00 | 1,430.69 | 1,414.73 | 15.97 | 89.593 | |
| 2,400.00 | 2,394.53 | 2,419.53 | 2,419.53 | 8.32 | 8.44 | 39.10 | -99.00 | -1,500.00 | 1,421.19 | 1,404.50 | 16.69 | 85.171 | |
| 2,500.00 | 2,493.79 | 2,518.79 | 2,518.79 | 8.69 | 8.80 | 39.41 | -99.00 | -1,500.00 | 1,411.72 | 1,394.32 | 17.41 | 81.107 | |
| 2,600.00 | 2,593.04 | 2,618.04 | 2,618.04 | 9.07 | 9.15 | 39.73 | -99.00 | -1,500.00 | 1,402.30 | 1,384.17 | 18.13 | 77.361 | |
| 2,700.00 | 2,692.30 | 2,717.30 | 2,717.30 | 9.45 | 9.51 | 40.05 | -99.00 | -1,500.00 | 1,392.92 | 1,374.07 | 18.85 | 73.898 | |
| 2,800.00 | 2,791.55 | 2,816.55 | 2,816.55 | 9.83 | 9.87 | 40.37 | -99.00 | -1,500.00 | 1,383.59 | 1,364.01 | 19.57 | 70.687 | |
| 2,900.00 | 2,890.81 | 2,915.81 | 2,915.81 | 10.21 | 10.22 | 40.70 | -99.00 | -1,500.00 | 1,374.29 | 1,354.00 | 20.30 | 67.703 | |
| 3,000.00 | 2,990.06 | 3,015.06 | 3,015.06 | 10.60 | 10.58 | 41.03 | -99.00 | -1,500.00 | 1,365.05 | 1,344.02 | 21.03 | 64.924 | |
| 3,100.00 | 3,089.32 | 3,114.32 | 3,114.32 | 10.98 | 10.93 | 41.37 | -99.00 | -1,500.00 | 1,355.85 | 1,334.10 | 21.75 | 62.329 | |
| 3,200.00 | 3,188.57 | 3,213.57 | 3,213.57 | 11.37 | 11.29 | 41.71 | -99.00 | -1,500.00 | 1,346.70 | 1,324.22 | 22.48 | 59.901 | |
| 3,300.00 | 3,287.82 | 3,312.82 | 3,312.82 | 11.75 | 11.64 | 42.06 | -99.00 | -1,500.00 | 1,337.59 | 1,314.38 | 23.21 | 57.625 | |
| 3,400.00 | 3,387.08 | 3,412.08 | 3,412.08 | 12.14 | 12.00 | 42.41 | -99.00 | -1,500.00 | 1,328.54 | 1,304.60 | 23.94 | 55.488 | |
| 3,500.00 | 3,486.33 | 3,511.33 | 3,511.33 | 12.53 | 12.36 | 42.76 | -99.00 | -1,500.00 | 1,319.54 | 1,294.86 | 24.67 | 53.477 | |
| 3,600.00 | 3,585.59 | 3,610.59 | 3,610.59 | 12.91 | 12.71 | 43.12 | -99.00 | -1,500.00 | 1,310.59 | 1,285.18 | 25.41 | 51.583 | |
| 3,700.00 | 3,684.84 | 3,709.84 | 3,709.84 | 13.30 | 13.07 | 43.49 | -99.00 | -1,500.00 | 1,301.69 | 1,275.55 | 26.14 | 49.795 | |
| 3,800.00 | 3,784.10 | 3,809.10 | 3,809.10 | 13.69 | 13.42 | 43.86 | -99.00 | -1,500.00 | 1,292.84 | 1,265.96 | 26.88 | 48.105 | |
| 3,900.00 | 3,883.35 | 3,908.35 | 3,908.35 | 14.08 | 13.78 | 44.24 | -99.00 | -1,500.00 | 1,284.05 | 1,256.44 | 27.61 | 46.506 | |
| 4,000.00 | 3,982.61 | 4,007.61 | 4,007.61 | 14.47 | 14.13 | 44.62 | -99.00 | -1,500.00 | 1,275.31 | 1,246.97 | 28.35 | 44.990 | |
| 4,100.00 | 4,081.86 | 4,106.86 | 4,106.86 | 14.86 | 14.49 | 45.00 | -99.00 | -1,500.00 | 1,266.64 | 1,237.55 | 29.08 | 43.552 | |
| 4,200.00 | 4,181.12 | 4,206.12 | 4,206.12 | 15.25 | 14.85 | 45.39 | -99.00 | -1,500.00 | 1,258.02 | 1,228.19 | 29.82 | 42.186 | |
| 4,300.00 | 4,280.37 | 4,305.37 | 4,305.37 | 15.65 | 15.20 | 45.79 | -99.00 | -1,500.00 | 1,249.46 | 1,218.90 | 30.56 | 40.886 | |
| 4,400.00 | 4,379.63 | 4,404.63 | 4,404.63 | 16.04 | 15.56 | 46.19 | -99.00 | -1,500.00 | 1,240.96 | 1,209.66 | 31.30 | 39.649 | |
| 4,500.00 | 4,478.88 | 4,503.88 | 4,503.88 | 16.43 | 15.91 | 46.60 | -99.00 | -1,500.00 | 1,232.52 | 1,200.48 | 32.04 | 38.470 | |
| 4,600.00 | 4,578.13 | 4,603.13 | 4,603.13 | 16.82 | 16.27 | 47.01 | -99.00 | -1,500.00 | 1,224.14 | 1,191.36 | 32.78 | 37.346 | |
| 4,700.00 | 4,677.39 | 4,702.39 | 4,702.39 | 17.21 | 16.63 | 47.43 | -99.00 | -1,500.00 | 1,215.83 | 1,182.31 | 33.52 | 36.272 | |
| 4,800.00 | 4,776.64 | 4,801.64 | 4,801.64 | 17.61 | 16.98 | 47.85 | -99.00 | -1,500.00 | 1,207.59 | 1,173.33 | 34.26 | 35.246 | |
| 4,900.00 | 4,875.90 | 4,900.90 | 4,900.90 | 18.00 | 17.34 | 48.28 | -99.00 | -1,500.00 | 1,199.41 | 1,164.41 | 35.00 | 34.265 | |
| 5,000.00 | 4,975.15 | 5,000.15 | 5,000.15 | 18.39 | 17.69 | 48.72 | -99.00 | -1,500.00 | 1,191.30 | 1,155.55 | 35.75 | 33.325 | |
| 5,100.00 | 5,074.41 | 5,100.59 | 5,099.41 | 18.79 | 18.05 | 49.16 | -99.00 | -1,500.00 | 1,183.26 | 1,146.77 | 36.50 | 32.422 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 217H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5492-MWD - OWSG, 12795-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,173.66 | 5,201.34 | 5,198.66 | 19.18 | 18.41 | 49.61 | -99.00 | -1,500.00 | 1,175.29 | 1,138.05 | 37.25 | 31.555 | |
| 5,300.00 | 5,272.92 | 5,302.08 | 5,297.92 | 19.57 | 18.78 | 50.06 | -99.00 | -1,500.00 | 1,167.40 | 1,129.40 | 38.00 | 30.724 | |
| 5,400.00 | 5,372.17 | 5,402.83 | 5,397.17 | 19.97 | 19.13 | 50.52 | -99.00 | -1,500.00 | 1,159.58 | 1,120.84 | 38.74 | 29.930 | |
| 5,500.00 | 5,471.43 | 5,503.57 | 5,496.43 | 20.36 | 19.31 | 50.99 | -99.00 | -1,500.00 | 1,151.83 | 1,112.53 | 39.31 | 29.302 | |
| 5,522.48 | 5,493.73 | 5,518.73 | 5,518.73 | 20.45 | 19.31 | 51.09 | -99.00 | -1,500.00 | 1,150.10 | 1,110.71 | 39.40 | 29.192 | |
| 5,600.00 | 5,570.74 | 5,604.26 | 5,595.74 | 20.75 | 19.31 | 51.40 | -99.00 | -1,500.00 | 1,144.49 | 1,104.79 | 39.71 | 28.825 | |
| 5,700.00 | 5,670.24 | 5,704.76 | 5,695.24 | 21.14 | 19.33 | 51.74 | -99.00 | -1,500.00 | 1,138.27 | 1,098.17 | 40.10 | 28.384 | |
| 5,800.00 | 5,769.90 | 5,794.90 | 5,794.90 | 21.51 | 19.35 | 52.02 | -99.00 | -1,500.00 | 1,133.18 | 1,092.68 | 40.50 | 27.982 | |
| 5,900.00 | 5,869.69 | 5,895.02 | 5,895.01 | 21.88 | 19.37 | 52.19 | -100.16 | -1,500.23 | 1,129.17 | 1,088.28 | 40.89 | 27.615 | |
| 6,000.00 | 5,969.57 | 5,995.31 | 5,995.22 | 22.24 | 19.40 | 52.17 | -103.90 | -1,500.98 | 1,126.21 | 1,084.93 | 41.28 | 27.283 | |
| 6,100.00 | 6,069.53 | 6,095.49 | 6,095.20 | 22.59 | 19.44 | 51.95 | -110.20 | -1,502.24 | 1,124.30 | 1,082.63 | 41.67 | 26.983 | |
| 6,200.00 | 6,169.52 | 6,204.73 | 6,194.62 | 22.94 | 19.49 | 51.56 | -118.55 | -1,503.91 | 1,123.48 | 1,081.42 | 42.06 | 26.713 | |
| 6,221.93 | 6,191.45 | 6,217.13 | 6,216.39 | 23.01 | 19.49 | -78.73 | -120.41 | -1,504.28 | 1,123.45 | 1,081.32 | 42.14 | 26.663 | CC |
| 6,222.48 | 6,191.99 | 6,217.67 | 6,216.92 | 23.01 | 19.49 | -78.73 | -120.46 | -1,504.29 | 1,123.45 | 1,081.31 | 42.14 | 26.662 | |
| 6,300.00 | 6,269.52 | 6,294.90 | 6,293.86 | 23.26 | 19.53 | -79.07 | -127.06 | -1,505.61 | 1,123.48 | 1,081.05 | 42.42 | 26.483 | |
| 6,400.00 | 6,369.52 | 6,405.48 | 6,393.10 | 23.58 | 19.60 | -79.52 | -135.57 | -1,507.31 | 1,123.57 | 1,080.76 | 42.81 | 26.248 | |
| 6,500.00 | 6,469.52 | 6,505.86 | 6,492.34 | 23.90 | 19.67 | -79.96 | -144.09 | -1,509.02 | 1,123.73 | 1,080.54 | 43.19 | 26.017 | |
| 6,600.00 | 6,569.52 | 6,606.24 | 6,591.58 | 24.22 | 19.75 | -80.40 | -152.60 | -1,510.72 | 1,123.96 | 1,080.37 | 43.59 | 25.787 | |
| 6,700.00 | 6,669.52 | 6,706.63 | 6,690.82 | 24.54 | 19.83 | -80.84 | -161.12 | -1,512.42 | 1,124.25 | 1,080.26 | 43.99 | 25.557 | |
| 6,800.00 | 6,769.52 | 6,807.01 | 6,790.06 | 24.87 | 19.92 | -81.29 | -169.63 | -1,514.13 | 1,124.61 | 1,080.21 | 44.40 | 25.329 | |
| 6,900.00 | 6,869.52 | 6,907.39 | 6,889.30 | 25.19 | 20.02 | -81.73 | -178.14 | -1,515.83 | 1,125.04 | 1,080.22 | 44.82 | 25.101 | |
| 7,000.00 | 6,969.52 | 6,992.23 | 6,988.54 | 25.52 | 20.10 | -82.17 | -186.66 | -1,517.53 | 1,125.54 | 1,080.31 | 45.23 | 24.884 | |
| 7,100.00 | 7,069.52 | 7,108.15 | 7,087.78 | 25.85 | 20.23 | -82.61 | -195.17 | -1,519.23 | 1,126.11 | 1,080.42 | 45.68 | 24.651 | |
| 7,200.00 | 7,169.52 | 7,208.53 | 7,187.02 | 26.18 | 20.35 | -83.05 | -203.68 | -1,520.94 | 1,126.74 | 1,080.61 | 46.13 | 24.428 | |
| 7,300.00 | 7,269.52 | 7,291.09 | 7,286.26 | 26.50 | 20.45 | -83.49 | -212.20 | -1,522.64 | 1,127.44 | 1,080.88 | 46.55 | 24.218 | |
| 7,400.00 | 7,369.52 | 7,390.71 | 7,385.50 | 26.83 | 20.58 | -83.93 | -220.71 | -1,524.34 | 1,128.20 | 1,081.19 | 47.01 | 24.000 | |
| 7,500.00 | 7,469.52 | 7,509.67 | 7,484.74 | 27.16 | 20.74 | -84.37 | -229.23 | -1,526.05 | 1,129.04 | 1,081.54 | 47.50 | 23.770 | |
| 7,600.00 | 7,569.52 | 7,589.95 | 7,583.98 | 27.49 | 20.86 | -84.81 | -237.74 | -1,527.75 | 1,129.93 | 1,081.99 | 47.94 | 23.570 | |
| 7,700.00 | 7,669.52 | 7,689.57 | 7,683.22 | 27.83 | 21.01 | -85.24 | -246.25 | -1,529.45 | 1,130.90 | 1,082.48 | 48.42 | 23.358 | |
| 7,800.00 | 7,769.52 | 7,789.19 | 7,782.47 | 28.16 | 21.16 | -85.68 | -254.77 | -1,531.15 | 1,131.93 | 1,083.03 | 48.90 | 23.148 | |
| 7,900.00 | 7,869.52 | 7,888.81 | 7,881.71 | 28.49 | 21.32 | -86.12 | -263.28 | -1,532.86 | 1,133.03 | 1,083.64 | 49.39 | 22.941 | |
| 8,000.00 | 7,969.52 | 7,988.43 | 7,980.95 | 28.82 | 21.49 | -86.55 | -271.80 | -1,534.56 | 1,134.19 | 1,084.31 | 49.88 | 22.736 | |
| 8,100.00 | 8,069.52 | 8,088.05 | 8,080.19 | 29.16 | 21.66 | -86.99 | -280.31 | -1,536.26 | 1,135.42 | 1,085.04 | 50.39 | 22.534 | |
| 8,200.00 | 8,169.52 | 8,187.67 | 8,179.43 | 29.49 | 21.83 | -87.42 | -288.82 | -1,537.96 | 1,136.72 | 1,085.82 | 50.89 | 22.335 | |
| 8,300.00 | 8,269.52 | 8,287.29 | 8,278.67 | 29.83 | 22.01 | -87.85 | -297.34 | -1,539.67 | 1,138.08 | 1,086.67 | 51.41 | 22.138 | |
| 8,400.00 | 8,369.52 | 8,386.91 | 8,377.91 | 30.16 | 22.20 | -88.28 | -305.85 | -1,541.37 | 1,139.50 | 1,087.58 | 51.93 | 21.944 | |
| 8,500.00 | 8,469.52 | 8,489.50 | 8,480.14 | 30.50 | 22.40 | -88.70 | -314.20 | -1,543.04 | 1,140.92 | 1,088.47 | 52.45 | 21.751 | |
| 8,600.00 | 8,569.52 | 8,594.90 | 8,585.36 | 30.84 | 22.60 | -89.01 | -320.25 | -1,544.25 | 1,141.96 | 1,088.97 | 52.99 | 21.552 | |
| 8,700.00 | 8,669.52 | 8,700.56 | 8,690.97 | 31.17 | 22.80 | -89.17 | -323.45 | -1,544.89 | 1,142.52 | 1,089.00 | 53.52 | 21.348 | |
| 8,800.00 | 8,769.52 | 8,804.11 | 8,794.52 | 31.51 | 22.98 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,088.58 | 54.04 | 21.146 | |
| 8,900.00 | 8,869.52 | 8,904.11 | 8,894.52 | 31.85 | 23.15 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,088.06 | 54.55 | 20.947 | |
| 9,000.00 | 8,969.52 | 9,004.11 | 8,994.52 | 32.19 | 23.32 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,087.55 | 55.07 | 20.750 | |
| 9,100.00 | 9,069.52 | 9,104.11 | 9,094.52 | 32.53 | 23.50 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,087.02 | 55.59 | 20.555 | |
| 9,200.00 | 9,169.52 | 9,204.11 | 9,194.52 | 32.87 | 23.69 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,086.50 | 56.11 | 20.362 | |
| 9,300.00 | 9,269.52 | 9,304.11 | 9,294.52 | 33.21 | 23.88 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,085.97 | 56.65 | 20.171 | |
| 9,400.00 | 9,369.52 | 9,404.11 | 9,394.52 | 33.55 | 24.07 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,085.43 | 57.18 | 19.983 | |
| 9,500.00 | 9,469.52 | 9,504.11 | 9,494.52 | 33.89 | 24.26 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,084.89 | 57.72 | 19.796 | |
| 9,600.00 | 9,569.52 | 9,604.11 | 9,594.52 | 34.23 | 24.46 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,084.35 | 58.26 | 19.611 | |
| 9,700.00 | 9,669.52 | 9,704.11 | 9,694.52 | 34.57 | 24.67 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,083.80 | 58.81 | 19.429 | |
| 9,800.00 | 9,769.52 | 9,804.11 | 9,794.52 | 34.91 | 24.87 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,083.25 | 59.36 | 19.249 | |
| 9,900.00 | 9,869.52 | 9,904.11 | 9,894.52 | 35.25 | 25.08 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,082.70 | 59.92 | 19.071 | |
| 10,000.00 | 9,969.52 | 10,004.11 | 9,994.52 | 35.60 | 25.30 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,082.14 | 60.47 | 18.895 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 217H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD - OWSG, 5492-MWD - OWSG, 12795-MWD - OWSG — **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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,100.00 | 10,069.52 | 10,104.11 | 10,094.52 | 35.94 | 25.51 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,081.58 | 61.03 | 18.721 | |
| 10,200.00 | 10,169.52 | 10,204.11 | 10,194.52 | 36.28 | 25.73 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,081.01 | 61.60 | 18.549 | |
| 10,300.00 | 10,269.52 | 10,304.11 | 10,294.52 | 36.63 | 25.95 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,080.44 | 62.17 | 18.379 | |
| 10,400.00 | 10,369.52 | 10,404.11 | 10,394.52 | 36.97 | 26.18 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,079.87 | 62.74 | 18.212 | |
| 10,500.00 | 10,469.52 | 10,504.11 | 10,494.52 | 37.31 | 26.41 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,079.30 | 63.31 | 18.046 | |
| 10,600.00 | 10,569.52 | 10,604.11 | 10,594.52 | 37.66 | 26.64 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,078.72 | 63.89 | 17.883 | |
| 10,700.00 | 10,669.52 | 10,704.11 | 10,694.52 | 38.00 | 26.88 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,078.14 | 64.47 | 17.722 | |
| 10,800.00 | 10,769.52 | 10,804.11 | 10,794.52 | 38.35 | 27.11 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,077.55 | 65.06 | 17.563 | |
| 10,900.00 | 10,869.52 | 10,904.11 | 10,894.52 | 38.69 | 27.35 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,076.97 | 65.64 | 17.406 | |
| 11,000.00 | 10,969.52 | 11,004.11 | 10,994.52 | 39.04 | 27.59 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,076.38 | 66.23 | 17.251 | |
| 11,100.00 | 11,069.52 | 11,104.11 | 11,094.52 | 39.38 | 27.84 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,075.79 | 66.83 | 17.098 | |
| 11,200.00 | 11,169.52 | 11,204.11 | 11,194.52 | 39.73 | 28.09 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,075.19 | 67.42 | 16.947 | |
| 11,300.00 | 11,269.52 | 11,304.11 | 11,294.52 | 40.07 | 28.34 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,074.59 | 68.02 | 16.798 | |
| 11,400.00 | 11,369.52 | 11,404.11 | 11,394.52 | 40.42 | 28.59 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,073.99 | 68.62 | 16.652 | |
| 11,500.00 | 11,469.52 | 11,504.11 | 11,494.52 | 40.77 | 28.84 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,073.39 | 69.22 | 16.507 | |
| 11,600.00 | 11,569.52 | 11,604.11 | 11,594.52 | 41.11 | 29.10 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,072.79 | 69.83 | 16.364 | |
| 11,700.00 | 11,669.52 | 11,704.11 | 11,694.52 | 41.46 | 29.36 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,072.18 | 70.43 | 16.223 | |
| 11,800.00 | 11,769.52 | 11,804.11 | 11,794.52 | 41.81 | 29.62 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,071.57 | 71.04 | 16.083 | |
| 11,900.00 | 11,869.52 | 11,904.11 | 11,894.52 | 42.15 | 29.88 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,070.96 | 71.65 | 15.946 | |
| 11,919.48 | 11,889.00 | 11,923.60 | 11,914.00 | 42.22 | 29.93 | -89.20 | -324.00 | -1,545.00 | 1,142.61 | 1,070.84 | 71.77 | 15.920 | |
| 11,950.00 | 11,919.50 | 11,954.10 | 11,944.50 | 42.33 | 30.01 | -88.73 | -324.00 | -1,545.00 | 1,142.59 | 1,070.63 | 71.96 | 15.878 | |
| 12,000.00 | 11,969.25 | 12,003.45 | 11,993.85 | 42.49 | 30.14 | -88.97 | -323.83 | -1,545.00 | 1,142.50 | 1,070.24 | 72.26 | 15.812 | |
| 12,050.00 | 12,018.39 | 12,051.96 | 12,042.24 | 42.65 | 30.27 | -89.27 | -320.61 | -1,545.02 | 1,142.40 | 1,069.86 | 72.54 | 15.749 | |
| 12,100.00 | 12,066.55 | 12,100.94 | 12,090.65 | 42.81 | 30.39 | -89.57 | -313.21 | -1,545.06 | 1,142.31 | 1,069.50 | 72.81 | 15.690 | |
| 12,150.00 | 12,113.35 | 12,150.44 | 12,138.74 | 42.95 | 30.50 | -89.88 | -301.57 | -1,545.12 | 1,142.23 | 1,069.17 | 73.06 | 15.634 | |
| 12,200.00 | 12,158.45 | 12,200.45 | 12,186.13 | 43.08 | 30.61 | -90.19 | -285.64 | -1,545.20 | 1,142.18 | 1,068.88 | 73.30 | 15.582 | |
| 12,250.00 | 12,201.49 | 12,251.01 | 12,232.44 | 43.20 | 30.71 | -90.50 | -265.39 | -1,545.31 | 1,142.14 | 1,068.61 | 73.53 | 15.533 | |
| 12,300.00 | 12,242.16 | 12,302.13 | 12,277.26 | 43.30 | 30.81 | -90.80 | -240.86 | -1,545.44 | 1,142.12 | 1,068.37 | 73.75 | 15.487 | |
| 12,339.43 | 12,272.35 | 12,342.84 | 12,311.29 | 43.38 | 30.89 | -91.05 | -218.52 | -1,545.55 | 1,142.12 | 1,068.21 | 73.91 | 15.453 | |
| 12,350.00 | 12,280.14 | 12,353.61 | 12,320.17 | 43.40 | 30.91 | -91.11 | -212.09 | -1,545.59 | 1,142.12 | 1,068.16 | 73.95 | 15.444 | |
| 12,400.00 | 12,315.14 | 12,406.05 | 12,360.74 | 43.48 | 31.01 | -91.41 | -179.20 | -1,545.76 | 1,142.13 | 1,067.97 | 74.15 | 15.402 | |
| 12,450.00 | 12,346.90 | 12,458.87 | 12,398.54 | 43.55 | 31.11 | -91.69 | -142.33 | -1,545.95 | 1,142.15 | 1,067.80 | 74.35 | 15.362 | |
| 12,500.00 | 12,375.17 | 12,512.24 | 12,433.12 | 43.60 | 31.22 | -91.97 | -101.71 | -1,546.16 | 1,142.17 | 1,067.63 | 74.54 | 15.323 | |
| 12,550.00 | 12,399.74 | 12,566.15 | 12,464.06 | 43.65 | 31.33 | -92.23 | -57.58 | -1,546.40 | 1,142.20 | 1,067.46 | 74.74 | 15.283 | |
| 12,600.00 | 12,420.43 | 12,620.56 | 12,490.96 | 43.69 | 31.45 | -92.47 | -10.28 | -1,546.64 | 1,142.23 | 1,067.29 | 74.94 | 15.243 | |
| 12,650.00 | 12,437.07 | 12,675.51 | 12,513.42 | 43.74 | 31.59 | -92.70 | 39.81 | -1,546.90 | 1,142.25 | 1,067.10 | 75.14 | 15.201 | |
| 12,700.00 | 12,449.55 | 12,730.89 | 12,531.12 | 43.78 | 31.74 | -92.90 | 92.27 | -1,547.18 | 1,142.25 | 1,066.89 | 75.36 | 15.157 | |
| 12,719.48 | 12,453.25 | 12,752.58 | 12,536.65 | 43.80 | 31.80 | -92.97 | 113.24 | -1,547.29 | 1,142.25 | 1,066.80 | 75.45 | 15.139 | |
| 12,744.48 | 12,457.59 | 12,780.51 | 12,542.61 | 43.83 | 31.88 | -93.03 | 140.53 | -1,547.43 | 1,142.21 | 1,066.64 | 75.57 | 15.114 | |
| 12,750.00 | 12,458.54 | 12,786.69 | 12,543.74 | 43.84 | 31.90 | -93.04 | 146.60 | -1,547.46 | 1,142.20 | 1,066.60 | 75.60 | 15.109 | |
| 12,800.00 | 12,465.64 | 12,837.91 | 12,552.36 | 43.92 | 36.95 | -93.11 | 197.09 | -1,547.73 | 1,142.09 | 1,066.31 | 75.78 | 15.070 | |
| 12,850.00 | 12,470.15 | 12,890.03 | 12,558.75 | 44.00 | 36.97 | -93.20 | 248.81 | -1,548.06 | 1,142.05 | 1,066.07 | 75.99 | 15.030 | |
| 12,861.64 | 12,470.82 | 12,902.19 | 12,559.83 | 44.02 | 36.98 | -93.22 | 260.91 | -1,548.15 | 1,142.05 | 1,066.02 | 76.03 | 15.020 | |
| 12,900.00 | 12,472.04 | 12,942.25 | 12,562.31 | 44.09 | 37.00 | -93.28 | 300.90 | -1,548.45 | 1,142.07 | 1,065.86 | 76.21 | 14.986 | |
| 12,911.17 | 12,472.10 | 12,953.93 | 12,562.71 | 44.11 | 37.01 | -93.29 | 312.57 | -1,548.55 | 1,142.08 | 1,065.81 | 76.26 | 14.975 | |
| 13,000.00 | 12,472.10 | 13,043.97 | 12,563.10 | 44.31 | 37.05 | -93.31 | 402.60 | -1,549.34 | 1,142.09 | 1,065.33 | 76.76 | 14.878 | |
| 13,100.00 | 12,472.10 | 13,143.97 | 12,563.10 | 44.57 | 37.10 | -93.31 | 502.59 | -1,550.23 | 1,142.09 | 1,064.66 | 77.43 | 14.751 | |
| 13,200.00 | 12,472.10 | 13,243.97 | 12,563.10 | 44.88 | 37.16 | -93.31 | 602.59 | -1,551.12 | 1,142.08 | 1,063.87 | 78.21 | 14.602 | |
| 13,300.00 | 12,472.09 | 13,343.97 | 12,563.10 | 45.24 | 37.21 | -93.31 | 702.59 | -1,552.00 | 1,142.08 | 1,062.96 | 79.12 | 14.435 | |
| 13,400.00 | 12,472.09 | 13,443.97 | 12,563.09 | 45.63 | 37.27 | -93.31 | 802.58 | -1,552.89 | 1,142.07 | 1,061.94 | 80.13 | 14.252 | |
| 13,500.00 | 12,472.09 | 13,543.97 | 12,563.09 | 46.07 | 37.33 | -93.31 | 902.58 | -1,553.78 | 1,142.07 | 1,060.81 | 81.26 | 14.055 | |
| 13,600.00 | 12,472.09 | 13,643.97 | 12,563.09 | 46.54 | 37.40 | -93.31 | 1,002.57 | -1,554.67 | 1,142.07 | 1,059.58 | 82.48 | 13.846 | |

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 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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** Leslie Fed Com - 217H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

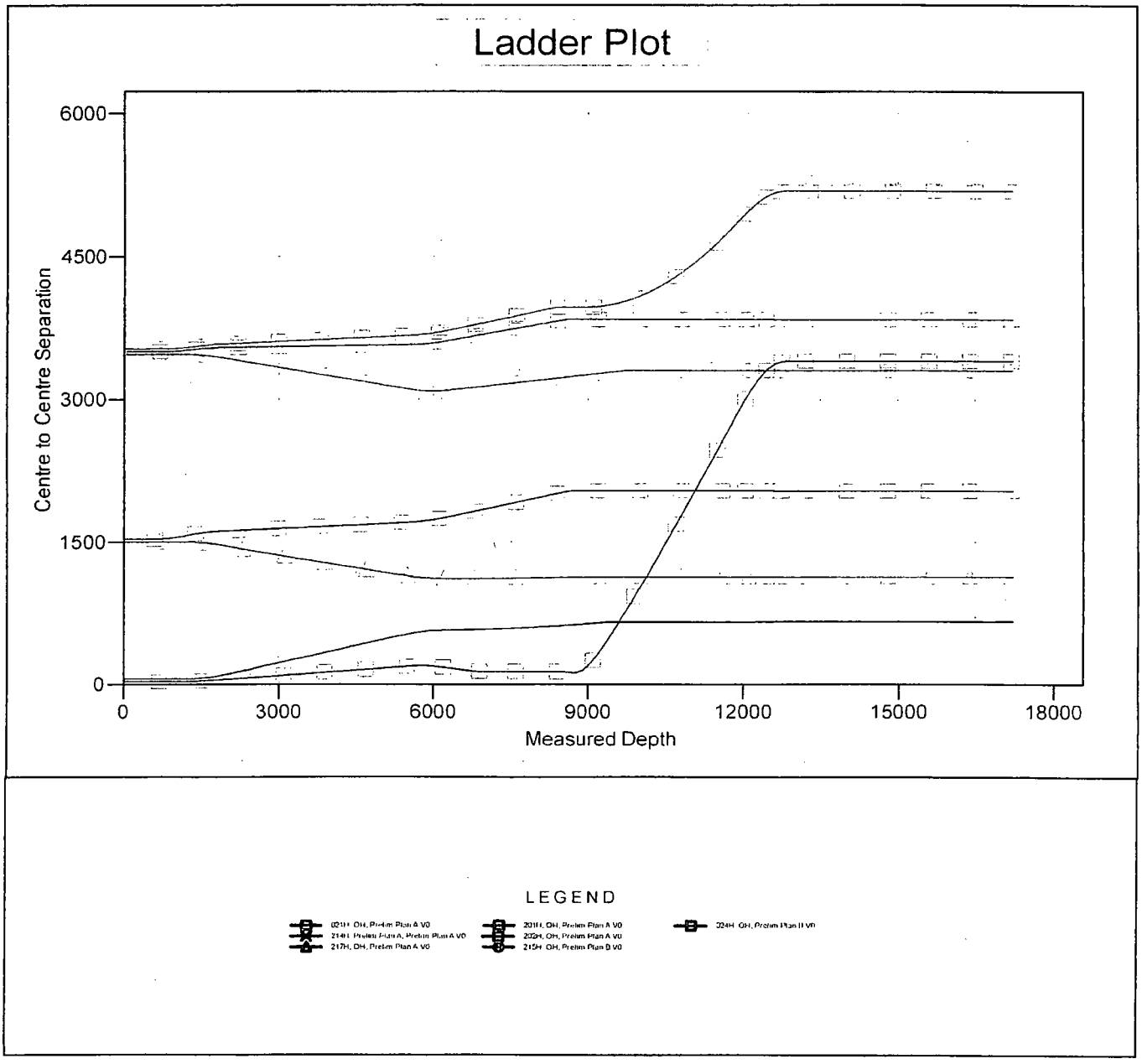
**Survey Program:** 0-MWD - OWSG, 5492-MWD - OWSG, 12795-MWD - OWSG — **Offset Well Error:** 0.00 usft

| 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 | 12,472.08 | 13,743.97 | 12,563.09 | 47.05 | 37.48 | -93.31 | 1,102.57 | -1,555.56 | 1,142.06 | 1,058.25 | 83.81 | 13.627 | |
| 13,800.00 | 12,472.08 | 13,843.97 | 12,563.08 | 47.60 | 37.92 | -93.31 | 1,202.57 | -1,556.45 | 1,142.06 | 1,056.83 | 85.23 | 13.400 | |
| 13,900.00 | 12,472.08 | 13,943.97 | 12,563.08 | 48.19 | 38.81 | -93.31 | 1,302.56 | -1,557.34 | 1,142.06 | 1,055.32 | 86.74 | 13.167 | |
| 14,000.00 | 12,472.08 | 14,043.97 | 12,563.08 | 48.81 | 39.78 | -93.31 | 1,402.56 | -1,558.23 | 1,142.05 | 1,053.73 | 88.32 | 12.930 | |
| 14,100.00 | 12,472.07 | 14,143.97 | 12,563.08 | 49.47 | 40.79 | -93.31 | 1,502.55 | -1,559.11 | 1,142.05 | 1,052.06 | 89.99 | 12.691 | |
| 14,200.00 | 12,472.07 | 14,243.97 | 12,563.07 | 50.15 | 41.85 | -93.31 | 1,602.55 | -1,560.00 | 1,142.05 | 1,050.31 | 91.73 | 12.450 | |
| 14,300.00 | 12,472.07 | 14,343.97 | 12,563.07 | 50.87 | 42.95 | -93.31 | 1,702.55 | -1,560.89 | 1,142.04 | 1,048.50 | 93.54 | 12.209 | |
| 14,400.00 | 12,472.07 | 14,443.97 | 12,563.07 | 51.62 | 44.08 | -93.31 | 1,802.54 | -1,561.78 | 1,142.04 | 1,046.62 | 95.42 | 11.969 | |
| 14,500.00 | 12,472.06 | 14,543.97 | 12,563.07 | 52.40 | 45.25 | -93.31 | 1,902.54 | -1,562.67 | 1,142.04 | 1,044.68 | 97.36 | 11.730 | |
| 14,600.00 | 12,472.06 | 14,643.97 | 12,563.06 | 53.20 | 46.44 | -93.31 | 2,002.53 | -1,563.56 | 1,142.03 | 1,042.68 | 99.35 | 11.495 | |
| 14,700.00 | 12,472.06 | 14,743.97 | 12,563.06 | 54.03 | 47.67 | -93.31 | 2,102.53 | -1,564.45 | 1,142.03 | 1,040.63 | 101.40 | 11.263 | |
| 14,800.00 | 12,472.06 | 14,843.97 | 12,563.06 | 54.88 | 48.91 | -93.31 | 2,202.53 | -1,565.34 | 1,142.03 | 1,038.53 | 103.50 | 11.034 | |
| 14,900.00 | 12,472.06 | 14,943.97 | 12,563.06 | 55.76 | 50.19 | -93.31 | 2,302.52 | -1,566.22 | 1,142.02 | 1,036.38 | 105.65 | 10.810 | |
| 15,000.00 | 12,472.05 | 15,043.97 | 12,563.06 | 56.66 | 51.48 | -93.31 | 2,402.52 | -1,567.11 | 1,142.02 | 1,034.18 | 107.84 | 10.590 | |
| 15,100.00 | 12,472.05 | 15,143.97 | 12,563.05 | 57.59 | 52.80 | -93.31 | 2,502.51 | -1,568.00 | 1,142.02 | 1,031.94 | 110.07 | 10.375 | |
| 15,200.00 | 12,472.05 | 15,243.97 | 12,563.05 | 58.53 | 54.13 | -93.31 | 2,602.51 | -1,568.89 | 1,142.01 | 1,029.66 | 112.35 | 10.165 | |
| 15,300.00 | 12,472.05 | 15,343.97 | 12,563.05 | 59.49 | 55.48 | -93.31 | 2,702.51 | -1,569.78 | 1,142.01 | 1,027.35 | 114.66 | 9.960 | |
| 15,400.00 | 12,472.04 | 15,443.97 | 12,563.05 | 60.47 | 56.85 | -93.31 | 2,802.50 | -1,570.67 | 1,142.01 | 1,025.00 | 117.01 | 9.760 | |
| 15,500.00 | 12,472.04 | 15,543.97 | 12,563.04 | 61.47 | 58.23 | -93.31 | 2,902.50 | -1,571.56 | 1,142.00 | 1,022.62 | 119.39 | 9.566 | |
| 15,600.00 | 12,472.04 | 15,643.97 | 12,563.04 | 62.49 | 59.63 | -93.31 | 3,002.49 | -1,572.45 | 1,142.00 | 1,020.20 | 121.80 | 9.376 | |
| 15,700.00 | 12,472.04 | 15,743.97 | 12,563.04 | 63.52 | 61.04 | -93.31 | 3,102.49 | -1,573.33 | 1,142.00 | 1,017.76 | 124.24 | 9.192 | |
| 15,800.00 | 12,472.03 | 15,843.97 | 12,563.04 | 64.57 | 62.46 | -93.31 | 3,202.49 | -1,574.22 | 1,141.99 | 1,015.29 | 126.70 | 9.013 | |
| 15,900.00 | 12,472.03 | 15,943.97 | 12,563.03 | 65.63 | 63.90 | -93.31 | 3,302.48 | -1,575.11 | 1,141.99 | 1,012.79 | 129.20 | 8.839 | |
| 16,000.00 | 12,472.03 | 16,043.97 | 12,563.03 | 66.71 | 65.34 | -93.31 | 3,402.48 | -1,576.00 | 1,141.99 | 1,010.27 | 131.72 | 8.670 | |
| 16,100.00 | 12,472.03 | 16,143.97 | 12,563.03 | 67.80 | 66.80 | -93.31 | 3,502.47 | -1,576.89 | 1,141.98 | 1,007.73 | 134.26 | 8.506 | |
| 16,200.00 | 12,472.02 | 16,243.97 | 12,563.03 | 68.90 | 68.26 | -93.31 | 3,602.47 | -1,577.78 | 1,141.98 | 1,005.16 | 136.82 | 8.347 | |
| 16,300.00 | 12,472.02 | 16,343.97 | 12,563.02 | 70.02 | 69.73 | -93.31 | 3,702.47 | -1,578.67 | 1,141.98 | 1,002.57 | 139.41 | 8.192 | |
| 16,400.00 | 12,472.02 | 16,443.97 | 12,563.02 | 71.14 | 71.22 | -93.31 | 3,802.46 | -1,579.56 | 1,141.97 | 999.96 | 142.01 | 8.041 | |
| 16,500.00 | 12,472.02 | 16,543.97 | 12,563.02 | 72.28 | 72.70 | -93.31 | 3,902.46 | -1,580.44 | 1,141.97 | 997.34 | 144.63 | 7.896 | |
| 16,600.00 | 12,472.02 | 16,643.97 | 12,563.02 | 73.43 | 74.20 | -93.31 | 4,002.45 | -1,581.33 | 1,141.97 | 994.69 | 147.27 | 7.754 | |
| 16,700.00 | 12,472.01 | 16,743.97 | 12,563.01 | 74.58 | 75.70 | -93.31 | 4,102.45 | -1,582.22 | 1,141.96 | 992.03 | 149.93 | 7.617 | |
| 16,800.00 | 12,472.01 | 16,843.97 | 12,563.01 | 75.75 | 77.21 | -93.31 | 4,202.45 | -1,583.11 | 1,141.96 | 989.35 | 152.60 | 7.483 | |
| 16,900.00 | 12,472.01 | 16,943.97 | 12,563.01 | 76.93 | 78.73 | -93.31 | 4,302.44 | -1,584.00 | 1,141.96 | 986.66 | 155.29 | 7.354 | |
| 17,000.00 | 12,472.01 | 17,043.97 | 12,563.01 | 78.11 | 80.25 | -93.31 | 4,402.44 | -1,584.89 | 1,141.95 | 983.96 | 158.00 | 7.228 | |
| 17,100.00 | 12,472.00 | 17,143.97 | 12,563.00 | 79.30 | 81.77 | -93.31 | 4,502.44 | -1,585.78 | 1,141.95 | 981.24 | 160.71 | 7.106 | |
| 17,200.00 | 12,472.00 | 17,243.97 | 12,563.00 | 80.51 | 83.31 | -93.31 | 4,602.43 | -1,586.67 | 1,141.95 | 978.50 | 163.44 | 6.987 | |
| 17,236.44 | 12,472.00 | 17,280.41 | 12,563.00 | 80.94 | 83.86 | -93.31 | 4,638.87 | -1,586.99 | 1,141.94 | 977.51 | 164.44 | 6.945 | ES, SF |

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

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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 RIG @ 3283.00usft (GL:3254 +KB:29 | Coordinates are relative to: 203H |
| Offset Depths are relative to Offset Datum | Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 |
| Central Meridian is -104.3333333 | Grid Convergence at Surface is: 0.51° |



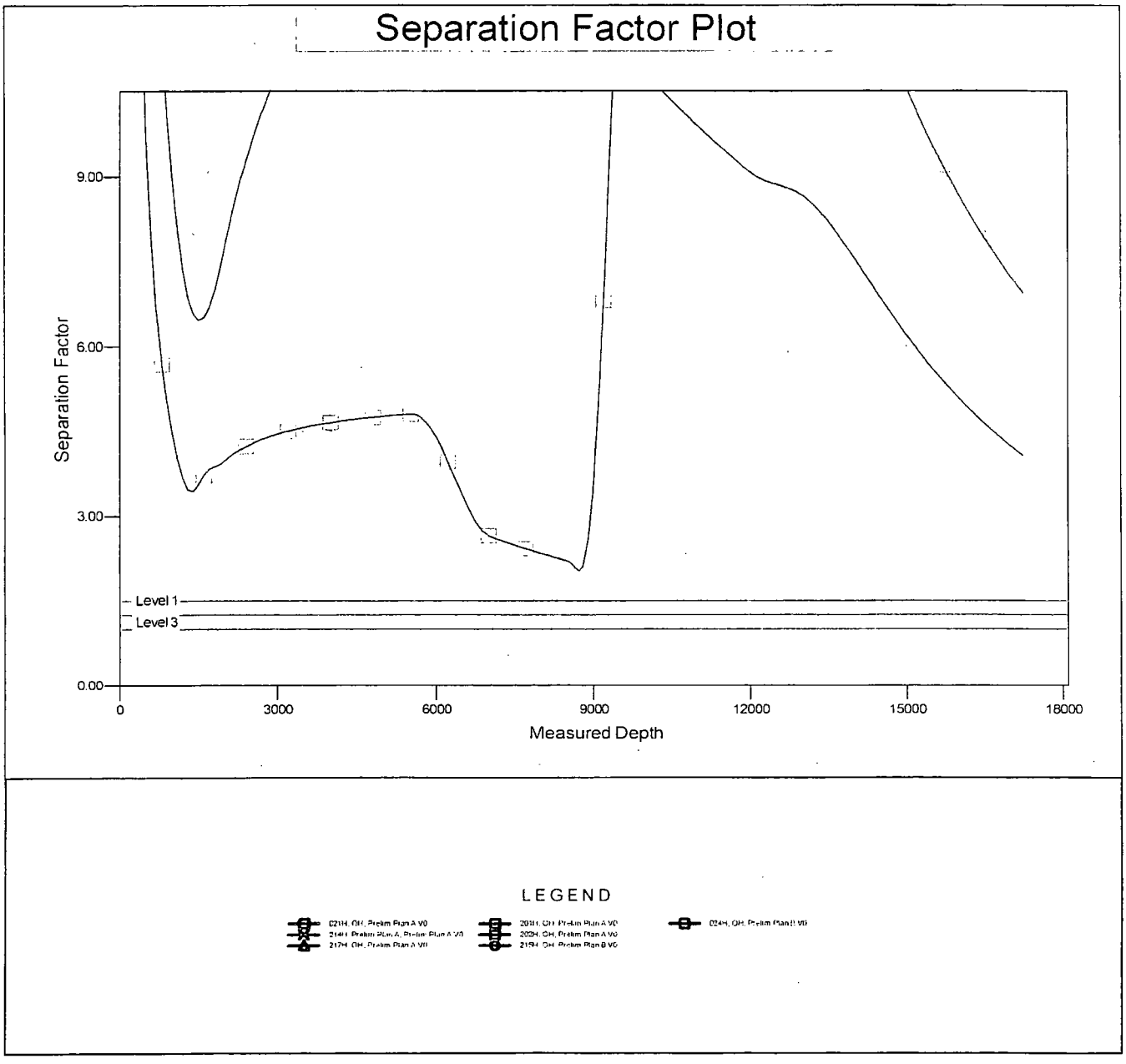
# Pro Directional

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Matador Resources | **Local Co-ordinate Reference:** | Well 203H |
| **Project:** | Lea County, NM | **TVD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Reference Site:** | Leslie Fed Com | **MD Reference:** | RIG @ 3283.00usft (GL:3254 +KB:29) |
| **Site Error:** | 0.00 usft | **North Reference:** | Grid |
| **Reference Well:** | 203H | **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 RIG @ 3283.00usft (GL:3254 +KB:29 | Coordinates are relative to: 203H |
| Offset Depths are relative to Offset Datum | Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 |
| Central Meridian is -104.3333333 | Grid Convergence at Surface is: 0.51° |

## Separation Factor Plot




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

Drilling Program

1. ESTIMATED TOPS

| Formation | TVD | MD | Bearing |
|---|---|---|---|
| Quaternary | 000 | 000 | water |
| Dewey Lake red beds | 389 | 389 | water |
| Rustler anhydrite | 909 | 909 | brine |
| Salado salt | 1431 | 1431 | barren |
| Castile anhydrite | 3724 | 3739 | barren |
| Base of salt | 5451 | 5479 | barren |
| Bell Canyon Sandstone | 5474 | 5502 | hydrocarbons |
| Cherry Canyon Sandstone | 6469 | 6500 | hydrocarbons |
| Brushy Canyon Sandstone | 7917 | 7947 | hydrocarbons |
| Bone Spring Limestone | 9254 | 9284 | hydrocarbons |
| 1st Bone Spring Carbonate | 10323 | 10353 | hydrocarbons |
| 1st Bone Spring Sand | 10397 | 10427 | hydrocarbons |
| 2nd Bone Spring Carbonate | 10605 | 10635 | hydrocarbons |
| 2nd Bone Spring Sand | 10994 | 11024 | hydrocarbons |
| 3rd Bone Spring Carbonate | 11456 | 11486 | hydrocarbons |
| **(KOP** | **11920** | **11950** | **hydrocarbons)** |
| 3rd Bone Spring Sand | 12111 | 12148 | hydrocarbons |
| Wolfcamp A Carbonate | 12443 | 12675 | hydrocarbons |
| **TD** | **12472** | **17236** | **hydrocarbons** |

2. NOTABLE ZONES

Wolfcamp A is the goal. Hole will extend north of the last perforation point to allow for pump installation. All perforations will be ≥330' from the dedication perimeter. Closest water well (C02297/C02298) is 2991' ESE. Depth to water is ≥205' in this ≥250' deep well.

3. PRESSURE CONTROL

A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required by Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs.

After setting the surface casing, and before drilling the surface casing shoe, a minimum 2M BOPE system will be installed. It will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high.

After setting intermediate 1 casing, a minimum 3M BOPE system will be installed and tested to 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

After setting intermediate 2 casing, a 10M system will be installed and tested to 250 psi low and 10000 psi high with the annular being tested to 250 psi low and 5000 psi high. The 11" 10 M flange on the wellhead will also be tested to 10000 psi at this time.

Matador requests a variance to have the option of running a speed head for setting the intermediate 1 and 2 strings. If running a speed head with landing mandrel for 9.625" and 7" casing, then a minimum 3M BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe.

After 7" casing is set in the speed head, the BOP will then be lifted to install another casing head section for setting the production casing. Matador will nipple up the casing head and BOP and a minimum 10M BOPE system will be installed. Pressure tests will be made to 250 psi low and 10000 psi high. Annular will be tested to 250 psi low and 5000 psi high. A diagram of the speed head is attached.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not

required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

4. CASING & CEMENT

All casing will be API and new.

| Hole O. D. | Set MD | Set TVD | Casing O. D. | Weight (lb/ft) | Grade | Joint | Collapse | Burst | Tension |
|---|---|---|---|---|---|---|---|---|---|
| 17.5" | 0' - 1000' | 0' - 1000' | 13.375" Surface | 54.5 | J-55 | BTC | 1.125 | 1.125 | 1.8 |
| 12.25" | 0' - 5600' | 0' - 5570' | 9.625" Inter. 1 | 40 | J-55 | BTC | 1.125 | 1.125 | 1.8 |
| 8.75" | 0' - 12700' | 0' – 12450' | 7" Inter. 2 | 29 | P-110 | BTC | 1.125 | 1.125 | 1.8 |
| 6.125" | 0' – 17236' | 0' – 12472' | 4.5" Product. | 13.5 | P-110 | BTC/TXP | 1.125 | 1.125 | 1.8 |

| Name | Type | Sacks | Yield | Cu. Ft. | Weight | Blend |
|---|---|---|---|---|---|---|
| Surface | Lead | 200 | 1.82 | 364 | 12.8 | Class C + Bentonite + 2% $CaCl_2$ + 3% NaCl + LCM |
| | Tail | 700 | 1.38 | 966 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = GL | | 100% Excess | | | Centralizers per Onshore Order 2.III.B.1f | |
| Intermediate 1 | Lead | 1020 | 2.13 | 2172 | 12.6 | Class C + Bentonite + 1% $CaCl_2$ + 8% NaCl + LCM |
| | Tail | 540 | 1.38 | 745 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = GL | | 100% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface | |
| Intermediate 2 | Lead | 560 | 2.36 | 1321 | 11.5 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| | Tail | 320 | 1.38 | 441 | 13.2 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 4600' | | 35% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC) | |
| Production | Tail | 600 | 1.17 | 702 | 15.8 | Class H + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 12200' | | 25% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve | |

## 5. MUD PROGRAM

An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

| Type | Interval (MD) | lb/gal | Viscosity | Fluid Loss |
|---|---|---|---|---|
| fresh water spud | 0' - 1000' | 8.3 | 28 | NC |
| brine water | 1000' - 5600' | 10.0 | 30-32 | NC |
| fresh water & cut brine | 5600' - 12700' | 9.0 | 30-31 | NC |
| OBM | 12700' – 17236' | 12.5 | 50-60 | <10 |

## 6. CORES, TESTS, & LOGS

No core or drill stem test is planned. A 2-person mud-logging program will be used from ≈5600' to TD. No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

## 7. DOWN HOLE CONDITIONS

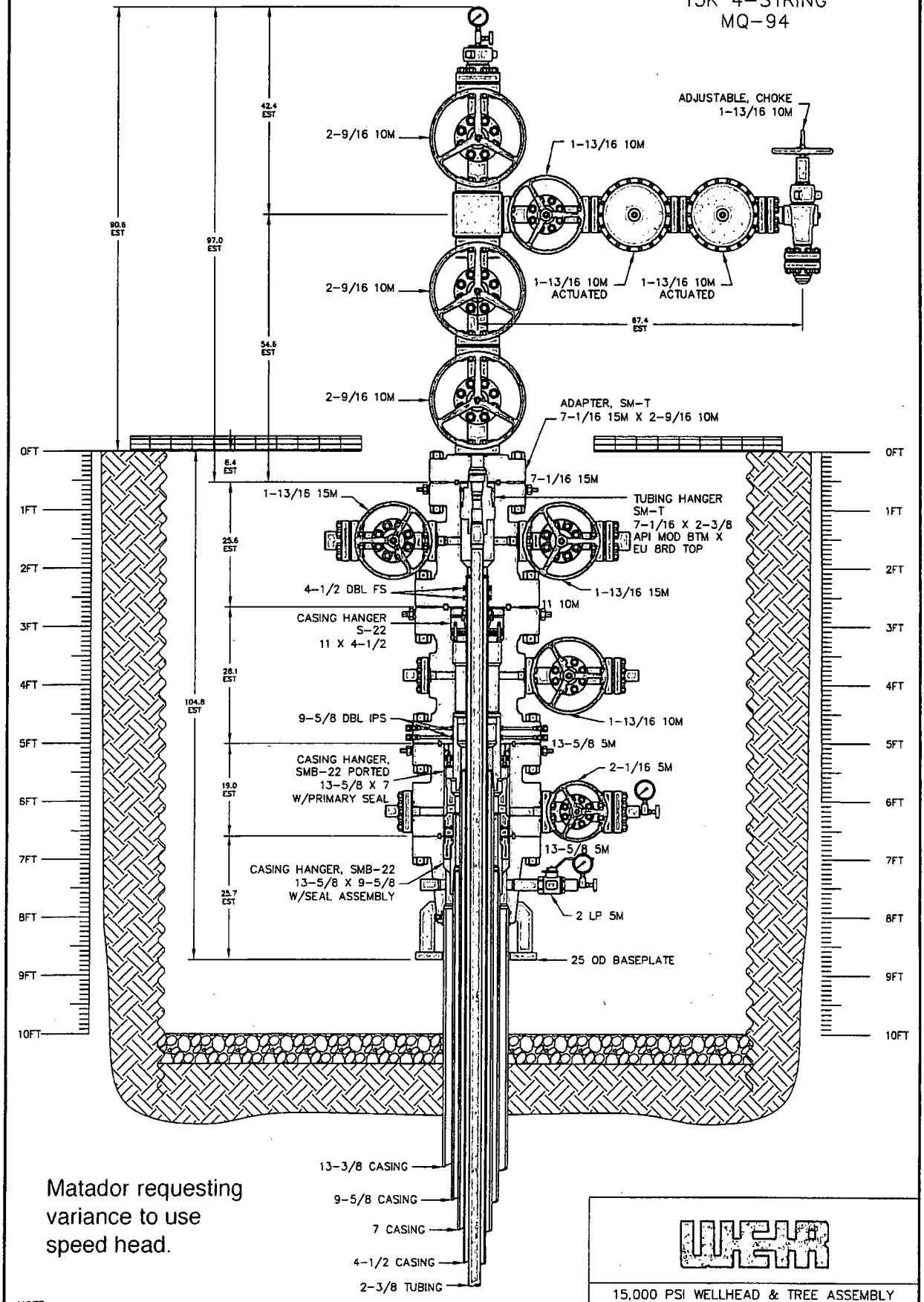
No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈9000 psi. Expected bottom hole temperature is ≈170° F.

Matador does not anticipate that there will be enough $H_2S$ from surface to the Bone Spring to meet BLM's minimum requirements for submitting an "$H_2S$ Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an $H_2S$ safety package on all wells, an "$H_2S$ Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas will be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

## 8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈3 months to drill and complete the well.

MATADOR
15K 4-STRING
MQ-94




Matador requesting variance to use speed head.

NOTE:
DIMENSIONS SHOWN ON THIS DRAWING ARE ESTIMATES ONLY AND CAN VARY SIGNIFICANTLY DEPENDING ON RAW MATERIAL LENGTHS. NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED. DIMENSIONS SHOWN SHOULD BE CONSIDERED FOR REFERENCE PURPOSES ONLY.



15,000 PSI WELLHEAD & TREE ASSEMBLY
13-3/8 X 9-5/8 X 7 X 4-1/2 X 2-3/8

| DRAWN BY: | SCALE | DATE | REV |
|---|---|---|---|
| RPL | 1:10 | 18JAN16 | |
| CHECKED BY: | DRAWING NO. | | |
| APPROVED BY: | P-20986 | | |

For the latest performance data, always visit our website: www.tenaris.com

December 31 2015

# Tenaris

**Size**: 4.500 in.
**Wall**: 0.290 in.
**Weight**: 13.50 lbs/ft
**Grade**: P110-ICY
**Min. Wall Thickness**: 87.5 %

**Connection**: TenarisXP® BTC
**Casing/Tubing**: CAS
**Coupling Option**: REGULAR

| | | | | | |
|---|---|---|---|---|---|
| Nominal OD | 4.500 in. | Nominal Weight | 13.50 lbs/ft | Standard Drift Diameter | 3.795 in. |
| Nominal ID | 3.920 in. | Wall Thickness | 0.290 in. | Special Drift Diameter | N/A |
| Plain End Weight | 13.05 lbs/ft | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Body Yield Strength | 479 x 1000 lbs | Internal Yield | 14100 psi | SMYS | 125000 psi |
| Collapse | 11620 psi | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Connection OD | 5.000 in. | Coupling Length | 9.075 in. | Connection ID | 3.908 in. |
| Critical Section Area | 3.836 sq. in. | Threads per in. | 5.00 | Make-Up Loss | 4.016 in. |

| | | | | | |
|---|---|---|---|---|---|
| Tension Efficiency | 100 % | Joint Yield Strength | 479 x 1000 lbs | Internal Pressure Capacity[1] | 14100 psi |
| Structural Compression Efficiency | 100 % | Structural Compression Strength | 479 x 1000 lbs | Structural Bending[2] | 127 °/100 ft |
| External Pressure Capacity | 11620 psi | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Minimum | 6950 ft-lbs | Optimum | 7720 ft-lbs | Maximum | 8490 ft-lbs |

| | | | | |
|---|---|---|---|---|
| Operating Torque | 10500 ft-lbs | Yield Torque | 12200 ft-lbs | |

Blanking Dimensions

**APD ID:** 10400022520 **Submission Date:** 10/05/2017

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** LESLIE FED COM **Well Number:** 203H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

Leslie_203H_road_map_20170920161849.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Leslie_203H_road_map_20170920162126.pdf

**New road type:** LOCAL

**Length:** 209.25 Feet **Width (ft.):** 30

**Max slope (%):** 0 **Max grade (%):** 1

**Army Corp of Engineers (ACOE) permit required?** NO

**ACOE Permit Number(s):**

**New road travel width:** 14

**New road access erosion control:** Crowned and ditched

**New road access plan or profile prepared?** NO

**New road access plan attachment:**

**Access road engineering design?** NO

**Access road engineering design attachment:**

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 5.1)

From the junction of NM 18 and NM 128 in Jal...
Go West 13.8 miles on NM 128 to the equivalent of Mile Post 38.7
Then turn left and go South 4.3 miles on a caliche road to a T-junction
Then turn left and go Southeast 1.0 mile on a caliche road
Then turn left and go NE and East 1.1 mile on a caliche road
Then turn left and go N 209.25' cross-country to the SE corner of the pad

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

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 4 - 5.1)

Four surface poly pipelines on the north side of the caliche road will be padded or otherwise protected. An 18" x 50' culvert will be installed on the north side of the caliche road. The 209.25' 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 = 1%. Maximum cut or fill = 2'. No cattle guard or vehicle turn out is needed. Upgrading will consist of patching potholes with caliche.

3. EXISTING WELLS (See MAP 3)

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

4. PROPOSED PRODUCTION FACILITIES

Production facilities will be on the west and south sides of the pad. Gas line and power line plans have not been formulated.

5. WATER SUPPLY (See MAP 2)

Water will be trucked from Madera's existing water stations on private land in NWNE 21-24s-34e, SESW 30-24s-34e, and NENE 8-25s-35e.

6. CONSTRUCTION MATERIALS & METHODS (See MAP 2)

NM One Call (811) will be notified before construction starts. Top ≈6" of soil and brush will be stockpiled north of the pad. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land (Destiny pit in NENE 4-25s-35e & Madera pit in SENW 6-25s-35e).

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 Jal 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 MAPS 6 & 7)

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 8 & 9)

Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the pad ≈53% (1.69 acre) by removing caliche and reclaiming a 65' swath on the north side and 150' swath on the west side of the pad. This will leave 1.96 acres for the production equipment (e. g., tank battery, heater-treater, separator), 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 owner's requirements.

Enough stockpiled topsoil will be retained to cover the remainder of the pad when the last well is plugged. Once the last well is plugged, then the rest of the pad will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled. Land use will be:

30' x 209.25' road = 0.14 acre
+ 370' x 430' pad = 3.65 acres
3.79 acres short term
- 1.69 acre pad interim reclamation
2.10 acres long term

11. SURFACE OWNER

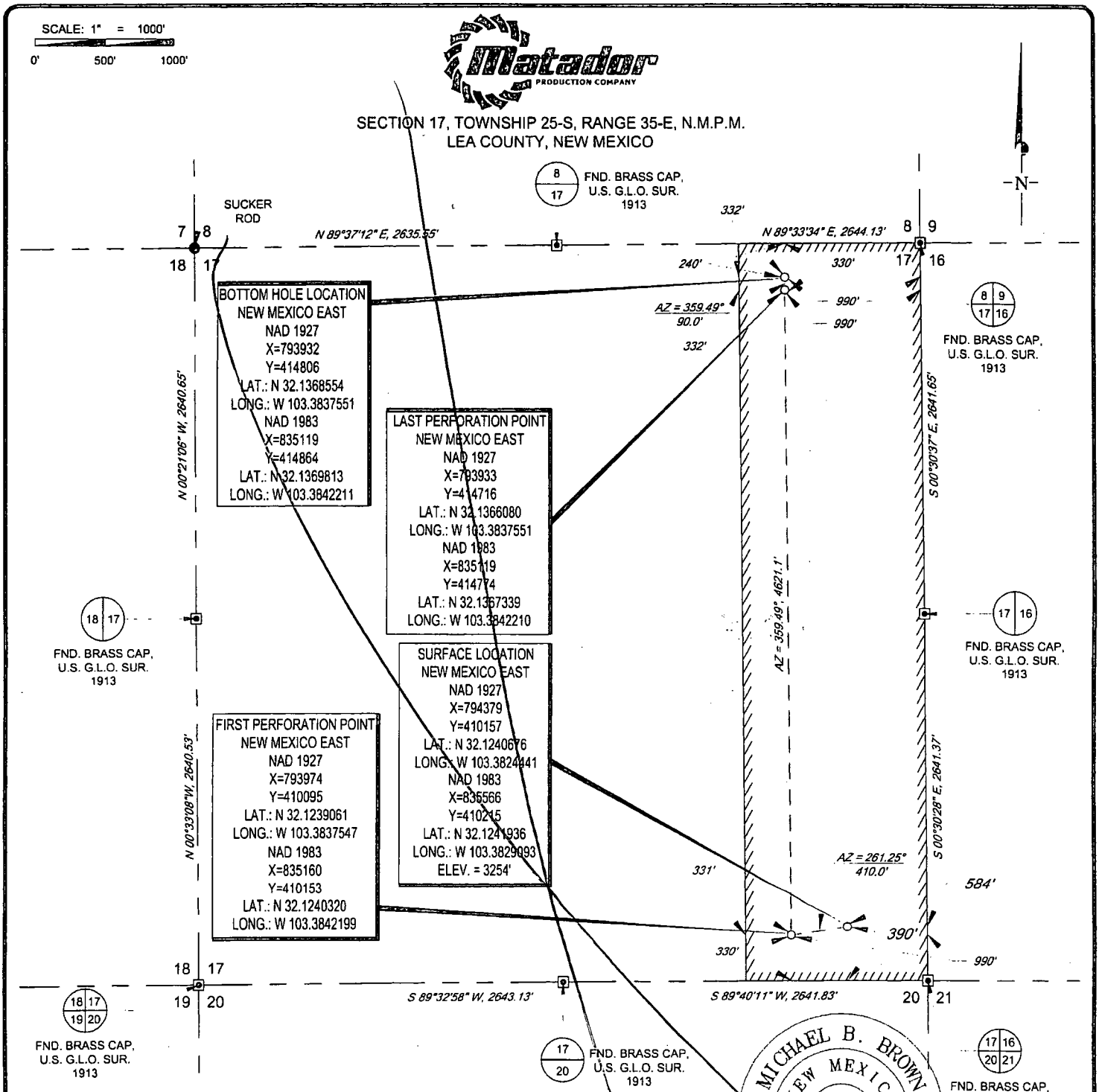
All construction will be on private surface. Surface owner is Dinwiddie Cattle Company LLC, P. O. Box 963, Capitan NM 88316. Their phone number is (575) 631-0385.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf on October 27, 2016. (Well was originally staked on a "slot 3" pad with a SHL of 390 FSL & 1845 FEL and a BHL of 240 FNL & 1654 FEL. Pad in SWSE 17-25s-35e has since been canceled and wells re-distributed.) October 27 on site included the slot 4 (SESE Section 17) pad where the #203H is now staked.

Lone Mountain inspected and filed archaeology report NMCRIS-138873 on August 28, 2017.

72




LEASE NAME & WELL NO.: LESLIE FED COM #203H

SECTION 17 TWP 25-S RGE 35-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 390' FSL & 584' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-128 W. & NM-205 N GO WEST ON NM-128 ±13.8 MILES, THENCE SOUTH (LEFT) ON BATTLE AXE RD. ±0.3 MILES, THENCE SOUTH ON MADERA RD. ±1.4 MILES, THENCE SOUTHEAST (LEFT) ON LEASE RD. ±3.1 MILES, THENCE EAST (LEFT) ±1.0 MILES, THENCE NORTH (LEFT) ±0.5 MILES TO A POINT ±450 FEET SOUTH OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.

Michael Blake Brown, P.S. No. 18329

AUGUST 17, 2017

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM