

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

HOBBS OCD
JAN 03 2018
RECEIVED

OPERATOR'S NAME:	Matador Production company
LEASE NO.:	MNLC065607
WELL NAME & NO.:	134H-Verna RAE Fed Com
SURFACE HOLE FOOTAGE:	260'N & 1725'E
BOTTOM HOLE FOOTAGE	240'S & 660'E
LOCATION:	Section 6, T.20 S, R 34 E, NMPM
COUNTY:	Lea County, New Mexico

Potash	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Secretary	<input checked="" type="checkbox"/> R-111-P
Cave/Karst Potential	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input checked="" type="checkbox"/> High
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	<input checked="" type="checkbox"/> Conventional	<input checked="" type="checkbox"/> Multibowl	
Other	<input type="checkbox"/> 4 String Area	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP

A. Hydrogen Sulfide

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates - Seven Rivers** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **20** inch surface casing shall be set at approximately **1600** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

Option 1:

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

Option 2:

Operator has proposed DV tool, the depth may be adjusted as long as the cement is changed proportionally. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

- b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash and Capitan Reef.**

- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on

these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the **5 1/2** inch production casing is:
 - Cement should tie-back at least **50 feet above the Capitan Reef** (Top of Capitan Reef estimated at 4750'). Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 3.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9 5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9 5/8** first intermediate casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

D. SPECIAL REQUIREMENT(S)

Waste Minimization Plan (WMP)

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

Communityization Agreement

- The operator will submit a Communityization 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 Communityization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communityization 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 Communityization Agreement number is known, it shall also be on the sign.

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GENERAL REQUIREMENTS

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

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

Chaves and Roosevelt Counties

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

During office hours call (575) 627-0272.

After office hours call (575)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

(575) 361-2822

Lea County

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

393-3612

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

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Production company
LEASE NO.:	MNLC065607
WELL NAME & NO.:	134H-Verna RAE Fed Com
SURFACE HOLE FOOTAGE:	260'/N & 1725'/E
BOTTOM HOLE FOOTAGE	240'/S & 660'/E
LOCATION:	Section 6, T.20 S, R 34 E, NMPM
COUNTY:	Lea County, New Mexico

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

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- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
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 - Watershed/Water Quality
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- Construction**
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 - Closed Loop System
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 - Well Structures & Facilities
 - Electric Lines
- Interim Reclamation**
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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.

1. The compacted berm shall be constructed at a minimum of 24 inches high with impermeable mineral material (e.g. caliche).
2. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
3. The topsoil stockpile shall be located outside the bermed well pad.
4. Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
5. No storm drains, tubing or openings shall be placed in the berm.
6. 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.
7. 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.
8. 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:

1. 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.

1. 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.

Potash

Lessees must comply with the 2012 Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations. Three exceptions to this policy will be permitted if the drilling will occur under the following conditions from:

- (a) A Drilling Island associated with a Development Area established under this Order or a Drilling Island established under a prior Order;
- (b) A Barren Area and the Authorized Officer determines that such operations will not adversely affect active or planned potash mining operations in the immediate vicinity of the proposed drill-site; or
- (c) A Drilling Island, not covered by (a) above or single well site established under this Order by the approval and in the sole discretion of the Authorized Officer, provided that such site was jointly recommended to the Authorized Officer by the oil and gas lessee(s) and the nearest potash lessee(s).

When the Authorized Officer determines that unitization is necessary for orderly oil and gas development and proper protection of potash deposits, no well shall be drilled for oil or gas except pursuant to a unit plan approved by the authorized officer.

The drilling or the abandonment of any well on said lease shall be done in accordance with applicable oil and gas operating regulations including such requirements as the Authorized Officer may prescribe as necessary to prevent the infiltration of oil, gas or water into formations containing potash deposits or into mines or working being utilized in the extraction of such deposits.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Verna Rae Drill Island (See Potash Memo and Map in attached file for Drill Island description)

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 berthing 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

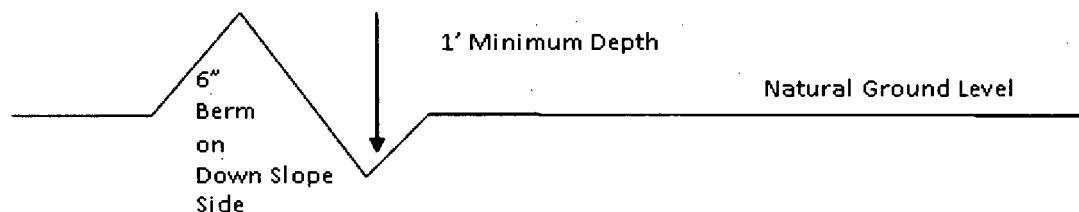
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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:

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

Cattle guards

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

Fence Requirement

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

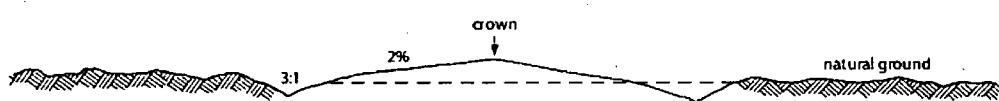
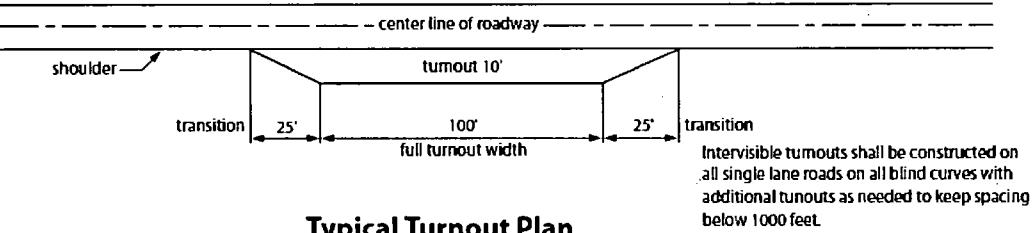
Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes



Level Ground Section

road type	crown
earth surface	.03 - .05 ft/ft
aggregate surface	.02 - .04 ft/ft
paved surface	.02 - .03 ft/ft

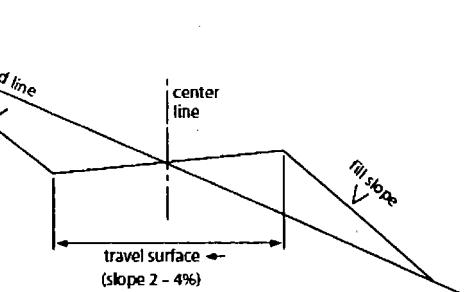
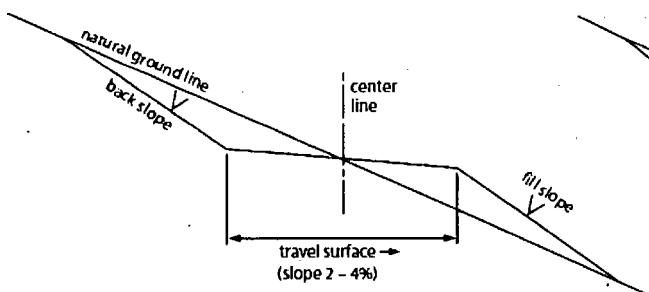
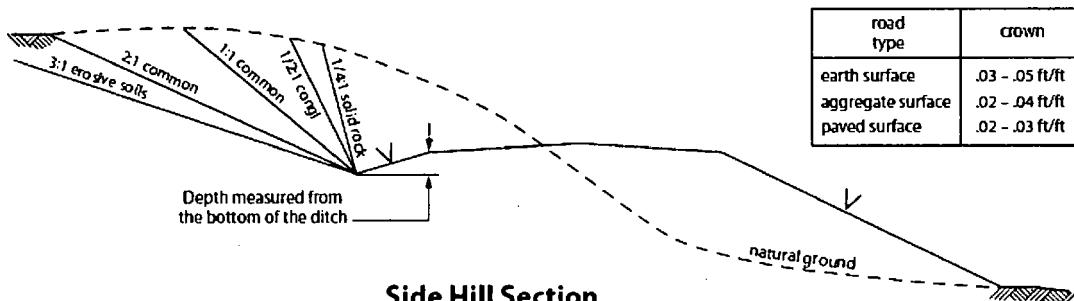


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. Electric Lines

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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

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

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the

Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

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, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. 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 ft. from the source of the noise.

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.

Exhibit A-1
Company: Matador Resources
Lease #:
Well name: Verna Rae Fed Com 134H
November 11, 2017

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

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

*Pounds of pure live seed:

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



Hydrogen Sulfide Drilling

Operations Plan

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area 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

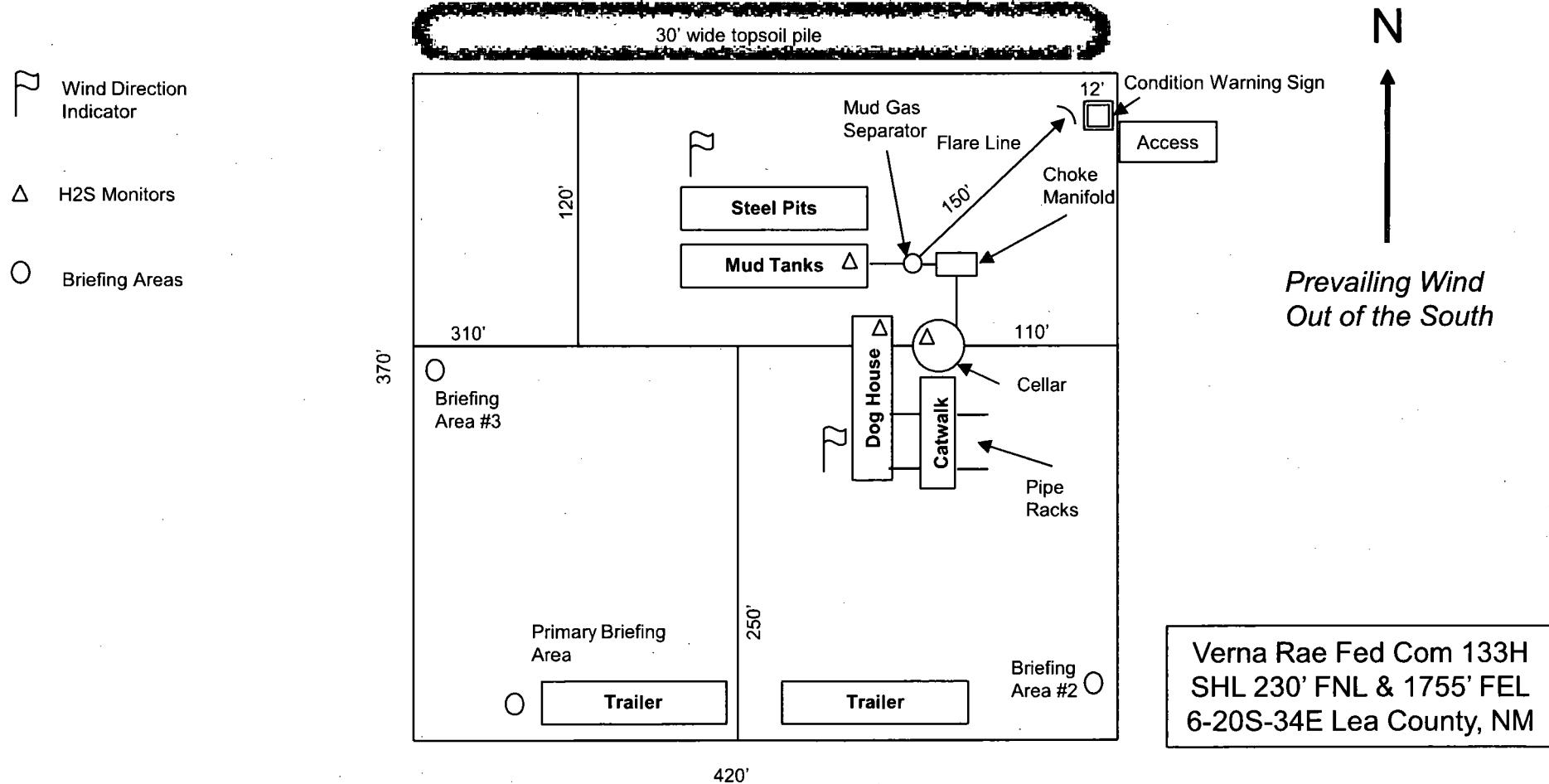
Verna Rae Fed Com wells

Matador Production Company

Sec. 6, T20S, R34E Lea County, NM

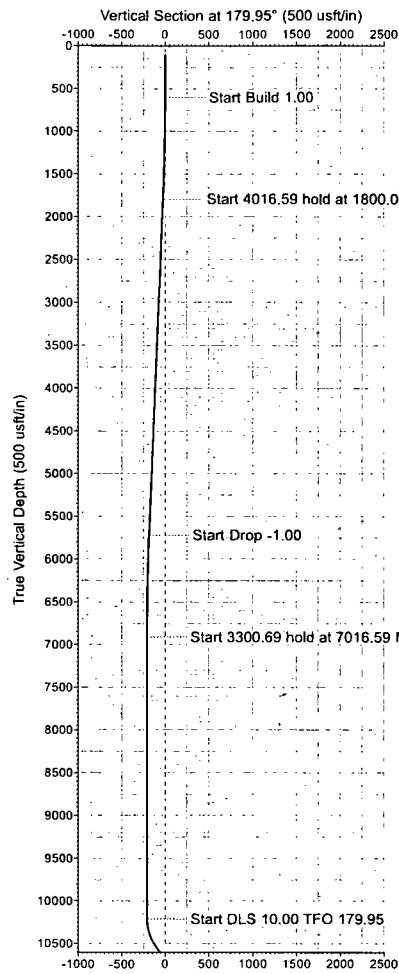
<u>Company Office</u>			
Matador Production Company			(972)-371-5200
<u>Key Personnel</u>			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Greg Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659
<u>Lea County</u>			
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. (Monument)		575-393-4339	
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	
<u>Carlsbad</u>			
BLM		575-234-5972	
<u>Santa Fe</u>			
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	
<u>National</u>			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
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	
<u>Other</u>			
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





Matador Resources
Lea County, NM
Verna Rae
134H
Prelim Plan A
GL:3620'+KB:28.5'(Patt809)



RKB Elevation: Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))

+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	585892.00	727046.00	32.6085574°N	103.5960116°W	

US State Plane 1927 (Exact solution)
NAD 1927 (NAVD29 CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

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	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
3	1800.00	12.00	78.85	1791.25	24.22	122.84	1.00	-24.11
4	5816.59	12.00	78.85	5720.07	185.78	942.16	0.00	-184.96
5	7016.59	0.00	0.00	6911.31	210.00	1065.00	1.00	-209.07
6	10317.28	0.00	0.00	10212.00	210.00	1065.00	0.00	-209.07
7	11217.27	90.00	179.95	10784.96	-362.95	1065.46	10.00	363.88
8	15618.32	90.00	179.95	10785.00	-4764.00	1069.00	0.00	4764.93



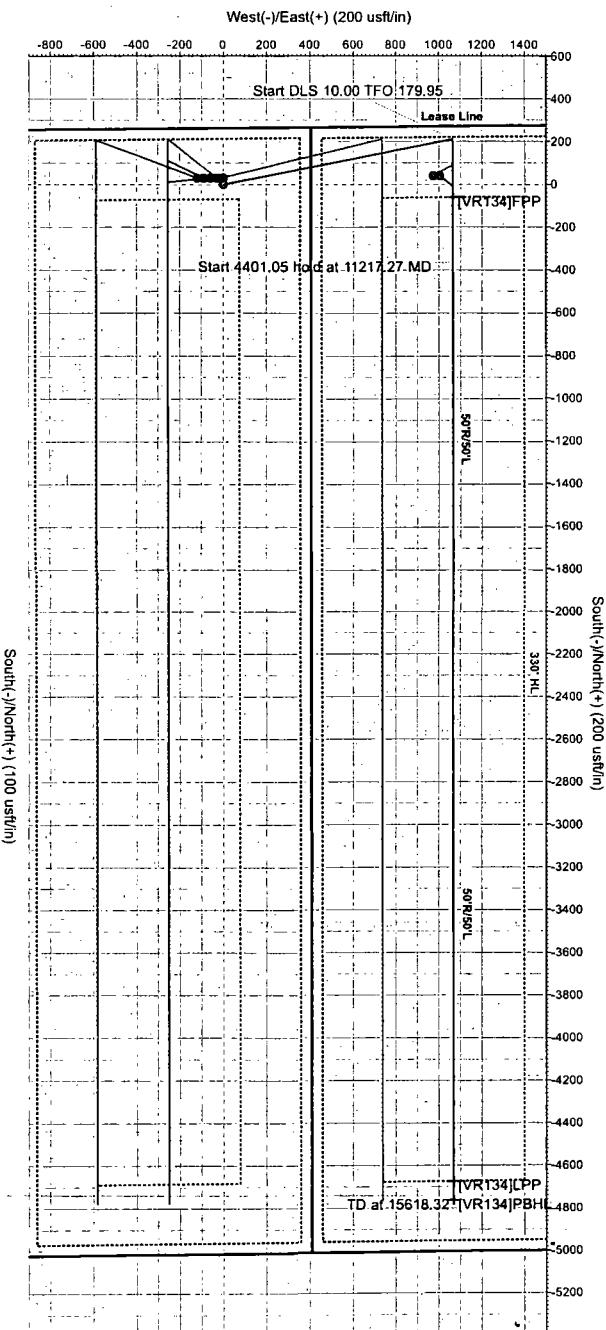
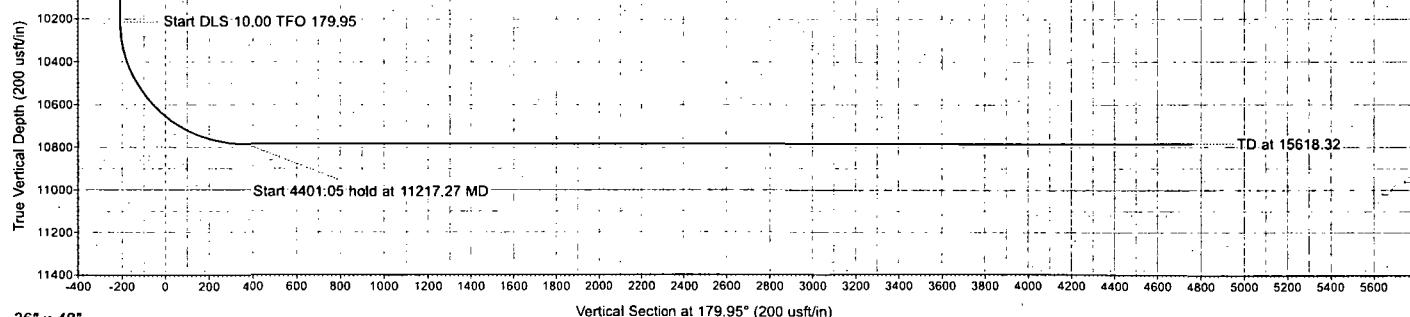
Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.39°

Magnetic Field
Strength: 4838.1 T
Dir Angle: 69.63°
Date: 5/29/2017
Model: HDGM

Azimuth Corrections
Total Magnetic Corr. (M to G): 6.39°
Declination (M to T): 6.78° East

LEGEND

- 114H, OH, Prelim Plan A V0+ 113H, OH, Prelim Plan A V0
- 133H, OH, Prelim Plan A V0+ 123H, OH, Prelim Plan A V0
- 124H, OH, Prelim Plan A V0+ 203H, OH, Prelim Plan A V0
- 204H, OH, Prelim Plan A V0+ Prelim Plan A

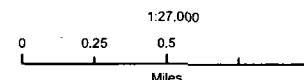


Matador Production Company

Verna Rae Fed Com #133H
H₂S Contingency Plan:
2 Mile Radius Map

Section 6, Township 20S, Range 34E
Lea County, New Mexico

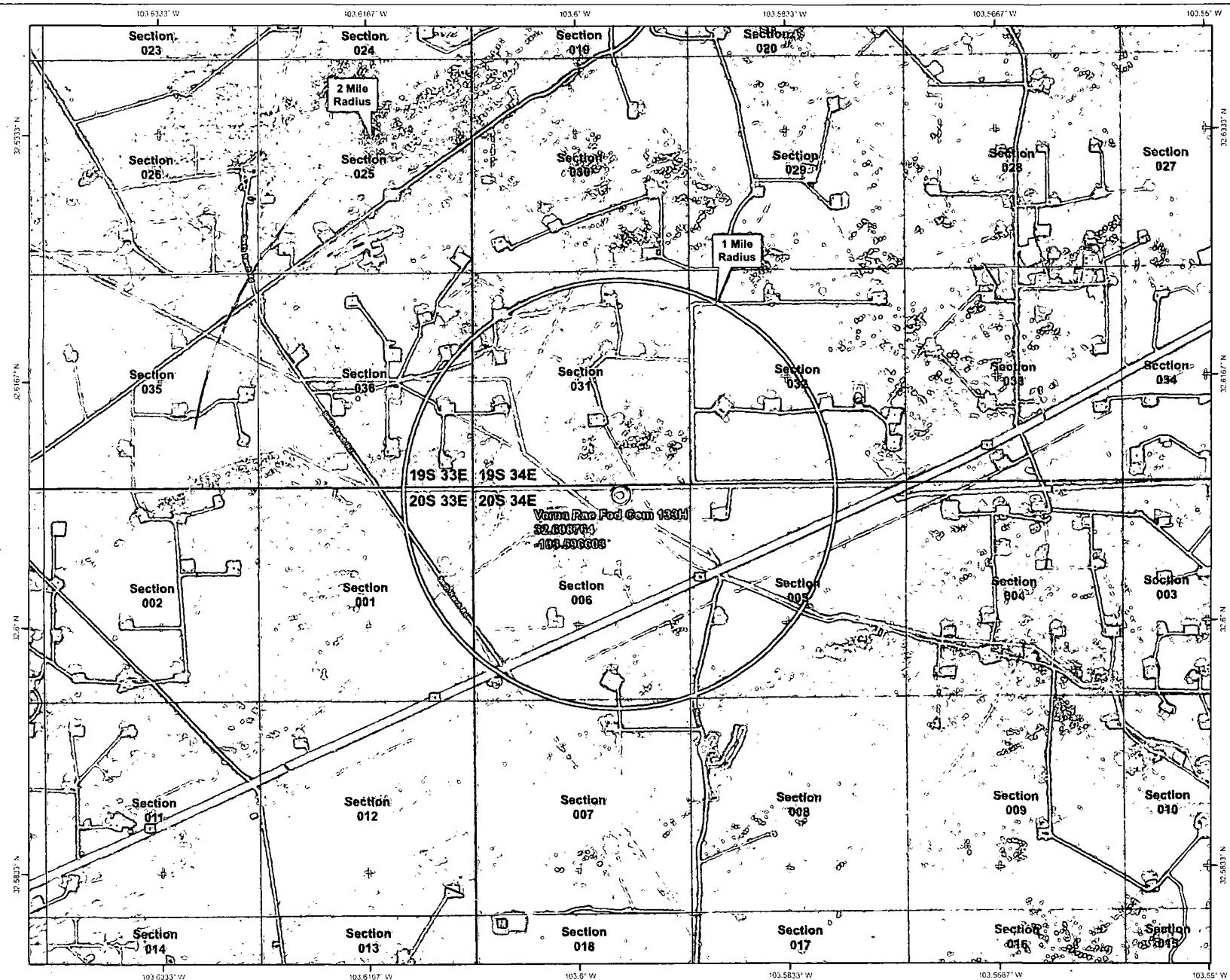
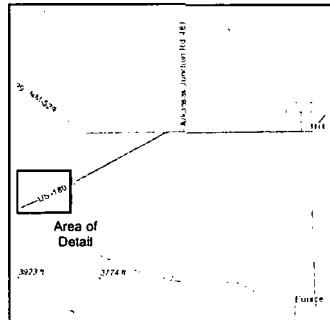
© Surface Hole Location



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., June 9, 2017
for Matador Production Company



Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/31/2017	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,618.32	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset		Distance			Warning
		Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
Verna Rae							
113H - OH - Prelim Plan A	600.00	600.00	67.08	63.55	18.984	CC	
113H - OH - Prelim Plan A	700.00	700.01	67.77	63.53	15.970	ES	
113H - OH - Prelim Plan A	1,000.00	997.17	81.68	75.35	12.886	SF	
114H - OH - Prelim Plan A	6,317.80	6,221.09	215.84	166.16	4.344	CC	
114H - OH - Prelim Plan A	9,000.00	8,901.56	220.00	152.63	3.266	ES, SF	
123H - OH - Prelim Plan A	600.00	600.00	94.87	91.33	26.847	CC, ES	
123H - OH - Prelim Plan A	15,618.32	14,971.50	1,394.61	1,230.12	8.479	SF	
124H - OH - Prelim Plan A	6,500.64	6,400.00	117.73	66.45	2.296	CC	
124H - OH - Prelim Plan A	9,800.00	9,701.34	120.00	47.04	1.645	ES, SF	
133H - OH - Prelim Plan A	400.00	400.00	42.43	40.33	20.205	CC, ES	
133H - OH - Prelim Plan A	15,618.32	15,601.05	1,322.14	1,148.31	7.606	SF	
203H - OH - Prelim Plan A	200.00	200.00	123.45	122.79	185.406	CC, ES	
203H - OH - Prelim Plan A	15,618.32	15,699.42	1,658.75	1,481.59	9.363	SF	
204H - OH - Prelim Plan A	100.00	100.00	31.00	30.87	241.520	CC	
204H - OH - Prelim Plan A	1,800.00	1,803.93	35.65	22.97	2.812	ES	
204H - OH - Prelim Plan A	15,618.32	15,690.70	360.45	190.46	2.120	SF	

Offset Design										Offset Site Error:	0.00 usft		
Verna Rae - 113H - OH - Prelim Plan A										Offset Well Error:	0.00 usft		
Survey Program:		Distance											
Reference	Offset	Semi Major Axis											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
100.00	100.00	100.00	100.00	0.00	0.13	-63.43	30.00	-60.00	67.08	66.95	0.13	522.634	
200.00	200.00	200.00	200.00	0.18	0.49	-63.43	30.00	-60.00	67.08	66.42	0.67	100.745	
300.00	300.00	300.00	300.00	0.54	0.85	-63.43	30.00	-60.00	67.08	65.70	1.38	48.512	
400.00	400.00	400.00	400.00	0.90	1.20	-63.43	30.00	-60.00	67.08	64.98	2.10	31.948	
500.00	500.00	500.00	500.00	1.25	1.56	-63.43	30.00	-60.00	67.08	64.27	2.82	23.816	
600.00	600.00	600.00	600.00	1.61	1.92	-63.43	30.00	-60.00	67.08	63.55	3.53	18.984 CC	
700.00	699.99	700.01	699.99	1.97	2.28	-142.73	30.00	-60.00	67.77	63.53	4.24	15.970 ES	
800.00	799.96	799.96	799.96	2.31	2.64	-144.01	30.00	-60.00	69.88	64.92	4.95	14.114	
900.00	899.86	898.74	898.74	2.67	2.98	-146.28	29.91	-60.85	74.21	68.56	5.65	13.139	
1,000.00	999.68	997.17	997.13	3.03	3.32	-149.44	29.65	-63.37	81.68	75.35	6.34	12.886 SF	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 113H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 8900-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis			Distance					Warning	
				Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,100.00	1,099.37	1,095.07	1,094.94	3.39	3.66	-152.94	29.22	-67.56	92.50	85.47	7.03	13.155	
1,200.00	1,198.90	1,192.26	1,191.96	3.76	4.00	-156.35	28.63	-73.35	106.79	99.07	7.72	13.827	
1,300.00	1,298.26	1,288.60	1,288.00	4.14	4.35	-159.41	27.88	-80.71	124.59	116.18	8.41	14.813	
1,400.00	1,397.40	1,385.99	1,385.03	4.52	4.70	-162.04	27.01	-89.14	145.29	136.18	9.11	15.950	
1,500.00	1,496.30	1,483.23	1,481.90	4.92	5.06	-164.16	26.15	-97.58	167.87	158.06	9.81	17.115	
1,600.00	1,594.93	1,580.05	1,578.35	5.33	5.41	-165.90	25.29	-105.97	192.27	181.76	10.51	18.295	
1,700.00	1,693.26	1,676.42	1,674.35	5.75	5.77	-167.34	24.43	-114.32	218.46	207.25	11.21	19.487	
1,800.00	1,791.25	1,772.31	1,769.88	6.19	6.13	-168.55	23.58	-122.64	246.41	234.50	11.91	20.686	
1,900.00	1,889.06	1,867.95	1,865.15	6.64	6.48	-169.59	22.73	-130.93	275.26	262.65	12.61	21.826	
2,000.00	1,986.88	1,963.58	1,960.42	7.10	6.84	-170.43	21.87	-139.22	304.19	290.88	13.31	22.851	
2,100.00	2,084.69	2,059.22	2,055.70	7.56	7.20	-171.13	21.02	-147.51	333.16	319.15	14.01	23.773	
2,200.00	2,182.51	2,154.86	2,150.97	8.03	7.56	-171.72	20.17	-155.81	362.18	347.46	14.72	24.607	
2,300.00	2,280.32	2,250.50	2,246.25	8.50	7.92	-172.22	19.32	-164.10	391.22	375.80	15.42	25.365	
2,400.00	2,378.13	2,346.14	2,341.52	8.97	8.29	-172.65	18.47	-172.39	420.29	404.16	16.13	26.055	
2,500.00	2,475.95	2,441.78	2,436.80	9.45	8.65	-173.02	17.62	-180.68	449.37	432.53	16.84	26.687	
2,600.00	2,573.76	2,537.41	2,532.07	9.92	9.01	-173.35	16.77	-188.97	478.47	460.92	17.55	27.267	
2,700.00	2,671.58	2,633.05	2,627.34	10.40	9.37	-173.64	15.92	-197.27	507.58	489.33	18.26	27.801	
2,800.00	2,769.39	2,728.69	2,722.62	10.88	9.74	-173.90	15.07	-205.56	536.71	517.74	18.97	28.295	
2,900.00	2,867.21	2,824.33	2,817.89	11.37	10.10	-174.13	14.22	-213.85	565.84	546.16	19.68	28.752	
3,000.00	2,965.02	2,919.97	2,913.17	11.85	10.47	-174.34	13.37	-222.14	594.98	574.59	20.39	29.177	
3,100.00	3,062.84	3,015.60	3,008.44	12.33	10.80	-174.53	12.52	-230.43	624.13	603.05	21.08	29.612	
3,200.00	3,160.65	3,119.28	3,111.75	12.82	10.90	-174.72	11.64	-238.99	652.90	631.36	21.54	30.313	
3,300.00	3,258.47	3,228.20	3,220.44	13.31	10.94	-174.90	10.91	-246.08	679.97	658.00	21.97	30.953	
3,400.00	3,356.28	3,338.25	3,330.38	13.79	10.99	-175.07	10.39	-251.15	705.19	682.78	22.41	31.469	
3,500.00	3,454.10	3,449.38	3,441.46	14.28	11.05	-175.23	10.09	-254.14	728.55	705.69	22.86	31.867	
3,600.00	3,551.91	3,559.84	3,551.91	14.77	11.12	-175.38	10.00	-255.00	750.03	726.71	23.32	32.162	
3,700.00	3,649.73	3,657.65	3,649.73	15.26	11.18	-175.50	10.00	-255.00	770.76	746.99	23.76	32.435	
3,800.00	3,747.54	3,755.46	3,747.54	15.75	11.25	-175.62	10.00	-255.00	791.49	767.27	24.22	32.685	
3,900.00	3,845.36	3,853.28	3,845.36	16.24	11.34	-175.73	10.00	-255.00	812.22	787.54	24.68	32.911	
4,000.00	3,943.17	3,951.09	3,943.17	16.73	11.43	-175.84	10.00	-255.00	832.96	807.81	25.15	33.115	
4,100.00	4,040.99	4,048.91	4,040.99	17.22	11.54	-175.94	10.00	-255.00	853.70	828.06	25.64	33.298	
4,200.00	4,138.80	4,146.72	4,138.80	17.71	11.65	-176.04	10.00	-255.00	874.44	848.31	26.13	33.462	
4,300.00	4,236.62	4,244.54	4,236.62	18.20	11.77	-176.13	10.00	-255.00	895.19	868.55	26.64	33.607	
4,400.00	4,334.43	4,342.35	4,334.43	18.69	11.90	-176.22	10.00	-255.00	915.93	888.78	27.15	33.735	
4,500.00	4,432.24	4,440.17	4,432.24	19.19	12.04	-176.30	10.00	-255.00	936.68	909.01	27.67	33.847	
4,600.00	4,530.06	4,537.98	4,530.06	19.68	12.19	-176.38	10.00	-255.00	957.43	929.23	28.21	33.945	
4,700.00	4,627.87	4,635.80	4,627.87	20.17	12.35	-176.46	10.00	-255.00	978.19	949.44	28.75	34.029	
4,800.00	4,725.69	4,733.61	4,725.69	20.66	12.52	-176.53	10.00	-255.00	998.94	969.65	29.29	34.100	
4,900.00	4,823.50	4,831.43	4,823.50	21.16	12.69	-176.60	10.00	-255.00	1,019.70	989.85	29.85	34.160	
5,000.00	4,921.32	4,929.24	4,921.32	21.65	12.87	-176.67	10.00	-255.00	1,040.45	1,010.04	30.41	34.210	
5,100.00	5,019.13	5,027.06	5,019.13	22.14	13.05	-176.73	10.00	-255.00	1,061.21	1,030.23	30.98	34.250	
5,200.00	5,116.95	5,124.87	5,116.95	22.64	13.25	-176.80	10.00	-255.00	1,081.97	1,050.41	31.56	34.281	
5,300.00	5,214.76	5,222.69	5,214.76	23.13	13.45	-176.86	10.00	-255.00	1,102.73	1,070.59	32.15	34.304	
5,400.00	5,312.58	5,320.50	5,312.58	23.63	13.65	-176.92	10.00	-255.00	1,123.49	1,090.76	32.74	34.320	
5,500.00	5,410.39	5,418.32	5,410.39	24.12	13.87	-176.97	10.00	-255.00	1,144.26	1,110.92	33.33	34.329	
5,600.00	5,508.21	5,516.13	5,508.21	24.61	14.08	-177.03	10.00	-255.00	1,165.02	1,131.09	33.93	34.332	
5,700.00	5,606.02	5,613.95	5,606.02	25.11	14.31	-177.08	10.00	-255.00	1,185.78	1,151.24	34.54	34.330	
5,800.00	5,703.84	5,711.76	5,703.84	25.60	14.53	-177.13	10.00	-255.00	1,206.55	1,171.40	35.15	34.323	
5,816.59	5,720.07	5,727.99	5,720.07	25.68	14.57	-177.14	10.00	-255.00	1,210.00	1,174.74	35.26	34.321	
5,900.00	5,801.77	5,809.70	5,801.77	26.09	14.77	-177.18	10.00	-255.00	1,226.72	1,190.95	35.77	34.296	
6,000.00	5,900.05	5,907.97	5,900.05	26.56	15.00	-177.23	10.00	-255.00	1,245.21	1,208.82	36.39	34.221	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 113H - OH - Prelim Plan A											Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 8900-MWD - OWSG											Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning
		Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,100.00	5,998.63	6,006.55	5,998.63	27.01	15.25	-177.28	10.00	-255.00	1,261.98	1,224.97	37.01	34.100
6,200.00	6,097.48	6,105.41	6,097.48	27.44	15.50	-177.32	10.00	-255.00	1,277.03	1,239.40	37.63	33.936
6,300.00	6,196.59	6,204.51	6,196.59	27.86	15.75	-177.35	10.00	-255.00	1,290.36	1,252.10	38.26	33.730
6,400.00	6,295.91	6,303.83	6,295.91	28.25	16.01	-177.38	10.00	-255.00	1,301.95	1,263.07	38.88	33.486
6,500.00	6,395.42	6,403.34	6,395.42	28.63	16.27	-177.41	10.00	-255.00	1,311.82	1,272.31	39.51	33.205
6,600.00	6,495.09	6,503.01	6,495.09	28.99	16.53	-177.43	10.00	-255.00	1,319.94	1,279.81	40.13	32.890
6,700.00	6,594.88	6,602.80	6,594.88	29.33	16.80	-177.44	10.00	-255.00	1,326.33	1,285.57	40.76	32.542
6,800.00	6,694.77	6,702.70	6,694.77	29.66	17.08	-177.45	10.00	-255.00	1,330.98	1,289.59	41.38	32.163
6,900.00	6,794.73	6,802.65	6,794.73	29.97	17.35	-177.46	10.00	-255.00	1,333.88	1,291.87	42.01	31.754
7,000.00	6,894.72	6,902.64	6,894.72	30.26	17.63	-177.46	10.00	-255.00	1,335.04	1,292.41	42.63	31.317
7,016.59	6,911.31	6,919.24	6,911.31	30.31	17.68	-98.62	10.00	-255.00	1,335.07	1,292.33	42.73	31.243
7,100.00	6,994.72	7,002.64	6,994.72	30.54	17.91	-98.62	10.00	-255.00	1,335.07	1,291.82	43.24	30.875
7,200.00	7,094.72	7,102.64	7,094.72	30.82	18.20	-98.62	10.00	-255.00	1,335.07	1,291.21	43.86	30.442
7,300.00	7,194.72	7,202.64	7,194.72	31.11	18.48	-98.62	10.00	-255.00	1,335.07	1,290.59	44.47	30.019
7,400.00	7,294.72	7,302.64	7,294.72	31.39	18.77	-98.62	10.00	-255.00	1,335.07	1,289.97	45.10	29.605
7,500.00	7,394.72	7,402.64	7,394.72	31.68	19.07	-98.62	10.00	-255.00	1,335.07	1,289.35	45.72	29.201
7,600.00	7,494.72	7,502.64	7,494.72	31.96	19.36	-98.62	10.00	-255.00	1,335.07	1,288.72	46.35	28.806
7,700.00	7,594.72	7,602.64	7,594.72	32.25	19.66	-98.62	10.00	-255.00	1,335.07	1,288.09	46.98	28.420
7,800.00	7,694.72	7,702.64	7,694.72	32.54	19.96	-98.62	10.00	-255.00	1,335.07	1,287.46	47.61	28.042
7,900.00	7,794.72	7,802.64	7,794.72	32.83	20.26	-98.62	10.00	-255.00	1,335.07	1,286.82	48.24	27.673
8,000.00	7,894.72	7,902.64	7,894.72	33.13	20.56	-98.62	10.00	-255.00	1,335.07	1,286.18	48.88	27.312
8,100.00	7,994.72	8,002.64	7,994.72	33.42	20.86	-98.62	10.00	-255.00	1,335.07	1,285.54	49.52	26.959
8,200.00	8,094.72	8,102.64	8,094.72	33.72	21.17	-98.62	10.00	-255.00	1,335.07	1,284.90	50.16	26.614
8,300.00	8,194.72	8,202.64	8,194.72	34.01	21.48	-98.62	10.00	-255.00	1,335.07	1,284.26	50.81	26.277
8,400.00	8,294.72	8,302.64	8,294.72	34.31	21.78	-98.62	10.00	-255.00	1,335.07	1,283.61	51.45	25.947
8,500.00	8,394.72	8,402.64	8,394.72	34.61	22.10	-98.62	10.00	-255.00	1,335.07	1,282.96	52.10	25.624
8,600.00	8,494.72	8,502.64	8,494.72	34.91	22.41	-98.62	10.00	-255.00	1,335.07	1,282.31	52.75	25.308
8,700.00	8,594.72	8,602.64	8,594.72	35.21	22.72	-98.62	10.00	-255.00	1,335.07	1,281.66	53.41	24.999
8,800.00	8,694.72	8,702.64	8,694.72	35.52	23.04	-98.62	10.00	-255.00	1,335.07	1,281.01	54.06	24.697
8,900.00	8,794.72	8,802.64	8,794.72	35.82	23.35	-98.62	10.00	-255.00	1,335.07	1,280.36	54.71	24.403
9,000.00	8,894.72	8,902.64	8,894.72	36.12	23.50	-98.62	10.00	-255.00	1,335.07	1,279.86	55.20	24.184
9,100.00	8,994.72	8,983.75	8,975.74	36.43	23.51	-98.72	7.47	-255.00	1,335.58	1,280.08	55.50	24.065
9,200.00	9,094.72	9,056.06	9,047.12	36.73	23.52	-99.20	-3.83	-254.99	1,338.04	1,282.28	55.76	23.996
9,300.00	9,194.72	9,124.52	9,112.88	37.04	23.55	-100.00	-22.73	-254.97	1,342.83	1,286.84	55.99	23.982
9,400.00	9,294.72	9,187.68	9,171.15	37.35	23.58	-101.02	-47.01	-254.95	1,350.41	1,294.23	56.18	24.038
9,500.00	9,394.72	9,250.00	9,225.69	37.66	23.62	-102.27	-77.10	-254.93	1,361.33	1,305.00	56.33	24.168
9,600.00	9,494.72	9,300.00	9,266.88	37.97	23.67	-103.44	-105.42	-254.90	1,376.06	1,319.69	56.37	24.411
9,700.00	9,594.72	9,340.67	9,298.45	38.28	23.72	-104.49	-131.03	-254.88	1,395.05	1,338.75	56.30	24.780
9,800.00	9,694.72	9,380.24	9,327.37	38.59	23.78	-105.58	-158.04	-254.86	1,418.60	1,362.45	56.15	25.264
9,900.00	9,794.72	9,415.02	9,351.18	38.90	23.84	-106.60	-183.38	-254.84	1,446.87	1,390.96	55.91	25.878
10,000.00	9,894.72	9,450.00	9,373.54	39.22	23.91	-107.66	-210.27	-254.82	1,479.92	1,424.30	55.62	26.609
10,100.00	9,994.72	9,472.56	9,387.08	39.53	23.96	-108.37	-228.32	-254.80	1,517.64	1,462.46	55.18	27.505
10,200.00	10,094.72	9,500.00	9,402.56	39.85	24.03	-109.25	-250.97	-254.78	1,559.93	1,505.19	54.74	28.495
10,300.00	10,194.72	9,517.57	9,411.91	40.16	24.08	-109.83	-265.85	-254.77	1,606.56	1,552.35	54.21	29.636
10,317.28	10,212.00	9,520.99	9,413.67	40.22	24.09	-109.94	-268.77	-254.77	1,615.04	1,560.92	54.12	29.842
10,350.00	10,244.70	9,527.57	9,417.02	40.31	24.11	68.17	-274.44	-254.76	1,631.14	1,577.20	53.94	30.237
10,400.00	10,294.43	9,550.00	9,427.93	40.46	24.18	64.97	-294.04	-254.75	1,655.49	1,601.71	53.78	30.781
10,450.00	10,343.54	9,550.00	9,427.93	40.59	24.18	62.58	-294.04	-254.75	1,678.98	1,625.57	53.40	31.439
10,500.00	10,391.64	9,550.00	9,427.93	40.72	24.18	60.32	-294.04	-254.75	1,701.85	1,648.83	53.02	32.097
10,550.00	10,438.37	9,574.32	9,438.88	40.84	24.26	57.72	-315.75	-254.73	1,723.46	1,670.59	52.88	32.594

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Verna Rae - 113H - OH - Prelim Plan A												Offset Well Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG				Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,600.00	10,483.39	9,600.00	9,449.44	40.94	24.35	55.35	-339.16	-254.71	1,744.13	1,691.39	52.74	33.071	
10,650.00	10,526.33	9,600.00	9,449.44	41.04	24.35	53.68	-339.16	-254.71	1,763.17	1,710.80	52.37	33.666	
10,700.00	10,566.89	9,600.00	9,449.44	41.13	24.35	52.15	-339.16	-254.71	1,781.03	1,729.01	52.02	34.239	
10,750.00	10,604.74	9,628.84	9,460.03	41.20	24.47	50.46	-365.98	-254.69	1,796.89	1,744.95	51.94	34.595	
10,800.00	10,639.61	9,650.00	9,466.94	41.27	24.56	49.10	-365.98	-254.67	1,811.24	1,759.44	51.80	34.964	
10,850.00	10,671.22	9,650.00	9,466.94	41.33	24.56	48.13	-365.98	-254.67	1,823.73	1,772.23	51.51	35.407	
10,900.00	10,699.33	9,672.74	9,473.53	41.39	24.66	47.16	-407.74	-254.65	1,834.24	1,782.80	51.43	35.663	
10,950.00	10,723.74	9,700.00	9,480.29	41.44	24.79	46.38	-434.14	-254.63	1,842.94	1,791.52	51.41	35.845	
11,000.00	10,744.25	9,700.00	9,480.29	41.49	24.79	45.91	-434.14	-254.63	1,849.33	1,798.12	51.21	36.111	
11,050.00	10,760.71	9,718.00	9,484.06	41.54	24.89	45.54	-451.75	-254.61	1,853.77	1,802.58	51.19	36.213	
11,100.00	10,773.00	9,733.24	9,486.82	41.60	24.97	45.36	-466.73	-254.60	1,856.09	1,804.91	51.18	36.264	
11,150.00	10,781.01	9,750.00	9,489.39	41.67	25.06	45.34	-483.29	-254.59	1,856.29	1,805.06	51.23	36.238	
11,200.00	10,784.70	9,750.00	9,489.39	41.75	25.06	45.47	-483.29	-254.59	1,854.52	1,803.32	51.20	36.219	
11,217.27	10,784.96	9,768.98	9,491.72	41.78	25.17	45.59	-502.13	-254.57	1,853.19	1,801.86	51.33	36.103	
11,300.00	10,784.96	9,800.00	9,494.18	41.95	25.35	45.64	-533.05	-254.55	1,848.34	1,796.76	51.57	35.839	
11,400.00	10,784.96	9,829.92	9,494.96	42.23	25.53	45.66	-562.95	-254.52	1,845.84	1,793.97	51.88	35.582	
11,439.93	10,784.96	9,853.69	9,494.96	42.36	25.69	45.66	-586.72	-254.50	1,845.77	1,793.69	52.09	35.437	
11,500.00	10,784.96	9,913.76	9,494.96	42.58	26.10	45.66	-646.79	-254.45	1,845.77	1,793.23	52.54	35.133	
11,600.00	10,784.96	10,013.76	9,494.96	42.99	26.85	45.66	-746.79	-254.37	1,845.77	1,792.38	53.39	34.569	
11,700.00	10,784.96	10,113.76	9,494.96	43.47	27.69	45.66	-846.79	-254.28	1,845.77	1,791.40	54.36	33.952	
11,800.00	10,784.96	10,213.76	9,494.96	44.02	28.59	45.66	-946.79	-254.20	1,845.76	1,790.32	55.44	33.292	
11,900.00	10,784.96	10,313.76	9,494.96	44.63	29.57	45.66	-1,046.79	-254.12	1,845.76	1,789.14	56.62	32.599	
12,000.00	10,784.97	10,413.76	9,494.96	45.30	30.60	45.66	-1,146.79	-254.03	1,845.76	1,787.87	57.89	31.882	
12,100.00	10,784.97	10,513.76	9,494.96	46.03	31.69	45.66	-1,246.79	-253.95	1,845.76	1,786.50	59.25	31.150	
12,200.00	10,784.97	10,613.76	9,494.97	46.80	32.83	45.66	-1,346.79	-253.87	1,845.76	1,785.06	60.70	30.409	
12,300.00	10,784.97	10,713.76	9,494.97	47.63	34.01	45.66	-1,446.79	-253.78	1,845.75	1,783.54	62.22	29.666	
12,400.00	10,784.97	10,813.76	9,494.97	48.50	35.23	45.66	-1,546.79	-253.70	1,845.75	1,781.94	63.81	28.927	
12,500.00	10,784.97	10,913.76	9,494.97	49.41	36.49	45.66	-1,646.79	-253.62	1,845.75	1,780.29	65.46	28.195	
12,600.00	10,784.97	11,013.76	9,494.97	50.36	37.78	45.66	-1,746.79	-253.53	1,845.75	1,778.57	67.18	27.475	
12,700.00	10,784.97	11,113.76	9,494.97	51.35	39.10	45.66	-1,846.79	-253.45	1,845.74	1,776.79	68.95	26.768	
12,800.00	10,784.97	11,213.76	9,494.97	52.38	40.44	45.66	-1,946.79	-253.36	1,845.74	1,774.96	70.78	26.078	
12,900.00	10,784.97	11,313.76	9,494.97	53.44	41.80	45.66	-2,046.79	-253.28	1,845.74	1,773.09	72.65	25.406	
13,000.00	10,784.98	11,413.76	9,494.97	54.52	43.19	45.66	-2,146.79	-253.20	1,845.74	1,771.17	74.57	24.752	
13,100.00	10,784.98	11,513.76	9,494.97	55.64	44.60	45.66	-2,246.79	-253.11	1,845.74	1,769.21	76.53	24.119	
13,200.00	10,784.98	11,613.76	9,494.98	56.79	46.02	45.66	-2,346.79	-253.03	1,845.73	1,767.21	78.52	23.505	
13,300.00	10,784.98	11,713.76	9,494.98	57.96	47.46	45.66	-2,446.79	-252.95	1,845.73	1,765.17	80.56	22.912	
13,400.00	10,784.98	11,813.76	9,494.98	59.15	48.92	45.66	-2,546.79	-252.86	1,845.73	1,763.11	82.82	22.340	
13,500.00	10,784.98	11,913.76	9,494.98	60.37	50.39	45.66	-2,646.79	-252.78	1,845.73	1,761.01	84.72	21.787	
13,600.00	10,784.98	12,013.76	9,494.98	61.61	51.87	45.66	-2,746.79	-252.70	1,845.72	1,758.88	86.84	21.254	
13,700.00	10,784.98	12,113.76	9,494.98	62.87	53.36	45.66	-2,846.79	-252.61	1,845.72	1,756.73	88.99	20.741	
13,800.00	10,784.98	12,213.76	9,494.98	64.15	54.86	45.66	-2,946.79	-252.53	1,845.72	1,754.55	91.16	20.246	
13,900.00	10,784.98	12,313.76	9,494.98	65.44	56.37	45.66	-3,046.79	-252.45	1,845.72	1,752.35	93.36	19.769	
14,000.00	10,784.98	12,413.76	9,494.98	66.75	57.89	45.66	-3,146.79	-252.36	1,845.71	1,750.13	95.58	19.311	
14,100.00	10,784.99	12,513.76	9,494.98	68.08	59.42	45.66	-3,246.79	-252.28	1,845.71	1,747.89	97.82	18.869	
14,200.00	10,784.99	12,613.76	9,494.99	69.42	60.95	45.66	-3,346.79	-252.19	1,845.71	1,745.63	100.08	18.443	
14,300.00	10,784.99	12,713.76	9,494.99	70.78	62.49	45.66	-3,446.79	-252.11	1,845.71	1,743.36	102.35	18.033	
14,400.00	10,784.99	12,813.76	9,494.99	72.15	64.04	45.66	-3,546.79	-252.03	1,845.71	1,741.06	104.64	17.638	
14,500.00	10,784.99	12,913.76	9,494.99	73.53	65.59	45.66	-3,646.79	-251.94	1,845.70	1,738.76	106.95	17.258	
14,600.00	10,784.99	13,013.76	9,494.99	74.92	67.15	45.66	-3,746.79	-251.86	1,845.70	1,736.43	109.27	16.892	
14,700.00	10,784.99	13,113.76	9,494.99	76.33	68.72	45.66	-3,846.79	-251.78	1,845.70	1,734.10	111.60	16.539	
14,800.00	10,784.99	13,213.76	9,494.99	77.74	70.28	45.66	-3,946.79	-251.69	1,845.70	1,731.75	113.95	16.198	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 113H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 8900-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance						Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.00	10,784.99	13,313.76	9,494.99	79.17	71.86	45.66	-4,046.79	-251.61	1,845.69	1,729.39	116.30	15.870	
15,000.00	10,784.99	13,413.76	9,494.99	80.60	73.44	45.66	-4,146.79	-251.53	1,845.69	1,727.02	118.67	15.553	
15,100.00	10,785.00	13,513.76	9,494.99	82.04	75.02	45.66	-4,246.79	-251.44	1,845.69	1,724.64	121.05	15.247	
15,200.00	10,785.00	13,613.76	9,495.00	83.49	76.60	45.66	-4,346.79	-251.36	1,845.69	1,722.25	123.44	14.952	
15,300.00	10,785.00	13,713.76	9,495.00	84.95	78.19	45.66	-4,446.79	-251.28	1,845.68	1,719.85	125.84	14.667	
15,400.00	10,785.00	13,813.76	9,495.00	86.42	79.78	45.66	-4,546.79	-251.19	1,845.68	1,717.44	128.24	14.392	
15,500.00	10,785.00	13,913.76	9,495.00	87.89	81.38	45.66	-4,646.79	-251.11	1,845.68	1,715.02	130.66	14.126	
15,600.00	10,785.00	14,013.76	9,495.00	89.37	82.97	45.66	-4,746.79	-251.02	1,845.68	1,712.60	133.08	13.869	
15,618.32	10,785.00	14,032.08	9,495.00	89.65	83.27	45.66	-4,765.12	-251.01	1,845.68	1,712.15	133.53	13.822	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 114H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis				Distance				Warning	
				Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	104.00	104.00	0.00	0.14	87.72	40.00	1,003.00	1,003.80	1,003.65	0.14	7,034.683	
200.00	200.00	204.00	204.00	0.18	0.50	87.72	40.00	1,003.00	1,003.80	1,003.12	0.68	1,475.739	
300.00	300.00	291.87	291.87	0.54	0.81	87.74	39.54	1,003.57	1,004.43	1,003.08	1.34	747.559	
400.00	400.00	380.17	380.14	0.90	1.11	87.82	38.22	1,005.20	1,006.21	1,004.21	2.01	500.987	
500.00	500.00	468.38	468.28	1.25	1.42	87.95	36.05	1,007.89	1,009.17	1,006.49	2.68	376.871	
600.00	600.00	556.47	556.24	1.61	1.74	88.13	33.04	1,011.63	1,013.29	1,009.94	3.35	302.433	
700.00	699.99	644.42	643.97	1.97	2.06	9.51	29.19	1,016.41	1,017.74	1,013.72	4.02	253.309	
800.00	799.96	736.63	735.86	2.31	2.41	9.81	24.31	1,022.46	1,021.58	1,016.88	4.70	217.390	
900.00	899.86	836.40	835.25	2.67	2.78	10.16	18.85	1,029.23	1,023.97	1,018.55	5.42	189.083	
1,000.00	999.68	936.17	934.64	3.03	3.16	10.53	13.39	1,035.99	1,024.69	1,018.55	6.14	166.992	
1,100.00	1,099.37	1,035.92	1,034.01	3.39	3.54	10.92	7.93	1,042.76	1,023.73	1,016.87	6.86	149.249	
1,200.00	1,198.90	1,139.19	1,136.89	3.76	3.93	11.35	2.32	1,049.72	1,021.07	1,013.47	7.60	134.370	
1,300.00	1,298.26	1,254.94	1,252.33	4.14	4.37	11.80	-2.96	1,056.27	1,015.66	1,007.27	8.39	121.110	
1,400.00	1,397.40	1,370.45	1,367.68	4.52	4.79	12.21	-6.76	1,060.99	1,007.00	997.83	9.17	109.836	
1,500.00	1,496.30	1,485.51	1,482.68	4.92	5.21	12.58	-9.10	1,063.89	995.09	985.15	9.94	100.077	
1,600.00	1,594.93	1,599.92	1,597.08	5.33	5.61	12.91	-9.99	1,064.99	979.96	969.25	10.71	91.493	
1,700.00	1,693.26	1,700.10	1,697.26	5.75	5.94	13.20	-10.00	1,065.00	962.20	950.79	11.41	84.343	
1,800.00	1,791.25	1,801.91	1,795.25	6.19	6.28	13.52	-10.00	1,065.00	942.78	930.67	12.12	77.815	
1,900.00	1,888.06	1,904.10	1,893.06	6.64	6.62	13.82	-10.00	1,065.00	922.55	909.73	12.83	71.915	
2,000.00	1,986.88	2,006.28	1,990.88	7.10	6.96	14.14	-10.00	1,065.00	902.35	888.81	13.54	66.622	
2,100.00	2,084.69	2,108.47	2,088.69	7.56	7.31	14.47	-10.00	1,065.00	882.18	867.92	14.26	61.844	
2,200.00	2,182.51	2,189.35	2,186.51	8.03	7.58	14.81	-10.00	1,065.00	862.04	847.12	14.92	57.794	
2,300.00	2,280.32	2,287.16	2,284.32	8.50	7.92	15.17	-10.00	1,065.00	841.92	826.30	15.63	53.872	
2,400.00	2,378.13	2,384.98	2,382.13	8.97	8.25	15.55	-10.00	1,065.00	821.84	805.50	16.34	50.285	
2,500.00	2,475.95	2,482.79	2,479.95	9.45	8.59	15.95	-10.00	1,065.00	801.80	784.74	17.06	46.993	
2,600.00	2,573.76	2,580.61	2,577.76	9.92	8.93	16.37	-10.00	1,065.00	781.80	764.01	17.78	43.962	
2,700.00	2,671.58	2,678.42	2,675.58	10.40	9.27	16.81	-10.00	1,065.00	761.84	743.33	18.51	41.164	
2,800.00	2,769.39	2,776.24	2,773.39	10.88	9.60	17.27	-10.00	1,065.00	741.92	722.69	19.23	38.573	
2,900.00	2,867.21	2,874.05	2,871.21	11.37	9.94	17.76	-10.00	1,065.00	722.05	702.09	19.96	36.168	
3,000.00	2,965.02	2,971.87	2,969.02	11.85	10.29	18.27	-10.00	1,065.00	702.24	681.55	20.70	33.931	
3,100.00	3,062.84	3,069.68	3,066.84	12.33	10.63	18.82	-10.00	1,065.00	682.49	661.06	21.43	31.845	
3,200.00	3,160.65	3,167.50	3,164.65	12.82	10.97	19.40	-10.00	1,065.00	662.79	640.63	22.17	29.897	
3,300.00	3,258.47	3,265.31	3,262.47	13.31	11.31	20.01	-10.00	1,065.00	643.17	620.26	22.91	28.073	
3,400.00	3,356.28	3,363.12	3,360.28	13.79	11.66	20.66	-10.00	1,065.00	623.63	599.97	23.66	26.362	
3,500.00	3,454.10	3,460.94	3,458.10	14.28	12.00	21.36	-10.00	1,065.00	604.16	579.76	24.40	24.756	
3,600.00	3,551.91	3,558.75	3,555.91	14.77	12.34	22.10	-10.00	1,065.00	584.79	559.63	25.16	23.245	
3,700.00	3,649.73	3,656.57	3,653.73	15.26	12.69	22.89	-10.00	1,065.00	565.52	539.61	25.91	21.822	
3,800.00	3,747.54	3,754.38	3,751.54	15.75	13.03	23.73	-10.00	1,065.00	546.36	519.68	26.68	20.480	
3,900.00	3,845.36	3,852.20	3,849.36	16.24	13.38	24.64	-10.00	1,065.00	527.32	499.88	27.45	19.213	
4,000.00	3,943.17	3,950.01	3,947.17	16.73	13.72	25.61	-10.00	1,065.00	508.43	480.21	28.22	18.016	
4,100.00	4,040.99	4,047.83	4,044.99	17.22	14.07	26.66	-10.00	1,065.00	489.68	460.68	29.00	16.884	
4,200.00	4,138.80	4,145.64	4,142.80	17.71	14.41	27.79	-10.00	1,065.00	471.11	441.32	29.79	15.813	
4,300.00	4,236.62	4,243.46	4,240.62	18.20	14.76	29.01	-10.00	1,065.00	452.73	422.14	30.59	14.799	
4,400.00	4,334.43	4,341.27	4,338.43	18.69	15.11	30.33	-10.00	1,065.00	434.56	403.16	31.40	13.839	
4,500.00	4,432.24	4,439.09	4,436.24	19.19	15.45	31.77	-10.00	1,065.00	416.65	384.42	32.22	12.929	
4,600.00	4,530.06	4,536.90	4,534.06	19.68	15.80	33.33	-10.00	1,065.00	399.01	365.95	33.06	12.069	
4,700.00	4,627.87	4,634.72	4,631.87	20.17	16.15	35.03	-10.00	1,065.00	381.69	347.77	33.91	11.255	
4,800.00	4,725.69	4,732.53	4,729.69	20.66	16.49	36.89	-10.00	1,065.00	364.73	329.95	34.78	10.485	
4,900.00	4,823.50	4,830.35	4,827.50	21.16	16.84	38.93	-10.00	1,065.00	348.19	312.51	35.68	9.760	
5,000.00	4,921.32	4,928.16	4,925.32	21.65	17.19	41.16	-10.00	1,065.00	332.12	295.53	36.59	9.077	
5,100.00	5,019.13	5,025.98	5,023.13	22.14	17.54	43.61	-10.00	1,065.00	316.61	279.08	37.53	8.436	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 114H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG		Distance										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis				Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,116.95	5,123.79	5,120.95	22.64	17.88	46.30	-10.00	1,065.00	301.73	263.23	38.50	7.837		
5,300.00	5,214.76	5,221.61	5,218.76	23.13	18.23	49.26	-10.00	1,065.00	287.59	248.09	39.50	7.281		
5,400.00	5,312.58	5,319.42	5,316.58	23.63	18.58	52.51	-10.00	1,065.00	274.29	233.77	40.53	6.769		
5,500.00	5,410.39	5,417.23	5,414.39	24.12	18.93	56.07	-10.00	1,065.00	261.98	220.40	41.58	6.300		
5,600.00	5,508.21	5,515.05	5,512.21	24.61	19.27	59.95	-10.00	1,065.00	250.78	208.12	42.66	5.879		
5,700.00	5,606.02	5,612.86	5,610.02	25.11	19.62	64.16	-10.00	1,065.00	240.86	197.10	43.75	5.505		
5,800.00	5,703.84	5,710.68	5,707.84	25.60	19.97	68.69	-10.00	1,065.00	232.38	187.53	44.85	5.181		
5,816.59	5,720.07	5,726.91	5,724.07	25.88	20.03	69.47	-10.00	1,065.00	231.12	186.09	45.03	5.132		
5,900.00	5,801.77	5,808.62	5,805.77	26.09	20.32	73.33	-10.00	1,065.00	225.68	179.75	45.93	4.914		
6,000.00	5,900.05	5,906.89	5,904.05	26.56	20.67	77.81	-10.00	1,065.00	220.98	174.05	46.93	4.708		
6,100.00	5,998.63	6,005.47	6,002.63	27.01	21.02	82.03	-10.00	1,065.00	218.00	170.13	47.87	4.554		
6,200.00	6,097.48	6,104.32	6,101.48	27.44	21.37	85.93	-10.00	1,065.00	216.40	167.66	48.74	4.440		
6,300.00	6,196.59	6,203.43	6,200.59	27.86	21.73	89.42	-10.00	1,065.00	215.86	166.30	49.55	4.356		
6,317.80	6,214.25	6,221.09	6,218.25	27.93	21.79	90.00	-10.00	1,065.00	215.84	166.16	49.69	4.344 CC		
6,400.00	6,295.91	6,302.75	6,299.91	28.25	22.08	92.48	-10.00	1,065.00	216.05	165.74	50.31	4.294		
6,500.00	6,395.42	6,402.26	6,399.42	28.63	22.43	95.09	-10.00	1,065.00	216.70	165.68	51.03	4.247		
6,600.00	6,495.09	6,501.93	6,499.09	28.99	22.79	97.22	-10.00	1,065.00	217.58	165.86	51.72	4.207		
6,700.00	6,594.88	6,601.72	6,598.88	29.33	23.15	98.89	-10.00	1,065.00	218.48	166.09	52.39	4.170		
6,800.00	6,694.77	6,701.61	6,698.77	29.66	23.50	100.10	-10.00	1,065.00	219.24	166.20	53.05	4.133		
6,900.00	6,794.73	6,801.57	6,798.73	29.97	23.86	100.85	-10.00	1,065.00	219.77	166.08	53.70	4.093		
7,000.00	6,894.72	6,901.56	6,898.72	30.26	24.22	101.15	-10.00	1,065.00	220.00	165.65	54.34	4.048		
7,016.59	6,911.31	6,918.16	6,915.31	30.31	24.27	180.00	-10.00	1,065.00	220.00	165.55	54.45	4.041		
7,100.00	6,994.72	7,001.56	6,998.72	30.54	24.57	180.00	-10.00	1,065.00	220.00	165.02	54.98	4.001		
7,200.00	7,094.72	7,101.56	7,098.72	30.82	24.93	180.00	-10.00	1,065.00	220.00	164.38	55.62	3.955		
7,300.00	7,194.72	7,201.56	7,198.72	31.11	25.29	180.00	-10.00	1,065.00	220.00	163.74	56.26	3.910		
7,400.00	7,294.72	7,301.56	7,298.72	31.39	25.64	180.00	-10.00	1,065.00	220.00	163.10	56.90	3.866		
7,500.00	7,394.72	7,401.56	7,398.72	31.68	26.00	180.00	-10.00	1,065.00	220.00	162.45	57.55	3.823		
7,600.00	7,494.72	7,501.56	7,498.72	31.96	26.36	180.00	-10.00	1,065.00	220.00	161.81	58.19	3.780		
7,700.00	7,594.72	7,601.56	7,598.72	32.25	26.71	180.00	-10.00	1,065.00	220.00	161.16	58.84	3.739		
7,800.00	7,694.72	7,701.56	7,698.72	32.54	27.07	180.00	-10.00	1,065.00	220.00	160.51	59.49	3.698		
7,900.00	7,794.72	7,801.56	7,798.72	32.83	27.43	180.00	-10.00	1,065.00	220.00	159.86	60.14	3.658		
8,000.00	7,894.72	7,901.56	7,898.72	33.13	27.79	180.00	-10.00	1,065.00	220.00	159.21	60.79	3.619		
8,100.00	7,994.72	8,001.56	7,998.72	33.42	28.14	180.00	-10.00	1,065.00	220.00	158.56	61.44	3.580		
8,200.00	8,094.72	8,101.56	8,098.72	33.72	28.50	180.00	-10.00	1,065.00	220.00	157.90	62.10	3.543		
8,300.00	8,194.72	8,201.56	8,198.72	34.01	28.86	180.00	-10.00	1,065.00	220.00	157.25	62.75	3.506		
8,400.00	8,294.72	8,301.56	8,298.72	34.31	29.21	180.00	-10.00	1,065.00	220.00	156.59	63.41	3.470		
8,500.00	8,394.72	8,401.56	8,398.72	34.61	29.57	180.00	-10.00	1,065.00	220.00	155.93	64.07	3.434		
8,600.00	8,494.72	8,501.56	8,498.72	34.91	29.93	180.00	-10.00	1,065.00	220.00	155.27	64.73	3.399		
8,700.00	8,594.72	8,601.56	8,598.72	35.21	30.29	180.00	-10.00	1,065.00	220.00	154.61	65.39	3.365		
8,800.00	8,694.72	8,701.56	8,698.72	35.52	30.64	180.00	-10.00	1,065.00	220.00	153.95	66.05	3.331		
8,900.00	8,794.72	8,801.56	8,798.72	35.82	31.00	180.00	-10.00	1,065.00	220.00	153.29	66.71	3.298		
9,000.00	8,894.72	8,901.56	8,898.72	36.12	31.36	180.00	-10.00	1,065.00	220.00	152.63	67.37	3.266 ES, SF		
9,100.00	8,994.72	8,978.68	8,975.74	36.43	31.62	180.00	-13.02	1,065.00	224.20	156.59	67.61	3.316		
9,200.00	9,094.72	9,050.00	9,046.04	36.73	31.86	180.00	-24.72	1,065.01	240.56	173.46	67.10	3.585		
9,300.00	9,194.72	9,115.43	9,108.81	37.04	32.07	179.99	-43.06	1,065.03	268.56	202.74	65.82	4.080		
9,400.00	9,294.72	9,176.90	9,165.52	37.35	32.26	179.99	-66.70	1,065.05	307.09	242.97	64.13	4.789		
9,500.00	9,394.72	9,232.63	9,214.48	37.66	32.44	179.99	-93.28	1,065.07	354.85	292.67	62.18	5.707		
9,600.00	9,494.72	9,282.48	9,255.91	37.97	32.60	179.98	-120.98	1,065.09	410.50	350.34	60.15	6.624		
9,700.00	9,594.72	9,326.71	9,290.52	38.28	32.75	179.98	-148.49	1,065.12	472.76	414.59	58.17	8.127		
9,800.00	9,694.72	9,365.75	9,319.24	38.59	32.88	179.98	-174.93	1,065.14	540.54	484.23	56.31	9.600		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 114H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG		Distance										Offset Wall Error:	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toeface (")							
9,900.00	9,794.72	9,400.00	9,342.90	38.90	33.00	179.98	-199.69	1,065.16	612.88	558.28	54.61	11.224	
10,000.00	9,894.72	9,430.56	9,362.72	39.22	33.10	179.98	-222.94	1,065.18	689.01	635.90	53.11	12.974	
10,100.00	9,994.72	9,450.00	9,374.68	39.53	33.17	179.98	-238.27	1,065.19	768.36	716.93	51.43	14.940	
10,200.00	10,094.72	9,481.22	9,392.77	39.85	33.29	179.97	-263.71	1,065.21	850.15	799.50	50.65	16.785	
10,300.00	10,194.72	9,500.00	9,402.98	40.16	33.36	179.97	-279.47	1,065.23	934.23	884.65	49.58	18.843	
10,317.28	10,212.00	9,500.00	9,402.98	40.22	33.36	179.97	-279.47	1,065.23	948.99	899.70	49.30	19.251	
10,350.00	10,244.70	9,500.00	9,402.98	40.31	33.36	0.02	-279.47	1,065.23	976.69	927.93	48.76	20.032	
10,400.00	10,294.43	9,523.14	9,414.84	40.46	33.44	0.02	-299.34	1,065.24	1,016.92	968.19	48.73	20.867	
10,450.00	10,343.54	9,534.55	9,420.39	40.59	33.49	0.01	-309.31	1,065.25	1,055.29	1,007.08	48.21	21.889	
10,500.00	10,391.64	9,550.00	9,427.58	40.72	33.55	0.01	-322.98	1,065.26	1,091.44	1,043.67	47.77	22.846	
10,550.00	10,438.37	9,550.00	9,427.58	40.84	33.55	0.01	-322.98	1,065.26	1,125.32	1,078.52	46.80	24.044	
10,600.00	10,483.39	9,572.15	9,437.25	40.94	33.64	0.01	-342.91	1,065.28	1,156.54	1,110.04	46.50	24.872	
10,650.00	10,526.33	9,600.00	9,448.30	41.04	33.75	0.01	-368.47	1,065.30	1,185.58	1,139.26	46.32	25.595	
10,700.00	10,566.89	9,600.00	9,448.30	41.13	33.75	0.01	-368.47	1,065.30	1,211.42	1,166.10	45.32	26.728	
10,750.00	10,604.74	9,600.00	9,448.30	41.20	33.75	0.01	-368.47	1,065.30	1,235.03	1,190.66	44.37	27.837	
10,800.00	10,639.61	9,627.82	9,458.08	41.27	33.86	0.01	-394.51	1,065.32	1,255.37	1,211.25	44.12	28.451	
10,850.00	10,671.22	9,650.00	9,464.97	41.33	33.96	0.01	-415.59	1,065.34	1,273.16	1,229.43	43.73	29.113	
10,900.00	10,699.33	9,650.00	9,464.97	41.39	33.96	0.01	-415.59	1,065.34	1,287.95	1,245.09	42.86	30.050	
10,950.00	10,723.74	9,672.06	9,471.00	41.44	34.05	0.01	-436.81	1,065.36	1,299.73	1,257.23	42.50	30.583	
11,000.00	10,744.25	9,700.00	9,477.47	41.49	34.17	0.01	-463.99	1,065.38	1,308.79	1,266.53	42.26	30.969	
11,050.00	10,760.71	9,700.00	9,477.47	41.54	34.17	0.01	-463.99	1,065.38	1,314.43	1,272.87	41.56	31.630	
11,100.00	10,773.00	9,717.31	9,480.81	41.60	34.25	0.01	-480.97	1,065.40	1,317.23	1,276.01	41.21	31.962	
11,150.00	10,781.01	9,732.46	9,483.31	41.67	34.32	0.01	-495.91	1,065.41	1,316.99	1,276.10	40.89	32.209	
11,200.00	10,784.70	9,750.00	9,485.71	41.75	34.40	0.01	-513.29	1,065.42	1,313.73	1,273.07	40.66	32.314	
11,217.27	10,784.96	9,750.00	9,485.71	41.78	34.40	0.01	-513.29	1,065.42	1,311.89	1,271.37	40.52	32.373	
11,300.00	10,784.96	9,777.90	9,488.42	41.95	34.53	0.01	-541.05	1,065.45	1,304.03	1,263.71	40.31	32.346	
11,400.00	10,784.96	9,808.43	9,489.84	42.23	34.67	0.01	-571.55	1,065.47	1,299.37	1,259.06	40.31	32.231	
11,500.00	10,784.96	9,882.58	9,489.96	42.58	35.04	0.01	-645.69	1,065.53	1,299.00	1,258.34	40.66	31.949	
11,503.64	10,784.96	9,886.22	9,489.96	42.59	35.06	0.01	-649.33	1,065.54	1,299.00	1,258.33	40.67	31.937	
11,600.00	10,784.96	9,982.58	9,489.96	42.99	35.59	0.01	-745.69	1,065.62	1,299.00	1,257.88	41.12	31.591	
11,700.00	10,784.96	10,082.58	9,489.96	43.47	36.21	0.01	-845.69	1,065.70	1,299.00	1,257.37	41.64	31.199	
11,800.00	10,784.96	10,182.58	9,489.96	44.02	36.90	0.01	-945.69	1,065.79	1,299.00	1,256.80	42.20	30.778	
11,900.00	10,784.96	10,282.58	9,489.96	44.63	37.65	0.01	-1,045.69	1,065.87	1,299.00	1,256.18	42.83	30.333	
12,000.00	10,784.97	10,382.58	9,489.96	45.30	38.45	0.01	-1,145.69	1,065.96	1,299.00	1,255.51	43.49	29.866	
12,100.00	10,784.97	10,482.58	9,489.96	46.03	39.31	0.01	-1,245.69	1,066.04	1,299.00	1,254.79	44.21	29.383	
12,200.00	10,784.97	10,582.58	9,489.97	46.80	40.22	0.01	-1,345.69	1,066.12	1,299.00	1,254.03	44.97	28.887	
12,300.00	10,784.97	10,682.58	9,489.97	47.63	41.18	0.01	-1,445.69	1,066.21	1,299.00	1,253.23	45.77	28.381	
12,400.00	10,784.97	10,782.58	9,489.97	48.50	42.18	0.01	-1,545.69	1,066.29	1,299.00	1,252.39	46.61	27.869	
12,500.00	10,784.97	10,882.58	9,489.97	49.41	43.22	0.01	-1,645.69	1,066.38	1,299.00	1,251.51	47.49	27.354	
12,600.00	10,784.97	10,982.58	9,489.97	50.36	44.30	0.00	-1,745.69	1,066.46	1,299.00	1,250.60	48.40	26.837	
12,700.00	10,784.97	11,082.58	9,489.97	51.35	45.42	0.00	-1,845.69	1,066.54	1,299.00	1,249.65	49.35	26.322	
12,800.00	10,784.97	11,182.58	9,489.97	52.38	46.57	0.00	-1,945.69	1,066.63	1,299.00	1,248.67	50.33	25.810	
12,900.00	10,784.97	11,282.58	9,489.97	53.44	47.75	0.00	-2,045.69	1,066.71	1,299.00	1,247.66	51.34	25.303	
13,000.00	10,784.98	11,382.58	9,489.97	54.52	48.96	0.00	-2,145.69	1,066.80	1,299.00	1,246.63	52.38	24.802	
13,100.00	10,784.98	11,482.58	9,489.97	55.64	50.19	0.00	-2,245.69	1,066.88	1,299.00	1,245.56	53.44	24.309	
13,200.00	10,784.98	11,582.58	9,489.98	56.79	51.45	0.00	-2,345.69	1,066.97	1,299.00	1,244.48	54.53	23.824	
13,300.00	10,784.98	11,682.58	9,489.98	57.96	52.73	0.00	-2,445.69	1,067.05	1,299.00	1,243.37	55.64	23.348	
13,400.00	10,784.98	11,782.58	9,489.98	59.15	54.04	0.00	-2,545.69	1,067.13	1,299.00	1,242.23	56.77	22.882	
13,500.00	10,784.98	11,882.58	9,489.98	60.37	55.36	0.00	-2,645.69	1,067.22	1,299.00	1,241.08	57.92	22.427	
13,600.00	10,784.98	11,982.58	9,489.98	61.61	56.70	0.00	-2,745.69	1,067.30	1,299.00	1,239.91	59.09	21.982	
13,700.00	10,784.98	12,082.58	9,489.98	62.87	58.06	0.00	-2,845.69	1,067.39	1,299.00	1,238.72	60.28	21.548	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 114H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning	
		Reference	Offset	Reference	Offset	Hightside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	10,784.98	12,182.58	9,489.98	64.15	59.43	0.00	-2,945.69	1,067.47	1,299.00	1,237.51	61.49	21.125	
13,900.00	10,784.98	12,282.58	9,489.98	65.44	60.82	0.00	-3,045.69	1,067.55	1,299.00	1,236.29	62.72	20.713	
14,000.00	10,784.98	12,382.58	9,489.98	66.75	62.22	0.00	-3,145.69	1,067.64	1,299.00	1,235.05	63.95	20.312	
14,100.00	10,784.99	12,482.58	9,489.98	68.08	63.64	0.00	-3,245.69	1,067.72	1,299.00	1,233.79	65.21	19.921	
14,200.00	10,784.99	12,582.58	9,489.99	69.42	65.06	0.00	-3,345.69	1,067.81	1,299.00	1,232.53	66.47	19.542	
14,300.00	10,784.99	12,682.58	9,489.99	70.78	66.50	0.00	-3,445.69	1,067.89	1,299.00	1,231.25	67.75	19.173	
14,400.00	10,784.99	12,782.58	9,489.99	72.15	67.95	0.00	-3,545.69	1,067.97	1,299.00	1,229.96	69.04	18.814	
14,500.00	10,784.99	12,882.58	9,489.99	73.53	69.41	0.00	-3,645.69	1,068.06	1,299.00	1,228.65	70.35	18.466	
14,600.00	10,784.99	12,982.58	9,489.99	74.92	70.88	0.00	-3,745.69	1,068.14	1,299.00	1,227.34	71.66	18.127	
14,700.00	10,784.99	13,082.58	9,489.99	76.33	72.35	0.00	-3,845.69	1,068.23	1,299.00	1,226.02	72.98	17.799	
14,800.00	10,784.99	13,182.58	9,489.99	77.74	73.84	0.00	-3,945.69	1,068.31	1,299.00	1,224.69	74.32	17.480	
14,900.00	10,784.99	13,282.58	9,489.99	79.17	75.33	0.00	-4,045.69	1,068.40	1,299.00	1,223.34	75.66	17.170	
15,000.00	10,784.99	13,382.58	9,489.99	80.60	76.83	0.00	-4,145.69	1,068.48	1,299.00	1,221.99	77.01	16.868	
15,100.00	10,785.00	13,482.58	9,489.99	82.04	78.33	0.00	-4,245.69	1,068.56	1,299.00	1,220.63	78.37	16.576	
15,200.00	10,785.00	13,582.58	9,490.00	83.49	79.85	0.00	-4,345.69	1,068.65	1,299.00	1,219.27	79.73	16.292	
15,300.00	10,785.00	13,682.58	9,490.00	84.95	81.37	0.00	-4,445.69	1,068.73	1,299.00	1,217.89	81.11	16.016	
15,400.00	10,785.00	13,782.58	9,490.00	86.42	82.89	0.00	-4,545.69	1,068.82	1,299.00	1,216.51	82.49	15.748	
15,500.00	10,785.00	13,882.58	9,490.00	87.89	84.42	0.00	-4,645.69	1,068.90	1,299.00	1,215.13	83.87	15.487	
15,600.00	10,785.00	13,982.58	9,490.00	89.37	85.95	0.00	-4,745.69	1,068.98	1,299.00	1,213.73	85.27	15.234	
15,618.32	10,785.00	14,000.90	9,490.00	89.65	86.24	0.00	-4,764.01	1,069.00	1,299.00	1,213.48	85.52	15.189	

Pro Directional
Anticollision Report

Company:	Malador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design											Offset Site Error:	0.00 usft	
Verna Rae - 123H - OH - Prelim Plan A											Offset Well Error:	0.00 usft	
Survey Program:		0-MWD - OWSG, 3000-MWD - OWSG, 9700-MWD - OWSG									Distance		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
100.00	100.00	100.00	100.00	0.00	0.13	-71.57	30.00	-90.00	94.87	94.74	0.13	739.116	
200.00	200.00	200.00	200.00	0.18	0.49	-71.57	30.00	-90.00	94.87	94.20	0.67	142.475	
300.00	300.00	300.00	300.00	0.54	0.85	-71.57	30.00	-90.00	94.87	93.49	1.38	68.606	
400.00	400.00	400.00	400.00	0.90	1.20	-71.57	30.00	-90.00	94.87	92.77	2.10	45.181	
500.00	500.00	500.00	500.00	1.25	1.56	-71.57	30.00	-90.00	94.87	92.05	2.82	33.681	
600.00	600.00	600.00	600.00	1.61	1.92	-71.57	30.00	-90.00	94.87	91.33	3.53	26.847 CC, ES	
700.00	699.99	698.36	698.35	1.97	2.27	-150.59	30.37	-90.76	96.48	92.25	4.23	22.789	
800.00	799.96	796.56	796.52	2.31	2.61	-151.09	31.47	-93.03	101.31	96.39	4.93	20.562	
900.00	899.86	894.44	894.31	2.67	2.96	-151.83	33.30	-96.81	109.38	103.75	5.62	19.449	
1,000.00	999.68	991.86	991.55	3.03	3.31	-152.69	35.84	-102.05	120.67	114.35	6.32	19.092	
1,100.00	1,099.37	1,088.65	1,088.05	3.39	3.66	-153.57	39.09	-108.74	135.19	128.18	7.02	19.271	
1,200.00	1,198.90	1,186.88	1,185.91	3.76	4.02	-154.49	42.82	-116.43	152.30	144.58	7.72	19.725	
1,300.00	1,298.26	1,285.07	1,283.73	4.14	4.39	-155.45	46.55	-124.13	171.01	162.58	8.43	20.288	
1,400.00	1,397.40	1,382.92	1,381.21	4.52	4.75	-156.42	50.27	-131.81	191.33	182.19	9.14	20.935	
1,500.00	1,496.30	1,480.42	1,478.34	4.92	5.12	-157.36	53.98	-139.45	213.28	203.43	9.85	21.653	
1,600.00	1,594.93	1,577.52	1,575.07	5.33	5.48	-158.27	57.67	-147.07	236.86	226.30	10.56	22.426	
1,700.00	1,693.26	1,674.21	1,671.39	5.75	5.84	-159.14	61.35	-154.65	262.08	250.80	11.27	23.246	
1,800.00	1,791.25	1,770.44	1,767.25	6.19	6.21	-159.96	65.00	-162.20	288.94	276.95	11.99	24.104	
1,900.00	1,889.06	1,866.43	1,862.88	6.64	6.57	-160.77	68.65	-169.73	316.65	303.95	12.70	24.934	
2,000.00	1,986.88	1,962.43	1,958.51	7.10	6.93	-161.45	72.30	-177.25	344.40	330.99	13.41	25.680	
2,100.00	2,084.69	2,058.42	2,054.14	7.56	7.30	-162.04	75.95	-184.78	372.20	358.07	14.13	26.350	
2,200.00	2,182.51	2,154.42	2,149.77	8.03	7.66	-162.54	79.60	-192.31	400.03	385.19	14.84	26.954	
2,300.00	2,280.32	2,250.41	2,245.40	8.50	8.03	-162.97	83.26	-199.84	427.88	412.32	15.56	27.502	
2,400.00	2,378.13	2,346.41	2,341.03	8.97	8.39	-163.35	86.91	-207.37	455.75	439.47	16.28	28.002	
2,500.00	2,475.95	2,442.41	2,436.66	9.45	8.76	-163.69	90.56	-214.90	483.64	466.64	16.99	28.458	
2,600.00	2,573.76	2,538.40	2,532.29	9.92	9.12	-163.99	94.21	-222.42	511.54	493.82	17.71	28.877	
2,700.00	2,671.58	2,634.40	2,627.92	10.40	9.49	-164.26	97.86	-229.95	539.45	521.02	18.43	29.263	
2,800.00	2,769.39	2,733.10	2,726.26	10.88	9.86	-164.52	101.58	-237.62	567.31	548.14	19.17	29.588	
2,900.00	2,867.21	2,839.43	2,832.30	11.37	10.26	-164.82	104.95	-244.59	593.96	574.00	19.96	29.757	
3,000.00	2,965.02	2,946.69	2,939.41	11.85	10.66	-165.16	107.49	-249.82	618.96	598.21	20.75	29.835	
3,100.00	3,062.84	3,054.83	3,047.48	12.33	10.95	-165.56	109.16	-253.26	642.29	620.86	21.43	29.967	
3,200.00	3,160.65	3,163.78	3,156.41	12.82	11.04	-165.99	109.94	-254.88	663.96	642.04	21.92	30.296	
3,300.00	3,258.47	3,265.84	3,258.47	13.31	11.06	-166.43	110.00	-255.00	684.29	661.97	22.32	30.662	
3,400.00	3,356.28	3,363.65	3,356.28	13.79	11.09	-166.82	110.00	-255.00	704.54	681.81	22.73	31.003	
3,500.00	3,454.10	3,461.47	3,454.10	14.28	11.13	-167.20	110.00	-255.00	724.82	701.68	23.14	31.317	
3,600.00	3,551.91	3,559.28	3,551.91	14.77	11.19	-167.55	110.00	-255.00	745.13	721.56	23.57	31.607	
3,700.00	3,649.73	3,657.10	3,649.73	15.26	11.25	-167.89	110.00	-255.00	765.47	741.45	24.02	31.873	
3,800.00	3,747.54	3,754.91	3,747.54	15.75	11.32	-168.21	110.00	-255.00	785.83	761.36	24.47	32.116	
3,900.00	3,845.36	3,852.73	3,845.36	16.24	11.40	-168.51	110.00	-255.00	806.21	781.28	24.93	32.338	
4,000.00	3,943.17	3,950.54	3,943.17	16.73	11.50	-168.79	110.00	-255.00	826.61	801.20	25.40	32.538	
4,100.00	4,040.99	4,048.36	4,040.99	17.22	11.60	-169.07	110.00	-255.00	847.03	821.14	25.89	32.720	
4,200.00	4,138.80	4,146.17	4,138.80	17.71	11.71	-169.33	110.00	-255.00	867.47	841.09	26.38	32.883	
4,300.00	4,236.62	4,243.99	4,236.62	18.20	11.83	-169.58	110.00	-255.00	887.92	861.04	26.88	33.029	
4,400.00	4,334.43	4,341.80	4,334.43	18.69	11.97	-169.81	110.00	-255.00	908.39	881.00	27.40	33.159	
4,500.00	4,432.24	4,439.62	4,432.24	19.19	12.10	-170.04	110.00	-255.00	928.88	900.96	27.92	33.274	
4,600.00	4,530.06	4,537.43	4,530.06	19.68	12.25	-170.26	110.00	-255.00	949.37	920.93	28.45	33.375	
4,700.00	4,627.87	4,635.25	4,627.87	20.17	12.41	-170.46	110.00	-255.00	969.88	940.90	28.98	33.463	
4,800.00	4,725.69	4,733.06	4,725.69	20.66	12.57	-170.66	110.00	-255.00	990.41	960.88	29.53	33.540	
4,900.00	4,823.50	4,830.87	4,823.50	21.16	12.74	-170.85	110.00	-255.00	1,010.94	980.86	30.08	33.605	
5,000.00	4,921.32	4,928.69	4,921.32	21.65	12.92	-171.04	110.00	-255.00	1,031.48	1,000.84	30.64	33.660	
5,100.00	5,019.13	5,026.50	5,019.13	22.14	13.11	-171.21	110.00	-255.00	1,052.04	1,020.82	31.21	33.706	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 123H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 9700-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,116.95	5,124.32	5,116.95	22.64	13.30	-171.38	110.00	-255.00	1,072.60	1,040.81	31.79	33.744	
5,300.00	5,214.76	5,222.13	5,214.76	23.13	13.50	-171.55	110.00	-255.00	1,093.17	1,060.80	32.37	33.774	
5,400.00	5,312.58	5,319.95	5,312.58	23.63	13.71	-171.70	110.00	-255.00	1,113.75	1,080.79	32.95	33.796	
5,500.00	5,410.39	5,417.76	5,410.39	24.12	13.92	-171.86	110.00	-255.00	1,134.33	1,100.79	33.55	33.812	
5,600.00	5,508.21	5,515.58	5,508.21	24.61	14.13	-172.00	110.00	-255.00	1,154.93	1,120.78	34.15	33.822	
5,700.00	5,606.02	5,613.39	5,606.02	25.11	14.35	-172.14	110.00	-255.00	1,175.53	1,140.78	34.75	33.827	
5,800.00	5,703.84	5,711.21	5,703.84	25.60	14.58	-172.28	110.00	-255.00	1,196.14	1,160.78	35.36	33.827	
5,816.59	5,720.07	5,727.44	5,720.07	25.68	14.62	-172.30	110.00	-255.00	1,199.56	1,164.09	35.46	33.826	
5,900.00	5,801.77	5,809.15	5,801.77	26.09	14.81	-172.43	110.00	-255.00	1,216.16	1,180.19	35.97	33.807	
6,000.00	5,900.05	5,907.42	5,900.05	26.56	15.05	-172.57	110.00	-255.00	1,234.52	1,197.93	36.59	33.740	
6,100.00	5,998.63	6,006.00	5,998.63	27.01	15.29	-172.69	110.00	-255.00	1,251.17	1,213.96	37.21	33.627	
6,200.00	6,097.48	6,104.85	6,097.48	27.44	15.54	-172.79	110.00	-255.00	1,266.12	1,228.29	37.83	33.472	
6,300.00	6,196.59	6,203.96	6,196.59	27.86	15.79	-172.88	110.00	-255.00	1,279.36	1,240.91	38.45	33.275	
6,400.00	6,295.91	6,303.28	6,295.91	28.25	16.05	-172.96	110.00	-255.00	1,290.88	1,251.81	39.07	33.040	
6,500.00	6,395.42	6,402.79	6,395.42	28.63	16.31	-173.03	110.00	-255.00	1,300.68	1,260.98	39.69	32.769	
6,600.00	6,495.09	6,502.46	6,495.09	28.99	16.57	-173.08	110.00	-255.00	1,308.75	1,268.44	40.32	32.463	
6,700.00	6,594.88	6,602.25	6,594.88	29.33	16.84	-173.12	110.00	-255.00	1,315.10	1,274.16	40.94	32.125	
6,800.00	6,694.77	6,702.14	6,694.77	29.66	17.11	-173.15	110.00	-255.00	1,319.72	1,278.16	41.56	31.755	
6,900.00	6,794.73	6,802.10	6,794.73	29.97	17.39	-173.17	110.00	-255.00	1,322.60	1,280.42	42.18	31.356	
7,000.00	6,894.72	6,902.09	6,894.72	30.26	17.67	-173.18	110.00	-255.00	1,323.76	1,280.96	42.80	30.929	
7,016.59	6,911.31	6,918.69	6,911.31	30.31	17.72	-94.33	110.00	-255.00	1,323.78	1,280.88	42.90	30.856	
7,100.00	6,994.72	7,002.09	6,994.72	30.54	17.95	-94.33	110.00	-255.00	1,323.78	1,280.37	43.41	30.495	
7,200.00	7,094.72	7,102.09	7,094.72	30.82	18.23	-94.33	110.00	-255.00	1,323.78	1,279.76	44.02	30.071	
7,300.00	7,194.72	7,202.09	7,194.72	31.11	18.52	-94.33	110.00	-255.00	1,323.78	1,279.14	44.64	29.656	
7,400.00	7,294.72	7,302.09	7,294.72	31.39	18.81	-94.33	110.00	-255.00	1,323.78	1,278.53	45.26	29.251	
7,500.00	7,394.72	7,402.09	7,394.72	31.68	19.10	-94.33	110.00	-255.00	1,323.78	1,277.90	45.88	28.854	
7,600.00	7,494.72	7,502.09	7,494.72	31.96	19.40	-94.33	110.00	-255.00	1,323.78	1,277.28	46.50	28.467	
7,700.00	7,594.72	7,602.09	7,594.72	32.25	19.69	-94.33	110.00	-255.00	1,323.78	1,276.65	47.13	28.087	
7,800.00	7,694.72	7,702.09	7,694.72	32.54	19.99	-94.33	110.00	-255.00	1,323.78	1,276.02	47.76	27.717	
7,900.00	7,794.72	7,802.09	7,794.72	32.83	20.29	-94.33	110.00	-255.00	1,323.78	1,275.39	48.39	27.354	
8,000.00	7,894.72	7,902.09	7,894.72	33.13	20.59	-94.33	110.00	-255.00	1,323.78	1,274.75	49.03	27.000	
8,100.00	7,994.72	8,002.09	7,994.72	33.42	20.89	-94.33	110.00	-255.00	1,323.78	1,274.12	49.67	26.653	
8,200.00	8,094.72	8,102.09	8,094.72	33.72	21.20	-94.33	110.00	-255.00	1,323.78	1,273.48	50.31	26.314	
8,300.00	8,194.72	8,202.09	8,194.72	34.01	21.51	-94.33	110.00	-255.00	1,323.78	1,272.83	50.95	25.982	
8,400.00	8,294.72	8,302.09	8,294.72	34.31	21.81	-94.33	110.00	-255.00	1,323.78	1,272.19	51.59	25.658	
8,500.00	8,394.72	8,402.09	8,394.72	34.61	22.12	-94.33	110.00	-255.00	1,323.78	1,271.54	52.24	25.340	
8,600.00	8,494.72	8,502.09	8,494.72	34.91	22.44	-94.33	110.00	-255.00	1,323.78	1,270.89	52.89	25.030	
8,700.00	8,594.72	8,602.09	8,594.72	35.21	22.75	-94.33	110.00	-255.00	1,323.78	1,270.24	53.54	24.726	
8,800.00	8,694.72	8,702.09	8,694.72	35.52	23.06	-94.33	110.00	-255.00	1,323.78	1,269.59	54.19	24.428	
8,900.00	8,794.72	8,802.09	8,794.72	35.82	23.38	-94.33	110.00	-255.00	1,323.78	1,268.94	54.84	24.137	
9,000.00	8,894.72	8,902.09	8,894.72	36.12	23.69	-94.33	110.00	-255.00	1,323.78	1,268.28	55.50	23.852	
9,100.00	8,994.72	9,002.09	8,994.72	36.43	24.01	-94.33	110.00	-255.00	1,323.78	1,267.63	56.16	23.573	
9,200.00	9,094.72	9,102.09	9,094.72	36.73	24.33	-94.33	110.00	-255.00	1,323.78	1,266.97	56.82	23.300	
9,300.00	9,194.72	9,202.09	9,194.72	37.04	24.65	-94.33	110.00	-255.00	1,323.78	1,266.31	57.48	23.032	
9,400.00	9,294.72	9,302.09	9,294.72	37.35	24.97	-94.33	110.00	-255.00	1,323.78	1,265.65	58.14	22.770	
9,500.00	9,394.72	9,402.09	9,394.72	37.66	25.29	-94.33	110.00	-255.00	1,323.78	1,264.98	58.80	22.513	
9,600.00	9,494.72	9,502.09	9,494.72	37.97	25.62	-94.33	110.00	-255.00	1,323.78	1,264.32	59.46	22.262	
9,700.00	9,594.72	9,602.09	9,594.72	38.28	25.94	-94.33	110.00	-255.00	1,323.78	1,263.66	60.13	22.017	
9,800.00	9,694.72	9,702.09	9,694.72	38.59	26.10	-94.33	110.00	-255.00	1,323.78	1,263.16	60.63	21.835	
9,800.54	9,695.26	9,702.63	9,695.26	38.59	26.10	-94.33	110.00	-255.00	1,323.78	1,263.15	60.63	21.834	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 123H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 9700-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Hightide Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,794.72	9,797.25	9,789.87	38.80	26.10	-94.36	109.32	-255.00	1,323.84	1,262.88	60.96	21.716	
10,000.00	9,894.72	9,881.11	9,873.03	39.22	26.11	-94.80	99.14	-254.99	1,324.82	1,263.56	61.26	21.628	
10,100.00	9,994.72	9,980.42	9,949.53	39.53	26.12	-95.69	78.44	-254.97	1,327.28	1,265.76	61.52	21.575	
10,200.00	10,094.72	10,032.82	10,016.27	39.85	26.13	-96.89	50.49	-254.95	1,331.87	1,270.13	61.74	21.573	
10,300.00	10,194.72	10,100.00	10,074.58	40.16	26.16	-98.31	17.22	-254.92	1,339.33	1,277.42	61.91	21.634	
10,317.28	10,212.00	10,107.50	10,080.84	40.22	26.16	-98.48	13.09	-254.92	1,340.96	1,279.04	61.92	21.658	
10,350.00	10,244.70	10,126.70	10,096.61	40.31	26.17	80.79	2.14	-254.91	1,344.22	1,282.27	61.95	21.700	
10,400.00	10,294.43	10,155.81	10,119.80	40.46	26.19	79.64	-15.45	-254.90	1,349.38	1,287.41	61.97	21.774	
10,450.00	10,343.54	10,184.69	10,141.89	40.59	26.21	78.53	-34.05	-254.88	1,354.66	1,292.68	61.98	21.856	
10,500.00	10,391.64	10,213.36	10,162.87	40.72	26.23	77.46	-53.59	-254.87	1,359.97	1,297.99	61.98	21.943	
10,550.00	10,438.37	10,241.86	10,182.73	40.84	26.26	76.45	-74.02	-254.85	1,365.22	1,303.25	61.96	22.032	
10,600.00	10,483.39	10,270.21	10,201.45	40.94	26.29	75.50	-95.31	-254.83	1,370.31	1,308.36	61.94	22.122	
10,650.00	10,526.33	10,300.00	10,219.96	41.04	26.33	74.61	-118.65	-254.81	1,375.16	1,313.23	61.93	22.206	
10,700.00	10,566.89	10,326.53	10,235.41	41.13	26.37	73.83	-140.21	-254.80	1,379.70	1,317.80	61.89	22.291	
10,750.00	10,604.74	10,350.00	10,248.23	41.20	26.41	73.16	-159.87	-254.78	1,383.86	1,322.02	61.84	22.378	
10,800.00	10,639.61	10,382.47	10,264.62	41.27	26.47	72.49	-187.90	-254.76	1,387.57	1,325.70	61.86	22.429	
10,850.00	10,671.22	10,410.34	10,277.39	41.33	26.53	71.96	-212.66	-254.74	1,390.78	1,328.92	61.87	22.480	
10,900.00	10,699.33	10,438.15	10,288.93	41.39	26.61	71.52	-237.96	-254.72	1,393.46	1,331.57	61.89	22.514	
10,950.00	10,723.74	10,465.92	10,299.22	41.44	26.69	71.18	-263.76	-254.69	1,395.56	1,333.62	61.94	22.530	
11,000.00	10,744.25	10,500.00	10,310.11	41.49	26.79	70.92	-296.04	-254.67	1,397.09	1,335.03	62.06	22.512	
11,050.00	10,760.71	10,521.39	10,315.95	41.54	26.87	70.80	-316.62	-254.65	1,397.93	1,335.80	62.13	22.501	
11,100.00	10,773.00	10,550.00	10,322.57	41.60	26.98	70.76	-344.45	-254.63	1,398.17	1,335.89	62.27	22.452	
11,150.00	10,781.01	10,576.82	10,327.50	41.67	27.09	70.83	-370.81	-254.61	1,397.76	1,335.31	62.45	22.383	
11,200.00	10,784.70	10,600.00	10,330.76	41.75	27.19	70.98	-393.76	-254.59	1,396.73	1,334.10	62.63	22.300	
11,217.27	10,784.96	10,614.14	10,332.30	41.78	27.25	71.07	-407.81	-254.58	1,396.21	1,333.47	62.75	22.251	
11,300.00	10,784.96	10,660.30	10,334.89	41.95	27.47	71.17	-453.89	-254.54	1,394.71	1,331.54	63.16	22.081	
11,339.95	10,784.96	10,706.87	10,334.96	42.05	27.72	71.18	-486.71	-254.51	1,394.66	1,331.15	63.52	21.958	
11,400.00	10,784.96	10,753.18	10,334.96	42.23	27.99	71.18	-546.76	-254.46	1,394.66	1,330.71	63.96	21.806	
11,500.00	10,784.96	10,853.18	10,334.96	42.58	28.62	71.18	-646.76	-254.38	1,394.66	1,329.73	64.93	21.479	
11,600.00	10,784.96	10,953.18	10,334.96	42.99	29.33	71.18	-746.76	-254.30	1,394.66	1,328.61	66.05	21.116	
11,700.00	10,784.96	11,053.18	10,334.96	43.47	30.12	71.18	-846.76	-254.22	1,394.66	1,327.36	67.30	20.724	
11,800.00	10,784.96	11,153.18	10,334.96	44.02	30.98	71.18	-946.76	-254.13	1,394.66	1,325.99	68.67	20.309	
11,900.00	10,784.96	11,253.18	10,334.96	44.63	31.90	71.18	-1,046.76	-254.05	1,394.66	1,324.49	70.17	19.876	
12,000.00	10,784.97	11,353.18	10,334.96	45.30	32.88	71.18	-1,146.76	-253.97	1,394.66	1,322.88	71.77	19.432	
12,100.00	10,784.97	11,453.18	10,334.97	46.03	33.92	71.18	-1,246.76	-253.89	1,394.65	1,321.17	73.48	18.980	
12,200.00	10,784.97	11,553.18	10,334.97	46.80	35.00	71.18	-1,346.76	-253.81	1,394.65	1,319.37	75.28	18.525	
12,300.00	10,784.97	11,653.18	10,334.97	47.63	36.13	71.18	-1,446.76	-253.73	1,394.65	1,317.47	77.18	18.071	
12,400.00	10,784.97	11,753.18	10,334.97	48.50	37.30	71.18	-1,546.76	-253.64	1,394.65	1,315.50	79.15	17.620	
12,500.00	10,784.97	11,853.18	10,334.97	49.41	38.51	71.18	-1,646.76	-253.56	1,394.65	1,313.44	81.21	17.174	
12,600.00	10,784.97	11,953.18	10,334.97	50.36	39.75	71.18	-1,746.76	-253.48	1,394.65	1,311.32	83.33	16.736	
12,700.00	10,784.97	12,053.18	10,334.97	51.35	41.02	71.18	-1,846.76	-253.40	1,394.65	1,309.13	85.52	16.308	
12,800.00	10,784.97	12,153.18	10,334.97	52.38	42.31	71.18	-1,946.76	-253.32	1,394.64	1,306.88	87.77	15.890	
12,900.00	10,784.97	12,253.18	10,334.97	53.44	43.64	71.18	-2,046.76	-253.23	1,394.64	1,304.57	90.08	15.483	
13,000.00	10,784.98	12,353.18	10,334.97	54.52	44.98	71.18	-2,146.76	-253.15	1,394.64	1,302.21	92.43	15.088	
13,100.00	10,784.98	12,453.18	10,334.98	55.64	46.35	71.18	-2,246.76	-253.07	1,394.64	1,299.80	94.84	14,705	
13,200.00	10,784.98	12,553.18	10,334.98	56.79	47.74	71.18	-2,346.76	-252.99	1,394.64	1,297.35	97.29	14.334	
13,300.00	10,784.98	12,653.18	10,334.98	57.96	49.14	71.18	-2,446.76	-252.91	1,394.64	1,294.85	99.79	13.976	
13,400.00	10,784.98	12,753.18	10,334.98	59.15	50.56	71.18	-2,546.76	-252.83	1,394.64	1,292.32	102.32	13.631	
13,500.00	10,784.98	12,853.18	10,334.98	60.37	51.99	71.18	-2,646.76	-252.74	1,394.63	1,289.75	104.88	13.297	
13,600.00	10,784.98	12,953.18	10,334.98	61.61	53.44	71.18	-2,746.76	-252.66	1,394.63	1,287.15	107.48	12.975	
13,700.00	10,784.98	13,053.18	10,334.98	62.87	54.90	71.18	-2,846.76	-252.58	1,394.63	1,284.52	110.12	12.665	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 123H - OH - Prelim Plan A											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 9700-MWD - OWSG											Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning	
		Reference	Offset	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	10,784.98	13,153.18	10,334.98	64.15	56.37	71.18	-2,946.76	-252.50	1,394.63	1,281.85	112.78	12.366	
13,900.00	10,784.98	13,253.18	10,334.98	65.44	57.85	71.18	-3,046.76	-252.42	1,394.63	1,279.17	115.46	12.079	
14,000.00	10,784.98	13,353.18	10,334.98	66.75	59.35	71.18	-3,146.76	-252.33	1,394.63	1,276.45	118.18	11.801	
14,100.00	10,784.99	13,453.18	10,334.99	68.08	60.85	71.18	-3,246.76	-252.25	1,394.63	1,273.72	120.91	11.534	
14,200.00	10,784.99	13,553.18	10,334.99	69.42	62.36	71.18	-3,346.76	-252.17	1,394.63	1,270.96	123.67	11.277	
14,300.00	10,784.99	13,653.18	10,334.99	70.78	63.88	71.18	-3,446.76	-252.09	1,394.62	1,268.18	126.45	11.029	
14,400.00	10,784.99	13,753.18	10,334.99	72.15	65.40	71.18	-3,546.76	-252.01	1,394.62	1,265.38	129.24	10.791	
14,500.00	10,784.99	13,853.18	10,334.99	73.53	66.93	71.18	-3,646.76	-251.92	1,394.62	1,262.56	132.06	10.561	
14,600.00	10,784.99	13,953.18	10,334.99	74.92	68.47	71.18	-3,746.76	-251.84	1,394.62	1,259.73	134.89	10.339	
14,700.00	10,784.99	14,053.18	10,334.99	76.33	70.01	71.18	-3,846.76	-251.76	1,394.62	1,256.88	137.74	10.125	
14,800.00	10,784.99	14,153.18	10,334.99	77.74	71.56	71.18	-3,946.76	-251.68	1,394.62	1,254.02	140.60	9.919	
14,900.00	10,784.99	14,253.18	10,334.99	79.17	73.12	71.18	-4,046.76	-251.60	1,394.62	1,251.14	143.48	9.720	
15,000.00	10,784.99	14,353.18	10,334.99	80.60	74.68	71.18	-4,146.76	-251.52	1,394.61	1,248.25	146.36	9.528	
15,100.00	10,785.00	14,453.18	10,335.00	82.04	76.24	71.18	-4,246.76	-251.43	1,394.61	1,245.35	149.27	9.343	
15,200.00	10,785.00	14,553.18	10,335.00	83.49	77.81	71.18	-4,346.76	-251.35	1,394.61	1,242.43	152.18	9.164	
15,300.00	10,785.00	14,653.18	10,335.00	84.95	79.38	71.18	-4,446.76	-251.27	1,394.61	1,239.51	155.10	8.991	
15,400.00	10,785.00	14,753.18	10,335.00	86.42	80.96	71.18	-4,546.76	-251.19	1,394.61	1,236.57	158.04	8.824	
15,500.00	10,785.00	14,853.18	10,335.00	87.89	82.54	71.18	-4,646.76	-251.11	1,394.61	1,233.62	160.98	8.663	
15,600.00	10,785.00	14,953.18	10,335.00	89.37	84.12	71.18	-4,746.76	-251.02	1,394.61	1,230.67	163.94	8.507	
15,618.32	10,785.00	14,971.50	10,335.00	89.65	84.41	71.18	-4,765.09	-251.01	1,394.61	1,230.12	164.48	8.479 SF	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design : Verna Rae - 124H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG		Distance										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis				Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highest Teoface (")	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
100.00	100.00	100.00	100.00	0.00	0.14	87.65	40.00	973.00	973.82	973.69	0.14	7.185.648		
200.00	200.00	200.00	200.00	0.18	0.49	87.65	40.00	973.00	973.82	973.15	0.67	1.446.921		
300.00	300.00	300.00	300.00	0.54	0.85	87.65	40.00	973.00	973.82	972.43	1.39	700.605		
400.00	400.00	400.00	400.00	0.90	1.21	87.65	40.00	973.00	973.82	971.71	2.11	462.202		
500.00	500.00	486.76	486.75	1.25	1.52	87.63	40.31	973.58	974.50	971.73	2.77	351.427		
600.00	600.00	573.48	573.45	1.61	1.82	87.58	41.25	975.31	976.54	973.10	3.44	284.089		
700.00	699.99	660.14	660.05	1.97	2.13	8.65	42.82	978.19	979.08	974.98	4.09	239.113		
800.00	799.96	746.77	746.56	2.31	2.44	8.55	45.01	982.22	981.25	976.50	4.75	206.656		
900.00	899.86	833.37	832.96	2.67	2.76	8.43	47.82	987.39	983.06	977.66	5.41	181.870		
1,000.00	999.68	923.01	922.29	3.03	3.09	8.29	51.37	993.92	984.48	978.40	6.08	162.005		
1,100.00	1,099.37	1,022.98	1,021.88	3.39	3.46	8.13	55.53	1,001.57	984.58	977.79	6.79	144.955		
1,200.00	1,198.90	1,122.93	1,121.45	3.76	3.83	8.00	59.69	1,009.23	982.96	975.45	7.51	130.894		
1,300.00	1,298.26	1,222.85	1,220.99	4.14	4.21	7.87	63.85	1,016.88	979.61	971.38	8.23	119.017		
1,400.00	1,397.40	1,322.71	1,320.46	4.52	4.58	7.77	68.00	1,024.53	974.55	965.59	8.95	108.835		
1,500.00	1,496.30	1,422.46	1,419.84	4.92	4.96	7.68	72.15	1,032.16	967.76	958.08	9.68	99.975		
1,600.00	1,594.93	1,522.08	1,519.08	5.33	5.33	7.60	76.30	1,039.79	959.25	948.84	10.41	92.168		
1,700.00	1,693.26	1,625.17	1,621.78	5.75	5.72	7.54	80.57	1,047.64	948.98	937.83	11.15	85.101		
1,800.00	1,791.25	1,741.69	1,737.99	6.19	6.16	7.52	84.62	1,055.10	935.73	923.78	11.95	78.329		
1,900.00	1,889.06	1,857.43	1,853.56	6.64	6.58	7.56	87.53	1,060.45	919.81	907.08	12.73	72.245		
2,000.00	1,986.88	1,972.43	1,968.50	7.10	7.00	7.66	89.31	1,063.73	902.09	888.58	13.51	66.786		
2,100.00	2,084.69	2,086.61	2,082.67	7.56	7.40	7.83	89.99	1,064.98	882.59	868.32	14.27	61.849		
2,200.00	2,182.51	2,186.44	2,182.51	8.03	7.74	8.02	90.00	1,065.00	862.00	847.01	14.99	57.512		
2,300.00	2,280.32	2,284.26	2,280.32	8.50	8.08	8.22	90.00	1,065.00	841.41	825.71	15.70	53.584		
2,400.00	2,378.13	2,382.07	2,378.13	8.97	8.42	8.43	90.00	1,065.00	820.83	804.41	16.42	49.993		
2,500.00	2,475.95	2,479.89	2,475.95	9.45	8.76	8.65	90.00	1,065.00	800.26	783.12	17.14	46.699		
2,600.00	2,573.76	2,577.70	2,573.76	9.92	9.10	8.88	90.00	1,065.00	779.70	761.84	17.86	43.666		
2,700.00	2,671.58	2,675.52	2,671.58	10.40	9.44	9.12	90.00	1,065.00	759.15	740.57	18.58	40.865		
2,800.00	2,769.39	2,773.33	2,769.39	10.88	9.79	9.37	90.00	1,065.00	738.62	719.32	19.30	38.271		
2,900.00	2,867.21	2,871.15	2,867.21	11.37	10.13	9.64	90.00	1,065.00	718.10	698.08	20.02	35.863		
3,000.00	2,965.02	2,968.96	2,965.02	11.85	10.47	9.93	90.00	1,065.00	697.60	676.85	20.75	33.622		
3,100.00	3,062.84	3,066.77	3,062.84	12.33	10.82	10.23	90.00	1,065.00	677.12	655.64	21.47	31.531		
3,200.00	3,160.65	3,164.59	3,160.65	12.82	11.16	10.55	90.00	1,065.00	656.65	634.45	22.20	29.576		
3,300.00	3,258.47	3,262.40	3,258.47	13.31	11.51	10.90	90.00	1,065.00	636.21	613.28	22.93	27.744		
3,400.00	3,356.28	3,360.22	3,356.28	13.79	11.85	11.26	90.00	1,065.00	615.79	592.13	23.66	26.024		
3,500.00	3,454.10	3,458.03	3,454.10	14.28	12.20	11.65	90.00	1,065.00	595.39	571.00	24.39	24.407		
3,600.00	3,551.91	3,555.85	3,551.91	14.77	12.54	12.07	90.00	1,065.00	575.03	549.90	25.13	22.884		
3,700.00	3,649.73	3,653.66	3,649.73	15.26	12.89	12.52	90.00	1,065.00	554.89	528.83	25.86	21.447		
3,800.00	3,747.54	3,751.48	3,747.54	15.75	13.24	13.00	90.00	1,065.00	534.39	507.79	26.60	20.090		
3,900.00	3,845.36	3,849.29	3,845.36	16.24	13.58	13.52	90.00	1,065.00	514.13	486.79	27.34	18.805		
4,000.00	3,943.17	3,947.11	3,943.17	16.73	13.93	14.09	90.00	1,065.00	493.92	465.84	28.08	17.588		
4,100.00	4,040.99	4,044.92	4,040.99	17.22	14.28	14.70	90.00	1,065.00	473.75	444.93	28.83	16.434		
4,200.00	4,138.80	4,142.74	4,138.80	17.71	14.62	15.36	90.00	1,065.00	453.64	424.07	29.58	15.338		
4,300.00	4,236.62	4,240.55	4,236.62	18.20	14.97	16.09	90.00	1,065.00	433.60	403.27	30.33	14.297		
4,400.00	4,334.43	4,338.37	4,334.43	18.69	15.32	16.89	90.00	1,065.00	413.63	382.54	31.08	13.306		
4,500.00	4,432.24	4,436.18	4,432.24	19.19	15.66	17.76	90.00	1,065.00	393.74	361.89	31.85	12.363		
4,600.00	4,530.06	4,534.00	4,530.06	19.68	16.01	18.73	90.00	1,065.00	373.95	341.33	32.62	11.465		
4,700.00	4,627.87	4,631.81	4,627.87	20.17	16.36	19.81	90.00	1,065.00	354.28	320.88	33.39	10.609		
4,800.00	4,725.69	4,729.63	4,725.69	20.66	16.71	21.01	90.00	1,065.00	334.74	300.56	34.18	9.793		
4,900.00	4,823.50	4,827.44	4,823.50	21.16	17.06	22.36	90.00	1,065.00	315.36	280.38	34.98	9.015		
5,000.00	4,921.32	4,925.26	4,921.32	21.65	17.40	23.89	90.00	1,065.00	296.18	260.38	35.80	8.273		
5,100.00	5,019.13	5,023.07	5,019.13	22.14	17.75	25.62	90.00	1,065.00	277.22	240.59	36.63	7.567		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 124H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft	
Reference			Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,116.95	5,120.88	5,116.95	22.64	18.10	27.60	90.00	1,065.00	258.55	221.05	37.49	6.896		
5,300.00	5,214.76	5,218.70	5,214.76	23.13	18.45	29.89	90.00	1,065.00	240.22	201.84	38.39	6.258		
5,400.00	5,312.58	5,316.51	5,312.58	23.63	18.80	32.55	90.00	1,065.00	222.33	183.02	39.32	5.655		
5,500.00	5,410.39	5,414.33	5,410.39	24.12	19.15	35.65	90.00	1,065.00	204.99	164.69	40.30	5.087		
5,600.00	5,508.21	5,512.14	5,508.21	24.61	19.50	39.31	90.00	1,065.00	188.35	147.01	41.34	4.556		
5,700.00	5,606.02	5,609.96	5,606.02	25.11	19.84	43.64	90.00	1,065.00	172.61	130.15	42.47	4.065		
5,800.00	5,703.84	5,707.77	5,703.84	25.60	20.19	48.78	90.00	1,065.00	158.05	114.37	43.67	3.619		
5,816.59	5,720.07	5,724.00	5,720.07	25.68	20.25	49.72	90.00	1,065.00	155.77	111.88	43.88	3.550		
5,900.00	5,801.77	5,805.71	5,801.77	26.09	20.54	54.61	90.00	1,065.00	145.35	100.40	44.95	3.234		
6,000.00	5,900.05	5,903.98	5,900.05	26.56	20.89	60.84	90.00	1,065.00	135.33	89.11	46.23	2.928		
6,100.00	5,998.63	6,002.56	5,998.63	27.01	21.24	67.28	90.00	1,065.00	127.89	80.43	47.46	2.695		
6,200.00	6,097.48	6,101.42	6,097.48	27.44	21.60	73.66	90.00	1,065.00	122.79	74.20	48.59	2.527		
6,300.00	6,196.59	6,200.52	6,196.59	27.86	21.95	79.71	90.00	1,065.00	119.69	70.08	49.61	2.413		
6,400.00	6,295.91	6,300.15	6,295.91	28.25	22.31	85.21	90.00	1,065.00	118.15	67.65	50.50	2.340		
6,500.00	6,395.42	6,400.64	6,395.42	28.63	22.67	89.97	90.00	1,065.00	117.73	66.45	51.29	2.296		
6,500.64	6,396.06	6,400.00	6,396.06	28.63	22.66	90.00	90.00	1,065.00	117.73	66.45	51.29	2.296 CC		
6,600.00	6,495.09	6,500.98	6,495.09	28.99	23.02	93.91	90.00	1,065.00	118.01	66.01	52.00	2.269		
6,700.00	6,594.88	6,601.18	6,594.88	29.33	23.38	97.00	90.00	1,065.00	118.62	65.95	52.67	2.252		
6,800.00	6,694.77	6,701.29	6,694.77	29.66	23.74	99.22	90.00	1,065.00	119.28	65.97	53.31	2.237		
6,900.00	6,794.73	6,801.34	6,794.73	29.97	24.10	100.60	90.00	1,065.00	119.78	65.83	53.95	2.220		
7,000.00	6,894.72	6,901.34	6,894.72	30.26	24.45	101.14	90.00	1,065.00	120.00	65.41	54.59	2.198		
7,016.59	6,911.31	6,915.25	6,911.31	30.31	24.50	-180.00	90.00	1,065.00	120.00	65.32	54.68	2.194		
7,100.00	6,994.72	7,001.34	6,994.72	30.54	24.81	-180.00	90.00	1,065.00	120.00	64.78	55.22	2.173		
7,200.00	7,094.72	7,101.34	7,094.72	30.82	25.17	-180.00	90.00	1,065.00	120.00	64.14	55.86	2.148		
7,300.00	7,194.72	7,201.34	7,194.72	31.11	25.52	-180.00	90.00	1,065.00	120.00	63.49	56.51	2.124		
7,400.00	7,294.72	7,301.34	7,294.72	31.39	25.88	-180.00	90.00	1,065.00	120.00	62.85	57.15	2.100		
7,500.00	7,394.72	7,401.34	7,394.72	31.68	26.24	-180.00	90.00	1,065.00	120.00	62.21	57.79	2.076		
7,600.00	7,494.72	7,501.34	7,494.72	31.96	26.60	-180.00	90.00	1,065.00	120.00	61.56	58.44	2.053		
7,700.00	7,594.72	7,601.34	7,594.72	32.25	26.95	-180.00	90.00	1,065.00	120.00	60.91	59.09	2.031		
7,800.00	7,694.72	7,701.34	7,694.72	32.54	27.31	-180.00	90.00	1,065.00	120.00	60.26	59.74	2.009		
7,900.00	7,794.72	7,801.34	7,794.72	32.83	27.67	-180.00	90.00	1,065.00	120.00	59.61	60.39	1.987		
8,000.00	7,894.72	7,901.34	7,894.72	33.13	28.03	-180.00	90.00	1,065.00	120.00	58.96	61.04	1.966		
8,100.00	7,994.72	8,001.34	7,994.72	33.42	28.38	-180.00	90.00	1,065.00	120.00	58.31	61.69	1.945		
8,200.00	8,094.72	8,101.34	8,094.72	33.72	28.74	-180.00	90.00	1,065.00	120.00	57.66	62.34	1.925		
8,300.00	8,194.72	8,201.34	8,194.72	34.01	29.10	-180.00	90.00	1,065.00	120.00	57.00	63.00	1.905		
8,400.00	8,294.72	8,301.34	8,294.72	34.31	29.46	-180.00	90.00	1,065.00	120.00	56.34	63.66	1.885		
8,500.00	8,394.72	8,401.34	8,394.72	34.61	29.81	-180.00	90.00	1,065.00	120.00	55.69	64.31	1.866		
8,600.00	8,494.72	8,501.34	8,494.72	34.91	30.17	-180.00	90.00	1,065.00	120.00	55.03	64.97	1.847		
8,700.00	8,594.72	8,601.34	8,594.72	35.21	30.53	-180.00	90.00	1,065.00	120.00	54.37	65.63	1.828		
8,800.00	8,694.72	8,701.34	8,694.72	35.52	30.89	-180.00	90.00	1,065.00	120.00	53.71	66.29	1.810		
8,900.00	8,794.72	8,801.34	8,794.72	35.82	31.25	-180.00	90.00	1,065.00	120.00	53.04	66.96	1.792		
9,000.00	8,894.72	8,901.34	8,894.72	36.12	31.60	-180.00	90.00	1,065.00	120.00	52.38	67.62	1.775		
9,100.00	8,994.72	9,001.34	8,994.72	36.43	31.96	-180.00	90.00	1,065.00	120.00	51.72	68.28	1.757		
9,200.00	9,094.72	9,101.34	9,094.72	36.73	32.32	-180.00	90.00	1,065.00	120.00	51.05	68.95	1.740		
9,300.00	9,194.72	9,201.34	9,194.72	37.04	32.68	-180.00	90.00	1,065.00	120.00	50.39	69.61	1.724		
9,400.00	9,294.72	9,301.34	9,294.72	37.35	33.03	-180.00	90.00	1,065.00	120.00	49.72	70.28	1.707		
9,500.00	9,394.72	9,401.34	9,394.72	37.66	33.39	-180.00	90.00	1,065.00	120.00	49.05	70.95	1.691		
9,600.00	9,494.72	9,501.34	9,494.72	37.97	33.75	-180.00	90.00	1,065.00	120.00	48.38	71.62	1.676		
9,700.00	9,594.72	9,601.34	9,594.72	38.28	34.11	-180.00	90.00	1,065.00	120.00	47.71	72.29	1.660		
9,800.00	9,694.72	9,701.34	9,694.72	38.59	34.47	-180.00	90.00	1,065.00	120.00	47.04	72.96	1.645 ES, SF		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design - Verna Rae - 124H - OH - Prelim Plan A											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG		Offset		Semi Major Axis			Distance					Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.92	9,695.64	9,700.42	9,695.64	38.59	34.46	-180.00	90.00	1,065.00	120.00	47.04	72.96	1.645	
9,900.00	9,794.72	9,789.62	9,785.65	38.90	34.77	180.00	88.41	1,065.00	121.93	48.57	73.36	1.662	
10,000.00	9,894.72	9,870.43	9,865.54	39.22	35.02	180.00	76.74	1,065.01	136.41	63.71	72.71	1.876	
10,100.00	9,994.72	9,946.57	9,938.62	39.53	35.25	179.99	55.57	1,065.03	164.30	93.16	71.14	2.309	
10,200.00	10,094.72	10,016.04	10,002.32	39.85	35.45	179.98	27.96	1,065.05	204.15	135.16	68.99	2.959	
10,300.00	10,194.72	10,077.93	10,055.89	40.16	35.61	179.98	-2.98	1,065.08	254.23	187.68	66.55	3.820	
10,317.28	10,212.00	10,087.84	10,064.14	40.22	35.63	179.98	-8.46	1,065.08	263.79	197.67	66.12	3.990	
10,350.00	10,244.70	10,106.35	10,079.30	40.31	35.68	0.02	-19.08	1,065.09	281.79	216.51	65.28	4.316	
10,400.00	10,294.43	10,134.47	10,101.65	40.46	35.75	0.02	-36.14	1,065.10	307.98	244.03	63.94	4.816	
10,450.00	10,343.54	10,162.41	10,123.01	40.59	35.82	0.02	-54.15	1,065.12	332.50	269.96	62.54	5.316	
10,500.00	10,391.64	10,190.20	10,143.35	40.72	35.89	0.02	-73.08	1,065.13	355.33	294.24	61.09	5.817	
10,550.00	10,438.37	10,217.87	10,162.67	40.84	35.97	0.02	-92.88	1,065.15	376.41	316.82	59.59	6.317	
10,600.00	10,483.39	10,250.00	10,183.87	40.94	36.06	0.01	-117.02	1,065.17	395.75	337.26	58.49	6.767	
10,650.00	10,526.33	10,272.88	10,198.13	41.04	36.13	0.01	-134.91	1,065.19	413.17	356.67	56.51	7.312	
10,700.00	10,566.89	10,300.00	10,214.09	41.13	36.21	0.01	-156.84	1,065.20	428.78	373.85	54.93	7.805	
10,750.00	10,604.74	10,327.56	10,229.23	41.20	36.29	0.01	-179.86	1,065.22	442.50	389.09	53.41	8.285	
10,800.00	10,639.61	10,350.00	10,240.72	41.27	36.36	0.01	-199.14	1,065.24	454.35	402.84	51.51	8.821	
10,850.00	10,671.22	10,382.01	10,255.79	41.33	36.46	0.01	-227.37	1,065.26	464.16	413.76	50.41	9.208	
10,900.00	10,699.33	10,409.18	10,267.33	41.39	36.54	0.01	-251.96	1,065.28	472.07	423.07	48.99	9.635	
10,950.00	10,723.74	10,436.32	10,277.68	41.44	36.63	0.01	-277.05	1,065.30	477.99	430.33	47.66	10.029	
11,000.00	10,744.25	10,463.43	10,286.82	41.49	36.72	0.01	-302.57	1,065.32	481.93	435.50	46.44	10.378	
11,050.00	10,760.71	10,490.54	10,294.74	41.54	36.81	0.01	-328.49	1,065.34	483.88	438.54	45.34	10.671	
11,100.00	10,773.00	10,517.64	10,301.43	41.60	36.90	0.01	-354.76	1,065.37	483.83	439.43	44.40	10.897	
11,150.00	10,781.01	10,550.00	10,307.78	41.67	37.02	0.01	-386.48	1,065.39	481.84	438.01	43.83	10.994	
11,200.00	10,784.70	10,571.86	10,311.05	41.75	37.09	0.01	-408.10	1,065.41	477.75	434.68	43.06	11.094	
11,217.27	10,784.96	10,581.24	10,312.20	41.78	37.13	0.01	-417.40	1,065.42	475.89	432.97	42.91	11.089	
11,300.00	10,784.96	10,626.45	10,315.59	41.95	37.29	0.01	-462.47	1,065.46	469.67	427.09	42.58	11.031	
11,400.00	10,784.96	10,710.65	10,316.09	42.23	37.62	0.01	-546.67	1,065.52	468.87	425.99	42.88	10.935	
11,409.72	10,784.96	10,720.36	10,316.11	42.26	37.67	0.01	-556.38	1,065.53	468.85	425.93	42.92	10.925	
11,500.00	10,784.96	10,810.65	10,316.31	42.58	38.07	0.01	-646.67	1,065.61	468.66	425.37	43.29	10.826	
11,600.00	10,784.96	10,910.65	10,316.52	42.99	38.59	0.01	-746.67	1,065.69	468.45	424.69	43.76	10.706	
11,700.00	10,784.96	11,010.65	10,316.73	43.47	39.17	0.01	-846.67	1,065.77	468.24	423.96	44.27	10.576	
11,800.00	10,784.96	11,110.65	10,316.94	44.02	39.82	0.01	-946.67	1,065.85	468.03	423.18	44.84	10.437	
11,900.00	10,784.96	11,210.65	10,317.15	44.63	40.52	0.01	-1,046.67	1,065.94	467.82	422.36	45.46	10.292	
12,000.00	10,784.97	11,310.65	10,317.36	45.30	41.27	0.01	-1,146.67	1,066.02	467.61	421.49	46.12	10.140	
12,100.00	10,784.97	11,410.65	10,317.57	46.03	42.08	0.01	-1,246.66	1,066.10	467.40	420.58	46.82	9.983	
12,200.00	10,784.97	11,510.65	10,317.78	46.80	42.94	0.01	-1,346.66	1,066.18	467.19	419.62	47.56	9.822	
12,300.00	10,784.97	11,610.65	10,317.99	47.63	43.85	0.01	-1,446.66	1,066.27	466.97	418.63	48.35	9.659	
12,400.00	10,784.97	11,710.65	10,318.21	48.50	44.80	0.01	-1,546.66	1,066.35	466.76	417.59	49.17	9.493	
12,500.00	10,784.97	11,810.65	10,318.42	49.41	45.79	0.01	-1,646.66	1,066.43	466.55	416.53	50.03	9.326	
12,600.00	10,784.97	11,910.64	10,318.63	50.36	46.82	0.01	-1,746.66	1,066.51	466.34	415.42	50.92	9.158	
12,700.00	10,784.97	12,010.64	10,318.84	51.35	47.88	0.01	-1,846.66	1,066.60	466.13	414.29	51.84	8.991	
12,800.00	10,784.97	12,110.64	10,319.05	52.38	48.98	0.01	-1,946.66	1,066.68	465.92	413.12	52.80	8.824	
12,900.00	10,784.97	12,210.64	10,319.26	53.44	50.11	0.01	-2,046.66	1,066.76	465.71	411.93	53.78	8.659	
13,000.00	10,784.98	12,310.64	10,319.47	54.52	51.27	0.01	-2,146.66	1,066.84	465.50	410.71	54.80	8.495	
13,100.00	10,784.98	12,410.64	10,319.68	55.64	52.45	0.01	-2,246.66	1,066.93	465.29	409.46	55.83	8.334	
13,200.00	10,784.98	12,510.64	10,319.90	56.79	53.67	0.01	-2,346.66	1,067.01	465.08	408.19	56.90	8.174	
13,300.00	10,784.98	12,610.64	10,320.11	57.96	54.90	0.01	-2,446.66	1,067.09	464.87	406.89	57.98	8.018	
13,400.00	10,784.98	12,710.64	10,320.32	59.15	56.16	0.01	-2,546.66	1,067.17	464.66	405.58	59.09	7.864	
13,500.00	10,784.98	12,810.64	10,320.53	60.37	57.44	0.01	-2,646.66	1,067.26	464.45	404.24	60.21	7.713	
13,600.00	10,784.98	12,910.64	10,320.74	61.61	58.74	0.00	-2,746.66	1,067.34	464.24	402.88	61.36	7.566	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 124H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis /		Highside Toolface (°)	Offset Wellbore Centre		Distance			Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,700.00	10,784.98	13,010.64	10,320.95	62.87	60.06	0.00	-2,846.66	1,067.42	464.03	401.50	62.53	7.421		
13,800.00	10,784.98	13,110.64	10,321.16	64.15	61.39	0.00	-2,946.66	1,067.50	463.82	400.11	63.71	7.280		
13,900.00	10,784.98	13,210.64	10,321.37	65.44	62.74	0.00	-3,046.66	1,067.58	463.61	398.70	64.91	7.142		
14,000.00	10,784.98	13,310.64	10,321.58	66.75	64.11	0.00	-3,146.66	1,067.67	463.40	397.28	66.12	7.008		
14,100.00	10,784.99	13,410.64	10,321.80	68.08	65.48	0.00	-3,246.66	1,067.75	463.19	395.84	67.35	6.877		
14,200.00	10,784.99	13,510.64	10,322.01	69.42	66.88	0.00	-3,346.65	1,067.83	462.98	394.38	68.60	6.749		
14,300.00	10,784.99	13,610.64	10,322.22	70.78	68.28	0.00	-3,446.65	1,067.91	462.77	392.92	69.85	6.625		
14,400.00	10,784.99	13,710.64	10,322.43	72.15	69.70	0.00	-3,546.65	1,068.00	462.56	391.44	71.12	6.504		
14,500.00	10,784.99	13,810.64	10,322.64	73.53	71.12	0.00	-3,646.65	1,068.08	462.35	389.95	72.40	6.386		
14,600.00	10,784.99	13,910.64	10,322.85	74.92	72.56	0.00	-3,746.65	1,068.16	462.14	388.44	73.70	6.271		
14,700.00	10,784.99	14,010.64	10,323.06	76.33	74.01	0.00	-3,846.65	1,068.24	461.93	386.93	75.00	6.159		
14,800.00	10,784.99	14,110.64	10,323.27	77.74	75.46	0.00	-3,946.65	1,068.33	461.72	385.41	76.31	6.050		
14,900.00	10,784.99	14,210.64	10,323.49	79.17	76.93	0.00	-4,046.65	1,068.41	461.51	383.88	77.63	5.945		
15,000.00	10,784.99	14,310.64	10,323.70	80.60	78.40	0.00	-4,146.65	1,068.49	461.30	382.33	78.97	5.842		
15,100.00	10,785.00	14,410.64	10,323.91	82.04	79.88	0.00	-4,246.65	1,068.57	461.09	380.78	80.31	5.742		
15,200.00	10,785.00	14,510.64	10,324.12	83.49	81.37	0.00	-4,346.65	1,068.66	460.88	379.22	81.65	5.644		
15,300.00	10,785.00	14,610.64	10,324.33	84.95	82.86	0.00	-4,446.65	1,068.74	460.67	377.66	83.01	5.550		
15,400.00	10,785.00	14,710.64	10,324.54	86.42	84.37	0.00	-4,546.65	1,068.82	460.46	376.09	84.37	5.457		
15,500.00	10,785.00	14,810.64	10,324.75	87.89	85.87	0.00	-4,646.65	1,068.90	460.25	374.50	85.74	5.368		
15,600.00	10,785.00	14,910.64	10,324.96	89.37	87.39	0.00	-4,746.65	1,068.99	460.04	372.92	87.12	5.280		
15,618.32	10,785.00	14,928.96	10,325.00	89.65	87.66	0.00	-4,764.97	1,069.00	460.00	372.63	87.37	5.265		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 133H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 10200-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis			Distance					Warning	
				Reference	Offset	Highside Toolface (°)	Offset Wellbore +N/S (usft)	Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
100.00	100.00	100.00	100.00	0.00	0.13	-45.00	30.00	-30.00	42.43	42.30	0.13	330.543	
200.00	200.00	200.00	200.00	0.18	0.49	-45.00	30.00	-30.00	42.43	41.76	0.67	63.717	
300.00	300.00	300.00	300.00	0.54	0.85	-45.00	30.00	-30.00	42.43	41.04	1.38	30.681	
400.00	400.00	400.00	400.00	0.90	1.20	-45.00	30.00	-30.00	42.43	40.33	2.10	20.205 CC, ES	
500.00	500.00	499.26	499.25	1.25	1.56	-45.13	30.54	-30.67	43.29	40.48	2.81	15.396	
600.00	600.00	598.46	598.42	1.61	1.91	-45.47	32.15	-32.68	45.87	42.35	3.52	13.025	
700.00	699.99	697.51	697.37	1.97	2.26	-125.59	34.82	-36.03	50.68	46.45	4.23	11.992	
800.00	799.96	796.25	795.93	2.31	2.62	-128.07	38.56	-40.70	58.29	53.36	4.93	11.832	
900.00	899.86	895.52	893.87	2.67	3.02	-131.05	43.32	-46.65	68.83	63.16	5.67	12.145	
1,000.00	999.68	1,006.43	992.58	3.03	3.39	-134.08	48.71	-53.39	81.66	75.28	6.38	12.793	
1,100.00	1,099.37	1,107.56	1,091.07	3.39	3.77	-136.98	54.10	-60.12	95.92	88.82	7.10	13.505	
1,200.00	1,198.90	1,191.06	1,189.32	3.76	4.09	-139.68	59.47	-66.83	111.69	103.93	7.76	14.389	
1,300.00	1,298.26	1,289.40	1,287.28	4.14	4.46	-142.17	64.82	-73.53	129.01	120.53	8.48	15.217	
1,400.00	1,397.40	1,387.43	1,384.94	4.52	4.83	-144.43	70.16	-80.20	147.92	138.72	9.20	16.086	
1,500.00	1,496.30	1,485.12	1,482.26	4.92	5.20	-146.49	75.48	-86.85	168.44	158.53	9.91	16.989	
1,600.00	1,594.93	1,582.45	1,579.22	5.33	5.56	-148.35	80.78	-93.47	190.60	179.97	10.64	17.922	
1,700.00	1,693.26	1,679.37	1,675.77	5.75	5.93	-150.04	86.05	-100.07	214.41	203.05	11.36	18.879	
1,800.00	1,791.25	1,775.87	1,771.90	6.19	6.30	-151.56	91.31	-106.63	239.86	227.78	12.08	19.857	
1,900.00	1,889.06	1,872.14	1,867.81	6.64	6.66	-152.99	96.55	-113.19	266.22	253.41	12.80	20.795	
2,000.00	1,986.88	1,968.42	1,963.72	7.10	7.03	-154.15	101.79	-119.74	292.70	279.17	13.52	21.643	
2,100.00	2,084.69	2,064.69	2,059.62	7.56	7.40	-155.13	107.03	-126.29	319.27	305.03	14.25	22.409	
2,200.00	2,182.51	2,160.96	2,155.53	8.03	7.76	-155.95	112.27	-132.84	345.92	330.95	14.97	23.104	
2,300.00	2,280.32	2,257.24	2,251.44	8.50	8.13	-156.66	117.52	-139.39	372.63	356.93	15.70	23.737	
2,400.00	2,378.13	2,353.51	2,347.34	8.97	8.50	-157.27	122.76	-145.95	399.38	382.95	16.42	24.316	
2,500.00	2,475.95	2,449.78	2,443.25	9.45	8.87	-157.81	128.00	-152.50	426.17	409.01	17.15	24.846	
2,600.00	2,573.76	2,546.06	2,539.16	9.92	9.23	-158.28	133.24	-159.05	452.99	435.11	17.88	25.334	
2,700.00	2,671.58	2,642.33	2,635.07	10.40	9.60	-158.70	138.48	-165.60	479.83	461.22	18.61	25.784	
2,800.00	2,769.39	2,738.60	2,730.97	10.88	9.97	-159.07	143.72	-172.16	506.70	487.36	19.34	26.201	
2,900.00	2,867.21	2,834.88	2,826.88	11.37	10.34	-159.41	148.97	-178.71	533.58	513.51	20.07	26.588	
3,000.00	2,965.02	2,931.15	2,922.79	11.85	10.70	-159.72	154.21	-185.26	560.48	539.68	20.80	26.947	
3,100.00	3,062.84	3,027.42	3,018.69	12.33	11.02	-159.99	159.45	-191.81	587.39	565.91	21.48	27.344	
3,200.00	3,160.65	3,123.70	3,114.60	12.82	11.19	-160.25	164.69	-198.36	614.32	592.32	22.00	27.921	
3,300.00	3,258.47	3,219.97	3,210.51	13.31	11.24	-160.48	169.93	-204.92	641.25	618.85	22.40	28.623	
3,400.00	3,356.28	3,316.24	3,306.41	13.79	11.30	-160.69	175.17	-211.47	668.20	645.38	22.82	29.285	
3,500.00	3,454.10	3,412.52	3,402.32	14.28	11.37	-160.89	180.42	-218.02	695.15	671.91	23.24	29.909	
3,600.00	3,551.91	3,508.79	3,498.23	14.77	11.45	-161.07	185.66	-224.57	722.11	698.43	23.68	30.497	
3,700.00	3,649.73	3,605.06	3,594.13	15.26	11.55	-161.24	190.90	-231.12	749.07	724.94	24.13	31.047	
3,800.00	3,747.54	3,701.34	3,690.04	15.75	11.65	-161.39	196.14	-237.68	776.04	751.46	24.59	31.564	
3,900.00	3,845.36	3,810.00	3,798.37	16.24	11.78	-161.60	201.47	-244.33	802.31	777.20	25.11	31.956	
4,000.00	3,943.17	3,920.12	3,908.29	16.73	11.91	-161.87	205.55	-249.44	827.02	801.38	25.64	32.259	
4,100.00	4,040.99	4,031.04	4,019.12	17.22	12.04	-162.20	208.34	-252.92	850.16	823.98	26.17	32.483	
4,200.00	4,138.80	4,142.68	4,130.74	17.71	12.17	-162.59	209.78	-254.73	871.73	845.01	26.71	32.633	
4,300.00	4,236.62	4,248.56	4,236.62	18.20	12.30	-163.01	210.00	-255.00	891.88	864.64	27.24	32.743	
4,400.00	4,334.43	4,346.38	4,334.43	18.69	12.43	-163.39	210.00	-255.00	911.82	884.07	27.75	32.860	
4,500.00	4,432.24	4,444.19	4,432.24	19.19	12.56	-163.76	210.00	-255.00	931.80	903.53	28.27	32.965	
4,600.00	4,530.06	4,542.01	4,530.06	19.68	12.70	-164.11	210.00	-255.00	951.81	923.02	28.79	33.057	
4,700.00	4,627.87	4,639.82	4,627.87	20.17	12.85	-164.44	210.00	-255.00	971.86	942.53	29.33	33.138	
4,800.00	4,725.69	4,737.63	4,725.69	20.66	13.01	-164.76	210.00	-255.00	991.93	962.06	29.87	33.208	
4,900.00	4,823.50	4,835.45	4,823.50	21.16	13.17	-165.07	210.00	-255.00	1,012.04	981.62	30.42	33.269	
5,000.00	4,921.32	4,933.26	4,921.32	21.65	13.35	-165.37	210.00	-255.00	1,032.17	1,001.19	30.98	33.320	
5,100.00	5,019.13	5,031.08	5,019.13	22.14	13.52	-165.66	210.00	-255.00	1,052.32	1,020.78	31.54	33.364	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design											Verna Rae - 133H - OH - Prelim Plan A	Offset Site Error:	0.00 usft			
Survey Program:			Offset								Distance				Offset Well Error:	0.00 usft
Reference			Semi Major Axis													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Hightside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
5,200.00	5,116.95	5,128.89	5,116.95	22.64	13.71	-165.93	210.00	-255.00	1,072.51	1,040.39	32.11	33.399				
5,300.00	5,214.76	5,226.71	5,214.76	23.13	13.90	-166.19	210.00	-255.00	1,092.71	1,060.02	32.69	33.428				
5,400.00	5,312.58	5,324.52	5,312.58	23.63	14.10	-166.45	210.00	-255.00	1,112.94	1,079.66	33.27	33.450				
5,500.00	5,410.39	5,422.34	5,410.39	24.12	14.30	-166.70	210.00	-255.00	1,133.18	1,099.32	33.86	33.466				
5,600.00	5,508.21	5,520.15	5,508.21	24.61	14.51	-166.93	210.00	-255.00	1,153.45	1,118.99	34.45	33.477				
5,700.00	5,606.02	5,617.97	5,606.02	25.11	14.73	-167.16	210.00	-255.00	1,173.73	1,138.68	35.05	33.483				
5,800.00	5,703.84	5,715.78	5,703.84	25.60	14.95	-167.38	210.00	-255.00	1,194.03	1,158.38	35.66	33.484				
5,816.59	5,720.07	5,732.01	5,720.07	25.68	14.98	-167.42	210.00	-255.00	1,197.41	1,161.64	35.76	33.484				
5,900.00	5,801.77	5,813.72	5,801.77	26.09	15.17	-167.63	210.00	-255.00	1,213.77	1,177.50	36.27	33.467				
6,000.00	5,900.05	5,911.99	5,900.05	26.56	15.40	-167.85	210.00	-255.00	1,231.87	1,194.99	36.88	33.403				
6,100.00	5,998.63	6,010.57	5,998.63	27.01	15.64	-168.05	210.00	-255.00	1,248.30	1,210.81	37.49	33.295				
6,200.00	6,097.48	6,109.43	6,097.48	27.44	15.88	-168.22	210.00	-255.00	1,263.05	1,224.95	38.11	33.145				
6,300.00	6,196.59	6,208.53	6,196.59	27.86	16.12	-168.37	210.00	-255.00	1,276.12	1,237.40	38.72	32.956				
6,400.00	6,295.91	6,307.86	6,295.91	28.25	16.37	-168.50	210.00	-255.00	1,287.50	1,248.16	39.34	32.728				
6,500.00	6,395.42	6,407.37	6,395.42	28.63	16.63	-168.60	210.00	-255.00	1,297.17	1,257.22	39.96	32.465				
6,600.00	6,495.09	6,507.03	6,495.09	28.99	16.89	-168.69	210.00	-255.00	1,305.15	1,264.58	40.57	32.167				
6,700.00	6,594.88	6,606.83	6,594.88	29.33	17.15	-168.75	210.00	-255.00	1,311.42	1,270.23	41.19	31.838				
6,800.00	6,694.77	6,706.72	6,694.77	29.66	17.42	-168.80	210.00	-255.00	1,315.98	1,274.18	41.81	31.477				
6,900.00	6,794.73	6,806.67	6,794.73	29.97	17.69	-168.83	210.00	-255.00	1,318.84	1,276.41	42.42	31.088				
7,000.00	6,894.72	6,906.67	6,894.72	30.26	17.96	-168.85	210.00	-255.00	1,319.98	1,276.94	43.04	30.670				
7,016.59	6,911.31	6,923.26	6,911.31	30.31	18.00	-90.00	210.00	-255.00	1,320.00	1,276.86	43.14	30.599				
7,100.00	6,994.72	7,006.67	6,994.72	30.54	18.23	-90.00	210.00	-255.00	1,320.00	1,276.36	43.64	30.246				
7,200.00	7,094.72	7,106.67	7,094.72	30.82	18.51	-90.00	210.00	-255.00	1,320.00	1,275.75	44.25	29.831				
7,300.00	7,194.72	7,206.67	7,194.72	31.11	18.79	-90.00	210.00	-255.00	1,320.00	1,275.14	44.86	29.425				
7,400.00	7,294.72	7,306.67	7,294.72	31.39	19.08	-90.00	210.00	-255.00	1,320.00	1,274.53	45.47	29.027				
7,500.00	7,394.72	7,406.67	7,394.72	31.68	19.37	-90.00	210.00	-255.00	1,320.00	1,273.91	46.09	28.638				
7,600.00	7,494.72	7,506.67	7,494.72	31.96	19.65	-90.00	210.00	-255.00	1,320.00	1,273.29	46.71	28.258				
7,700.00	7,594.72	7,606.67	7,594.72	32.25	19.95	-90.00	210.00	-255.00	1,320.00	1,272.66	47.34	27.886				
7,800.00	7,694.72	7,706.67	7,694.72	32.54	20.24	-90.00	210.00	-255.00	1,320.00	1,272.04	47.96	27.522				
7,900.00	7,794.72	7,806.67	7,794.72	32.83	20.53	-90.00	210.00	-255.00	1,320.00	1,271.41	48.59	27.165				
8,000.00	7,894.72	7,906.67	7,894.72	33.13	20.83	-90.00	210.00	-255.00	1,320.00	1,270.78	49.22	26.817				
8,100.00	7,994.72	8,006.67	7,994.72	33.42	21.13	-90.00	210.00	-255.00	1,320.00	1,270.14	49.86	26.476				
8,200.00	8,094.72	8,106.67	8,094.72	33.72	21.43	-90.00	210.00	-255.00	1,320.00	1,269.51	50.49	26.142				
8,300.00	8,194.72	8,206.67	8,194.72	34.01	21.73	-90.00	210.00	-255.00	1,320.00	1,268.87	51.13	25.816				
8,400.00	8,294.72	8,306.67	8,294.72	34.31	22.04	-90.00	210.00	-255.00	1,320.00	1,268.23	51.77	25.496				
8,500.00	8,394.72	8,406.67	8,394.72	34.61	22.34	-90.00	210.00	-255.00	1,320.00	1,267.58	52.42	25.183				
8,600.00	8,494.72	8,506.67	8,494.72	34.91	22.65	-90.00	210.00	-255.00	1,320.00	1,266.94	53.06	24.877				
8,700.00	8,594.72	8,606.67	8,594.72	35.21	22.96	-90.00	210.00	-255.00	1,320.00	1,266.29	53.71	24.577				
8,800.00	8,694.72	8,706.67	8,694.72	35.52	23.27	-90.00	210.00	-255.00	1,320.00	1,265.64	54.36	24.284				
8,900.00	8,794.72	8,806.67	8,794.72	35.82	23.58	-90.00	210.00	-255.00	1,320.00	1,264.99	55.01	23.997				
9,000.00	8,894.72	8,906.67	8,894.72	36.12	23.90	-90.00	210.00	-255.00	1,320.00	1,264.34	55.66	23.716				
9,100.00	8,994.72	9,006.67	8,994.72	36.43	24.21	-90.00	210.00	-255.00	1,320.00	1,263.69	56.31	23.440				
9,200.00	9,094.72	9,106.67	9,094.72	36.73	24.53	-90.00	210.00	-255.00	1,320.00	1,263.03	56.97	23.170				
9,300.00	9,194.72	9,206.67	9,194.72	37.04	24.84	-90.00	210.00	-255.00	1,320.00	1,262.37	57.63	22.906				
9,400.00	9,294.72	9,306.67	9,294.72	37.35	25.16	-90.00	210.00	-255.00	1,320.00	1,261.71	58.29	22.647				
9,500.00	9,394.72	9,406.67	9,394.72	37.66	25.48	-90.00	210.00	-255.00	1,320.00	1,261.05	58.95	22.394				
9,600.00	9,494.72	9,506.67	9,494.72	37.97	25.80	-90.00	210.00	-255.00	1,320.00	1,260.39	59.61	22.145				
9,700.00	9,594.72	9,606.67	9,594.72	38.28	26.12	-90.00	210.00	-255.00	1,320.00	1,259.73	60.27	21.901				
9,800.00	9,694.72	9,706.67	9,694.72	38.59	26.44	-90.00	210.00	-255.00	1,320.00	1,259.07	60.93	21.663				
9,900.00	9,794.72	9,806.67	9,794.72	38.90	26.77	-90.00	210.00	-255.00	1,320.00	1,258.40	61.60	21.429				

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 133H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 10200-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Distance				Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.00	9,894.72	9,906.67	9,894.72	39.22	27.09	-90.00	210.00	-255.00	1,320.00	1,257.73	62.27	21.199	
10,100.00	9,994.72	10,006.67	9,994.72	39.53	27.41	-90.00	210.00	-255.00	1,320.00	1,257.07	62.93	20.974	
10,200.00	10,094.72	10,106.67	10,094.72	39.85	27.73	-90.00	210.00	-255.00	1,320.00	1,256.41	63.59	20.757	
10,300.00	10,194.72	10,206.67	10,194.72	40.16	27.88	-90.00	210.00	-255.00	1,320.00	1,255.91	64.09	20.597	
10,317.28	10,212.00	10,223.95	10,212.00	40.22	27.88	-90.00	210.00	-255.00	1,320.00	1,255.85	64.15	20.578	
10,350.00	10,244.70	10,256.65	10,244.70	40.31	27.88	90.09	210.00	-255.00	1,320.00	1,255.74	64.26	20.543	
10,400.00	10,294.43	10,306.47	10,294.52	40.46	27.89	90.30	209.95	-255.00	1,320.02	1,255.60	64.42	20.492	
10,450.00	10,343.54	10,356.95	10,344.90	40.59	27.89	90.58	207.07	-255.00	1,320.07	1,255.50	64.57	20.444	
10,500.00	10,391.64	10,408.02	10,395.42	40.72	27.89	90.86	199.65	-254.99	1,320.15	1,255.44	64.71	20.399	
10,550.00	10,438.37	10,459.70	10,445.66	40.84	27.88	91.13	187.60	-254.98	1,320.26	1,255.41	64.85	20.359	
10,600.00	10,483.39	10,512.01	10,495.18	40.94	27.88	91.40	170.84	-254.97	1,320.40	1,255.42	64.97	20.322	
10,650.00	10,526.33	10,564.93	10,543.53	41.04	27.87	91.66	149.36	-254.95	1,320.56	1,255.46	65.09	20.287	
10,700.00	10,566.89	10,618.46	10,590.21	41.13	27.88	91.90	123.19	-254.93	1,320.74	1,255.52	65.21	20.253	
10,750.00	10,604.74	10,672.60	10,634.72	41.20	27.88	92.13	92.42	-254.91	1,320.92	1,255.59	65.33	20.218	
10,800.00	10,639.61	10,727.31	10,676.56	41.27	27.90	92.35	57.19	-254.88	1,321.12	1,255.66	65.46	20.182	
10,850.00	10,671.22	10,782.57	10,715.20	41.33	27.93	92.54	17.73	-254.85	1,321.31	1,255.71	65.60	20.142	
10,900.00	10,699.33	10,838.33	10,750.17	41.39	27.96	92.72	-25.69	-254.81	1,321.50	1,255.74	65.76	20.096	
10,950.00	10,723.74	10,894.56	10,780.99	41.44	28.01	92.87	-72.69	-254.77	1,321.67	1,255.72	65.95	20.042	
11,000.00	10,744.25	10,951.18	10,807.22	41.49	28.08	93.00	-122.84	-254.73	1,321.82	1,255.66	66.16	19.979	
11,050.00	10,760.71	11,008.14	10,828.48	41.54	28.18	93.11	-175.66	-254.69	1,321.95	1,255.53	66.41	19.905	
11,100.00	10,773.00	11,065.37	10,844.46	41.60	28.32	93.18	-230.59	-254.65	1,322.04	1,255.34	66.70	19.820	
11,150.00	10,781.01	11,122.77	10,854.90	41.67	28.49	93.23	-287.01	-254.60	1,322.10	1,255.07	67.03	19.724	
11,200.00	10,784.70	11,180.28	10,859.65	41.75	28.70	93.25	-344.30	-254.56	1,322.13	1,254.74	67.39	19.618	
11,217.27	10,784.96	11,200.00	10,859.96	41.78	28.78	93.25	-364.01	-254.54	1,322.13	1,254.61	67.52	19.581	
11,300.00	10,784.96	11,282.72	10,859.96	41.95	29.15	93.25	-446.74	-254.47	1,322.13	1,253.96	68.17	19.396	
11,400.00	10,784.96	11,382.72	10,859.96	42.23	29.69	93.25	-546.74	-254.39	1,322.13	1,253.05	69.08	19.140	
11,500.00	10,784.96	11,482.72	10,859.96	42.58	30.30	93.25	-646.74	-254.31	1,322.13	1,251.99	70.14	18.850	
11,600.00	10,784.96	11,582.72	10,859.96	42.99	31.00	93.25	-746.74	-254.23	1,322.13	1,250.79	71.34	18.533	
11,700.00	10,784.96	11,682.72	10,859.96	43.47	31.77	93.25	-846.74	-254.15	1,322.13	1,249.45	72.68	18.192	
11,800.00	10,784.96	11,782.72	10,859.96	44.02	32.60	93.25	-946.74	-254.07	1,322.13	1,247.99	74.14	17.833	
11,900.00	10,784.96	11,882.72	10,859.96	44.63	33.50	93.25	-1,046.74	-253.99	1,322.13	1,246.41	75.72	17.461	
12,000.00	10,784.97	11,982.72	10,859.97	45.30	34.46	93.25	-1,146.74	-253.91	1,322.13	1,244.72	77.41	17.080	
12,100.00	10,784.97	12,082.72	10,859.97	46.03	35.47	93.25	-1,246.74	-253.83	1,322.13	1,242.93	79.20	16.693	
12,200.00	10,784.97	12,182.72	10,859.97	46.80	36.52	93.25	-1,346.74	-253.75	1,322.13	1,241.04	81.10	16.303	
12,300.00	10,784.97	12,282.72	10,859.97	47.63	37.62	93.25	-1,446.74	-253.67	1,322.13	1,239.06	83.08	15.915	
12,400.00	10,784.97	12,382.72	10,859.97	48.50	38.77	93.25	-1,546.74	-253.59	1,322.13	1,236.99	85.14	15.529	
12,500.00	10,784.97	12,482.72	10,859.97	49.41	39.94	93.25	-1,646.74	-253.51	1,322.13	1,234.85	87.28	15.148	
12,600.00	10,784.97	12,582.72	10,859.97	50.36	41.16	93.25	-1,746.74	-253.43	1,322.13	1,232.63	89.50	14.773	
12,700.00	10,784.97	12,682.72	10,859.97	51.35	42.40	93.25	-1,846.74	-253.35	1,322.13	1,230.35	91.78	14.406	
12,800.00	10,784.97	12,782.72	10,859.97	52.38	43.67	93.25	-1,946.74	-253.27	1,322.13	1,228.01	94.12	14.047	
12,900.00	10,784.97	12,882.72	10,859.97	53.44	44.97	93.25	-2,046.74	-253.19	1,322.13	1,225.61	96.52	13.698	
13,000.00	10,784.98	12,982.72	10,859.98	54.52	46.29	93.25	-2,146.74	-253.11	1,322.13	1,223.16	98.97	13.358	
13,100.00	10,784.98	13,082.72	10,859.98	55.64	47.63	93.25	-2,246.74	-253.03	1,322.13	1,220.66	101.48	13.029	
13,200.00	10,784.98	13,182.72	10,859.98	56.79	49.00	93.25	-2,346.74	-252.95	1,322.13	1,218.11	104.02	12.710	
13,300.00	10,784.98	13,282.72	10,859.98	57.96	50.38	93.25	-2,446.74	-252.87	1,322.13	1,215.52	106.61	12.401	
13,400.00	10,784.98	13,382.72	10,859.98	59.15	51.78	93.25	-2,546.74	-252.79	1,322.13	1,212.89	109.24	12.103	
13,500.00	10,784.98	13,482.72	10,859.98	60.37	53.19	93.25	-2,646.74	-252.71	1,322.13	1,210.22	111.91	11.814	
13,600.00	10,784.98	13,582.72	10,859.98	61.61	54.62	93.25	-2,746.74	-252.63	1,322.13	1,207.52	114.61	11.536	
13,700.00	10,784.98	13,682.72	10,859.98	62.87	56.06	93.25	-2,846.74	-252.55	1,322.13	1,204.79	117.35	11.267	
13,800.00	10,784.98	13,782.72	10,859.98	64.15	57.51	93.25	-2,946.74	-252.47	1,322.13	1,202.03	120.11	11.008	
13,900.00	10,784.98	13,882.72	10,859.98	65.44	58.98	93.25	-3,046.74	-252.39	1,322.13	1,199.24	122.90	10.758	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 133H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 10200-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	10,784.98	13,982.72	10,859.98	66.75	60.45	93.25	-3,146.74	-252.31	1,322.14	1,196.42	125.72	10.517	
14,100.00	10,784.99	14,082.72	10,859.99	68.08	61.94	93.25	-3,246.74	-252.23	1,322.14	1,193.58	128.56	10.284	
14,200.00	10,784.99	14,182.72	10,859.99	69.42	63.43	93.25	-3,346.74	-252.15	1,322.14	1,190.71	131.42	10.060	
14,300.00	10,784.99	14,282.72	10,859.99	70.78	64.94	93.25	-3,446.74	-252.07	1,322.14	1,187.83	134.31	9.844	
14,400.00	10,784.99	14,382.72	10,859.99	72.15	66.45	93.25	-3,546.74	-251.99	1,322.14	1,184.92	137.21	9.636	
14,500.00	10,784.99	14,482.72	10,859.99	73.53	67.96	93.25	-3,646.74	-251.81	1,322.14	1,182.00	140.13	9.435	
14,600.00	10,784.99	14,582.72	10,859.99	74.92	69.49	93.25	-3,746.74	-251.83	1,322.14	1,179.06	143.08	9.241	
14,700.00	10,784.99	14,682.72	10,859.99	76.33	71.02	93.25	-3,846.74	-251.75	1,322.14	1,176.10	146.03	9.054	
14,800.00	10,784.99	14,782.72	10,859.99	77.74	72.56	93.25	-3,946.74	-251.67	1,322.14	1,173.13	149.01	8.873	
14,900.00	10,784.99	14,882.72	10,859.99	79.17	74.10	93.25	-4,046.74	-251.59	1,322.14	1,170.14	152.00	8.699	
15,000.00	10,784.99	14,982.72	10,859.99	80.60	75.65	93.25	-4,146.74	-251.50	1,322.14	1,167.14	155.00	8.530	
15,100.00	10,785.00	15,082.72	10,860.00	82.04	77.20	93.25	-4,246.73	-251.42	1,322.14	1,164.12	158.01	8.367	
15,200.00	10,785.00	15,182.72	10,860.00	83.49	78.76	93.25	-4,346.73	-251.34	1,322.14	1,161.10	161.04	8.210	
15,300.00	10,785.00	15,282.72	10,860.00	84.95	80.32	93.25	-4,446.73	-251.26	1,322.14	1,158.06	164.08	8.058	
15,400.00	10,785.00	15,382.72	10,860.00	86.42	81.89	93.25	-4,546.73	-251.18	1,322.14	1,155.01	167.13	7.911	
15,500.00	10,785.00	15,482.72	10,860.00	87.89	83.46	93.25	-4,646.73	-251.10	1,322.14	1,151.95	170.19	7.769	
15,600.00	10,785.00	15,582.72	10,860.00	89.37	85.03	93.25	-4,746.73	-251.02	1,322.14	1,148.88	173.26	7.631	
15,618.32	10,785.00	15,601.05	10,860.00	89.65	85.32	93.25	-4,765.06	-251.01	1,322.14	1,148.31	173.82	7.606 SF	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design : Verna Rae - 203H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Hightside Toolface (°)	Offset Wellbore +N/S (usft)	Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	100.00	100.00	0.00	0.13	-76.41	29.00	-120.00	123.45	123.33	0.13	961.830	
200.00	200.00	200.00	200.00	0.18	0.49	-76.41	29.00	-120.00	123.45	122.79	0.67	185.406 CC, ES	
300.00	300.00	297.90	297.89	0.54	0.83	-76.37	29.29	-120.78	124.30	122.93	1.37	90.576	
400.00	400.00	395.74	395.70	0.90	1.18	-76.23	30.18	-123.13	126.85	124.77	2.08	61.031	
500.00	500.00	493.46	493.33	1.25	1.53	-76.01	31.65	-127.03	131.08	128.30	2.79	47.059	
600.00	600.00	591.02	590.71	1.61	1.89	-75.73	33.70	-132.48	137.02	133.52	3.49	39.231	
700.00	699.99	688.28	687.69	1.97	2.25	-154.36	36.32	-139.46	145.42	141.23	4.19	34.680	
800.00	799.96	787.37	786.41	2.31	2.62	-154.38	39.36	-147.53	156.42	151.53	4.90	31.933	
900.00	899.86	886.57	885.23	2.67	2.99	-154.65	42.41	-155.62	169.00	163.40	5.61	30.139	
1,000.00	999.88	985.55	983.83	3.03	3.37	-155.10	45.45	-163.70	183.16	176.84	6.32	28.992	
1,100.00	1,099.37	1,084.28	1,082.19	3.39	3.74	-155.68	48.48	-171.75	198.89	191.86	7.03	28.297	
1,200.00	1,198.90	1,182.73	1,180.26	3.76	4.12	-156.35	51.50	-179.78	216.23	208.48	7.74	27.933	
1,300.00	1,298.26	1,280.87	1,278.03	4.14	4.49	-157.07	54.51	-187.79	235.17	226.72	8.45	27.819	
1,400.00	1,397.40	1,378.67	1,375.45	4.52	4.86	-157.82	57.51	-195.76	255.74	246.57	9.17	27.899	
1,500.00	1,496.30	1,476.10	1,472.51	4.92	5.24	-158.58	60.50	-203.71	277.93	268.05	9.88	28.131	
1,600.00	1,594.93	1,573.13	1,569.17	5.33	5.61	-159.33	63.48	-211.63	301.77	291.18	10.59	28.486	
1,700.00	1,693.26	1,669.73	1,665.40	5.75	5.98	-160.06	66.45	-219.51	327.25	315.94	11.31	28.941	
1,800.00	1,791.25	1,765.87	1,761.18	6.19	6.34	-160.77	69.40	-227.35	354.37	342.35	12.02	29.478	
1,900.00	1,889.06	1,861.77	1,856.72	6.64	6.71	-161.50	72.34	-235.17	382.34	369.61	12.73	30.024	
2,000.00	1,986.88	1,957.67	1,952.25	7.10	7.08	-162.13	75.29	-242.99	410.36	396.92	13.45	30.516	
2,100.00	2,084.69	2,053.58	2,047.79	7.56	7.45	-162.68	78.23	-250.82	438.43	424.26	14.16	30.958	
2,200.00	2,182.51	2,149.48	2,143.33	8.03	7.81	-163.16	81.18	-258.64	466.52	451.64	14.88	31.358	
2,300.00	2,280.32	2,245.38	2,238.87	8.50	8.18	-163.59	84.12	-266.46	494.64	479.05	15.59	31.720	
2,400.00	2,378.13	2,341.28	2,334.40	8.97	8.55	-163.97	87.06	-274.29	522.79	506.48	16.31	32.050	
2,500.00	2,475.95	2,437.19	2,429.94	9.45	8.92	-164.32	90.01	-282.11	550.95	533.92	17.03	32.352	
2,600.00	2,573.76	2,533.09	2,525.48	9.92	9.28	-164.63	92.95	-289.93	579.13	561.38	17.75	32.629	
2,700.00	2,671.58	2,628.99	2,621.01	10.40	9.65	-164.91	95.90	-297.75	607.33	588.86	18.47	32.884	
2,800.00	2,769.39	2,724.89	2,716.55	10.88	10.02	-165.17	98.84	-305.58	635.54	616.35	19.19	33.120	
2,900.00	2,867.21	2,820.79	2,812.09	11.37	10.39	-165.40	101.78	-313.40	663.75	643.84	19.91	33.338	
3,000.00	2,965.02	2,916.70	2,907.63	11.85	10.75	-165.62	104.73	-321.22	691.98	671.35	20.63	33.541	
3,100.00	3,062.84	3,012.60	3,003.16	12.33	11.12	-165.82	107.67	-329.04	720.22	698.86	21.35	33.729	
3,200.00	3,160.65	3,108.50	3,098.70	12.82	11.49	-166.00	110.62	-336.87	748.46	726.39	22.07	33.905	
3,300.00	3,258.47	3,204.40	3,194.24	13.31	11.86	-166.17	113.56	-344.69	776.71	753.91	22.80	34.070	
3,400.00	3,356.28	3,300.30	3,289.77	13.79	12.23	-166.33	116.51	-352.51	804.97	781.45	23.52	34.225	
3,500.00	3,454.10	3,403.79	3,385.31	14.28	12.62	-166.48	119.45	-360.34	833.23	808.96	24.27	34.330	
3,600.00	3,551.91	3,507.89	3,480.85	14.77	13.02	-166.61	122.39	-368.16	861.49	836.47	25.02	34.426	
3,700.00	3,649.73	3,588.01	3,576.39	15.26	13.33	-166.74	125.34	-375.98	889.76	864.07	25.69	34.634	
3,800.00	3,747.54	3,683.91	3,671.92	15.75	13.70	-166.86	128.28	-383.80	918.04	891.62	26.41	34.756	
3,900.00	3,845.36	3,779.81	3,767.46	16.24	14.07	-166.98	131.23	-391.63	946.31	919.18	27.14	34.870	
4,000.00	3,943.17	3,875.72	3,863.00	16.73	14.43	-167.09	134.17	-399.45	974.59	946.73	27.86	34.979	
4,100.00	4,040.99	3,971.62	3,958.54	17.22	14.80	-167.19	137.11	-407.27	1,002.88	974.29	28.59	35.082	
4,200.00	4,138.80	4,067.52	4,054.07	17.71	15.17	-167.28	140.06	-415.10	1,031.16	1,001.85	29.31	35.179	
4,300.00	4,236.62	4,163.42	4,149.61	18.20	15.54	-167.37	143.00	-422.92	1,059.45	1,029.42	30.04	35.272	
4,400.00	4,334.43	4,259.33	4,245.15	18.69	15.91	-167.46	145.95	-430.74	1,087.75	1,056.98	30.76	35.361	
4,500.00	4,432.24	4,355.23	4,340.68	19.19	16.28	-167.54	148.89	-438.56	1,116.04	1,084.55	31.49	35.445	
4,600.00	4,530.06	4,451.13	4,436.22	19.68	16.64	-167.62	151.83	-446.39	1,144.33	1,112.12	32.21	35.525	
4,700.00	4,627.87	4,547.03	4,531.76	20.17	17.01	-167.69	154.78	-454.21	1,172.63	1,139.69	32.94	35.601	
4,800.00	4,725.69	4,642.93	4,627.30	20.66	17.38	-167.76	157.72	-462.03	1,200.93	1,167.27	33.66	35.674	
4,900.00	4,823.50	4,738.84	4,722.83	21.16	17.75	-167.83	160.67	-469.85	1,229.23	1,194.84	34.39	35.744	
5,000.00	4,921.32	4,834.74	4,818.37	21.65	18.12	-167.89	163.61	-477.68	1,257.53	1,222.42	35.12	35.811	
5,100.00	5,019.13	4,930.64	4,913.91	22.14	18.48	-167.96	166.55	-485.50	1,285.84	1,249.99	35.84	35.875	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 203H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,116.95	5,026.54	5,009.44	22.64	18.85	-168.01	169.50	-493.32	1,314.14	1,277.57	36.57	35.937	
5,300.00	5,214.76	5,122.44	5,104.98	23.13	19.22	-168.07	172.44	-501.15	1,342.45	1,305.15	37.29	35.996	
5,400.00	5,312.58	5,218.35	5,200.52	23.63	19.59	-168.12	175.39	-508.97	1,370.75	1,332.73	38.02	36.052	
5,500.00	5,410.39	5,314.25	5,296.06	24.12	19.96	-168.18	178.33	-516.79	1,399.06	1,360.31	38.75	36.107	
5,600.00	5,508.21	5,410.15	5,391.59	24.61	20.32	-168.23	181.27	-524.61	1,427.37	1,387.90	39.47	36.159	
5,700.00	5,606.02	5,506.05	5,487.13	25.11	20.69	-168.27	184.22	-532.44	1,455.68	1,415.48	40.20	36.209	
5,800.00	5,703.84	5,601.96	5,582.67	25.60	21.06	-168.32	187.16	-540.26	1,483.99	1,443.06	40.93	36.258	
5,816.59	5,720.07	5,617.87	5,598.52	25.68	21.12	-168.33	187.65	-541.56	1,488.69	1,447.64	41.05	36.265	
5,900.00	5,801.77	5,701.98	5,678.37	26.09	21.45	-168.41	190.11	-548.10	1,511.73	1,470.06	41.67	36.279	
6,000.00	5,900.05	5,794.55	5,774.53	26.56	21.80	-168.49	193.07	-555.97	1,537.85	1,495.47	42.38	36.286	
6,100.00	5,998.63	5,891.51	5,871.12	27.01	22.17	-168.55	196.05	-563.88	1,562.31	1,519.21	43.11	36.244	
6,200.00	6,097.48	6,019.83	5,999.06	27.44	22.66	-168.60	199.55	-573.18	1,584.25	1,540.22	44.03	35.984	
6,300.00	6,196.59	6,152.79	6,131.81	27.86	23.14	-168.67	202.12	-580.00	1,602.40	1,557.45	44.95	35.648	
6,400.00	6,295.91	6,287.06	6,266.01	28.25	23.62	-168.76	203.61	-583.95	1,616.71	1,570.85	45.86	35.256	
6,500.00	6,395.42	6,416.48	6,395.42	28.63	24.06	-168.85	204.00	-585.00	1,627.17	1,580.46	46.70	34.839	
6,600.00	6,495.09	6,516.14	6,495.09	28.99	24.39	-168.92	204.00	-585.00	1,635.15	1,587.75	47.40	34.498	
6,700.00	6,594.88	6,615.94	6,594.88	29.33	24.72	-168.98	204.00	-585.00	1,641.43	1,593.34	48.09	34.133	
6,800.00	6,694.77	6,715.83	6,694.77	29.66	25.05	-169.02	204.00	-585.00	1,645.99	1,597.22	48.78	33.745	
6,900.00	6,794.73	6,815.79	6,794.73	29.97	25.38	-169.04	204.00	-585.00	1,648.85	1,599.39	49.46	33.337	
7,000.00	6,894.72	6,915.78	6,894.72	30.26	25.71	-169.05	204.00	-585.00	1,649.99	1,599.85	50.14	32.807	
7,016.59	6,911.31	6,932.37	6,911.31	30.31	25.77	-90.21	204.00	-585.00	1,650.01	1,599.76	50.25	32.835	
7,100.00	6,994.72	7,015.78	6,994.72	30.54	26.04	-90.21	204.00	-585.00	1,650.01	1,599.20	50.81	32.475	
7,200.00	7,094.72	7,115.78	7,094.72	30.82	26.38	-90.21	204.00	-585.00	1,650.01	1,598.53	51.48	32.054	
7,300.00	7,194.72	7,215.78	7,194.72	31.11	26.71	-90.21	204.00	-585.00	1,650.01	1,597.87	52.15	31.642	
7,400.00	7,294.72	7,315.78	7,294.72	31.39	27.05	-90.21	204.00	-585.00	1,650.01	1,597.19	52.82	31.241	
7,500.00	7,394.72	7,415.78	7,394.72	31.68	27.39	-90.21	204.00	-585.00	1,650.01	1,596.52	53.49	30.848	
7,600.00	7,494.72	7,515.78	7,494.72	31.96	27.72	-90.21	204.00	-585.00	1,650.01	1,595.85	54.16	30.465	
7,700.00	7,594.72	7,615.78	7,594.72	32.25	28.06	-90.21	204.00	-585.00	1,650.01	1,595.18	54.83	30.091	
7,800.00	7,694.72	7,715.78	7,694.72	32.54	28.40	-90.21	204.00	-585.00	1,650.01	1,594.50	55.51	29.725	
7,900.00	7,794.72	7,815.78	7,794.72	32.83	28.73	-90.21	204.00	-585.00	1,650.01	1,593.82	56.19	29.367	
8,000.00	7,894.72	7,915.78	7,894.72	33.13	29.07	-90.21	204.00	-585.00	1,650.01	1,593.15	56.86	29.017	
8,100.00	7,994.72	8,015.78	7,994.72	33.42	29.41	-90.21	204.00	-585.00	1,650.01	1,592.47	57.54	28.675	
8,200.00	8,094.72	8,115.78	8,094.72	33.72	29.75	-90.21	204.00	-585.00	1,650.01	1,591.79	58.22	28.341	
8,300.00	8,194.72	8,215.78	8,194.72	34.01	30.09	-90.21	204.00	-585.00	1,650.01	1,591.11	58.90	28.014	
8,400.00	8,294.72	8,315.78	8,294.72	34.31	30.43	-90.21	204.00	-585.00	1,650.01	1,590.43	59.58	27.694	
8,500.00	8,394.72	8,415.78	8,394.72	34.61	30.77	-90.21	204.00	-585.00	1,650.01	1,589.75	60.26	27.381	
8,600.00	8,494.72	8,515.78	8,494.72	34.91	31.11	-90.21	204.00	-585.00	1,650.01	1,589.07	60.94	27.074	
8,700.00	8,594.72	8,615.78	8,594.72	35.21	31.46	-90.21	204.00	-585.00	1,650.01	1,588.38	61.63	26.774	
8,800.00	8,694.72	8,715.78	8,694.72	35.52	31.80	-90.21	204.00	-585.00	1,650.01	1,587.70	62.31	26.480	
8,900.00	8,794.72	8,815.78	8,794.72	35.82	32.14	-90.21	204.00	-585.00	1,650.01	1,587.01	63.00	26.192	
9,000.00	8,894.72	8,915.78	8,894.72	36.12	32.48	-90.21	204.00	-585.00	1,650.01	1,586.33	63.68	25.910	
9,100.00	8,994.72	9,015.78	8,994.72	36.43	32.83	-90.21	204.00	-585.00	1,650.01	1,585.64	64.37	25.634	
9,200.00	9,094.72	9,115.78	9,094.72	36.73	33.17	-90.21	204.00	-585.00	1,650.01	1,584.96	65.05	25.364	
9,300.00	9,194.72	9,215.78	9,194.72	37.04	33.51	-90.21	204.00	-585.00	1,650.01	1,584.27	65.74	25.098	
9,400.00	9,294.72	9,315.78	9,294.72	37.35	33.86	-90.21	204.00	-585.00	1,650.01	1,583.58	66.43	24.839	
9,500.00	9,394.72	9,415.78	9,394.72	37.66	34.20	-90.21	204.00	-585.00	1,650.01	1,582.89	67.12	24.584	
9,600.00	9,494.72	9,515.78	9,494.72	37.97	34.54	-90.21	204.00	-585.00	1,650.01	1,582.20	67.81	24.334	
9,700.00	9,594.72	9,615.78	9,594.72	38.28	34.89	-90.21	204.00	-585.00	1,650.01	1,581.51	68.50	24.089	
9,800.00	9,694.72	9,715.78	9,694.72	38.59	35.23	-90.21	204.00	-585.00	1,650.01	1,580.82	69.19	23.848	
9,900.00	9,794.72	9,815.78	9,794.72	38.90	35.58	-90.21	204.00	-585.00	1,650.01	1,580.13	69.88	23.613	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 203H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG				Distance								Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,894.72	9,915.78	9,894.72	39.22	35.93	-90.21	204.00	-585.00	1,650.01	1,579.44	70.57	23.381		
10,100.00	9,994.72	10,015.78	9,994.72	39.53	36.27	-90.21	204.00	-585.00	1,650.01	1,578.75	71.26	23.154		
10,200.00	10,094.72	10,115.78	10,094.72	39.85	36.62	-90.21	204.00	-585.00	1,650.01	1,578.06	71.95	22.932		
10,300.00	10,194.72	10,215.78	10,194.72	40.16	36.96	-90.21	204.00	-585.00	1,650.01	1,577.36	72.65	22.713		
10,317.28	10,212.00	10,233.06	10,212.00	40.22	37.02	-90.21	204.00	-585.00	1,650.01	1,577.24	72.77	22.676		
10,350.00	10,244.70	10,265.76	10,244.70	40.31	37.14	89.87	204.00	-585.00	1,650.01	1,577.02	72.99	22.606		
10,390.51	10,285.03	10,306.09	10,285.03	40.43	37.28	90.00	204.00	-585.00	1,650.00	1,576.75	73.26	22.523		
10,400.00	10,294.43	10,315.49	10,294.43	40.46	37.31	90.04	204.00	-585.00	1,650.00	1,576.68	73.32	22.504		
10,450.00	10,343.54	10,364.59	10,343.54	40.59	37.48	90.36	204.00	-585.00	1,650.04	1,576.39	73.64	22.405		
10,500.00	10,391.64	10,413.12	10,392.06	40.72	37.65	90.80	203.91	-585.00	1,650.18	1,576.22	73.96	22.312		
10,550.00	10,438.37	10,463.66	10,442.49	40.84	37.81	91.29	200.80	-585.00	1,650.46	1,576.20	74.27	22.223		
10,600.00	10,483.39	10,515.65	10,493.87	40.94	37.97	91.78	192.97	-584.99	1,650.88	1,576.31	74.56	22.140		
10,650.00	10,526.33	10,569.20	10,545.83	41.04	38.12	92.27	180.08	-584.98	1,651.41	1,576.56	74.85	22.062		
10,700.00	10,566.89	10,624.42	10,597.90	41.13	38.27	92.74	161.77	-584.97	1,652.06	1,576.93	75.13	21.989		
10,750.00	10,604.74	10,681.40	10,649.53	41.20	38.42	93.21	137.71	-584.95	1,652.79	1,577.39	75.40	21.921		
10,800.00	10,639.61	10,740.22	10,700.03	41.27	38.55	93.65	107.63	-584.92	1,653.59	1,577.93	75.66	21.856		
10,850.00	10,671.22	10,800.91	10,748.64	41.33	38.67	94.08	71.33	-584.89	1,654.43	1,578.53	75.91	21.795		
10,900.00	10,699.33	10,863.48	10,794.45	41.39	38.78	94.48	28.74	-584.86	1,655.29	1,579.13	76.16	21.735		
10,950.00	10,723.74	10,927.91	10,836.47	41.44	38.87	94.84	-20.04	-584.82	1,656.11	1,579.71	76.40	21.676		
11,000.00	10,744.25	10,994.08	10,873.65	41.49	38.97	95.16	-74.74	-584.78	1,656.88	1,580.22	76.66	21.614		
11,050.00	10,760.71	11,061.83	10,904.92	41.54	39.06	95.42	-134.79	-584.73	1,657.55	1,580.63	76.93	21.547		
11,100.00	10,773.00	11,130.92	10,929.29	41.60	39.19	95.64	-199.40	-584.68	1,658.10	1,580.88	77.22	21.473		
11,150.00	10,781.01	11,201.05	10,945.90	41.67	39.35	95.79	-267.49	-584.62	1,658.49	1,580.96	77.53	21.392		
11,200.00	10,784.70	11,271.85	10,954.11	41.75	39.54	95.87	-337.77	-584.57	1,658.71	1,580.84	77.87	21.301		
11,217.27	10,784.96	11,296.40	10,954.92	41.78	39.62	95.88	-362.30	-584.55	1,658.74	1,580.75	77.99	21.268		
11,300.00	10,784.96	11,381.10	10,954.96	41.95	39.90	95.88	-447.00	-584.48	1,658.74	1,580.22	78.52	21.124		
11,400.00	10,784.96	11,481.10	10,954.96	42.23	40.29	95.88	-547.00	-584.40	1,658.74	1,579.47	79.27	20.924		
11,500.00	10,784.96	11,581.10	10,954.96	42.58	40.74	95.88	-647.00	-584.32	1,658.74	1,578.58	80.16	20.694		
11,600.00	10,784.96	11,681.10	10,954.96	42.99	41.26	95.88	-747.00	-584.24	1,658.74	1,577.58	81.16	20.437		
11,700.00	10,784.96	11,781.10	10,954.96	43.47	41.83	95.88	-847.00	-584.16	1,658.74	1,576.45	82.29	20.156		
11,800.00	10,784.96	11,881.10	10,954.96	44.02	42.46	95.88	-947.00	-584.08	1,658.74	1,575.20	83.54	19.856		
11,900.00	10,784.96	11,981.10	10,954.96	44.63	43.14	95.88	-1,047.00	-584.00	1,658.74	1,573.84	84.90	19.538		
12,000.00	10,784.97	12,081.10	10,954.97	45.30	43.88	95.88	-1,147.00	-583.92	1,658.74	1,572.38	86.36	19.207		
12,100.00	10,784.97	12,181.10	10,954.97	46.03	44.66	95.88	-1,247.00	-583.84	1,658.74	1,570.81	87.93	18.864		
12,200.00	10,784.97	12,281.10	10,954.97	46.80	45.50	95.88	-1,347.00	-583.76	1,658.74	1,569.15	89.59	18.515		
12,300.00	10,784.97	12,381.10	10,954.97	47.63	46.37	95.88	-1,447.00	-583.67	1,658.74	1,567.40	91.34	18.159		
12,400.00	10,784.97	12,481.10	10,954.97	48.50	47.29	95.88	-1,547.00	-583.59	1,658.74	1,565.56	93.18	17.801		
12,500.00	10,784.97	12,581.10	10,954.97	49.41	48.25	95.88	-1,647.00	-583.51	1,658.74	1,563.64	95.10	17.442		
12,600.00	10,784.97	12,681.10	10,954.97	50.36	49.25	95.88	-1,747.00	-583.43	1,658.74	1,561.65	97.09	17.084		
12,700.00	10,784.97	12,781.10	10,954.97	51.35	50.28	95.88	-1,847.00	-583.35	1,658.74	1,559.58	99.16	16.728		
12,800.00	10,784.97	12,881.10	10,954.97	52.38	51.34	95.88	-1,947.00	-583.27	1,658.74	1,557.45	101.29	16.376		
12,900.00	10,784.97	12,981.10	10,954.97	53.44	52.44	95.88	-2,047.00	-583.19	1,658.74	1,555.25	103.49	16.028		
13,000.00	10,784.98	13,081.10	10,954.98	54.52	53.57	95.88	-2,147.00	-583.11	1,658.74	1,553.00	105.74	15.687		
13,100.00	10,784.98	13,181.10	10,954.98	55.64	54.72	95.88	-2,247.00	-583.03	1,658.74	1,550.69	108.05	15.352		
13,200.00	10,784.98	13,281.10	10,954.98	56.79	55.90	95.88	-2,347.00	-582.95	1,658.74	1,548.33	110.41	15.023		
13,300.00	10,784.98	13,381.10	10,954.98	57.96	57.10	95.88	-2,447.00	-582.87	1,658.74	1,545.92	112.82	14.702		
13,400.00	10,784.98	13,481.10	10,954.98	59.15	58.33	95.88	-2,547.00	-582.79	1,658.74	1,543.47	115.28	14.389		
13,500.00	10,784.98	13,581.10	10,954.98	60.37	59.57	95.88	-2,647.00	-582.71	1,658.74	1,540.97	117.77	14.084		
13,600.00	10,784.98	13,681.10	10,954.98	61.61	60.84	95.88	-2,747.00	-582.63	1,658.74	1,538.43	120.31	13.787		
13,700.00	10,784.98	13,781.10	10,954.98	62.87	62.13	95.88	-2,847.00	-582.55	1,658.74	1,535.86	122.88	13.498		
13,800.00	10,784.98	13,881.10	10,954.98	64.15	63.43	95.88	-2,947.00	-582.47	1,658.74	1,533.25	125.49	13.218		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 203H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,784.98	13,981.10	10,954.98	65.44	64.75	95.88	-3,047.00	-582.39	1,658.74	1,530.61	128.14	12.945	
14,000.00	10,784.98	14,081.10	10,954.98	66.75	66.09	95.88	-3,147.00	-582.31	1,658.74	1,527.93	130.81	12.681	
14,100.00	10,784.99	14,181.10	10,954.99	68.08	67.44	95.88	-3,247.00	-582.23	1,658.74	1,525.23	133.51	12.424	
14,200.00	10,784.99	14,281.10	10,954.99	69.42	68.81	95.88	-3,347.00	-582.15	1,658.74	1,522.50	136.24	12.175	
14,300.00	10,784.99	14,381.10	10,954.99	70.78	70.19	95.88	-3,447.00	-582.07	1,658.74	1,519.75	139.00	11.934	
14,400.00	10,784.99	14,481.10	10,954.99	72.15	71.58	95.88	-3,547.00	-581.99	1,658.74	1,516.97	141.78	11.700	
14,500.00	10,784.99	14,581.10	10,954.99	73.53	72.98	95.88	-3,647.00	-581.91	1,658.74	1,514.16	144.58	11.473	
14,600.00	10,784.99	14,681.10	10,954.99	74.92	74.39	95.88	-3,747.00	-581.83	1,658.75	1,511.34	147.41	11.253	
14,700.00	10,784.99	14,781.10	10,954.99	76.33	75.81	95.88	-3,847.00	-581.75	1,658.75	1,508.50	150.25	11.040	
14,800.00	10,784.99	14,881.10	10,954.99	77.74	77.25	95.88	-3,947.00	-581.67	1,658.75	1,505.63	153.11	10.833	
14,900.00	10,784.99	14,981.10	10,954.99	79.17	78.69	95.88	-4,047.00	-581.59	1,658.75	1,502.75	156.00	10.633	
15,000.00	10,784.99	15,081.10	10,954.99	80.60	80.14	95.88	-4,147.00	-581.51	1,658.75	1,499.85	158.90	10.439	
15,100.00	10,785.00	15,181.10	10,955.00	82.04	81.60	95.88	-4,247.00	-581.43	1,658.75	1,496.93	161.81	10.251	
15,200.00	10,785.00	15,281.10	10,955.00	83.49	83.07	95.88	-4,347.00	-581.35	1,658.75	1,494.00	164.74	10.069	
15,300.00	10,785.00	15,381.10	10,955.00	84.95	84.54	95.88	-4,447.00	-581.27	1,658.75	1,491.06	167.69	9.892	
15,400.00	10,785.00	15,481.10	10,955.00	86.42	86.02	95.88	-4,547.00	-581.19	1,658.75	1,488.10	170.65	9.720	
15,500.00	10,785.00	15,581.10	10,955.00	87.89	87.51	95.88	-4,647.00	-581.11	1,658.75	1,485.13	173.62	9.554	
15,600.00	10,785.00	15,681.10	10,955.00	89.37	89.01	95.88	-4,747.00	-581.03	1,658.75	1,482.14	176.61	9.392	
15,618.32	10,785.00	15,699.42	10,955.00	89.65	89.28	95.88	-4,765.32	-581.01	1,658.75	1,481.59	177.15	9.363 SF	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design : Verna Rae - 204H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: -4-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Distance					Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Hightside Toolface (°)	Offset +N/S (usft)	Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
100.00	100.00	100.00	100.00	0.00	0.13	0.00	31.00	0.00	31.00	30.87	0.13	241.520 CC	
200.00	200.00	199.99	199.99	0.18	0.49	0.00	31.00	0.00	31.00	30.33	0.67	46.577	
300.00	300.00	299.86	299.85	0.54	0.84	1.68	31.22	0.91	31.24	29.86	1.37	22.727	
400.00	400.00	399.65	399.61	0.90	1.19	6.30	31.86	3.52	32.05	29.96	2.09	15.342	
500.00	500.00	499.33	499.19	1.25	1.55	13.34	32.90	7.80	33.82	31.01	2.81	12.048	
600.00	600.00	598.82	598.49	1.61	1.92	21.82	34.35	13.75	37.03	33.50	3.53	10.498	
700.00	699.99	701.85	697.51	1.97	2.30	-49.16	36.20	21.37	41.54	37.28	4.25	9.762	
800.00	799.96	802.04	796.94	2.31	2.67	-43.70	38.26	29.82	46.03	41.06	4.97	9.264	
900.00	899.86	902.14	896.46	2.67	3.05	-40.51	40.32	38.28	49.52	43.83	5.69	8.708	
1,000.00	999.88	1,002.17	996.04	3.03	3.43	-38.95	42.38	46.74	51.77	45.36	6.41	8.078	
1,100.00	1,099.37	1,102.18	1,095.66	3.39	3.81	-38.68	44.45	55.21	52.69	45.55	7.14	7.382	
1,200.00	1,198.90	1,202.18	1,195.27	3.76	4.19	-39.61	46.51	63.68	52.25	44.37	7.87	6.636	
1,300.00	1,298.26	1,302.22	1,294.85	4.14	4.57	-41.86	48.57	72.14	50.51	41.89	8.62	5.860	
1,400.00	1,397.40	1,402.32	1,394.38	4.52	4.95	-45.74	50.63	80.60	47.62	38.23	9.38	5.076	
1,500.00	1,496.30	1,502.51	1,493.81	4.92	5.34	-51.84	52.69	89.05	43.87	33.70	10.17	4.315	
1,600.00	1,594.93	1,602.82	1,593.12	5.33	5.72	-61.12	54.74	97.50	39.83	28.84	10.99	3.625	
1,700.00	1,693.26	1,696.72	1,692.28	5.75	6.08	-74.68	56.80	105.93	36.54	24.73	11.81	3.093	
1,776.75	1,768.49	1,772.99	1,768.26	6.09	6.37	-88.13	58.37	112.38	35.54	23.08	12.46	2.852	
1,800.00	1,791.25	1,803.93	1,791.25	6.19	6.49	-92.58	58.85	114.34	35.65	22.97	12.68	2.812 ES	
1,900.00	1,889.06	1,895.33	1,890.13	6.64	6.84	-110.85	60.89	122.74	38.56	25.18	13.39	2.881	
2,000.00	1,986.88	2,005.42	1,989.00	7.10	7.26	-125.36	62.94	131.15	44.73	30.64	14.09	3.174	
2,100.00	2,084.69	2,106.17	2,087.88	7.56	7.65	-135.89	64.99	139.55	53.03	38.28	14.75	3.595	
2,200.00	2,182.51	2,206.92	2,186.75	8.03	8.03	-143.41	67.03	147.96	62.62	47.20	15.43	4.059	
2,300.00	2,280.32	2,307.66	2,285.63	8.50	8.42	-148.87	69.08	156.36	73.00	56.88	16.12	4.529	
2,400.00	2,378.13	2,408.41	2,384.50	8.97	8.80	-152.95	71.13	164.77	83.87	67.04	16.82	4.986	
2,500.00	2,475.95	2,509.16	2,483.38	9.45	9.19	-156.08	73.17	173.17	95.06	77.52	17.53	5.421	
2,600.00	2,573.76	2,590.10	2,582.25	9.92	9.50	-158.55	75.22	181.58	106.47	88.29	18.18	5.856	
2,700.00	2,671.58	2,689.35	2,681.13	10.40	9.88	-160.54	77.27	189.98	118.04	99.14	18.90	6.244	
2,800.00	2,769.39	2,788.60	2,780.00	10.88	10.26	-162.18	79.31	198.39	129.73	110.10	19.63	6.609	
2,900.00	2,867.21	2,887.85	2,878.88	11.37	10.64	-163.54	81.36	206.79	141.50	121.15	20.36	6.951	
3,000.00	2,965.02	2,987.11	2,977.75	11.85	11.02	-164.69	83.41	215.20	153.34	132.26	21.09	7.271	
3,100.00	3,062.84	3,086.36	3,076.63	12.33	11.40	-165.68	85.46	223.60	165.24	143.42	21.82	7.572	
3,200.00	3,160.65	3,185.61	3,175.50	12.82	11.78	-166.53	87.50	232.01	177.17	154.62	22.56	7.855	
3,300.00	3,258.47	3,284.87	3,274.38	13.31	12.16	-167.28	89.55	240.41	189.14	165.85	23.29	8.121	
3,400.00	3,356.28	3,384.12	3,373.25	13.79	12.54	-167.94	91.60	248.82	201.14	177.11	24.03	8.371	
3,500.00	3,454.10	3,483.37	3,472.13	14.28	12.92	-168.52	93.64	257.22	213.16	188.39	24.77	8.607	
3,600.00	3,551.91	3,582.62	3,571.01	14.77	13.30	-169.04	95.69	265.62	225.20	199.69	25.50	8.830	
3,700.00	3,649.73	3,681.88	3,669.88	15.26	13.68	-169.51	97.74	274.03	237.25	211.01	26.24	9.041	
3,800.00	3,747.54	3,781.13	3,768.76	15.75	14.07	-169.93	99.78	282.43	249.33	222.34	26.98	9.240	
3,900.00	3,845.36	3,880.38	3,867.63	16.24	14.45	-170.32	101.83	290.84	261.41	233.68	27.72	9.429	
4,000.00	3,943.17	3,979.64	3,966.51	16.73	14.83	-170.67	103.88	299.24	273.50	245.04	28.46	9.609	
4,100.00	4,040.99	4,078.89	4,065.38	17.22	15.21	-170.99	105.92	307.65	285.60	256.40	29.20	9.779	
4,200.00	4,138.80	4,178.14	4,164.26	17.71	15.59	-171.28	107.97	316.05	297.71	267.77	29.95	9.942	
4,300.00	4,236.62	4,277.39	4,263.13	18.20	15.97	-171.55	110.02	324.46	309.83	279.14	30.69	10.096	
4,400.00	4,334.43	4,376.65	4,362.01	18.69	16.35	-171.81	112.06	332.86	321.95	290.53	31.43	10.244	
4,500.00	4,432.24	4,475.90	4,460.88	19.19	16.73	-172.04	114.11	341.27	334.08	301.91	32.17	10.384	
4,600.00	4,530.06	4,575.15	4,559.76	19.68	17.11	-172.25	116.16	349.67	346.22	313.30	32.91	10.519	
4,700.00	4,627.87	4,674.41	4,658.63	20.17	17.49	-172.46	118.21	358.08	358.36	324.70	33.66	10.647	
4,800.00	4,725.69	4,773.66	4,757.51	20.66	17.87	-172.64	120.25	366.48	370.50	336.10	34.40	10.770	
4,900.00	4,823.50	4,872.91	4,856.38	21.16	18.25	-172.82	122.30	374.89	382.65	347.50	35.14	10.886	
5,000.00	4,921.32	4,972.16	4,955.26	21.65	18.63	-172.99	124.35	383.29	394.80	358.91	35.89	11.001	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 204H - OH - Prelim Plan A												Offset Site Error:	0.00 usft	
Survey Program: 4-MWD - OWSG			Distance									Offset Well Error:		
Reference		Offset		Semi Major Axis			Between Centres (usft)				Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Centre +E/W (usft)	Centres (usft)	Ellipses (usft)				
5,100.00	5,019.13	5,071.42	5,054.13	22.14	19.01	-173.14	126.39	391.70	406.95	370.32	36.63	11.110		
5,200.00	5,116.95	5,170.67	5,153.01	22.64	19.40	-173.29	128.44	400.10	419.11	381.73	37.37	11.214		
5,300.00	5,214.76	5,269.92	5,251.88	23.13	19.78	-173.43	130.49	408.51	431.27	393.15	38.12	11.314		
5,400.00	5,312.58	5,369.18	5,350.76	23.63	20.16	-173.56	132.53	416.91	443.43	404.57	38.86	11.411		
5,500.00	5,410.39	5,468.43	5,449.63	24.12	20.54	-173.68	134.58	425.32	455.59	415.99	39.60	11.503		
5,600.00	5,508.21	5,567.68	5,548.51	24.61	20.92	-173.80	136.63	433.72	467.76	427.41	40.35	11.593		
5,700.00	5,606.02	5,666.93	5,647.38	25.11	21.30	-173.91	138.67	442.13	479.92	438.83	41.09	11.679		
5,800.00	5,703.84	5,766.19	5,746.26	25.60	21.68	-174.02	140.72	450.53	492.09	450.25	41.84	11.762		
5,816.59	5,720.07	5,782.66	5,762.67	25.68	21.74	-174.03	141.06	451.93	494.11	452.15	41.96	11.776		
5,900.00	5,801.77	5,865.51	5,845.20	26.09	22.06	-174.12	142.77	458.94	503.66	461.08	42.58	11.828		
6,000.00	5,900.05	5,965.02	5,944.33	26.56	22.44	-174.20	144.82	467.37	513.53	470.21	43.32	11.854		
6,100.00	5,998.63	6,064.68	6,043.62	27.01	22.82	-174.26	146.88	475.81	521.67	477.61	44.06	11.840		
6,200.00	6,097.48	6,164.48	6,143.03	27.44	23.21	-174.29	148.93	484.26	528.08	483.28	44.80	11.789		
6,300.00	6,196.59	6,264.37	6,242.54	27.86	23.59	-174.31	150.99	492.72	532.75	487.23	45.53	11.702		
6,400.00	6,295.91	6,364.32	6,342.12	28.25	23.97	-174.30	153.06	501.18	535.69	489.44	46.26	11.581		
6,500.00	6,395.42	6,464.31	6,441.73	28.63	24.36	-174.27	155.12	509.65	536.90	489.91	46.98	11.428		
6,600.00	6,495.09	6,564.31	6,541.35	28.99	24.74	-174.22	157.18	518.12	536.36	488.66	47.70	11.244		
6,700.00	6,594.88	6,664.28	6,640.94	29.33	25.13	-174.16	159.24	526.58	534.10	485.68	48.42	11.031		
6,800.00	6,694.77	6,764.20	6,740.47	29.66	25.51	-174.06	161.30	535.04	530.09	480.96	49.13	10.789		
6,900.00	6,794.73	6,864.03	6,839.92	29.97	25.89	-173.95	163.36	543.50	524.36	474.52	49.84	10.521		
7,000.00	6,894.72	6,963.74	6,939.25	30.26	26.27	-173.81	165.42	551.94	516.89	466.35	50.54	10.227		
7,016.59	6,911.31	6,980.27	6,955.72	30.31	26.34	-94.94	165.76	553.34	515.49	464.83	50.66	10.176		
7,100.00	6,994.72	7,063.36	7,038.50	30.54	26.66	-94.82	167.47	560.38	508.30	457.07	51.23	9.921		
7,200.00	7,094.72	7,162.98	7,137.74	30.82	27.04	-94.66	169.53	568.81	499.69	447.77	51.92	9.624		
7,300.00	7,194.72	7,262.60	7,236.98	31.11	27.42	-94.50	171.58	577.25	491.08	438.47	52.61	9.334		
7,400.00	7,294.72	7,362.22	7,336.22	31.39	27.80	-94.34	173.64	585.68	482.48	429.18	53.30	9.052		
7,500.00	7,394.72	7,461.84	7,435.46	31.68	28.19	-94.17	175.69	594.12	473.88	419.89	54.00	8.776		
7,600.00	7,494.72	7,561.46	7,534.70	31.96	28.57	-93.99	177.74	602.56	465.29	410.60	54.69	8.508		
7,700.00	7,594.72	7,661.08	7,633.94	32.25	28.95	-93.81	179.80	610.99	456.70	401.32	55.38	8.246		
7,800.00	7,694.72	7,760.70	7,733.18	32.54	29.33	-93.61	181.85	619.43	448.11	392.04	56.08	7.991		
7,900.00	7,794.72	7,860.32	7,832.42	32.83	29.71	-93.42	183.91	627.86	439.53	382.76	56.78	7.742		
8,000.00	7,894.72	7,959.94	7,931.66	33.13	30.10	-93.21	185.96	636.30	430.96	373.49	57.47	7.499		
8,100.00	7,994.72	8,059.55	8,030.90	33.42	30.48	-92.99	188.02	644.73	422.39	364.22	58.17	7.261		
8,200.00	8,094.72	8,159.17	8,130.14	33.72	30.86	-92.77	190.07	653.17	413.83	354.95	58.87	7.030		
8,300.00	8,194.72	8,258.79	8,229.38	34.01	31.24	-92.54	192.13	661.61	405.27	345.70	59.57	6.803		
8,400.00	8,294.72	8,358.41	8,328.62	34.31	31.63	-92.29	194.18	670.04	396.73	336.46	60.27	6.582		
8,500.00	8,394.72	8,458.03	8,427.86	34.61	32.01	-92.04	196.23	678.48	388.18	327.21	60.97	6.367		
8,600.00	8,494.72	8,557.65	8,527.10	34.91	32.39	-91.77	198.29	686.91	379.65	317.98	61.68	6.156		
8,700.00	8,594.72	8,657.27	8,626.34	35.21	32.77	-91.50	200.34	695.35	371.13	308.75	62.38	5.949		
8,800.00	8,694.72	8,756.89	8,725.58	35.52	33.15	-91.21	202.40	703.79	362.61	299.52	63.09	5.748		
8,900.00	8,794.72	8,856.51	8,824.82	35.82	33.54	-90.90	204.45	712.22	354.10	290.31	63.79	5.551		
9,000.00	8,894.72	8,951.64	8,919.63	36.12	33.90	-90.61	206.29	719.79	346.13	281.67	64.46	5.369		
9,100.00	8,994.72	9,045.93	9,013.72	36.43	34.25	-90.38	207.76	725.80	339.74	274.62	65.12	5.217		
9,200.00	9,094.72	9,140.40	9,108.07	36.73	34.59	-90.20	208.86	730.32	334.95	269.20	65.75	5.094		
9,300.00	9,194.72	9,235.00	9,202.62	37.04	34.93	-90.07	209.59	733.33	331.76	265.39	66.37	4.998		
9,400.00	9,294.72	9,329.67	9,297.28	37.35	35.25	-90.01	209.96	734.82	330.19	263.21	66.98	4.930		
9,464.39	9,359.11	9,408.50	9,359.11	37.55	35.51	-90.00	210.00	735.00	330.00	262.57	67.43	4.894		
9,500.00	9,394.72	9,427.11	9,394.72	37.66	35.57	-90.00	210.00	735.00	330.00	262.39	67.61	4.881		
9,600.00	9,494.72	9,527.11	9,494.72	37.97	35.90	-90.00	210.00	735.00	330.00	261.71	68.29	4.832		
9,700.00	9,594.72	9,627.11	9,594.72	38.28	36.23	-90.00	210.00	735.00	330.00	261.03	68.97	4.785		

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 204H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 4-MWD - OWSG												Offset Well Error:	0.00 usft
Reference			Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,694.72	9,727.11	9,694.72	38.59	36.55	-90.00	210.00	735.00	330.00	260.35	69.65	4.738	
9,900.00	9,794.72	9,827.11	9,794.72	38.90	36.88	-90.00	210.00	735.00	330.00	259.67	70.33	4.692	
10,000.00	9,894.72	9,927.11	9,894.72	39.22	37.21	-90.00	210.00	735.00	330.00	258.99	71.01	4.647	
10,100.00	9,994.72	10,027.11	9,994.72	39.53	37.54	-90.00	210.00	735.00	330.00	258.31	71.69	4.603	
10,200.00	10,094.72	10,127.11	10,094.72	39.85	37.87	-90.00	210.00	735.00	330.00	257.63	72.37	4.560	
10,300.00	10,194.72	10,227.11	10,194.72	40.16	38.20	-90.00	210.00	735.00	330.00	256.95	73.05	4.517	
10,317.28	10,212.00	10,244.39	10,212.00	40.22	38.26	-90.00	210.00	735.00	330.00	256.83	73.17	4.510	
10,317.28	10,212.00	10,244.39	10,212.00	40.22	38.26	-90.00	210.00	735.00	330.00	256.83	73.17	4.510	
10,350.00	10,244.70	10,277.10	10,244.70	40.31	38.37	90.21	210.00	735.00	330.00	256.60	73.40	4.496	
10,400.00	10,294.43	10,326.83	10,294.43	40.46	38.53	91.07	210.00	735.00	330.06	256.31	73.75	4.475	
10,450.00	10,343.54	10,375.93	10,343.54	40.59	38.69	92.63	210.00	735.00	330.37	256.24	74.12	4.457	
10,500.00	10,391.64	10,425.84	10,393.42	40.72	38.85	94.70	208.84	735.00	331.19	256.65	74.54	4.443	
10,550.00	10,438.37	10,477.32	10,444.58	40.84	39.01	96.80	203.27	735.01	332.49	257.52	74.97	4.435	
10,600.00	10,483.39	10,530.08	10,496.27	40.94	39.16	98.85	192.81	735.01	334.23	258.83	75.40	4.433	
10,650.00	10,526.33	10,584.17	10,548.05	41.04	39.31	100.85	177.21	735.03	336.36	260.58	75.79	4.438	
10,700.00	10,566.89	10,639.66	10,599.39	41.13	39.46	102.77	156.20	735.04	338.82	262.72	76.10	4.452	
10,750.00	10,604.74	10,696.60	10,649.69	41.20	39.59	104.59	129.60	735.06	341.53	265.21	76.32	4.475	
10,800.00	10,639.61	10,754.99	10,698.29	41.27	39.71	106.29	97.26	735.09	344.39	267.97	76.43	4.506	
10,850.00	10,671.22	10,814.84	10,744.41	41.33	39.83	107.86	59.17	735.12	347.30	270.89	76.41	4.545	
10,900.00	10,699.33	10,876.11	10,787.26	41.39	39.93	109.28	15.41	735.16	350.16	273.86	76.30	4.589	
10,950.00	10,723.74	10,938.73	10,825.96	41.44	40.03	110.53	-33.78	735.20	352.84	276.73	76.11	4.636	
11,000.00	10,744.25	11,002.59	10,859.66	41.49	40.13	111.59	-87.98	735.24	355.25	279.34	75.92	4.680	
11,050.00	10,760.71	11,067.52	10,887.53	41.54	40.23	112.45	-146.59	735.29	357.29	281.53	75.77	4.716	
11,100.00	10,773.00	11,133.33	10,908.83	41.60	40.35	113.09	-208.82	735.34	358.88	283.15	75.73	4.739	
11,150.00	10,781.01	11,199.79	10,922.97	41.67	40.49	113.52	-273.71	735.39	359.93	284.07	75.86	4.744	
11,200.00	10,784.70	11,266.62	10,929.51	41.75	40.67	113.71	-340.19	735.44	360.42	284.21	76.21	4.729	
11,217.27	10,784.96	11,289.74	10,929.96	41.78	40.73	113.72	-363.31	735.46	360.45	284.07	76.38	4.719	
11,221.94	10,784.96	11,295.99	10,929.92	41.79	40.75	113.71	-369.55	735.47	360.44	284.00	76.44	4.716	
11,300.00	10,784.96	11,372.38	10,929.96	41.95	41.00	113.72	-445.94	735.53	360.45	283.50	76.95	4.684	
11,400.00	10,784.96	11,472.38	10,929.96	42.23	41.38	113.72	-545.94	735.61	360.45	282.72	77.74	4.637	
11,500.00	10,784.96	11,572.38	10,929.96	42.58	41.82	113.72	-645.94	735.69	360.45	281.81	78.64	4.584	
11,600.00	10,784.96	11,672.38	10,929.96	42.99	42.33	113.72	-745.94	735.77	360.45	280.80	79.65	4.525	
11,700.00	10,784.96	11,772.38	10,929.96	43.47	42.90	113.72	-845.94	735.85	360.45	279.68	80.78	4.462	
11,800.00	10,784.96	11,872.38	10,929.96	44.02	43.52	113.72	-945.94	735.93	360.45	278.45	82.00	4.396	
11,900.00	10,784.96	11,972.38	10,929.96	44.63	44.19	113.72	-1,045.94	736.01	360.45	277.13	83.33	4.326	
12,000.00	10,784.97	12,072.38	10,929.97	45.30	44.92	113.72	-1,145.94	736.09	360.45	275.71	84.74	4.253	
12,100.00	10,784.97	12,172.38	10,929.97	46.03	45.69	113.72	-1,245.94	736.17	360.45	274.20	86.25	4.179	
12,200.00	10,784.97	12,272.38	10,929.97	46.80	46.52	113.72	-1,345.94	736.25	360.45	272.61	87.85	4.103	
12,300.00	10,784.97	12,372.38	10,929.97	47.63	47.38	113.72	-1,445.94	736.33	360.45	270.93	89.52	4.027	
12,400.00	10,784.97	12,472.38	10,929.97	48.50	48.29	113.72	-1,545.94	736.41	360.45	269.18	91.27	3.949	
12,500.00	10,784.97	12,572.38	10,929.97	49.41	49.23	113.72	-1,645.94	736.49	360.45	267.36	93.09	3.872	
12,600.00	10,784.97	12,672.38	10,929.97	50.36	50.22	113.72	-1,745.94	736.57	360.45	265.47	94.98	3.795	
12,700.00	10,784.97	12,772.38	10,929.97	51.35	51.24	113.72	-1,845.94	736.65	360.45	263.52	96.93	3.719	
12,800.00	10,784.97	12,872.38	10,929.97	52.38	52.29	113.72	-1,945.94	736.73	360.45	261.51	98.94	3.643	
12,900.00	10,784.97	12,972.38	10,929.97	53.44	53.37	113.72	-2,045.94	736.81	360.45	259.44	101.01	3.569	
13,000.00	10,784.98	13,072.38	10,929.98	54.52	54.48	113.72	-2,145.94	736.89	360.45	257.32	103.13	3.495	
13,100.00	10,784.98	13,172.38	10,929.98	55.64	55.62	113.72	-2,245.94	736.97	360.45	255.15	105.30	3.423	
13,200.00	10,784.98	13,272.38	10,929.98	56.79	56.79	113.72	-2,345.94	737.05	360.45	252.93	107.52	3.352	
13,300.00	10,784.98	13,372.38	10,929.98	57.96	57.98	113.72	-2,445.94	737.13	360.45	250.67	109.78	3.283	
13,400.00	10,784.98	13,472.38	10,929.98	59.15	59.20	113.72	-2,545.94	737.21	360.45	248.37	112.08	3.216	
13,500.00	10,784.98	13,572.38	10,929.98	60.37	60.43	113.72	-2,645.94	737.30	360.45	246.03	114.42	3.150	

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Verna Rae - 204H - OH - Prelim Plan A												Offset Site Error:	0.00 usft			
Survey Program: 4-MWD - OWSG		Distance										Offset Well Error:				
Reference		Offset		Semi Major Axis				Between Centres (usft)				Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (%)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)					
13,600.00	10,784.98	13,672.38	10,929.98	61.61	61.69	113.72	-2,745.94	737.38	360.45	243.65	116.80	3.086				
13,700.00	10,784.98	13,772.38	10,929.98	62.87	62.96	113.72	-2,845.94	737.46	360.45	241.24	119.21	3.024				
13,800.00	10,784.98	13,872.38	10,929.98	64.15	64.25	113.72	-2,945.94	737.54	360.45	238.80	121.66	2.963				
13,900.00	10,784.98	13,972.38	10,929.98	65.44	65.56	113.72	-3,045.94	737.62	360.45	236.32	124.13	2.904				
14,000.00	10,784.98	14,072.38	10,929.98	66.75	66.89	113.72	-3,145.94	737.70	360.45	233.82	126.63	2.846				
14,100.00	10,784.99	14,172.38	10,929.99	68.08	68.23	113.72	-3,245.94	737.78	360.45	231.29	129.16	2.791				
14,200.00	10,784.99	14,272.38	10,929.99	69.42	69.58	113.72	-3,345.94	737.86	360.45	228.74	131.72	2.737				
14,300.00	10,784.99	14,372.38	10,929.99	70.78	70.95	113.72	-3,445.94	737.94	360.45	226.16	134.29	2.684				
14,400.00	10,784.99	14,472.38	10,929.99	72.15	72.33	113.72	-3,545.94	738.02	360.45	223.56	136.90	2.633				
14,500.00	10,784.99	14,572.38	10,929.99	73.53	73.72	113.72	-3,645.94	738.10	360.45	220.93	139.52	2.584				
14,600.00	10,784.99	14,672.38	10,929.99	74.92	75.13	113.72	-3,745.94	738.18	360.45	218.29	142.16	2.536				
14,700.00	10,784.99	14,772.38	10,929.99	76.33	76.54	113.72	-3,845.94	738.26	360.45	215.63	144.82	2.489				
14,800.00	10,784.99	14,872.38	10,929.99	77.74	77.96	113.72	-3,945.94	738.34	360.45	212.95	147.50	2.444				
14,900.00	10,784.99	14,972.38	10,929.99	79.17	79.40	113.72	-4,045.94	738.42	360.45	210.26	150.20	2.400				
15,000.00	10,784.99	15,072.38	10,929.99	80.60	80.84	113.72	-4,145.94	738.50	360.45	207.54	152.91	2.357				
15,100.00	10,785.00	15,172.38	10,930.00	82.04	82.29	113.72	-4,245.94	738.58	360.45	204.82	155.64	2.316				
15,200.00	10,785.00	15,272.38	10,930.00	83.49	83.75	113.72	-4,345.94	738.66	360.45	202.07	158.38	2.276				
15,300.00	10,785.00	15,372.38	10,930.00	84.95	85.22	113.72	-4,445.94	738.74	360.45	199.32	161.13	2.237				
15,400.00	10,785.00	15,472.38	10,930.00	86.42	86.69	113.72	-4,545.94	738.82	360.45	196.55	163.90	2.199				
15,500.00	10,785.00	15,572.38	10,930.00	87.89	88.17	113.72	-4,645.94	738.90	360.45	193.77	166.68	2.163				
15,600.00	10,785.00	15,672.38	10,930.00	89.37	89.66	113.72	-4,745.94	738.98	360.45	190.98	169.48	2.127				
15,618.32	10,785.00	15,690.70	10,930.00	89.65	89.93	113.72	-4,764.26	739.00	360.45	190.46	169.99	2.120 SF				

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

Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Rig @ 3648.50usft (GL:3620'+KB:28.5'

Coordinates are relative to: 134H

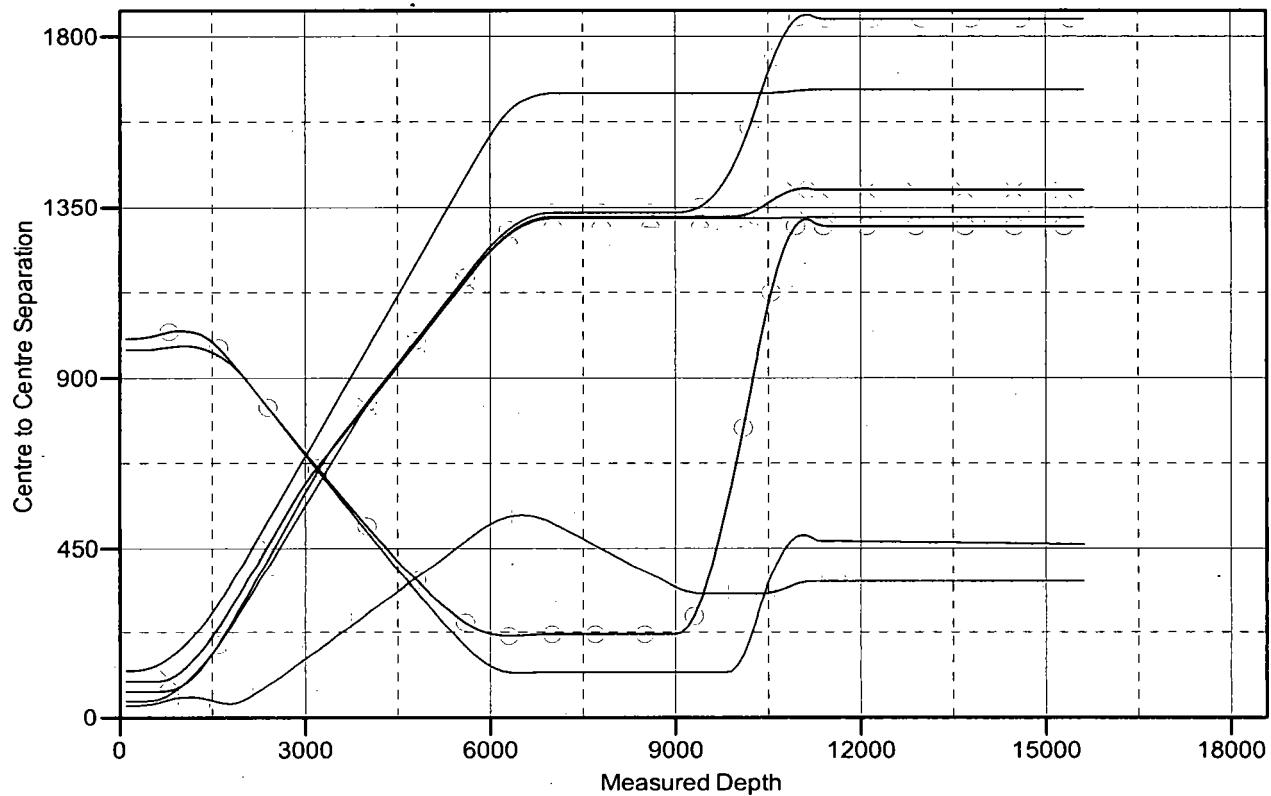
Offset Depths are relative to Offset Datum

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

Central Meridian is 104.333333°W

Grid Convergence at Surface is: 0.40°

Ladder Plot



LEGEND

- | | | |
|----------------------------|----------------------------|----------------------------|
| 114H, OH, Prelim Plan A V0 | 204H, OH, Prelim Plan A V0 | 203H, OH, Prelim Plan A V0 |
| 133H, OH, Prelim Plan A V0 | 113H, OH, Prelim Plan A V0 | |
| 124H, OH, Prelim Plan A V0 | 123H, OH, Prelim Plan A V0 | |

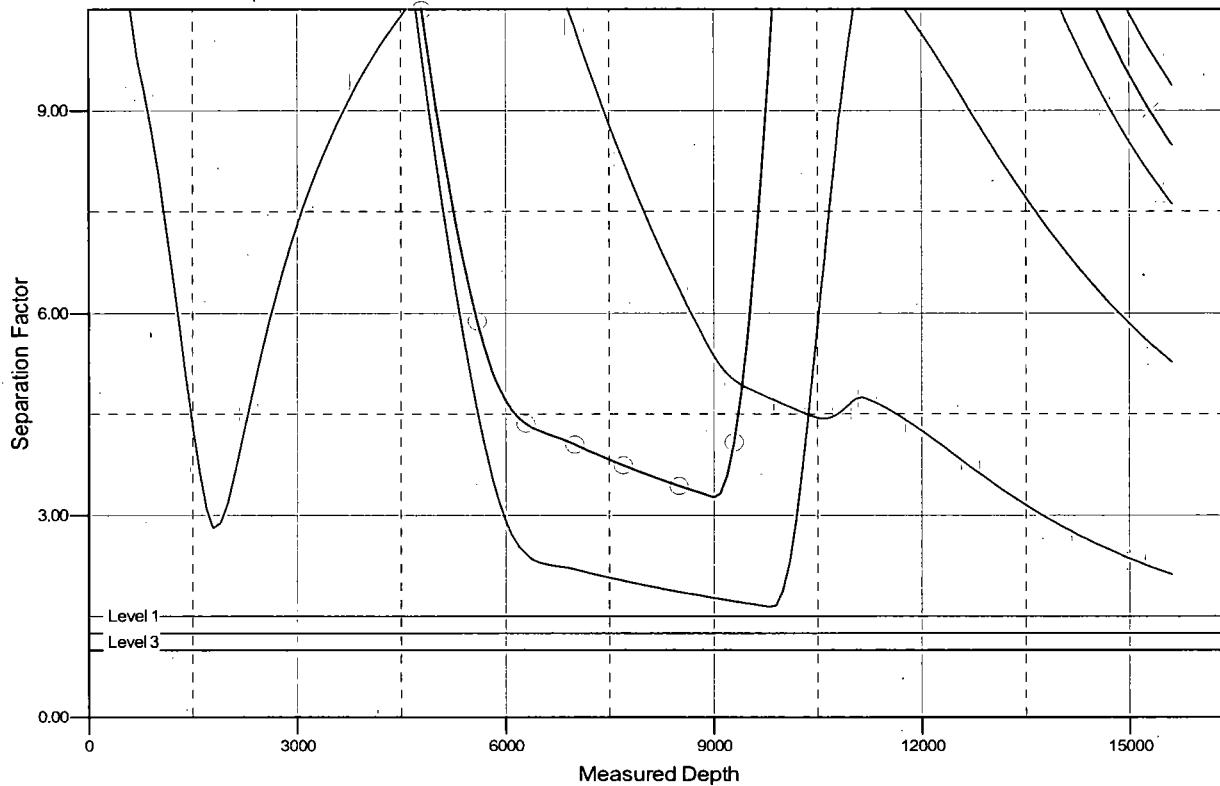
Pro Directional
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	134H	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 A	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Rig @ 3648.50usft (GL:3620'+KB:28.5)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104.333333°W

Coordinates are relative to: 134H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.40°

Separation Factor Plot



LEGEND

- 114H, OH, Prelim Plan A V0
- 133H, OH, Prelim Plan A V0
- 124H, OH, Prelim Plan A V0
- 204H, OH, Prelim Plan A V0
- 113H, OH, Prelim Plan A V0
- 123H, OH, Prelim Plan A V0
- 203H, OH, Prelim Plan A V0

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Well:	134H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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	Verna Rae				
Site Position:		Northing:	585,923.00 usft	Latitude:	32.6086426°N
From:	Map	Easting:	727,046.00 usft	Longitude:	103.5960109°W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	134H				
Well Position	+N/S +E/W	0.00 usft	Northing: Easting:	585,892.00 usft 727,046.00 usft	Latitude: Longitude:
					32.6085574°N 103.5960116°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/29/2017	6.78	60.63	48,385.30

Design	Prelim Plan A				
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	179.95

Survey Tool Program	Date	5/31/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,618.32	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG

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	1.00	78.85	699.99	0.17	0.86	-0.17	1.00	1.00	0.00
800.00	2.00	78.85	799.96	0.68	3.42	-0.67	1.00	1.00	0.00
900.00	3.00	78.85	899.86	1.52	7.70	-1.51	1.00	1.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Well:	134H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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	4.00	78.85	999.68	2.70	13.69	-2.69	1.00	1.00	0.00
1,100.00	5.00	78.85	1,099.37	4.22	21.39	-4.20	1.00	1.00	0.00
1,200.00	6.00	78.85	1,198.90	6.07	30.79	-6.05	1.00	1.00	0.00
1,300.00	7.00	78.85	1,298.26	8.26	41.90	-8.23	1.00	1.00	0.00
1,400.00	8.00	78.85	1,397.40	10.79	54.71	-10.74	1.00	1.00	0.00
1,500.00	9.00	78.85	1,496.30	13.65	69.21	-13.59	1.00	1.00	0.00
1,600.00	10.00	78.85	1,594.93	16.84	85.40	-16.77	1.00	1.00	0.00
1,700.00	11.00	78.85	1,693.26	20.37	103.28	-20.27	1.00	1.00	0.00
1,800.00	12.00	78.85	1,791.25	24.22	122.84	-24.11	1.00	1.00	0.00
1,900.00	12.00	78.85	1,889.06	28.24	143.24	-28.12	0.00	0.00	0.00
2,000.00	12.00	78.85	1,986.88	32.27	163.64	-32.12	0.00	0.00	0.00
2,100.00	12.00	78.85	2,084.69	36.29	184.03	-36.13	0.00	0.00	0.00
2,200.00	12.00	78.85	2,182.51	40.31	204.43	-40.13	0.00	0.00	0.00
2,300.00	12.00	78.85	2,280.32	44.33	224.83	-44.14	0.00	0.00	0.00
2,400.00	12.00	78.85	2,378.13	48.36	245.23	-48.14	0.00	0.00	0.00
2,500.00	12.00	78.85	2,475.95	52.38	265.63	-52.15	0.00	0.00	0.00
2,600.00	12.00	78.85	2,573.76	56.40	286.03	-56.15	0.00	0.00	0.00
2,700.00	12.00	78.85	2,671.58	60.42	306.43	-60.15	0.00	0.00	0.00
2,800.00	12.00	78.85	2,769.39	64.44	326.82	-64.16	0.00	0.00	0.00
2,900.00	12.00	78.85	2,867.21	68.47	347.22	-68.16	0.00	0.00	0.00
3,000.00	12.00	78.85	2,965.02	72.49	367.62	-72.17	0.00	0.00	0.00
3,100.00	12.00	78.85	3,062.84	76.51	388.02	-76.17	0.00	0.00	0.00
3,200.00	12.00	78.85	3,160.65	80.53	408.42	-80.18	0.00	0.00	0.00
3,300.00	12.00	78.85	3,258.47	84.56	428.82	-84.18	0.00	0.00	0.00
3,400.00	12.00	78.85	3,356.28	88.58	449.21	-88.19	0.00	0.00	0.00
3,500.00	12.00	78.85	3,454.10	92.60	469.61	-92.19	0.00	0.00	0.00
3,600.00	12.00	78.85	3,551.91	96.62	490.01	-96.19	0.00	0.00	0.00
3,700.00	12.00	78.85	3,649.73	100.64	510.41	-100.20	0.00	0.00	0.00
3,800.00	12.00	78.85	3,747.54	104.67	530.81	-104.20	0.00	0.00	0.00
3,900.00	12.00	78.85	3,845.36	108.69	551.21	-108.21	0.00	0.00	0.00
4,000.00	12.00	78.85	3,943.17	112.71	571.60	-112.21	0.00	0.00	0.00
4,100.00	12.00	78.85	4,040.99	116.73	592.00	-116.22	0.00	0.00	0.00
4,200.00	12.00	78.85	4,138.80	120.76	612.40	-120.22	0.00	0.00	0.00
4,300.00	12.00	78.85	4,236.62	124.78	632.80	-124.23	0.00	0.00	0.00
4,400.00	12.00	78.85	4,334.43	128.80	653.20	-128.23	0.00	0.00	0.00
4,500.00	12.00	78.85	4,432.24	132.82	673.60	-132.23	0.00	0.00	0.00
4,600.00	12.00	78.85	4,530.06	136.84	693.99	-136.24	0.00	0.00	0.00
4,700.00	12.00	78.85	4,627.87	140.87	714.39	-140.24	0.00	0.00	0.00
4,800.00	12.00	78.85	4,725.69	144.89	734.79	-144.25	0.00	0.00	0.00
4,900.00	12.00	78.85	4,823.50	148.91	755.19	-148.25	0.00	0.00	0.00
5,000.00	12.00	78.85	4,921.32	152.93	775.59	-152.26	0.00	0.00	0.00
5,100.00	12.00	78.85	5,019.13	156.96	795.99	-156.26	0.00	0.00	0.00
5,200.00	12.00	78.85	5,116.95	160.98	816.39	-160.26	0.00	0.00	0.00
5,300.00	12.00	78.85	5,214.76	165.00	836.78	-164.27	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Well:	134H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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	12.00	78.85	5,312.58	169.02	857.18	-168.27	0.00	0.00	0.00	
5,500.00	12.00	78.85	5,410.39	173.04	877.58	-172.28	0.00	0.00	0.00	
5,600.00	12.00	78.85	5,508.21	177.07	897.98	-176.28	0.00	0.00	0.00	
5,700.00	12.00	78.85	5,606.02	181.09	918.38	-180.29	0.00	0.00	0.00	
5,800.00	12.00	78.85	5,703.84	185.11	938.78	-184.29	0.00	0.00	0.00	
5,816.59	12.00	78.85	5,720.07	185.78	942.16	-184.96	0.00	0.00	0.00	
5,900.00	11.17	78.85	5,801.77	189.02	958.59	-188.18	1.00	-1.00	0.00	
6,000.00	10.17	78.85	5,900.05	192.60	976.75	-191.75	1.00	-1.00	0.00	
6,100.00	9.17	78.85	5,998.63	195.85	993.22	-194.98	1.00	-1.00	0.00	
6,200.00	8.17	78.85	6,097.48	198.76	1,008.00	-197.88	1.00	-1.00	0.00	
6,300.00	7.17	78.85	6,196.59	201.34	1,021.09	-200.45	1.00	-1.00	0.00	
6,400.00	6.17	78.85	6,295.91	203.59	1,032.48	-202.69	1.00	-1.00	0.00	
6,500.00	5.17	78.85	6,395.42	205.50	1,042.17	-204.59	1.00	-1.00	0.00	
6,600.00	4.17	78.85	6,495.09	207.07	1,050.15	-206.15	1.00	-1.00	0.00	
6,700.00	3.17	78.85	6,594.88	208.31	1,056.42	-207.39	1.00	-1.00	0.00	
6,800.00	2.17	78.85	6,694.77	209.21	1,060.98	-208.28	1.00	-1.00	0.00	
6,900.00	1.17	78.85	6,794.73	209.77	1,063.84	-208.84	1.00	-1.00	0.00	
7,000.00	0.17	78.85	6,894.72	210.00	1,064.98	-209.07	1.00	-1.00	0.00	
7,016.59	0.00	0.00	6,911.31	210.00	1,065.00	-209.07	1.00	-1.00	0.00	
7,100.00	0.00	0.00	6,994.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,094.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,194.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,294.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,394.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,494.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,594.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,694.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,794.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,894.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,994.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,094.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,194.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,294.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,394.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,494.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,594.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,694.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,794.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,894.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,994.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,094.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,194.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,294.72	210.00	1,065.00	-209.07	0.00	0.00	0.00	

Pro Directional

Survey Report

Company:	Matador Resources			Local Co-ordinate Reference:			Well 134H		
Project:	Lea County, NM			TVD Reference:			Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))		
Site:	Verna Rae			MD Reference:			Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))		
Well:	134H			North Reference:			Grid		
Wellbore:	OH			Survey Calculation Method:			Minimum Curvature		
Design:	Prelim Plan A			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	9,394.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
9,600.00	0.00	0.00	9,494.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
9,700.00	0.00	0.00	9,594.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
9,800.00	0.00	0.00	9,694.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
9,900.00	0.00	0.00	9,794.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,000.00	0.00	0.00	9,894.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,100.00	0.00	0.00	9,994.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,200.00	0.00	0.00	10,094.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,300.00	0.00	0.00	10,194.72	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,317.28	0.00	0.00	10,212.00	210.00	1,065.00	-209.07	0.00	0.00	0.00
10,350.00	3.27	179.95	10,244.70	209.07	1,065.00	-208.14	10.00	10.00	0.00
10,400.00	8.27	179.95	10,294.43	204.04	1,065.00	-203.11	10.00	10.00	0.00
10,450.00	13.27	179.95	10,343.54	194.70	1,065.01	-193.77	10.00	10.00	0.00
10,500.00	18.27	179.95	10,391.64	181.11	1,065.02	-180.18	10.00	10.00	0.00
10,550.00	23.27	179.95	10,438.37	163.38	1,065.04	-162.45	10.00	10.00	0.00
10,600.00	28.27	179.95	10,483.39	141.65	1,065.05	-140.72	10.00	10.00	0.00
10,650.00	33.27	179.95	10,526.33	116.08	1,065.08	-115.15	10.00	10.00	0.00
10,700.00	38.27	179.95	10,566.89	86.86	1,065.10	-85.93	10.00	10.00	0.00
10,750.00	43.27	179.95	10,604.74	54.22	1,065.13	-53.29	10.00	10.00	0.00
10,800.00	48.27	179.95	10,639.61	18.40	1,065.15	-17.47	10.00	10.00	0.00
10,850.00	53.27	179.95	10,671.22	-20.32	1,065.19	21.25	10.00	10.00	0.00
10,900.00	58.27	179.95	10,699.33	-61.65	1,065.22	62.58	10.00	10.00	0.00
10,950.00	63.27	179.95	10,723.74	-105.27	1,065.25	106.20	10.00	10.00	0.00
11,000.00	68.27	179.95	10,744.25	-150.85	1,065.29	151.78	10.00	10.00	0.00
11,050.00	73.27	179.95	10,760.71	-198.04	1,065.33	198.97	10.00	10.00	0.00
11,100.00	78.27	179.95	10,773.00	-246.50	1,065.37	247.42	10.00	10.00	0.00
11,150.00	83.27	179.95	10,781.01	-295.83	1,065.41	296.76	10.00	10.00	0.00
11,200.00	88.27	179.95	10,784.70	-345.68	1,065.45	346.61	10.00	10.00	0.00
11,217.27	90.00	179.95	10,784.96	-362.95	1,065.46	363.88	10.00	10.00	0.00
11,300.00	90.00	179.95	10,784.96	-445.68	1,065.53	446.61	0.00	0.00	0.00
11,400.00	90.00	179.95	10,784.96	-545.68	1,065.61	546.61	0.00	0.00	0.00
11,500.00	90.00	179.95	10,784.96	-645.68	1,065.69	646.61	0.00	0.00	0.00
11,600.00	90.00	179.95	10,784.96	-745.68	1,065.77	746.61	0.00	0.00	0.00
11,700.00	90.00	179.95	10,784.96	-845.68	1,065.85	846.61	0.00	0.00	0.00
11,800.00	90.00	179.95	10,784.96	-945.68	1,065.93	946.61	0.00	0.00	0.00
11,900.00	90.00	179.95	10,784.96	-1,045.68	1,066.01	1,046.61	0.00	0.00	0.00
12,000.00	90.00	179.95	10,784.97	-1,145.68	1,066.09	1,146.61	0.00	0.00	0.00
12,100.00	90.00	179.95	10,784.97	-1,245.68	1,066.17	1,246.61	0.00	0.00	0.00
12,200.00	90.00	179.95	10,784.97	-1,345.68	1,066.25	1,346.61	0.00	0.00	0.00
12,300.00	90.00	179.95	10,784.97	-1,445.68	1,066.33	1,446.61	0.00	0.00	0.00
12,400.00	90.00	179.95	10,784.97	-1,545.68	1,066.41	1,546.61	0.00	0.00	0.00
12,500.00	90.00	179.95	10,784.97	-1,645.68	1,066.49	1,646.61	0.00	0.00	0.00
12,600.00	90.00	179.95	10,784.97	-1,745.68	1,066.57	1,746.61	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Well:	134H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
12,700.00	90.00	179.95	10,784.97	-1,845.68	1,066.65	1,846.61	0.00	0.00	0.00
12,800.00	90.00	179.95	10,784.97	-1,945.68	1,066.73	1,946.61	0.00	0.00	0.00
12,900.00	90.00	179.95	10,784.97	-2,045.68	1,066.81	2,046.61	0.00	0.00	0.00
13,000.00	90.00	179.95	10,784.98	-2,145.68	1,066.89	2,146.61	0.00	0.00	0.00
13,100.00	90.00	179.95	10,784.98	-2,245.68	1,066.97	2,246.61	0.00	0.00	0.00
13,200.00	90.00	179.95	10,784.98	-2,345.68	1,067.06	2,346.61	0.00	0.00	0.00
13,300.00	90.00	179.95	10,784.98	-2,445.68	1,067.14	2,446.61	0.00	0.00	0.00
13,400.00	90.00	179.95	10,784.98	-2,545.68	1,067.22	2,546.61	0.00	0.00	0.00
13,500.00	90.00	179.95	10,784.98	-2,645.68	1,067.30	2,646.61	0.00	0.00	0.00
13,600.00	90.00	179.95	10,784.98	-2,745.68	1,067.38	2,746.61	0.00	0.00	0.00
13,700.00	90.00	179.95	10,784.98	-2,845.68	1,067.46	2,846.61	0.00	0.00	0.00
13,800.00	90.00	179.95	10,784.98	-2,945.68	1,067.54	2,946.61	0.00	0.00	0.00
13,900.00	90.00	179.95	10,784.98	-3,045.68	1,067.62	3,046.61	0.00	0.00	0.00
14,000.00	90.00	179.95	10,784.98	-3,145.68	1,067.70	3,146.61	0.00	0.00	0.00
14,100.00	90.00	179.95	10,784.99	-3,245.68	1,067.78	3,246.61	0.00	0.00	0.00
14,200.00	90.00	179.95	10,784.99	-3,345.68	1,067.86	3,346.61	0.00	0.00	0.00
14,300.00	90.00	179.95	10,784.99	-3,445.68	1,067.94	3,446.61	0.00	0.00	0.00
14,400.00	90.00	179.95	10,784.99	-3,545.68	1,068.02	3,546.61	0.00	0.00	0.00
14,500.00	90.00	179.95	10,784.99	-3,645.68	1,068.10	3,646.61	0.00	0.00	0.00
14,600.00	90.00	179.95	10,784.99	-3,745.68	1,068.18	3,746.61	0.00	0.00	0.00
14,700.00	90.00	179.95	10,784.99	-3,845.68	1,068.26	3,846.61	0.00	0.00	0.00
14,800.00	90.00	179.95	10,784.99	-3,945.68	1,068.34	3,946.61	0.00	0.00	0.00
14,900.00	90.00	179.95	10,784.99	-4,045.68	1,068.42	4,046.61	0.00	0.00	0.00
15,000.00	90.00	179.95	10,784.99	-4,145.68	1,068.50	4,146.61	0.00	0.00	0.00
15,100.00	90.00	179.95	10,785.00	-4,245.68	1,068.58	4,246.61	0.00	0.00	0.00
15,200.00	90.00	179.95	10,785.00	-4,345.68	1,068.66	4,346.61	0.00	0.00	0.00
15,300.00	90.00	179.95	10,785.00	-4,445.68	1,068.74	4,446.61	0.00	0.00	0.00
15,400.00	90.00	179.95	10,785.00	-4,545.68	1,068.82	4,546.61	0.00	0.00	0.00
15,500.00	90.00	179.95	10,785.00	-4,645.68	1,068.90	4,646.61	0.00	0.00	0.00
15,600.00	90.00	179.95	10,785.00	-4,745.68	1,068.99	4,746.61	0.00	0.00	0.00
15,618.32	90.00	179.95	10,785.00	-4,764.00	1,069.00	4,764.93	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 134H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(Patt809))
Well:	134H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Design Targets										
Target Name		Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
[VR134]LPP		0.00	0.00	0.00	-4,674.00	1,069.00	581,218.00	728,115.00	32.5956901°N	103.5926461°W
	- plan misses target center by 4794.69usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
	- Point									
[VR134]FPP		0.00	0.00	0.00	-61.00	1,065.00	585,831.00	728,111.00	32.6083694°N	103.5925547°W
	- plan misses target center by 1066.75usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
	- Point									
[VR134]PBHL		0.00	0.00	10,785.0	-4,764.00	1,069.00	581,128.00	728,115.00	32.5954427°N	103.5926481°W
	- plan hits target center			0						
	- Point									

Checked By: _____	Approved By: _____	Date: _____
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Matador Production Company
Verna Rae Fed Com 134H
SHL 260' FNL & 1725' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary	000'	000'	water
Rustler anhydrite	1475'	1479'	N/A
Top salt	1605'	1610'	N/A
Base salt	3120'	3158'	N/A
Tansill sandstone	3185'	3224'	N/A
Yates gypsum	3340'	3383'	N/A
Seven Rivers dolomite	3750'	3802'	N/A
Queen sandstone	4570'	4610'	N/A
Capitan/Goat Seep Reef carbonate	4750'	4721'	water
Delaware Mt. Group sandstones	5420'	5310'	hydrocarbons
Brushy Canyon sandstone	6155'	6258'	hydrocarbons
Bone Spring Limestone	8280'	8395'	hydrocarbons
1 st Bone Spring carbonate	9005'	9110'	hydrocarbons
1 st Bone Spring sand	9390'	9495'	hydrocarbons
2 nd Bone Spring sand	9930'	10035'	hydrocarbons
(KOP	10245'	10350'	hydrocarbons)
3 rd Bone Spring sand	10605'	10750'	hydrocarbons & goal
TD	10785'	15618'	hydrocarbons

2. NOTABLE ZONES

Third Bone Spring sand is the goal. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter. Closest water well (L 07213) is 1886' NNE. Depth to water is 110' in this 160' deep inactive well.

3. PRESSURE CONTROL

**34Matador Production Company
Verna Rae Fed Com 123H
SHL 260' FNL & 1725' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 1

Surface Use Plan

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

From the Hobbs Airport ...

Go SW 22.3 miles on US 62/180 to the equivalent of Mile Post 78.2

Then turn right and go West 1.0 mile on a caliche road to a fence

Then go W and SW 830.32' cross-country to the slot 4 pad

Then go NW and W 629.25' cross-country to the Slot 3 pad
(113H/123H/133H/134H/203H/204H)

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

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

The 629.25' of new road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 3%. Maximum cut or fill = 2'. Underground pipelines will be padded before crossing. No culvert, cattle guard, or vehicle turn out is needed. Upgrading will consist of patching potholes with caliche. (Roadwork associated with slot 4 pad is described in its APDs.)

3. EXISTING WELLS (See MAP 3)

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

4. PROPOSED PRODUCTION FACILITIES (see MAPS 4, 6, & 7)

A 1415.63' long overhead raptor safe 3-phase power line will be built east to the slot 4 pad. (Power line to slot 4 pad is BLM right-of-way NMNM-137063). Oil tanks, water tanks, meter runs, separators, pumps, heater-treaters, combustion unit, and a flare will be installed on the south and west sides of the pad (see preceding diagram). Gas line

**34Matador Production Company
Verna Rae Fed Com 123H
SHL 260' FNL & 1725' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 2

plans have not been finalized, though it appears DCP will build a short line from its existing line that is between the Verna Rae Fed Com slot 3 and 4 pads.

5. WATER SUPPLY (See MAP 2)

Water will be trucked from existing water stations on private land. Sonny's water station (L 07431A) is in NENE 5-19s-36e. Berry's water station (CP 00802) is in SWNE 2-21s-32e.

6. CONSTRUCTION MATERIALS & METHODS (See MAPS 2 & 10-12)

NM One Call (811) will be notified before construction starts. Top ≈6" of soil and brush will be stockpiled north of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land. Klein pit is in SWNW 27-19s-35e. Berry pit is in E2NE4 35-20s-34e.

7. WASTE DISPOSAL

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT (See MAPS 7 & 8)

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

10. RECLAMATION

**34Matador Production Company
Verna Rae Fed Com 123H
SHL 260' FNL & 1725' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 3

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad $\approx 12\%$ (0.42 acre) by removing caliche and reclaiming the north side (50' x 220') and southeast corner (100' x 150' x 180'). This will leave 3.15 acres for the production equipment (e. g., tank battery, heater-treater, separator, meter run), 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 well is plugged. Once the well is plugged, then the rest of the pad and 629.25' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled. Land use:

629.25' x 30' road = 0.43 acre
1415.63' x 15' power line = 0.49 acre
<u>+ 370' x 420' pad = 3.57 acres</u>
4.49 acres short term
- 0.49 acre power line
<u>- 0.42 acre interim reclamation</u>
3.58 acres long term (0.43 ac. road + 3.15 ac. pad)

11. SURFACE OWNER

All pad, road (629.25'), and power line (1415.63') construction will be on land owned by Larry Hughes (HC 69 Box 57, Monument NM 88265). His phone number is 575 263-7602.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf, Cassie Brooks, and Bob Ballard (all BLM) on April 3, 2017.

Lone Mountain inspected and filed archaeology report NMCRIS-138083 May 18, 2017.

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SURFACE PLAN PAGE 4

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements.
Executed this 12th day of June, 2017.

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

Field representative will be:

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

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SURFACE PLAN PAGE 5

FAX: (214) 866-4841

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DRILL PLAN PAGE 4

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from \approx 1600' 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 \approx 5385 psi. Expected bottom hole temperature is \approx 150° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may 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 \approx 3 months to drill and complete the well.

Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.