

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMLC065607
WELL NAME & NO.:	133H-Verna RAE Fed Com
SURFACE HOLE FOOTAGE:	230'/N & 1755'/E
BOTTOM HOLE FOOTAGE:	240'/S & 1980'/E
LOCATION:	Section 6, T.20, R34 E, NMPM
COUNTY:	Lea County, New Mexico

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

A. Hydrogen Sulfide

1. 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.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

MHH 12102017

GENERAL REQUIREMENTS

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

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

☒ Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

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WELL NAME & NO.:	133H-Verna RAE Fed Com
SURFACE HOLE FOOTAGE:	230'/N & 1755'/E
BOTTOM HOLE FOOTAGE:	240'/S & 1980'/E
LOCATION:	Section 6, T.20, R34 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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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 berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

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

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

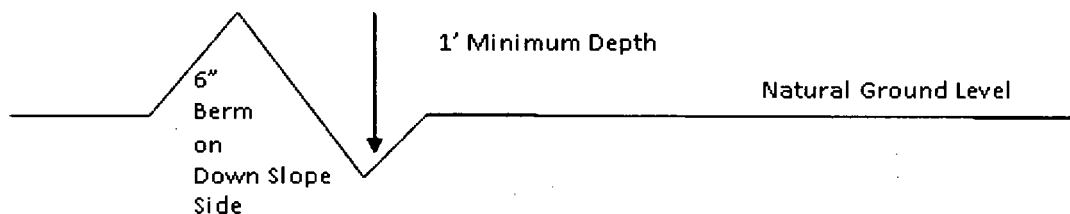
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

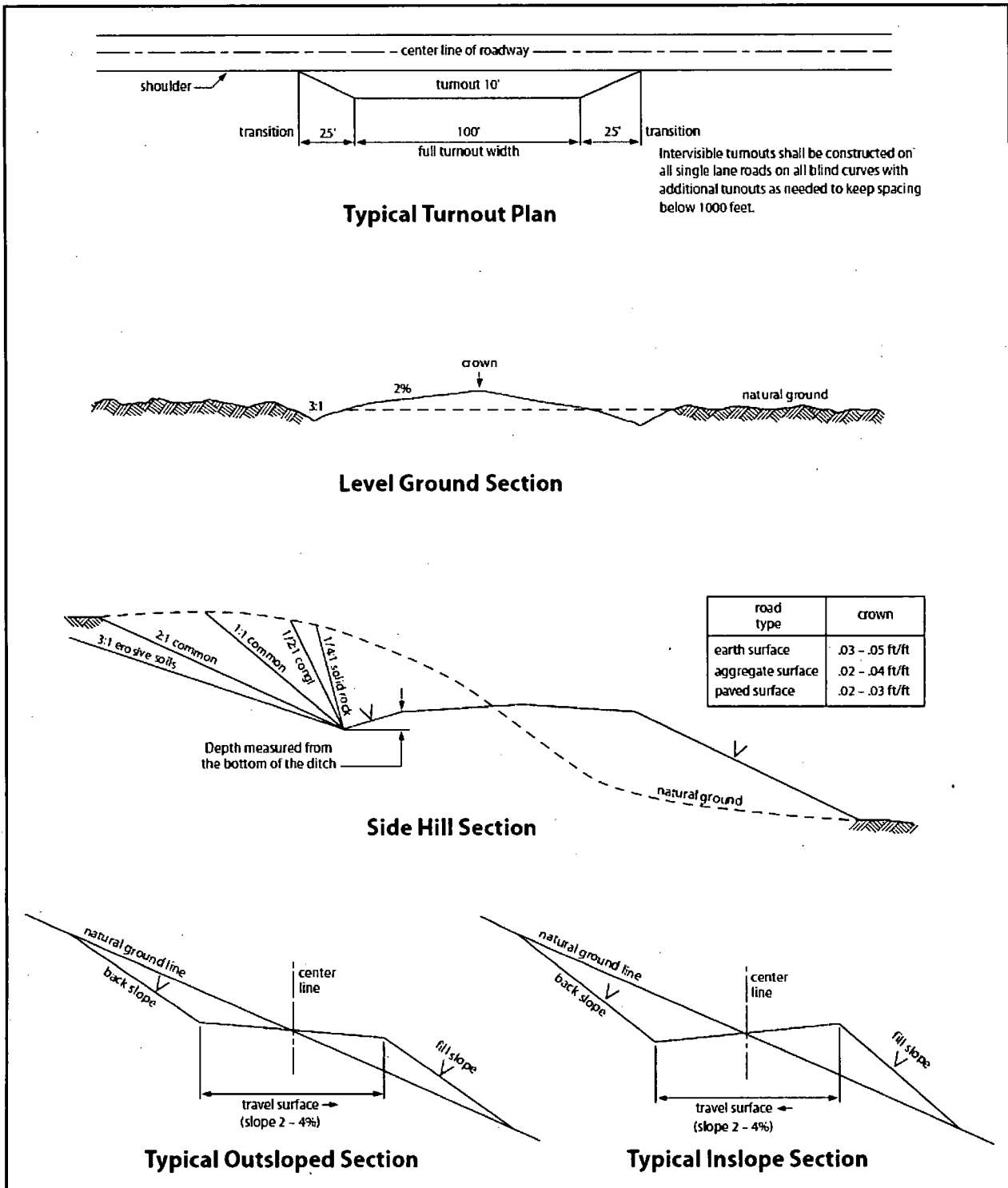


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. 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 133H

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 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible.
- Windssock 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

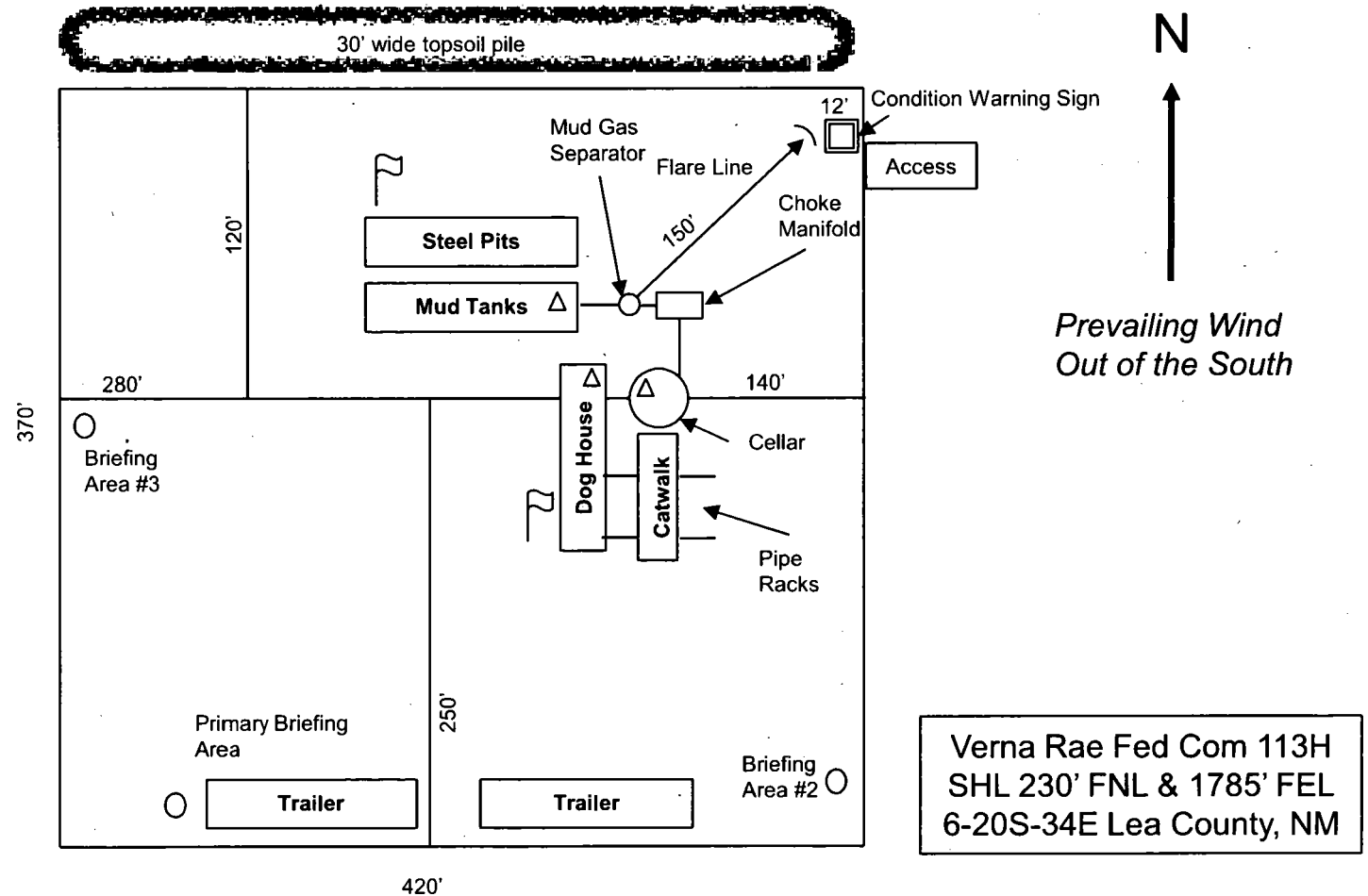
Company Office			
Matador Production Company		(972)-371-5200	
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Greg Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659
Lea County			575-390-3186
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	
BLM (Hobbs)		575-393-3612	
Hobbs Animal Clinic		575-392-5563	
Dal Paso Animal Hospital (Hobbs)		575-397-2286	
Mountain States Equine (Hobbs)		575-392-7488	
Carlsbad			
BLM		575-234-5972	
Santa Fe			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
National			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd SE, D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop SE; Albuquerque, NM		505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	
NM Dept. of Transportation (Roswell)		575-637-7200	

H2S Rig Diagram

Wind Direction Indicator

H2S Monitors

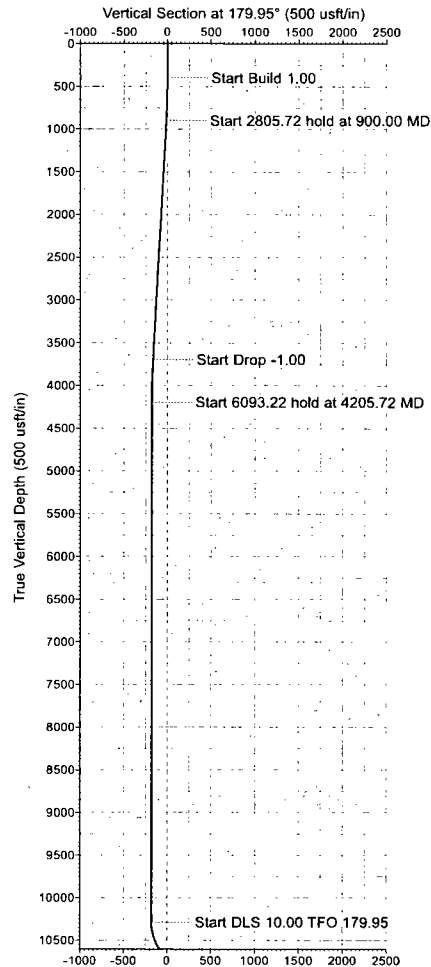
Briefing Areas





Matador Resources
Lea County, NM
Verna Rae
133H
Prelim Plan A
GL:3620'+KB:28.5'(809)

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



RKB Elevation: Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	585922.00	727016.00	32.6086404°N	103.5961084°W	

SECTION DETAILS- Lateral

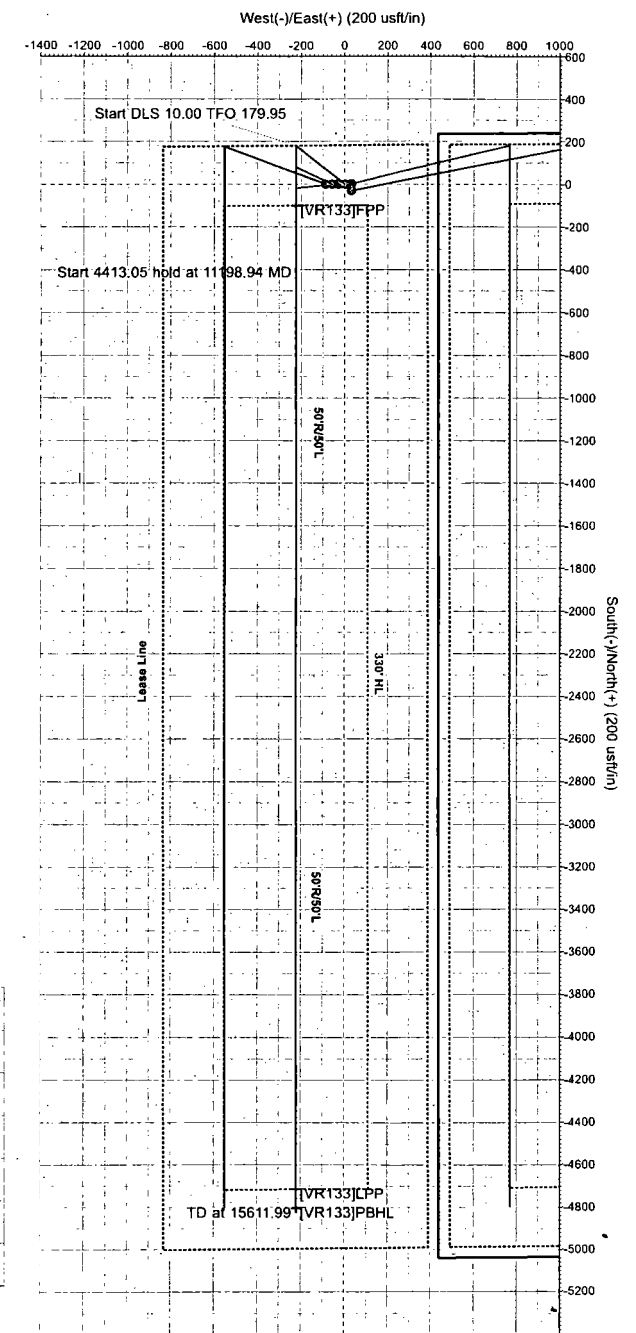
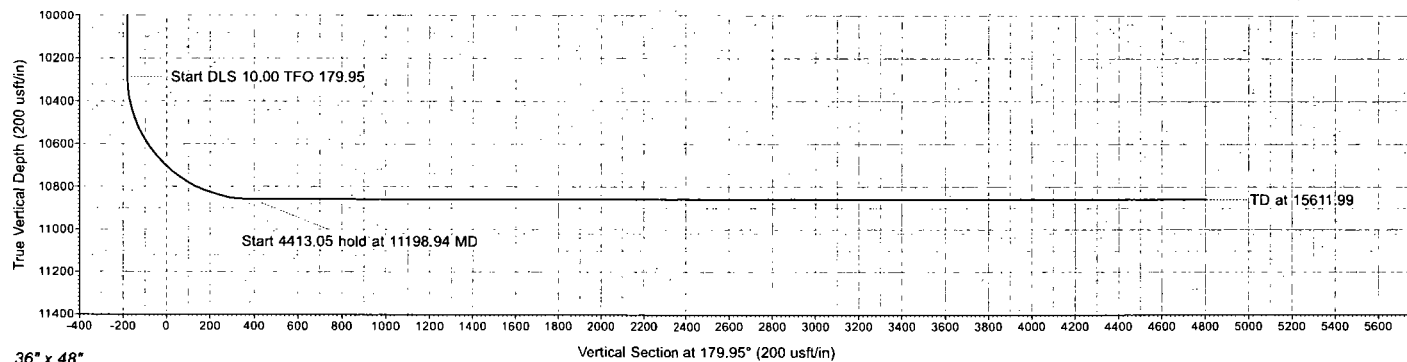
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSecl
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
3	900.00	5.00	308.66	899.37	13.62	-17.03	1.00	-13.63
4	3705.72	5.00	308.66	3694.41	166.38	-207.97	0.00	-166.56
5	4205.72	0.00	0.00	4193.78	180.00	-225.00	1.00	-180.20
6	10298.95	0.00	0.00	10287.00	180.00	-225.00	0.00	-180.20
7	11198.94	90.00	179.95	10859.96	-392.95	-224.54	10.00	392.76
8	15611.99	90.00	179.95	10860.00	-4806.00	-221.00	0.00	4805.81



Azimuths to Grid North
 True North: -0.40°
 Magnetic North: 6.40°
 Magnetic Field
 Strength: 48396.8nT
 Dip Angle: 60.63°
 Date: 4/21/2017
 Model: HDGM

Azimuth Corrections
 Total Magnetic Corr. (M to G): 6.40°
 Declination (M to T): 6.80° East

LEGEND
 • 113H, OH, Prelim Plan A V0 • 134H, OH, Prelim Plan A V0
 • 123H, OH, Prelim Plan A V0 • 204H, OH, Prelim Plan A V0
 • 203H, OH, Prelim Plan A V0 • Prelim Plan A

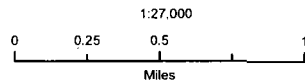


Matador Production Company

Verna Rae Fed Com #113H
H₂S Contingency Plan:
2 Mile Radius Map

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

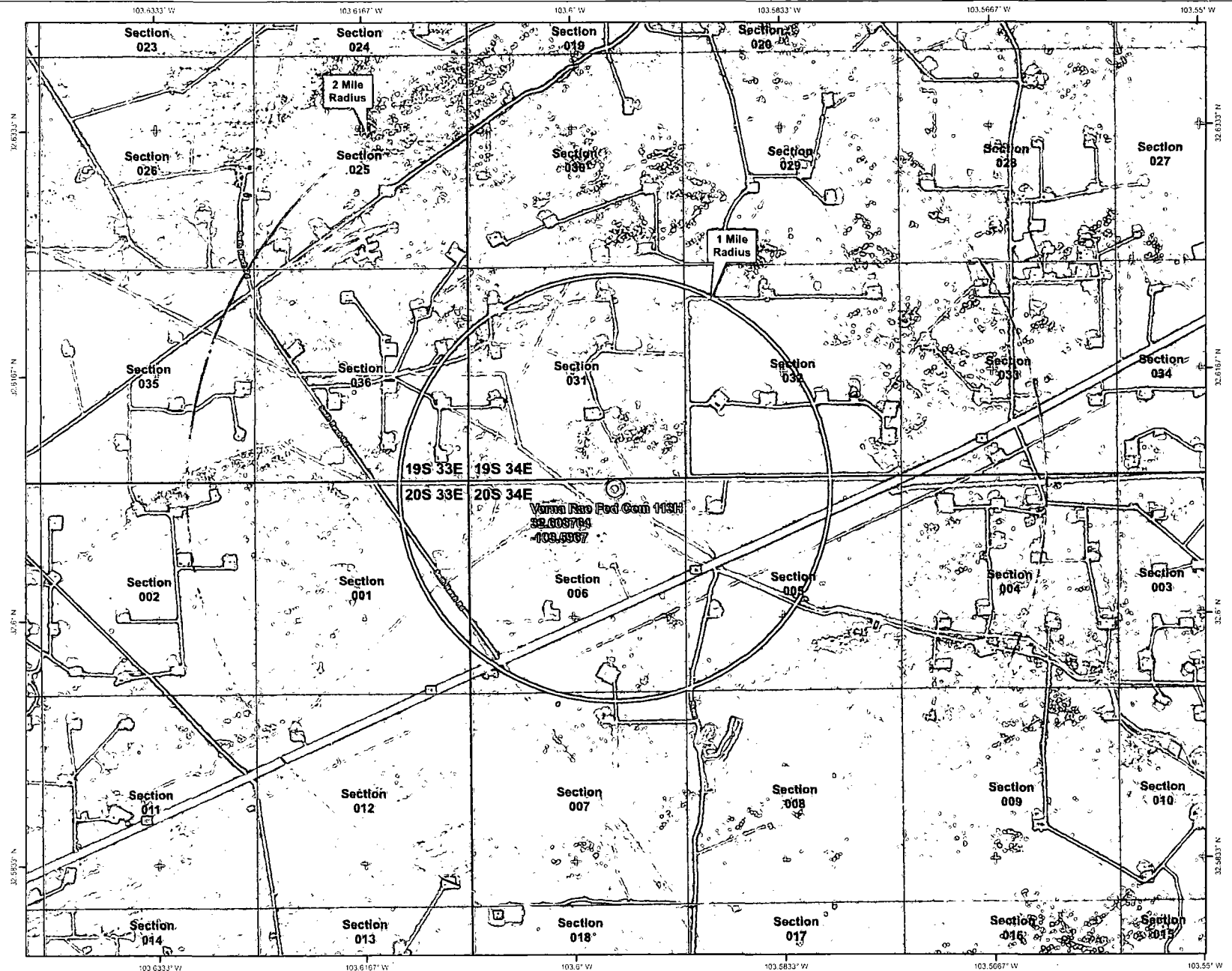
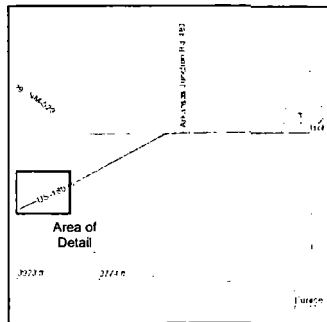
⊙ Surface Hole Location



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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 5/31/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	3,000.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
3,000.00	10,200.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
10,200.00	15,611.99	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Verna Rae						
113H - OH - Prelim Plan A	891.61	890.77	19.46	13.54	3.286	CC
113H - OH - Prelim Plan A	900.00	899.11	19.47	13.49	3.256	SF
113H - OH - Prelim Plan A	1,000.00	998.63	21.66	14.97	3.235	ES
123H - OH - Prelim Plan A	995.62	992.33	50.32	43.68	7.576	CC
123H - OH - Prelim Plan A	1,000.00	996.67	50.32	43.65	7.540	ES
123H - OH - Prelim Plan A	9,800.00	9,791.54	100.50	47.82	1.908	SF
134H - OH - Prelim Plan A	400.00	400.00	42.43	40.33	20.205	CC, ES
134H - OH - Prelim Plan A	15,611.99	15,618.32	1,322.18	1,148.11	7.595	SF
203H - OH - Prelim Plan A	200.00	200.00	90.01	89.03	92.479	CC, ES
203H - OH - Prelim Plan A	15,611.99	15,710.37	343.41	174.36	2.031	SF
204H - OH - Prelim Plan A	115.28	115.28	30.02	29.65	82.048	CC
204H - OH - Prelim Plan A	200.00	199.98	30.02	29.05	30.854	ES
204H - OH - Prelim Plan A	15,611.99	15,701.64	992.48	818.04	5.690	SF

Offset Design													Offset Site Error:	
Verna Rae - 113H - OH - Prelim Plan A													0.00 usft	
Survey Program: 0-MWD - OWSG, 3000-MWD - OWSG, 8900-MWD - OWSG													Offset Well Error:	
													0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.00	30.00					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.74	0.26	117.047		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-30.00	30.00	29.03	0.97	30.825		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-30.00	30.00	28.31	1.69	17.749		
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-30.00	30.00	27.59	2.41	12.463		
500.00	499.99	500.01	499.99	1.56	1.56	-39.73	0.00	-30.00	29.32	26.20	3.12	9.395		
600.00	599.96	600.04	599.96	1.91	1.92	-43.25	0.00	-30.00	27.36	23.53	3.83	7.136		
700.00	699.86	700.14	699.86	2.27	2.28	-50.31	0.00	-30.00	24.37	19.82	4.55	5.356		
800.00	799.68	799.68	799.68	2.63	2.64	-63.25	0.00	-30.00	21.00	15.73	5.27	3.987		
891.61	891.01	890.77	890.76	2.97	2.95	-81.51	-0.07	-30.72	19.46	13.54	5.92	3.286 CC		
900.00	899.37	899.11	899.10	3.00	2.98	-83.37	-0.09	-30.85	19.47	13.49	5.98	3.256 ES		
1,000.00	998.99	998.63	998.59	3.37	3.33	-102.23	-0.35	-33.42	21.66	14.97	6.70	3.235 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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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
Reference		Offset		Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
1,100.00	1,098.60	1,098.24	1,098.10	3.74	3.67	-112.85	-0.79	-37.72	26.28	18.87	7.41	3.546			
1,200.00	1,198.22	1,197.89	1,197.57	4.12	4.02	-117.13	-1.41	-43.74	32.00	23.86	8.13	3.934			
1,300.00	1,297.84	1,302.50	1,296.88	4.50	4.40	-117.58	-2.20	-51.47	38.30	29.42	8.88	4.314			
1,400.00	1,397.46	1,402.71	1,396.28	4.87	4.76	-116.79	-3.09	-60.12	44.87	35.26	9.62	4.667			
1,500.00	1,497.08	1,502.93	1,495.68	5.25	5.13	-116.20	-3.98	-68.77	51.46	41.10	10.36	4.968			
1,600.00	1,596.70	1,603.15	1,595.09	5.63	5.50	-115.74	-4.86	-77.43	58.04	46.94	11.10	5.229			
1,700.00	1,696.32	1,703.37	1,694.49	6.01	5.87	-115.38	-5.75	-86.08	64.63	52.78	11.85	5.455			
1,800.00	1,795.94	1,803.59	1,793.89	6.39	6.24	-115.08	-6.64	-94.73	71.22	58.62	12.59	5.654			
1,900.00	1,895.56	1,903.80	1,893.29	6.77	6.62	-114.84	-7.53	-103.38	77.81	64.46	13.34	5.831			
2,000.00	1,995.18	2,004.02	1,992.70	7.15	6.99	-114.63	-8.41	-112.03	84.40	70.30	14.10	5.988			
2,100.00	2,094.80	2,104.24	2,092.10	7.53	7.37	-114.45	-9.30	-120.68	90.99	76.15	14.85	6.128			
2,200.00	2,194.42	2,204.46	2,191.50	7.91	7.75	-114.30	-10.19	-129.33	97.59	81.99	15.60	6.255			
2,300.00	2,294.04	2,304.68	2,290.90	8.29	8.13	-114.16	-11.08	-137.98	104.18	87.83	16.36	6.370			
2,400.00	2,393.66	2,404.89	2,390.30	8.68	8.51	-114.05	-11.96	-146.64	110.78	93.67	17.11	6.474			
2,500.00	2,493.28	2,505.11	2,489.71	9.06	8.89	-113.94	-12.85	-155.29	117.37	99.51	17.87	6.569			
2,600.00	2,592.90	2,605.33	2,589.11	9.44	9.27	-113.85	-13.74	-163.94	123.97	105.35	18.62	6.657			
2,700.00	2,692.52	2,705.55	2,688.51	9.82	9.65	-113.76	-14.62	-172.59	130.57	111.19	19.38	6.737			
2,800.00	2,792.14	2,805.77	2,787.91	10.20	10.03	-113.69	-15.51	-181.24	137.16	117.03	20.14	6.812			
2,900.00	2,891.76	2,905.98	2,887.32	10.58	10.41	-113.62	-16.40	-189.89	143.76	122.86	20.89	6.880			
3,000.00	2,991.37	2,993.80	2,986.72	10.97	10.75	-113.56	-17.29	-198.54	150.36	128.75	21.61	6.959			
3,100.00	3,090.99	3,094.02	3,086.57	11.18	10.89	-113.56	-18.16	-207.06	156.89	134.94	21.95	7.148			
3,200.00	3,190.61	3,194.82	3,187.12	11.22	10.93	-114.06	-18.88	-214.13	162.90	140.87	22.03	7.394			
3,300.00	3,290.23	3,295.62	3,287.78	11.28	10.97	-115.09	-19.43	-219.44	168.34	146.20	22.13	7.606			
3,400.00	3,389.85	3,396.35	3,388.44	11.36	11.02	-116.61	-19.79	-222.98	173.28	151.03	22.25	7.788			
3,500.00	3,489.47	3,496.96	3,489.03	11.44	11.08	-118.59	-19.98	-224.77	177.84	155.46	22.38	7.947			
3,600.00	3,589.09	3,602.99	3,589.09	11.54	11.14	-120.93	-20.00	-225.00	182.24	159.72	22.52	8.092			
3,705.73	3,694.41	3,702.34	3,694.41	11.66	11.21	-123.34	-20.00	-225.00	187.16	164.48	22.68	8.252			
3,800.00	3,788.39	3,803.68	3,788.39	11.77	11.29	-125.23	-20.00	-225.00	191.36	168.51	22.85	8.375			
3,900.00	3,888.20	3,903.88	3,888.20	11.88	11.38	-126.75	-20.00	-225.00	195.01	171.97	23.04	8.465			
4,000.00	3,988.10	4,003.98	3,988.10	12.00	11.49	-127.81	-20.00	-225.00	197.71	174.47	23.24	8.506			
4,100.00	4,088.06	4,104.02	4,088.06	12.12	11.60	-128.44	-20.00	-225.00	199.39	175.92	23.47	8.496			
4,205.73	4,193.78	4,201.70	4,193.78	12.25	11.72	180.00	-20.00	-225.00	200.00	176.29	23.71	8.435			
4,300.00	4,288.05	4,304.02	4,288.05	12.37	11.85	180.00	-20.00	-225.00	200.00	176.04	23.96	8.346			
4,400.00	4,388.05	4,404.02	4,388.05	12.50	11.99	180.00	-20.00	-225.00	200.00	175.47	24.24	8.251			
4,500.00	4,488.05	4,504.02	4,488.05	12.64	12.14	180.00	-20.00	-225.00	200.00	175.77	24.53	8.152			
4,600.00	4,588.05	4,604.02	4,588.05	12.79	12.30	180.00	-20.00	-225.00	200.00	175.16	24.84	8.050			
4,700.00	4,688.05	4,704.02	4,688.05	12.95	12.46	180.00	-20.00	-225.00	200.00	174.83	25.17	7.946			
4,800.00	4,788.05	4,804.02	4,788.05	13.11	12.64	180.00	-20.00	-225.00	200.00	174.49	25.51	7.839			
4,900.00	4,888.05	4,904.02	4,888.05	13.29	12.82	180.00	-20.00	-225.00	200.00	174.13	25.87	7.730			
5,000.00	4,988.05	5,004.02	4,988.05	13.47	13.01	180.00	-20.00	-225.00	200.00	173.75	26.25	7.620			
5,100.00	5,088.05	5,104.02	5,088.05	13.65	13.21	180.00	-20.00	-225.00	200.00	173.37	26.63	7.510			
5,200.00	5,188.05	5,204.02	5,188.05	13.85	13.41	180.00	-20.00	-225.00	200.00	172.97	27.03	7.398			
5,300.00	5,288.05	5,304.02	5,288.05	14.05	13.62	180.00	-20.00	-225.00	200.00	172.55	27.45	7.287			
5,400.00	5,388.05	5,404.02	5,388.05	14.25	13.83	180.00	-20.00	-225.00	200.00	172.13	27.87	7.176			
5,500.00	5,488.05	5,504.02	5,488.05	14.47	14.06	180.00	-20.00	-225.00	200.00	171.69	28.31	7.065			
5,600.00	5,588.05	5,604.02	5,588.05	14.69	14.28	180.00	-20.00	-225.00	200.00	171.24	28.76	6.955			
5,700.00	5,688.05	5,704.02	5,688.05	14.91	14.51	180.00	-20.00	-225.00	200.00	170.78	29.22	6.845			
5,800.00	5,788.05	5,804.02	5,788.05	15.14	14.75	180.00	-20.00	-225.00	200.00	170.31	29.69	6.737			
5,900.00	5,888.05	5,904.02	5,888.05	15.37	14.99	180.00	-20.00	-225.00	200.00	169.83	30.17	6.630			
6,000.00	5,988.05	6,004.02	5,988.05	15.61	15.24	180.00	-20.00	-225.00	200.00	169.34	30.66	6.524			
6,100.00	6,088.05	6,104.02	6,088.05	15.86	15.49	180.00	-20.00	-225.00	200.00	168.85	31.15	6.420			
6,200.00	6,188.05	6,204.02	6,188.05	16.10	15.75	180.00	-20.00	-225.00	200.00	168.34	31.66	6.317			

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,300.00	6,288.05	6,304.02	6,288.05	16.35	16.01	180.00	-20.00	-225.00	200.00	167.83	32.17	6.216		
6,400.00	6,388.05	6,404.02	6,388.05	16.61	16.27	180.00	-20.00	-225.00	200.00	167.31	32.69	6.117		
6,500.00	6,488.05	6,504.02	6,488.05	16.87	16.54	180.00	-20.00	-225.00	200.00	166.78	33.22	6.020		
6,600.00	6,588.05	6,604.02	6,588.05	17.13	16.81	180.00	-20.00	-225.00	200.00	166.24	33.76	5.924		
6,700.00	6,688.05	6,704.02	6,688.05	17.40	17.08	180.00	-20.00	-225.00	200.00	165.70	34.30	5.831		
6,800.00	6,788.05	6,804.02	6,788.05	17.67	17.36	180.00	-20.00	-225.00	200.00	165.15	34.85	5.739		
6,900.00	6,888.05	6,904.02	6,888.05	17.94	17.63	180.00	-20.00	-225.00	200.00	164.60	35.40	5.649		
7,000.00	6,988.05	7,004.02	6,988.05	18.22	17.92	180.00	-20.00	-225.00	200.00	164.04	35.96	5.561		
7,100.00	7,088.05	7,104.02	7,088.05	18.49	18.20	180.00	-20.00	-225.00	200.00	163.47	36.53	5.475		
7,200.00	7,188.05	7,204.02	7,188.05	18.78	18.49	180.00	-20.00	-225.00	200.00	162.90	37.10	5.391		
7,300.00	7,288.05	7,304.02	7,288.05	19.06	18.78	180.00	-20.00	-225.00	200.00	162.32	37.68	5.308		
7,400.00	7,388.05	7,404.02	7,388.05	19.35	19.07	180.00	-20.00	-225.00	200.00	161.74	38.26	5.228		
7,500.00	7,488.05	7,504.02	7,488.05	19.63	19.36	180.00	-20.00	-225.00	200.00	161.16	38.84	5.149		
7,600.00	7,588.05	7,604.02	7,588.05	19.93	19.66	180.00	-20.00	-225.00	200.00	160.57	39.43	5.072		
7,700.00	7,688.05	7,704.02	7,688.05	20.22	19.96	180.00	-20.00	-225.00	200.00	159.97	40.03	4.996		
7,800.00	7,788.05	7,804.02	7,788.05	20.51	20.26	180.00	-20.00	-225.00	200.00	159.37	40.63	4.923		
7,900.00	7,888.05	7,904.02	7,888.05	20.81	20.56	180.00	-20.00	-225.00	200.00	158.77	41.23	4.851		
8,000.00	7,988.05	8,004.02	7,988.05	21.11	20.87	180.00	-20.00	-225.00	200.00	158.17	41.83	4.781		
8,100.00	8,088.05	8,104.02	8,088.05	21.41	21.17	180.00	-20.00	-225.00	200.00	157.56	42.44	4.712		
8,200.00	8,188.05	8,204.02	8,188.05	21.71	21.48	180.00	-20.00	-225.00	200.00	156.95	43.05	4.645		
8,300.00	8,288.05	8,304.02	8,288.05	22.02	21.79	180.00	-20.00	-225.00	200.00	156.33	43.67	4.580		
8,400.00	8,388.05	8,404.02	8,388.05	22.32	22.10	180.00	-20.00	-225.00	200.00	155.71	44.29	4.516		
8,500.00	8,488.05	8,504.02	8,488.05	22.63	22.41	180.00	-20.00	-225.00	200.00	155.09	44.91	4.453		
8,600.00	8,588.05	8,604.02	8,588.05	22.94	22.72	180.00	-20.00	-225.00	200.00	154.47	45.53	4.392		
8,700.00	8,688.05	8,704.02	8,688.05	23.25	23.04	180.00	-20.00	-225.00	200.00	153.84	46.16	4.333		
8,800.00	8,788.05	8,804.02	8,788.05	23.56	23.35	180.00	-20.00	-225.00	200.00	153.22	46.78	4.275		
8,900.00	8,888.05	8,895.98	8,888.05	23.88	23.50	180.00	-20.00	-225.00	200.00	152.76	47.24	4.233		
8,901.69	8,889.74	8,902.34	8,889.74	23.88	23.50	180.00	-20.00	-225.00	200.00	152.74	47.26	4.232		
9,000.00	8,988.05	8,978.77	8,970.79	24.19	23.51	180.00	-22.08	-225.00	202.82	155.36	47.46	4.274		
9,100.00	9,088.05	9,050.00	9,041.20	24.51	23.52	180.00	-32.54	-224.99	217.64	170.39	47.25	4.607		
9,200.00	9,188.05	9,119.86	9,108.48	24.82	23.54	179.99	-51.19	-224.97	244.51	197.74	46.76	5.229		
9,300.00	9,288.05	9,183.34	9,167.23	25.14	23.58	179.99	-75.13	-224.95	282.30	236.26	46.04	6.132		
9,400.00	9,388.05	9,240.80	9,217.85	25.46	23.62	179.99	-102.29	-224.93	329.63	284.42	45.21	7.291		
9,500.00	9,488.05	9,292.09	9,260.52	25.78	23.66	179.98	-130.70	-224.91	385.10	340.73	44.38	8.678		
9,600.00	9,588.05	9,337.44	9,296.01	26.10	23.72	179.98	-158.91	-224.88	447.38	403.78	43.60	10.261		
9,700.00	9,688.05	9,377.35	9,325.32	26.42	23.78	179.98	-186.00	-224.86	515.30	472.38	42.92	12.007		
9,800.00	9,788.05	9,412.43	9,349.47	26.74	23.84	179.98	-211.44	-224.84	587.87	545.53	42.34	13.884		
9,900.00	9,888.05	9,450.00	9,373.54	27.07	23.91	179.97	-240.27	-224.82	664.34	622.31	42.03	15.807		
10,000.00	9,988.05	9,470.48	9,385.86	27.39	23.96	179.97	-256.63	-224.80	743.83	702.32	41.51	17.920		
10,100.00	10,088.05	9,500.00	9,402.56	27.72	24.03	179.97	-280.97	-224.78	826.07	784.73	41.33	19.985		
10,200.00	10,188.05	9,515.87	9,411.02	27.88	24.08	179.97	-294.40	-224.77	910.40	869.46	40.94	22.236		
10,298.95	10,287.00	9,534.71	9,420.57	27.89	24.13	179.97	-310.63	-224.76	995.70	954.97	40.73	24.443		
10,300.00	10,288.05	9,534.90	9,420.66	27.89	24.13	0.02	-310.80	-224.76	996.62	955.88	40.73	24.467		
10,350.00	10,337.99	9,550.00	9,427.93	27.89	24.18	0.01	-324.04	-224.75	1,039.22	998.51	40.71	25.527		
10,400.00	10,387.53	9,550.00	9,427.93	27.89	24.18	0.01	-324.04	-224.75	1,079.82	1,039.35	40.47	26.681		
10,450.00	10,436.31	9,565.48	9,435.01	27.88	24.23	0.01	-337.81	-224.73	1,118.31	1,077.90	40.41	27.676		
10,500.00	10,483.95	9,577.01	9,440.04	27.88	24.27	0.01	-348.18	-224.73	1,154.59	1,114.30	40.28	28.662		
10,550.00	10,530.10	9,600.00	9,449.44	27.87	24.35	0.01	-369.16	-224.71	1,188.64	1,148.38	40.26	29.521		
10,600.00	10,574.39	9,600.00	9,449.44	27.88	24.35	0.01	-369.16	-224.71	1,219.91	1,179.89	40.01	30.487		
10,650.00	10,616.50	9,600.00	9,449.44	27.88	24.35	0.01	-369.16	-224.71	1,249.00	1,209.21	39.78	31.396		
10,700.00	10,656.10	9,627.86	9,459.70	27.89	24.47	0.01	-395.06	-224.69	1,274.86	1,235.07	39.79	32.042		
10,750.00	10,692.89	9,650.00	9,466.94	27.91	24.56	0.01	-415.98	-224.67	1,298.32	1,258.58	39.74	32.671		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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, 8900-MWD - OWSG														
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,800.00	10,726.59	9,650.00	9,466.94	27.94	24.56	0.01	-415.98	-224.67	1,318.79	1,279.25	39.54	33.352		
10,850.00	10,756.94	9,669.46	9,472.63	27.97	24.65	0.01	-434.58	-224.65	1,336.38	1,296.89	39.49	33.840		
10,900.00	10,783.72	9,683.74	9,476.41	28.02	24.72	0.01	-448.36	-224.64	1,351.04	1,311.63	39.42	34.274		
10,950.00	10,806.72	9,700.00	9,480.29	28.08	24.79	0.01	-464.14	-224.63	1,362.72	1,323.34	39.37	34.610		
11,000.00	10,825.76	9,700.00	9,480.29	28.17	24.79	0.01	-464.14	-224.63	1,371.55	1,332.27	39.27	34.922		
11,050.00	10,840.71	9,727.33	9,485.80	28.28	24.94	0.01	-490.91	-224.61	1,376.92	1,337.61	39.31	35.025		
11,100.00	10,851.44	9,750.00	9,489.39	28.42	25.06	0.01	-513.29	-224.59	1,379.50	1,340.16	39.34	35.062		
11,150.00	10,857.87	9,750.00	9,489.39	28.58	25.06	0.01	-513.29	-224.59	1,378.90	1,339.57	39.33	35.063		
11,198.94	10,859.96	9,771.00	9,491.93	28.77	25.18	0.01	-534.14	-224.57	1,375.29	1,335.90	39.39	34.914		
11,200.00	10,859.96	9,771.31	9,491.96	28.78	25.18	0.01	-534.45	-224.57	1,375.18	1,335.79	39.39	34.909		
11,300.00	10,859.96	9,800.00	9,494.18	29.23	25.35	0.01	-563.05	-224.55	1,367.53	1,327.96	39.57	34.564		
11,400.00	10,859.96	9,830.99	9,494.96	29.78	25.54	0.01	-594.03	-224.52	1,365.00	1,325.15	39.86	34.248		
11,500.00	10,859.96	9,930.99	9,494.96	30.41	26.23	0.01	-694.03	-224.44	1,365.00	1,324.77	40.23	33.932		
11,600.00	10,859.96	10,030.99	9,494.96	31.12	26.99	0.01	-794.03	-224.35	1,365.00	1,324.35	40.65	33.577		
11,700.00	10,859.96	10,130.99	9,494.96	31.90	27.84	0.01	-894.03	-224.27	1,365.00	1,323.87	41.14	33.183		
11,800.00	10,859.96	10,230.99	9,494.96	32.75	28.76	0.01	-994.03	-224.19	1,365.00	1,323.33	41.67	32.757		
11,900.00	10,859.96	10,330.99	9,494.96	33.66	29.75	0.01	-1,094.03	-224.10	1,365.00	1,322.74	42.26	32.301		
12,000.00	10,859.97	10,430.99	9,494.96	34.62	30.79	0.01	-1,194.03	-224.02	1,365.00	1,322.10	42.90	31.820		
12,100.00	10,859.97	10,530.99	9,494.97	35.64	31.89	0.00	-1,294.03	-223.94	1,365.00	1,321.42	43.58	31.320		
12,200.00	10,859.97	10,630.99	9,494.97	36.71	33.03	0.00	-1,394.03	-223.85	1,365.00	1,320.69	44.31	30.803		
12,300.00	10,859.97	10,730.99	9,494.97	37.82	34.22	0.00	-1,494.03	-223.77	1,365.00	1,319.91	45.09	30.274		
12,400.00	10,859.97	10,830.99	9,494.97	38.96	35.45	0.00	-1,594.03	-223.68	1,365.00	1,319.10	45.90	29.736		
12,500.00	10,859.97	10,930.99	9,494.97	40.15	36.71	0.00	-1,694.03	-223.60	1,365.00	1,318.24	46.76	29.193		
12,600.00	10,859.97	11,030.99	9,494.97	41.37	38.00	0.00	-1,794.03	-223.52	1,365.00	1,317.35	47.65	28.647		
12,700.00	10,859.97	11,130.99	9,494.97	42.62	39.33	0.00	-1,894.03	-223.43	1,365.00	1,316.43	48.57	28.102		
12,800.00	10,859.97	11,230.99	9,494.97	43.89	40.67	0.00	-1,994.03	-223.35	1,365.00	1,315.47	49.53	27.558		
12,900.00	10,859.97	11,330.99	9,494.97	45.19	42.04	0.00	-2,094.03	-223.27	1,365.00	1,314.48	50.52	27.019		
13,000.00	10,859.98	11,430.99	9,494.97	46.52	43.43	0.00	-2,194.03	-223.18	1,365.00	1,313.46	51.54	26.486		
13,100.00	10,859.98	11,530.99	9,494.98	47.87	44.84	0.00	-2,294.03	-223.10	1,365.00	1,312.42	52.58	25.959		
13,200.00	10,859.98	11,630.99	9,494.98	49.23	46.27	0.00	-2,394.03	-223.02	1,365.00	1,311.35	53.65	25.442		
13,300.00	10,859.98	11,730.99	9,494.98	50.62	47.71	0.00	-2,494.03	-222.93	1,365.00	1,310.25	54.75	24.933		
13,400.00	10,859.98	11,830.99	9,494.98	52.02	49.17	0.00	-2,594.03	-222.85	1,365.00	1,309.14	55.86	24.434		
13,500.00	10,859.98	11,930.99	9,494.98	53.43	50.64	0.00	-2,694.03	-222.77	1,365.00	1,308.00	57.00	23.947		
13,600.00	10,859.98	12,030.99	9,494.98	54.86	52.12	0.00	-2,794.03	-222.68	1,365.00	1,306.84	58.16	23.470		
13,700.00	10,859.98	12,130.99	9,494.98	56.31	53.62	0.00	-2,894.03	-222.60	1,365.00	1,305.66	59.34	23.004		
13,800.00	10,859.98	12,230.99	9,494.98	57.76	55.12	0.00	-2,994.03	-222.51	1,365.00	1,304.47	60.53	22.550		
13,900.00	10,859.98	12,330.99	9,494.98	59.23	56.63	0.00	-3,094.03	-222.43	1,365.00	1,303.26	61.74	22.107		
14,000.00	10,859.98	12,430.99	9,494.98	60.71	58.15	0.00	-3,194.03	-222.35	1,365.00	1,302.03	62.97	21.676		
14,100.00	10,859.99	12,530.99	9,494.99	62.20	59.68	0.00	-3,294.03	-222.26	1,365.00	1,300.79	64.21	21.257		
14,200.00	10,859.99	12,630.99	9,494.99	63.69	61.22	0.00	-3,394.03	-222.18	1,365.00	1,299.53	65.47	20.849		
14,300.00	10,859.99	12,730.99	9,494.99	65.20	62.76	0.00	-3,494.03	-222.10	1,365.00	1,298.26	66.74	20.453		
14,400.00	10,859.99	12,830.99	9,494.99	66.71	64.31	0.00	-3,594.02	-222.01	1,365.00	1,296.98	68.02	20.067		
14,500.00	10,859.99	12,930.99	9,494.99	68.23	65.86	0.00	-3,694.02	-221.93	1,365.00	1,295.69	69.32	19.693		
14,600.00	10,859.99	13,030.99	9,494.99	69.75	67.42	0.00	-3,794.02	-221.85	1,365.00	1,294.38	70.62	19.329		
14,700.00	10,859.99	13,130.99	9,494.99	71.28	68.99	0.00	-3,894.02	-221.76	1,365.00	1,293.06	71.94	18.975		
14,800.00	10,859.99	13,230.99	9,494.99	72.82	70.56	0.00	-3,994.02	-221.68	1,365.00	1,291.74	73.26	18.632		
14,900.00	10,859.99	13,330.99	9,494.99	74.37	72.13	0.00	-4,094.02	-221.60	1,365.00	1,290.40	74.60	18.299		
15,000.00	10,859.99	13,430.99	9,494.99	75.92	73.71	0.00	-4,194.02	-221.51	1,365.00	1,289.06	75.94	17.975		
15,100.00	10,860.00	13,530.99	9,495.00	77.47	75.29	0.00	-4,294.02	-221.43	1,365.00	1,287.71	77.29	17.660		
15,200.00	10,860.00	13,630.99	9,495.00	79.03	76.88	0.00	-4,394.02	-221.34	1,365.00	1,286.35	78.65	17.355		
15,300.00	10,860.00	13,730.99	9,495.00	80.59	78.46	0.00	-4,494.02	-221.26	1,365.00	1,284.98	80.02	17.058		
15,400.00	10,860.00	13,830.99	9,495.00	82.16	80.06	0.00	-4,594.02	-221.18	1,365.00	1,283.60	81.40	16.770		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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
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	
15,500.00	10,860.00	13,930.99	9,495.00	83.73	81.65	0.00	-4,694.02	-221.09	1,365.00	1,282.22	82.78	16.490		
15,600.00	10,860.00	14,030.99	9,495.00	85.30	83.25	0.00	-4,794.02	-221.01	1,365.00	1,280.83	84.17	16.218		
15,611.99	10,860.00	14,042.98	9,495.00	85.49	83.44	0.00	-4,806.01	-221.00	1,365.00	1,280.67	84.33	16.186		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-60.00	60.00					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-60.00	60.00	59.74	0.26	234.094		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-60.00	60.00	59.03	0.97	61.649		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-60.00	60.00	58.31	1.69	35.499		
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-60.00	60.00	57.59	2.41	24.926		
500.00	499.99	500.01	499.99	1.56	1.56	-39.19	0.00	-60.00	59.32	56.20	3.12	19.007		
600.00	599.96	599.96	599.96	1.91	1.92	-40.86	0.00	-60.00	57.32	53.48	3.83	14.950		
700.00	699.86	699.05	699.05	2.27	2.27	-43.41	0.37	-60.77	54.83	50.29	4.54	12.078		
800.00	799.68	798.20	798.16	2.63	2.62	-46.53	1.50	-63.08	52.71	47.46	5.25	10.048		
900.00	899.37	897.40	897.26	3.00	2.97	-50.22	3.37	-66.94	51.00	45.05	5.96	8.563		
995.62	994.63	992.33	992.02	3.35	3.31	-53.51	5.86	-72.08	50.32	43.68	6.64	7.576 CC		
1,000.00	998.99	996.67	996.35	3.37	3.33	-53.64	5.99	-72.35	50.32	43.65	6.67	7.540 ES		
1,100.00	1,098.60	1,104.03	1,095.35	3.74	3.72	-55.79	9.36	-79.30	51.07	43.65	7.42	6.879		
1,200.00	1,198.22	1,204.05	1,194.95	4.12	4.09	-57.17	13.16	-87.14	52.56	44.41	8.16	6.444		
1,300.00	1,297.84	1,304.07	1,294.55	4.50	4.46	-58.47	16.96	-94.98	54.08	45.19	8.89	6.081		
1,400.00	1,397.46	1,404.09	1,394.15	4.87	4.83	-59.70	20.76	-102.83	55.63	45.99	9.63	5.774		
1,500.00	1,497.08	1,504.10	1,493.75	5.25	5.20	-60.86	24.57	-110.67	57.20	46.82	10.38	5.512		
1,600.00	1,596.70	1,595.88	1,593.36	5.63	5.55	-61.96	28.37	-118.51	58.79	47.70	11.09	5.300		
1,700.00	1,696.32	1,704.14	1,692.96	6.01	5.96	-63.00	32.17	-126.35	60.40	48.53	11.87	5.089		
1,800.00	1,795.94	1,804.16	1,792.56	6.39	6.33	-63.99	35.97	-134.19	62.03	49.41	12.62	4.916		
1,900.00	1,895.56	1,895.82	1,892.16	6.77	6.68	-64.92	39.77	-142.03	63.68	50.34	13.34	4.774		
2,000.00	1,995.18	2,004.20	1,991.76	7.15	7.09	-65.81	43.57	-149.87	65.34	51.22	14.12	4.627		
2,100.00	2,094.80	2,104.22	2,091.36	7.53	7.47	-66.65	47.38	-157.71	67.02	52.15	14.88	4.505		
2,200.00	2,194.42	2,204.24	2,190.96	7.91	7.85	-67.46	51.18	-165.55	68.72	53.09	15.63	4.396		
2,300.00	2,294.04	2,304.26	2,290.56	8.29	8.23	-68.22	54.98	-173.39	70.42	54.04	16.39	4.297		
2,400.00	2,393.66	2,404.27	2,390.16	8.68	8.61	-68.95	58.78	-181.23	72.14	55.00	17.15	4.208		
2,500.00	2,493.28	2,504.29	2,489.76	9.06	8.99	-69.64	62.58	-189.08	73.87	55.97	17.90	4.126		
2,600.00	2,592.90	2,595.69	2,589.36	9.44	9.34	-70.30	66.38	-196.92	75.61	56.98	18.63	4.059		
2,700.00	2,692.52	2,695.67	2,688.96	9.82	9.72	-70.94	70.19	-204.76	77.36	57.97	19.39	3.990		
2,800.00	2,792.14	2,796.31	2,789.28	10.20	10.10	-72.01	73.69	-211.98	78.73	58.58	20.15	3.907		
2,900.00	2,891.76	2,896.95	2,889.72	10.58	10.47	-74.15	76.42	-217.62	79.28	58.36	20.92	3.789		
3,000.00	2,991.37	2,997.48	2,990.15	10.97	10.84	-77.40	78.38	-221.66	79.17	57.48	21.70	3.649		
3,100.00	3,090.99	3,097.84	3,090.47	11.18	11.03	-81.83	79.57	-224.12	78.67	56.54	22.13	3.555		
3,200.00	3,190.61	3,197.96	3,190.59	11.22	11.05	-87.51	80.00	-225.00	78.16	55.93	22.23	3.516		
3,239.13	3,229.59	3,236.96	3,229.59	11.25	11.06	-90.00	80.00	-225.00	78.09	55.81	22.27	3.506		
3,300.00	3,290.23	3,302.40	3,290.23	11.28	11.07	-93.87	80.00	-225.00	78.27	55.93	22.34	3.504		
3,400.00	3,389.85	3,402.78	3,389.85	11.36	11.11	-100.14	80.00	-225.00	79.34	56.88	22.45	3.534		
3,500.00	3,489.47	3,503.16	3,489.47	11.44	11.15	-106.18	80.00	-225.00	81.33	58.76	22.57	3.604		
3,600.00	3,589.09	3,603.54	3,589.09	11.54	11.21	-111.86	80.00	-225.00	84.18	61.50	22.69	3.711		
3,705.73	3,694.41	3,701.79	3,694.41	11.66	11.28	-117.42	80.00	-225.00	88.04	65.23	22.81	3.859		
3,800.00	3,788.39	3,804.24	3,788.39	11.77	11.36	-121.57	80.00	-225.00	91.72	68.77	22.95	3.996		
3,900.00	3,888.20	3,904.43	3,888.20	11.88	11.45	-124.78	80.00	-225.00	95.12	72.01	23.11	4.116		
4,000.00	3,988.10	4,004.53	3,988.10	12.00	11.55	-126.95	80.00	-225.00	97.74	74.44	23.29	4.196		
4,100.00	4,088.06	4,104.57	4,088.06	12.12	11.66	-128.22	80.00	-225.00	99.39	75.89	23.50	4.229		
4,205.73	4,193.78	4,201.15	4,193.78	12.25	11.78	-180.00	80.00	-225.00	100.00	76.26	23.74	4.212		
4,300.00	4,288.05	4,304.57	4,288.05	12.37	11.91	-180.00	80.00	-225.00	100.00	76.00	24.00	4.167		
4,400.00	4,388.05	4,404.57	4,388.05	12.50	12.05	-180.00	80.00	-225.00	100.00	75.73	24.27	4.120		
4,500.00	4,488.05	4,504.57	4,488.05	12.64	12.20	-180.00	80.00	-225.00	100.00	75.44	24.56	4.071		
4,600.00	4,588.05	4,604.57	4,588.05	12.79	12.36	-180.00	80.00	-225.00	100.00	75.13	24.87	4.020		
4,700.00	4,688.05	4,704.57	4,688.05	12.95	12.52	-180.00	80.00	-225.00	100.00	74.80	25.20	3.988		
4,800.00	4,788.05	4,804.57	4,788.05	13.11	12.70	-180.00	80.00	-225.00	100.00	74.46	25.54	3.915		
4,900.00	4,888.05	4,904.57	4,888.05	13.29	12.88	-180.00	80.00	-225.00	100.00	74.10	25.90	3.861		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 Wall 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	
5,000.00	4,988.05	5,004.57	4,988.05	13.47	13.07	180.00	80.00	-225.00	100.00	73.73	26.27	3.806		
5,100.00	5,088.05	5,104.57	5,088.05	13.65	13.26	180.00	80.00	-225.00	100.00	73.34	26.66	3.751		
5,200.00	5,188.05	5,204.57	5,188.05	13.85	13.46	180.00	80.00	-225.00	100.00	72.94	27.06	3.696		
5,300.00	5,288.05	5,304.57	5,288.05	14.05	13.67	180.00	80.00	-225.00	100.00	72.53	27.47	3.640		
5,400.00	5,388.05	5,404.57	5,388.05	14.25	13.89	180.00	80.00	-225.00	100.00	72.10	27.90	3.585		
5,500.00	5,488.05	5,504.57	5,488.05	14.47	14.11	180.00	80.00	-225.00	100.00	71.67	28.33	3.529		
5,600.00	5,588.05	5,604.57	5,588.05	14.69	14.33	180.00	80.00	-225.00	100.00	71.22	28.78	3.474		
5,700.00	5,688.05	5,704.57	5,688.05	14.91	14.57	180.00	80.00	-225.00	100.00	70.76	29.24	3.420		
5,800.00	5,788.05	5,804.57	5,788.05	15.14	14.80	180.00	80.00	-225.00	100.00	70.29	29.71	3.366		
5,900.00	5,888.05	5,904.57	5,888.05	15.37	15.04	180.00	80.00	-225.00	100.00	69.81	30.19	3.312		
6,000.00	5,988.05	6,004.57	5,988.05	15.61	15.29	180.00	80.00	-225.00	100.00	69.32	30.68	3.260		
6,100.00	6,088.05	6,104.57	6,088.05	15.86	15.54	180.00	80.00	-225.00	100.00	68.82	31.18	3.208		
6,200.00	6,188.05	6,204.57	6,188.05	16.10	15.79	180.00	80.00	-225.00	100.00	68.32	31.68	3.156		
6,300.00	6,288.05	6,304.57	6,288.05	16.35	16.05	180.00	80.00	-225.00	100.00	67.81	32.19	3.106		
6,400.00	6,388.05	6,404.57	6,388.05	16.61	16.31	180.00	80.00	-225.00	100.00	67.28	32.72	3.057		
6,500.00	6,488.05	6,504.57	6,488.05	16.87	16.58	180.00	80.00	-225.00	100.00	66.76	33.24	3.008		
6,600.00	6,588.05	6,604.57	6,588.05	17.13	16.85	180.00	80.00	-225.00	100.00	66.22	33.78	2.960		
6,700.00	6,688.05	6,704.57	6,688.05	17.40	17.12	180.00	80.00	-225.00	100.00	65.68	34.32	2.914		
6,800.00	6,788.05	6,804.57	6,788.05	17.67	17.40	180.00	80.00	-225.00	100.00	65.13	34.87	2.868		
6,900.00	6,888.05	6,904.57	6,888.05	17.94	17.68	180.00	80.00	-225.00	100.00	64.58	35.42	2.823		
7,000.00	6,988.05	7,004.57	6,988.05	18.22	17.96	180.00	80.00	-225.00	100.00	64.02	35.98	2.779		
7,100.00	7,088.05	7,104.57	7,088.05	18.49	18.24	180.00	80.00	-225.00	100.00	63.45	36.55	2.736		
7,200.00	7,188.05	7,204.57	7,188.05	18.78	18.53	180.00	80.00	-225.00	100.00	62.88	37.12	2.694		
7,300.00	7,288.05	7,304.57	7,288.05	19.06	18.82	180.00	80.00	-225.00	100.00	62.30	37.70	2.653		
7,400.00	7,388.05	7,404.57	7,388.05	19.35	19.11	180.00	80.00	-225.00	100.00	61.72	38.28	2.613		
7,500.00	7,488.05	7,504.57	7,488.05	19.63	19.40	180.00	80.00	-225.00	100.00	61.14	38.86	2.573		
7,600.00	7,588.05	7,604.57	7,588.05	19.93	19.70	180.00	80.00	-225.00	100.00	60.55	39.45	2.535		
7,700.00	7,688.05	7,704.57	7,688.05	20.22	20.00	180.00	80.00	-225.00	100.00	59.96	40.04	2.497		
7,800.00	7,788.05	7,804.57	7,788.05	20.51	20.30	180.00	80.00	-225.00	100.00	59.36	40.64	2.460		
7,900.00	7,888.05	7,904.57	7,888.05	20.81	20.60	180.00	80.00	-225.00	100.00	58.76	41.24	2.425		
8,000.00	7,988.05	8,004.57	7,988.05	21.11	20.90	180.00	80.00	-225.00	100.00	58.15	41.85	2.390		
8,100.00	8,088.05	8,104.57	8,088.05	21.41	21.21	180.00	80.00	-225.00	100.00	57.54	42.46	2.355		
8,200.00	8,188.05	8,204.57	8,188.05	21.71	21.51	180.00	80.00	-225.00	100.00	56.93	43.07	2.322		
8,300.00	8,288.05	8,304.57	8,288.05	22.02	21.82	180.00	80.00	-225.00	100.00	56.32	43.68	2.289		
8,400.00	8,388.05	8,404.57	8,388.05	22.32	22.13	180.00	80.00	-225.00	100.00	55.70	44.30	2.257		
8,500.00	8,488.05	8,504.57	8,488.05	22.63	22.44	180.00	80.00	-225.00	100.00	55.08	44.92	2.226		
8,600.00	8,588.05	8,604.57	8,588.05	22.94	22.76	180.00	80.00	-225.00	100.00	54.45	45.55	2.196		
8,700.00	8,688.05	8,704.57	8,688.05	23.25	23.07	180.00	80.00	-225.00	100.00	53.83	46.17	2.166		
8,800.00	8,788.05	8,804.57	8,788.05	23.56	23.39	180.00	80.00	-225.00	100.00	53.20	46.80	2.137		
8,900.00	8,888.05	8,904.57	8,888.05	23.88	23.70	180.00	80.00	-225.00	100.00	52.57	47.43	2.108		
9,000.00	8,988.05	9,004.57	8,988.05	24.19	24.02	180.00	80.00	-225.00	100.00	51.93	48.07	2.080		
9,100.00	9,088.05	9,104.57	9,088.05	24.51	24.34	180.00	80.00	-225.00	100.00	51.29	48.71	2.053		
9,200.00	9,188.05	9,204.57	9,188.05	24.82	24.66	180.00	80.00	-225.00	100.00	50.66	49.34	2.027		
9,300.00	9,288.05	9,304.57	9,288.05	25.14	24.98	180.00	80.00	-225.00	100.00	50.02	49.98	2.001		
9,400.00	9,388.05	9,404.57	9,388.05	25.46	25.30	180.00	80.00	-225.00	100.00	49.37	50.63	1.975		
9,500.00	9,488.05	9,504.57	9,488.05	25.78	25.63	180.00	80.00	-225.00	100.00	48.73	51.27	1.950		
9,600.00	9,588.05	9,604.57	9,588.05	26.10	25.94	180.00	80.00	-225.00	100.00	48.09	51.91	1.926		
9,700.00	9,688.05	9,704.57	9,688.05	26.42	26.10	180.00	80.00	-225.00	100.00	47.61	52.39	1.909		
9,704.92	9,692.97	9,700.35	9,692.97	26.44	26.10	180.00	80.00	-225.00	100.00	47.59	52.41	1.908		
9,800.00	9,788.05	9,791.54	9,784.17	26.74	26.10	180.00	79.57	-225.00	100.50	47.82	52.69	1.908 SF		
9,900.00	9,888.05	9,875.47	9,867.49	27.07	26.11	180.00	70.21	-224.99	111.70	59.17	52.54	2.126		
10,000.00	9,988.05	9,955.05	9,944.45	27.39	26.12	179.99	50.18	-224.98	136.95	85.04	51.91	2.638		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,088.05	10,027.88	10,011.83	27.72	26.13	179.98	22.67	-224.95	174.83	123.83	50.99	3.428		
10,200.00	10,188.05	10,092.75	10,068.48	27.88	26.16	179.98	-8.86	-224.93	223.53	173.74	49.79	4.490		
10,298.95	10,287.00	10,150.00	10,115.24	27.89	26.19	179.97	-41.85	-224.90	280.57	231.94	48.63	5.770		
10,300.00	10,288.05	10,150.00	10,115.24	27.89	26.19	0.02	-41.85	-224.90	281.21	232.63	48.59	5.788		
10,350.00	10,337.99	10,175.93	10,135.29	27.89	26.20	0.02	-58.29	-224.89	311.11	263.13	47.98	6.484		
10,400.00	10,387.53	10,200.00	10,153.22	27.89	26.22	0.02	-74.35	-224.87	339.35	292.05	47.29	7.175		
10,450.00	10,436.31	10,228.50	10,173.55	27.88	26.25	0.01	-94.32	-224.86	365.83	319.02	46.80	7.817		
10,500.00	10,483.95	10,250.00	10,188.21	27.88	26.27	0.01	-110.04	-224.84	390.58	344.53	46.05	8.481		
10,550.00	10,530.10	10,280.80	10,208.17	27.87	26.30	0.01	-133.49	-224.83	413.41	367.75	45.66	9.054		
10,600.00	10,574.39	10,300.00	10,219.96	27.88	26.33	0.01	-148.65	-224.81	434.51	389.61	44.90	9.677		
10,650.00	10,616.50	10,332.90	10,238.97	27.88	26.38	0.01	-175.50	-224.79	453.50	408.91	44.59	10.170		
10,700.00	10,656.10	10,358.90	10,252.88	27.89	26.42	0.01	-197.46	-224.77	470.64	426.54	44.10	10.672		
10,750.00	10,692.89	10,384.86	10,265.76	27.91	26.48	0.01	-220.00	-224.75	485.80	442.15	43.65	11.130		
10,800.00	10,726.59	10,410.80	10,277.60	27.94	26.54	0.01	-243.08	-224.74	498.94	455.71	43.23	11.541		
10,850.00	10,756.94	10,436.72	10,288.37	27.97	26.60	0.01	-266.65	-224.72	510.05	467.18	42.87	11.899		
10,900.00	10,783.72	10,462.62	10,298.06	28.02	26.68	0.01	-290.67	-224.70	519.09	476.54	42.55	12.200		
10,950.00	10,806.72	10,488.51	10,306.65	28.08	26.76	0.01	-315.09	-224.68	526.06	483.78	42.29	12.440		
11,000.00	10,825.76	10,514.39	10,314.12	28.17	26.85	0.01	-339.86	-224.66	530.95	488.86	42.09	12.616		
11,050.00	10,840.71	10,540.26	10,320.47	28.28	26.94	0.01	-364.94	-224.64	533.73	491.78	41.94	12.725		
11,100.00	10,851.44	10,566.13	10,325.68	28.42	27.04	0.01	-390.28	-224.62	534.41	492.54	41.87	12.764		
11,150.00	10,857.87	10,600.00	10,330.76	28.58	27.19	0.01	-423.76	-224.59	533.09	491.20	41.89	12.726		
11,198.94	10,859.96	10,617.33	10,332.60	28.77	27.27	0.01	-440.99	-224.57	529.55	487.64	41.91	12.637		
11,200.00	10,859.96	10,617.88	10,332.65	28.78	27.27	0.04	-441.53	-224.57	529.45	487.54	41.91	12.634		
11,300.00	10,859.96	10,670.43	10,334.96	29.23	27.52	0.01	-494.02	-224.53	525.00	482.78	42.22	12.435		
11,400.00	10,859.96	10,770.43	10,334.96	29.78	28.09	0.01	-594.02	-224.45	525.00	482.46	42.54	12.340		
11,500.00	10,859.96	10,870.43	10,334.96	30.41	28.74	0.01	-694.02	-224.37	525.00	482.08	42.92	12.233		
11,600.00	10,859.96	10,970.43	10,334.96	31.12	29.46	0.01	-794.02	-224.28	525.00	481.65	43.35	12.112		
11,700.00	10,859.96	11,070.43	10,334.96	31.90	30.26	0.01	-894.02	-224.20	525.00	481.17	43.83	11.979		
11,800.00	10,859.96	11,170.43	10,334.96	32.75	31.13	0.01	-994.02	-224.12	525.00	480.64	44.36	11.836		
11,900.00	10,859.96	11,270.43	10,334.96	33.66	32.07	0.01	-1,094.02	-224.04	525.00	480.06	44.94	11.683		
12,000.00	10,859.97	11,370.43	10,334.96	34.62	33.06	0.01	-1,194.02	-223.96	525.00	479.44	45.56	11.522		
12,100.00	10,859.97	11,470.43	10,334.97	35.64	34.10	0.01	-1,294.02	-223.88	525.00	478.76	46.24	11.355		
12,200.00	10,859.97	11,570.43	10,334.97	36.71	35.19	0.01	-1,394.02	-223.79	525.00	478.05	46.95	11.182		
12,300.00	10,859.97	11,670.43	10,334.97	37.82	36.33	0.01	-1,494.02	-223.71	525.00	477.30	47.71	11.005		
12,400.00	10,859.97	11,770.43	10,334.97	38.96	37.51	0.01	-1,594.02	-223.63	525.00	476.50	48.50	10.825		
12,500.00	10,859.97	11,870.43	10,334.97	40.15	38.72	0.01	-1,694.02	-223.55	525.00	475.67	49.33	10.642		
12,600.00	10,859.97	11,970.43	10,334.97	41.37	39.96	0.01	-1,794.02	-223.47	525.00	474.80	50.20	10.458		
12,700.00	10,859.97	12,070.43	10,334.97	42.62	41.24	0.01	-1,894.02	-223.38	525.00	473.90	51.10	10.274		
12,800.00	10,859.97	12,170.43	10,334.97	43.89	42.54	0.01	-1,994.02	-223.30	525.00	472.97	52.03	10.090		
12,900.00	10,859.97	12,270.43	10,334.97	45.19	43.87	0.00	-2,094.02	-223.22	525.00	472.01	52.99	9.907		
13,000.00	10,859.98	12,370.43	10,334.97	46.52	45.22	0.00	-2,194.02	-223.14	525.00	471.02	53.99	9.725		
13,100.00	10,859.98	12,470.43	10,334.98	47.87	46.59	0.00	-2,294.02	-223.06	525.00	470.00	55.00	9.545		
13,200.00	10,859.98	12,570.43	10,334.98	49.23	47.98	0.00	-2,394.02	-222.97	525.00	468.95	56.05	9.367		
13,300.00	10,859.98	12,670.43	10,334.98	50.62	49.38	0.00	-2,494.02	-222.89	525.00	467.89	57.11	9.192		
13,400.00	10,859.98	12,770.43	10,334.98	52.02	50.80	0.00	-2,594.02	-222.81	525.00	466.80	58.20	9.020		
13,500.00	10,859.98	12,870.43	10,334.98	53.43	52.24	0.00	-2,694.02	-222.73	525.00	465.68	59.32	8.851		
13,600.00	10,859.98	12,970.43	10,334.98	54.86	53.69	0.00	-2,794.02	-222.65	525.00	464.55	60.45	8.685		
13,700.00	10,859.98	13,070.43	10,334.98	56.31	55.15	0.00	-2,894.02	-222.57	525.00	463.40	61.60	8.523		
13,800.00	10,859.98	13,170.43	10,334.98	57.76	56.63	0.00	-2,994.02	-222.48	525.00	462.23	62.77	8.364		
13,900.00	10,859.98	13,270.43	10,334.98	59.23	58.11	0.00	-3,094.02	-222.40	525.00	461.04	63.96	8.209		
14,000.00	10,859.98	13,370.43	10,334.98	60.71	59.60	0.00	-3,194.02	-222.32	525.00	459.84	65.16	8.057		
14,100.00	10,859.99	13,470.43	10,334.99	62.20	61.11	0.00	-3,294.02	-222.24	525.00	458.62	66.38	7.909		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
							+N/-S (usft)	+E/-W (usft)								
14,200.00	10,859.99	13,570.43	10,334.99	63.69	62.62	0.00	-3,394.02	-222.16	525.00	457.39	67.61	7.765				
14,300.00	10,859.99	13,670.43	10,334.99	65.20	64.14	0.00	-3,494.02	-222.07	525.00	456.14	68.86	7.625				
14,400.00	10,859.99	13,770.43	10,334.99	66.71	65.66	0.00	-3,594.02	-221.99	525.00	454.89	70.11	7.488				
14,500.00	10,859.99	13,870.43	10,334.99	68.23	67.20	0.00	-3,694.02	-221.91	525.00	453.61	71.39	7.354				
14,600.00	10,859.99	13,970.43	10,334.99	69.75	68.74	0.00	-3,794.02	-221.83	525.00	452.33	72.67	7.224				
14,700.00	10,859.99	14,070.43	10,334.99	71.28	70.28	0.00	-3,894.02	-221.75	525.00	451.04	73.96	7.098				
14,800.00	10,859.99	14,170.43	10,334.99	72.82	71.83	0.00	-3,994.02	-221.66	525.00	449.73	75.27	6.975				
14,900.00	10,859.99	14,270.43	10,334.99	74.37	73.39	0.00	-4,094.02	-221.58	525.00	448.42	76.58	6.855				
15,000.00	10,859.99	14,370.43	10,334.99	75.92	74.95	0.00	-4,194.02	-221.50	525.00	447.09	77.91	6.739				
15,100.00	10,860.00	14,470.43	10,335.00	77.47	76.51	0.00	-4,294.02	-221.42	525.00	445.76	79.24	6.625				
15,200.00	10,860.00	14,570.43	10,335.00	79.03	78.08	0.00	-4,394.02	-221.34	525.00	444.42	80.58	6.515				
15,300.00	10,860.00	14,670.43	10,335.00	80.59	79.66	0.00	-4,494.02	-221.26	525.00	443.07	81.93	6.408				
15,400.00	10,860.00	14,770.43	10,335.00	82.16	81.23	0.00	-4,594.02	-221.17	525.00	441.71	83.29	6.303				
15,500.00	10,860.00	14,870.43	10,335.00	83.73	82.81	0.00	-4,694.02	-221.09	525.00	440.35	84.65	6.202				
15,600.00	10,860.00	14,970.43	10,335.00	85.30	84.40	0.00	-4,794.02	-221.01	525.00	438.97	86.03	6.103				
15,611.99	10,860.00	14,982.42	10,335.00	85.49	84.59	0.00	-4,806.01	-221.00	525.00	438.81	86.19	6.091				

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 - 134H - 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							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)	Between Centres (usft)	Between Ellipses (usft)	Min/um Separation (usft)	Separation Factor		
0.00	0.00	100.00	100.00	0.00	0.00	135.00	-30.00	30.00	108.63					
100.00	100.00	100.00	100.00	0.13	0.00	135.00	-30.00	30.00	42.43	42.30	0.13	330.543		
200.00	200.00	200.00	200.00	0.49	0.18	135.00	-30.00	30.00	42.43	41.76	0.67	63.717		
300.00	300.00	300.00	300.00	0.85	0.54	135.00	-30.00	30.00	42.43	41.04	1.38	30.681		
400.00	400.00	400.00	400.00	1.20	0.90	135.00	-30.00	30.00	42.43	40.33	2.10	20.205 CC, ES		
500.00	499.99	500.01	499.99	1.56	1.25	-173.79	-30.00	30.00	43.29	40.48	2.81	15.386		
600.00	599.96	599.96	599.96	1.91	1.61	-174.14	-30.00	30.00	45.90	42.37	3.53	13.012		
700.00	699.86	699.36	699.35	2.27	1.96	-175.44	-29.83	30.85	50.74	46.50	4.23	11.981		
800.00	799.68	798.46	798.43	2.63	2.31	-177.97	-29.34	33.37	58.39	53.45	4.94	11.823		
900.00	899.37	897.14	897.01	3.00	2.66	179.00	-28.51	37.56	68.99	63.35	5.64	12.223		
1,000.00	998.99	995.36	995.05	3.37	3.01	175.94	-27.36	43.38	81.78	75.43	6.35	12.882		
1,100.00	1,098.60	1,093.16	1,092.55	3.74	3.36	173.03	-25.90	50.81	95.97	88.92	7.05	13.613		
1,200.00	1,198.22	1,190.48	1,189.44	4.12	3.72	170.31	-24.12	59.83	111.63	103.88	7.75	14.402		
1,300.00	1,297.84	1,287.27	1,285.63	4.50	4.09	167.80	-22.04	70.39	128.80	120.35	8.45	15.243		
1,400.00	1,397.46	1,383.49	1,381.05	4.87	4.46	165.52	-19.65	82.47	147.51	138.36	9.15	16.128		
1,500.00	1,497.08	1,479.07	1,475.63	5.25	4.84	163.45	-16.98	96.03	167.77	157.93	9.84	17.049		
1,600.00	1,596.70	1,573.98	1,569.30	5.63	5.22	161.56	-14.02	111.03	189.58	179.05	10.53	18.003		
1,700.00	1,696.32	1,668.17	1,662.00	6.01	5.62	159.86	-10.79	127.41	212.96	201.74	11.22	18.985		
1,800.00	1,795.94	1,761.61	1,753.66	6.39	6.03	158.31	-7.30	145.13	237.88	225.98	11.90	19.991		
1,900.00	1,895.56	1,856.47	1,846.48	6.77	6.45	156.90	-3.51	164.36	264.11	251.51	12.60	20.960		
2,000.00	1,995.18	1,952.75	1,940.65	7.15	6.89	155.71	0.37	184.00	290.58	277.26	13.32	21.816		
2,100.00	2,094.80	2,049.02	2,034.82	7.53	7.33	154.73	4.24	203.64	317.15	303.11	14.04	22.587		
2,200.00	2,194.42	2,145.29	2,128.99	7.91	7.77	153.89	8.11	223.27	343.79	329.03	14.76	23.286		
2,300.00	2,294.04	2,241.57	2,223.16	8.29	8.22	153.18	11.98	242.91	370.49	355.01	15.49	23.921		
2,400.00	2,393.66	2,337.84	2,317.33	8.68	8.68	152.56	15.85	262.55	397.24	381.03	16.21	24.501		
2,500.00	2,493.28	2,434.11	2,411.50	9.06	9.13	152.02	19.73	282.19	424.03	407.09	16.94	25.032		
2,600.00	2,592.90	2,530.39	2,505.67	9.44	9.59	151.54	23.60	301.83	450.84	433.18	17.67	25.519		
2,700.00	2,692.52	2,626.66	2,599.84	9.82	10.05	151.12	27.47	321.46	477.69	459.29	18.40	25.968		
2,800.00	2,792.14	2,722.93	2,694.01	10.20	10.51	150.74	31.34	341.10	504.55	485.43	19.12	26.383		
2,900.00	2,891.76	2,819.21	2,788.18	10.58	10.98	150.40	35.22	360.74	531.43	511.58	19.85	26.768		
3,000.00	2,991.37	2,915.48	2,882.35	10.97	11.44	150.09	39.09	380.38	558.33	537.75	20.58	27.126		
3,100.00	3,090.99	3,011.75	2,976.52	11.18	11.91	149.81	42.96	400.02	585.24	564.10	21.15	27.673		
3,200.00	3,190.61	3,108.03	3,070.69	11.22	12.37	149.56	46.83	419.66	612.17	590.62	21.55	28.409		
3,300.00	3,290.23	3,204.30	3,164.86	11.28	12.84	149.32	50.71	439.29	639.10	617.14	21.96	29.102		
3,400.00	3,389.85	3,300.57	3,259.03	11.36	13.31	149.11	54.58	458.93	666.04	643.66	22.39	29.753		
3,500.00	3,489.47	3,396.85	3,353.20	11.44	13.78	148.91	58.45	478.57	693.00	670.17	22.82	30.364		
3,600.00	3,589.09	3,506.88	3,447.37	11.54	14.32	148.73	62.32	498.21	719.95	696.63	23.33	30.866		
3,705.73	3,694.41	3,594.90	3,546.93	11.66	14.75	148.55	66.42	518.97	748.46	724.70	23.76	31.503		
3,800.00	3,788.39	3,685.83	3,635.87	11.77	15.19	148.50	70.07	537.52	773.25	749.05	24.20	31.951		
3,900.00	3,888.20	3,782.62	3,730.54	11.88	15.66	148.39	73.97	557.26	798.16	773.48	24.68	32.342		
4,000.00	3,988.10	3,879.74	3,825.54	12.00	16.14	148.22	77.87	577.07	821.64	796.48	25.16	32.651		
4,100.00	4,088.06	3,977.15	3,920.82	12.12	16.62	148.00	81.79	596.94	843.70	818.05	25.66	32.883		
4,205.73	4,193.78	4,080.43	4,021.84	12.25	17.12	96.37	85.95	618.01	865.49	839.31	26.19	33.052		
4,300.00	4,288.05	4,172.65	4,112.04	12.37	17.58	95.98	89.65	636.82	884.24	857.58	26.66	33.163		
4,400.00	4,388.05	4,270.46	4,207.72	12.50	18.06	95.60	93.59	656.77	904.16	876.98	27.18	33.267		
4,500.00	4,488.05	4,368.28	4,303.40	12.64	18.54	95.23	97.52	676.73	924.13	896.42	27.70	33.357		
4,600.00	4,588.05	4,466.09	4,399.08	12.79	19.02	94.87	101.46	696.68	944.13	915.89	28.24	33.435		
4,700.00	4,688.05	4,563.91	4,494.75	12.95	19.50	94.53	105.39	716.63	964.16	935.38	28.78	33.502		
4,800.00	4,788.05	4,661.72	4,590.43	13.11	19.98	94.20	109.33	736.58	984.22	954.89	29.33	33.558		
4,900.00	4,888.05	4,759.53	4,686.11	13.29	20.47	93.89	113.26	756.54	1,004.32	974.43	29.89	33.605		
5,000.00	4,988.05	4,857.35	4,781.79	13.47	20.95	93.59	117.20	776.49	1,024.44	993.99	30.45	33.643		
5,100.00	5,088.05	4,955.16	4,877.46	13.65	21.43	93.30	121.13	796.44	1,044.59	1,013.56	31.02	33.673		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 - 134H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: O-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		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)		Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)						
5,200.00	5,188.05	5,052.98	4,973.14	13.85	21.91	93.02	125.06	816.40	1,064.76	1,033.16	31.60	33.696		
5,300.00	5,288.05	5,150.79	5,068.82	14.05	22.40	92.75	129.00	836.35	1,084.95	1,052.77	32.18	33.712		
5,400.00	5,388.05	5,248.61	5,164.49	14.25	22.88	92.49	132.93	856.30	1,105.17	1,072.40	32.77	33.722		
5,500.00	5,488.05	5,346.42	5,260.17	14.47	23.36	92.24	136.87	876.25	1,125.41	1,092.04	33.37	33.727		
5,600.00	5,588.05	5,444.24	5,355.85	14.69	23.84	92.00	140.80	896.21	1,145.67	1,111.70	33.97	33.726		
5,700.00	5,688.05	5,542.05	5,451.53	14.91	24.33	91.77	144.74	916.16	1,165.95	1,131.37	34.58	33.721		
5,800.00	5,788.05	5,639.87	5,547.20	15.14	24.81	91.55	148.67	936.11	1,186.24	1,151.05	35.19	33.712		
5,900.00	5,888.05	5,737.68	5,642.88	15.37	25.29	91.33	152.60	956.06	1,206.55	1,170.75	35.80	33.699		
6,000.00	5,988.05	5,840.51	5,743.47	15.61	25.80	91.11	156.73	976.99	1,226.84	1,190.39	36.46	33.653		
6,100.00	6,088.05	5,964.88	5,865.50	15.86	26.40	90.87	161.38	1,000.56	1,245.75	1,208.51	37.24	33.455		
6,200.00	6,188.05	6,090.27	5,989.02	16.10	26.97	90.66	165.55	1,021.69	1,262.56	1,224.56	38.01	33.220		
6,300.00	6,288.05	6,216.56	6,113.87	16.35	27.51	90.49	169.21	1,040.29	1,277.27	1,238.50	38.76	32.949		
6,400.00	6,388.05	6,343.63	6,239.90	16.61	28.03	90.34	172.36	1,056.27	1,289.83	1,250.32	39.51	32.646		
6,500.00	6,488.05	6,471.38	6,366.92	16.87	28.52	90.22	174.99	1,069.57	1,300.23	1,259.99	40.24	32.312		
6,600.00	6,588.05	6,599.67	6,494.75	17.13	28.99	90.13	177.07	1,080.12	1,308.46	1,267.50	40.95	31.950		
6,700.00	6,688.05	6,728.38	6,623.22	17.40	29.42	90.06	178.60	1,087.89	1,314.49	1,272.84	41.65	31.560		
6,800.00	6,788.05	6,857.38	6,752.12	17.67	29.83	90.02	179.57	1,092.83	1,318.32	1,275.99	42.33	31.145		
6,900.00	6,888.05	6,986.54	6,881.26	17.94	30.22	90.00	179.98	1,094.92	1,319.94	1,276.95	42.99	30.705		
7,000.00	6,988.05	7,106.67	6,988.05	18.22	30.56	90.00	180.00	1,095.00	1,320.00	1,276.36	43.64	30.244		
7,100.00	7,088.05	7,206.67	7,088.05	18.49	30.84	90.00	180.00	1,095.00	1,320.00	1,275.75	44.25	29.829		
7,200.00	7,188.05	7,306.67	7,188.05	18.78	31.12	90.00	180.00	1,095.00	1,320.00	1,275.14	44.86	29.423		
7,300.00	7,288.05	7,406.67	7,288.05	19.06	31.41	90.00	180.00	1,095.00	1,320.00	1,274.52	45.48	29.026		
7,400.00	7,388.05	7,506.67	7,388.05	19.35	31.70	90.00	180.00	1,095.00	1,320.00	1,273.91	46.09	28.637		
7,500.00	7,488.05	7,606.67	7,488.05	19.63	31.98	90.00	180.00	1,095.00	1,320.00	1,273.29	46.71	28.257		
7,600.00	7,588.05	7,706.67	7,588.05	19.93	32.27	90.00	180.00	1,095.00	1,320.00	1,272.66	47.34	27.884		
7,700.00	7,688.05	7,806.67	7,688.05	20.22	32.56	90.00	180.00	1,095.00	1,320.00	1,272.04	47.96	27.520		
7,800.00	7,788.05	7,906.67	7,788.05	20.51	32.85	90.00	180.00	1,095.00	1,320.00	1,271.41	48.59	27.164		
7,900.00	7,888.05	8,006.67	7,888.05	20.81	33.15	90.00	180.00	1,095.00	1,320.00	1,270.78	49.22	26.816		
8,000.00	7,988.05	8,106.67	7,988.05	21.11	33.44	90.00	180.00	1,095.00	1,320.00	1,270.14	49.86	26.475		
8,100.00	8,088.05	8,206.67	8,088.05	21.41	33.74	90.00	180.00	1,095.00	1,320.00	1,269.50	50.50	26.141		
8,200.00	8,188.05	8,306.67	8,188.05	21.71	34.03	90.00	180.00	1,095.00	1,320.00	1,268.87	51.13	25.815		
8,300.00	8,288.05	8,406.67	8,288.05	22.02	34.33	90.00	180.00	1,095.00	1,320.00	1,268.23	51.77	25.495		
8,400.00	8,388.05	8,506.67	8,388.05	22.32	34.63	90.00	180.00	1,095.00	1,320.00	1,267.58	52.42	25.182		
8,500.00	8,488.05	8,606.67	8,488.05	22.63	34.93	90.00	180.00	1,095.00	1,320.00	1,266.94	53.06	24.876		
8,600.00	8,588.05	8,706.67	8,588.05	22.94	35.23	90.00	180.00	1,095.00	1,320.00	1,266.29	53.71	24.577		
8,700.00	8,688.05	8,806.67	8,688.05	23.25	35.54	90.00	180.00	1,095.00	1,320.00	1,265.64	54.36	24.283		
8,800.00	8,788.05	8,906.67	8,788.05	23.56	35.84	90.00	180.00	1,095.00	1,320.00	1,264.99	55.01	23.996		
8,900.00	8,888.05	9,006.67	8,888.05	23.88	36.14	90.00	180.00	1,095.00	1,320.00	1,264.34	55.66	23.715		
9,000.00	8,988.05	9,106.67	8,988.05	24.19	36.45	90.00	180.00	1,095.00	1,320.00	1,263.68	56.32	23.440		
9,100.00	9,088.05	9,206.67	9,088.05	24.51	36.75	90.00	180.00	1,095.00	1,320.00	1,263.03	56.97	23.170		
9,200.00	9,188.05	9,306.67	9,188.05	24.82	37.06	90.00	180.00	1,095.00	1,320.00	1,262.37	57.63	22.906		
9,300.00	9,288.05	9,406.67	9,288.05	25.14	37.37	90.00	180.00	1,095.00	1,320.00	1,261.71	58.29	22.647		
9,400.00	9,388.05	9,506.67	9,388.05	25.46	37.68	90.00	180.00	1,095.00	1,320.00	1,261.05	58.95	22.393		
9,500.00	9,488.05	9,606.67	9,488.05	25.78	37.99	90.00	180.00	1,095.00	1,320.00	1,260.39	59.61	22.145		
9,600.00	9,588.05	9,706.67	9,588.05	26.10	38.30	90.00	180.00	1,095.00	1,320.00	1,259.73	60.27	21.901		
9,700.00	9,688.05	9,806.67	9,688.05	26.42	38.61	90.00	180.00	1,095.00	1,320.00	1,259.06	60.94	21.662		
9,800.00	9,788.05	9,906.67	9,788.05	26.74	38.92	90.00	180.00	1,095.00	1,320.00	1,258.40	61.60	21.428		
9,900.00	9,888.05	10,006.67	9,888.05	27.07	39.24	90.00	180.00	1,095.00	1,320.00	1,257.73	62.27	21.199		
10,000.00	9,988.05	10,106.67	9,988.05	27.39	39.55	90.00	180.00	1,095.00	1,320.00	1,257.07	62.93	20.974		
10,100.00	10,088.05	10,206.67	10,088.05	27.72	39.87	90.00	180.00	1,095.00	1,320.00	1,256.40	63.60	20.754		
10,200.00	10,188.05	10,293.33	10,188.05	27.88	40.14	90.00	180.00	1,095.00	1,320.00	1,255.94	64.06	20.604		
10,209.45	10,197.50	10,302.78	10,197.50	27.88	40.17	90.00	180.00	1,095.00	1,320.00	1,255.90	64.10	20.594		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 - 134H - OH - Prelim Plan A													Offset Well Error:		0.00 usft
Survey Program: 0-MWD - OWSG															
Reference		Offset		Semi Major Axis		Highside Toothface (")	Distance		Minimum Separation (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)				Between Centres (usft)	Between Ellipses (usft)		
10,298.95	10,287.00	10,391.72	10,286.23	27.89	40.43	90.21	175.17	1,095.00	1,320.01	1,255.62	64.39	20.500			
10,300.00	10,288.05	10,392.75	10,287.26	27.89	40.44	-89.74	175.04	1,095.00	1,320.01	1,255.62	64.40	20.499			
10,350.00	10,337.99	10,441.55	10,335.30	27.89	40.57	-89.46	166.58	1,095.01	1,320.06	1,255.51	64.55	20.451			
10,400.00	10,387.53	10,489.83	10,381.95	27.89	40.69	-89.19	154.21	1,095.02	1,320.13	1,255.44	64.69	20.407			
10,450.00	10,436.31	10,537.63	10,426.96	27.88	40.81	-88.93	138.15	1,095.03	1,320.24	1,255.41	64.82	20.367			
10,500.00	10,483.95	10,584.97	10,470.06	27.88	40.91	-88.67	118.60	1,095.05	1,320.36	1,255.42	64.94	20.331			
10,550.00	10,530.10	10,631.89	10,511.03	27.87	41.00	-88.42	95.77	1,095.07	1,320.51	1,255.45	65.06	20.298			
10,600.00	10,574.39	10,678.41	10,549.69	27.88	41.09	-88.19	69.91	1,095.09	1,320.67	1,255.50	65.17	20.266			
10,650.00	10,616.50	10,724.57	10,585.84	27.88	41.16	-87.97	41.23	1,095.11	1,320.84	1,255.56	65.27	20.235			
10,700.00	10,656.10	10,770.40	10,619.34	27.89	41.23	-87.77	9.98	1,095.14	1,321.01	1,255.63	65.39	20.203			
10,750.00	10,692.89	10,815.92	10,650.04	27.91	41.29	-87.58	-23.63	1,095.16	1,321.19	1,255.68	65.51	20.169			
10,800.00	10,726.59	10,861.18	10,677.82	27.94	41.34	-87.41	-59.35	1,095.19	1,321.36	1,255.72	65.64	20.131			
10,850.00	10,756.94	10,906.20	10,702.56	27.97	41.39	-87.25	-96.94	1,095.22	1,321.53	1,255.74	65.79	20.088			
10,900.00	10,783.72	10,951.02	10,724.19	28.02	41.44	-87.12	-136.17	1,095.25	1,321.68	1,255.72	65.96	20.038			
10,950.00	10,806.72	10,995.65	10,742.63	28.08	41.48	-87.00	-176.82	1,095.29	1,321.81	1,255.66	66.15	19.982			
11,000.00	10,825.76	11,040.15	10,757.79	28.17	41.53	-86.91	-218.63	1,095.32	1,321.93	1,255.56	66.37	19.918			
11,050.00	10,840.71	11,084.53	10,769.65	28.28	41.58	-86.84	-261.39	1,095.35	1,322.02	1,255.40	66.62	19.846			
11,100.00	10,851.44	11,128.82	10,778.14	28.42	41.63	-86.78	-304.85	1,095.39	1,322.08	1,255.19	66.89	19.765			
11,150.00	10,857.87	11,173.06	10,783.25	28.58	41.70	-86.76	-348.78	1,095.43	1,322.12	1,254.93	67.19	19.676			
11,198.94	10,859.96	11,218.34	10,784.96	28.77	41.78	-86.75	-391.89	1,095.46	1,322.13	1,254.61	67.52	19.581			
11,200.00	10,859.96	11,217.28	10,784.96	28.78	41.78	-86.75	-392.95	1,095.46	1,322.13	1,254.61	67.52	19.581			
11,300.00	10,859.96	11,317.27	10,784.96	29.23	42.00	-86.75	-492.95	1,095.54	1,322.13	1,253.82	68.31	19.354			
11,400.00	10,859.96	11,417.27	10,784.96	29.78	42.28	-86.75	-592.95	1,095.62	1,322.13	1,252.88	69.25	19.092			
11,500.00	10,859.96	11,517.27	10,784.96	30.41	42.64	-86.75	-692.95	1,095.70	1,322.13	1,251.80	70.34	18.798			
11,600.00	10,859.96	11,617.27	10,784.96	31.12	43.07	-86.75	-792.95	1,095.78	1,322.13	1,250.57	71.56	18.476			
11,700.00	10,859.96	11,717.27	10,784.96	31.90	43.56	-86.75	-892.95	1,095.86	1,322.13	1,249.21	72.92	18.132			
11,800.00	10,859.96	11,817.27	10,784.96	32.75	44.12	-86.75	-992.95	1,095.94	1,322.13	1,247.73	74.40	17.770			
11,900.00	10,859.96	11,917.27	10,784.96	33.66	44.75	-86.75	-1,092.95	1,096.02	1,322.13	1,246.13	76.00	17.396			
12,000.00	10,859.97	12,017.27	10,784.97	34.62	45.42	-86.75	-1,192.95	1,096.10	1,322.13	1,244.42	77.71	17.013			
12,100.00	10,859.97	12,117.27	10,784.97	35.64	46.16	-86.75	-1,292.95	1,096.18	1,322.13	1,242.61	79.52	16.626			
12,200.00	10,859.97	12,217.27	10,784.97	36.71	46.94	-86.75	-1,392.95	1,096.26	1,322.13	1,240.70	81.43	16.236			
12,300.00	10,859.97	12,317.27	10,784.97	37.82	47.78	-86.75	-1,492.95	1,096.35	1,322.13	1,238.70	83.43	15.848			
12,400.00	10,859.97	12,417.27	10,784.97	38.96	48.65	-86.75	-1,592.95	1,096.43	1,322.13	1,236.63	85.51	15.462			
12,500.00	10,859.97	12,517.27	10,784.97	40.15	49.57	-86.75	-1,692.95	1,096.51	1,322.13	1,234.47	87.66	15.082			
12,600.00	10,859.97	12,617.27	10,784.97	41.37	50.53	-86.75	-1,792.95	1,096.59	1,322.13	1,232.25	89.89	14.709			
12,700.00	10,859.97	12,717.27	10,784.97	42.62	51.53	-86.75	-1,892.95	1,096.67	1,322.13	1,229.95	92.18	14.343			
12,800.00	10,859.97	12,817.27	10,784.97	43.89	52.56	-86.75	-1,992.95	1,096.75	1,322.13	1,227.60	94.53	13.986			
12,900.00	10,859.97	12,917.27	10,784.97	45.19	53.62	-86.75	-2,092.95	1,096.83	1,322.13	1,225.19	96.94	13.639			
13,000.00	10,859.98	13,017.27	10,784.98	46.52	54.72	-86.75	-2,192.95	1,096.91	1,322.13	1,222.73	99.40	13.301			
13,100.00	10,859.98	13,117.27	10,784.98	47.87	55.84	-86.75	-2,292.95	1,096.99	1,322.13	1,220.22	101.91	12.973			
13,200.00	10,859.98	13,217.27	10,784.98	49.23	56.99	-86.75	-2,392.95	1,097.07	1,322.13	1,217.67	104.47	12.656			
13,300.00	10,859.98	13,317.27	10,784.98	50.62	58.17	-86.75	-2,492.95	1,097.15	1,322.13	1,215.07	107.07	12.349			
13,400.00	10,859.98	13,417.27	10,784.98	52.02	59.36	-86.75	-2,592.95	1,097.23	1,322.13	1,212.43	109.70	12.052			
13,500.00	10,859.98	13,517.27	10,784.98	53.43	60.59	-86.75	-2,692.95	1,097.31	1,322.13	1,209.76	112.38	11.765			
13,600.00	10,859.98	13,617.27	10,784.98	54.86	61.83	-86.75	-2,792.95	1,097.39	1,322.13	1,207.05	115.08	11.489			
13,700.00	10,859.98	13,717.27	10,784.98	56.31	63.09	-86.75	-2,892.95	1,097.47	1,322.13	1,204.31	117.82	11.222			
13,800.00	10,859.98	13,817.27	10,784.98	57.76	64.37	-86.75	-2,992.95	1,097.55	1,322.13	1,201.55	120.59	10.964			
13,900.00	10,859.98	13,917.27	10,784.98	59.23	65.67	-86.75	-3,092.95	1,097.63	1,322.13	1,198.75	123.38	10.716			
14,000.00	10,859.98	14,017.27	10,784.98	60.71	66.98	-86.75	-3,192.95	1,097.71	1,322.14	1,195.93	126.21	10.476			
14,100.00	10,859.99	14,117.27	10,784.99	62.20	68.31	-86.75	-3,292.95	1,097.79	1,322.14	1,193.08	129.05	10.245			
14,200.00	10,859.99	14,217.27	10,784.99	63.69	69.66	-86.75	-3,392.95	1,097.87	1,322.14	1,190.22	131.92	10.022			
14,300.00	10,859.99	14,317.27	10,784.99	65.20	71.02	-86.75	-3,492.95	1,097.95	1,322.14	1,187.33	134.81	9.808			

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 - 134H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,400.00	10,859.99	14,417.27	10,784.99	66.71	72.39	-86.75	-3,592.95	1,098.03	1,322.14	1,184.42	137.71	9.601	
14,500.00	10,859.99	14,517.27	10,784.99	68.23	73.77	-86.75	-3,692.95	1,098.11	1,322.14	1,181.49	140.64	9.401	
14,600.00	10,859.99	14,617.27	10,784.99	69.75	75.17	-86.75	-3,792.95	1,098.19	1,322.14	1,178.55	143.59	9.208	
14,700.00	10,859.99	14,717.27	10,784.99	71.28	76.57	-86.75	-3,892.95	1,098.28	1,322.14	1,175.59	146.55	9.022	
14,800.00	10,859.99	14,817.27	10,784.99	72.82	77.99	-86.75	-3,992.95	1,098.36	1,322.14	1,172.61	149.52	8.842	
14,900.00	10,859.99	14,917.27	10,784.99	74.37	79.41	-86.75	-4,092.95	1,098.44	1,322.14	1,169.62	152.51	8.669	
15,000.00	10,859.99	15,017.27	10,784.99	75.92	80.85	-86.75	-4,192.95	1,098.52	1,322.14	1,166.62	155.52	8.502	
15,100.00	10,860.00	15,117.27	10,785.00	77.47	82.29	-86.75	-4,292.95	1,098.60	1,322.14	1,163.60	158.54	8.340	
15,200.00	10,860.00	15,217.27	10,785.00	79.03	83.75	-86.75	-4,392.95	1,098.68	1,322.14	1,160.57	161.56	8.183	
15,300.00	10,860.00	15,317.27	10,785.00	80.59	85.21	-86.75	-4,492.95	1,098.76	1,322.14	1,157.53	164.61	8.032	
15,400.00	10,860.00	15,417.27	10,785.00	82.16	86.67	-86.75	-4,592.95	1,098.84	1,322.14	1,154.48	167.66	7.886	
15,500.00	10,860.00	15,517.27	10,785.00	83.73	88.15	-86.75	-4,692.95	1,098.92	1,322.14	1,151.42	170.72	7.744	
15,600.00	10,860.00	15,617.27	10,785.00	85.30	89.63	-86.75	-4,792.95	1,099.00	1,322.14	1,148.35	173.79	7.608	
15,611.99	10,860.00	15,618.32	10,785.00	85.49	89.65	-86.75	-4,794.00	1,099.00	1,322.18	1,148.11	174.08	7.595 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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-90.64	-1.00	-90.00	90.01					
100.00	100.00	100.00	100.00	0.13	0.13	-90.64	-1.00	-90.00	90.01	89.75	0.26	351.162		
200.00	200.00	200.00	200.00	0.49	0.49	-90.64	-1.00	-90.00	90.01	89.03	0.97	92.479 CC, ES		
300.00	300.00	298.55	298.54	0.85	0.84	-90.44	-0.70	-90.79	90.81	89.13	1.68	54.009		
400.00	400.00	397.04	397.00	1.20	1.19	-89.88	0.19	-93.17	93.22	90.83	2.39	39.020		
500.00	499.99	495.45	495.32	1.56	1.54	-37.96	1.68	-97.13	96.57	93.47	3.09	31.209		
600.00	599.96	593.79	593.48	1.91	1.90	-37.69	3.76	-102.66	100.16	96.36	3.80	26.372		
700.00	699.86	708.06	691.33	2.27	2.32	-37.70	6.43	-109.75	103.98	99.42	4.56	22.794		
800.00	799.68	808.13	790.89	2.63	2.70	-38.11	9.50	-117.90	107.36	102.08	5.28	20.335		
900.00	899.37	891.83	890.47	3.00	3.01	-39.06	12.57	-126.05	109.40	103.45	5.94	18.407		
1,000.00	998.99	1,008.20	990.05	3.37	3.45	-40.28	15.64	-134.21	110.79	104.06	6.73	16.463		
1,100.00	1,098.60	1,108.24	1,089.64	3.74	3.83	-41.48	18.71	-142.36	112.23	104.77	7.46	15.045		
1,200.00	1,198.22	1,208.28	1,189.22	4.12	4.21	-42.64	21.77	-150.52	113.73	105.53	8.19	13.881		
1,300.00	1,297.84	1,291.69	1,288.80	4.50	4.53	-43.77	24.84	-158.67	115.26	106.40	8.87	12.998		
1,400.00	1,397.46	1,408.35	1,388.38	4.87	4.98	-44.87	27.91	-166.82	116.84	107.18	9.67	12.089		
1,500.00	1,497.08	1,491.61	1,487.96	5.25	5.29	-45.94	30.98	-174.98	118.47	108.12	10.34	11.454		
1,600.00	1,596.70	1,608.43	1,587.55	5.63	5.74	-46.98	34.05	-183.13	120.13	108.98	11.15	10.778		
1,700.00	1,696.32	1,708.46	1,687.13	6.01	6.12	-47.99	37.12	-191.29	121.83	109.94	11.89	10.248		
1,800.00	1,795.94	1,808.50	1,786.71	6.39	6.51	-48.98	40.19	-199.44	123.57	110.94	12.63	9.782		
1,900.00	1,895.56	1,908.54	1,886.29	6.77	6.89	-49.93	43.26	-207.59	125.34	111.96	13.38	9.370		
2,000.00	1,995.18	1,991.42	1,985.88	7.15	7.21	-50.86	46.32	-215.75	127.15	113.09	14.06	9.043		
2,100.00	2,094.80	2,108.61	2,085.46	7.53	7.66	-51.77	49.39	-223.90	128.99	114.12	14.87	8.674		
2,200.00	2,194.42	2,191.35	2,185.04	7.91	7.97	-52.64	52.46	-232.06	130.86	115.30	15.56	8.412		
2,300.00	2,294.04	2,308.69	2,284.62	8.29	8.42	-53.50	55.53	-240.21	132.76	116.39	16.37	8.110		
2,400.00	2,393.66	2,408.73	2,384.20	8.68	8.81	-54.32	58.60	-248.36	134.69	117.57	17.12	7.867		
2,500.00	2,493.28	2,508.76	2,483.79	9.06	9.19	-55.13	61.67	-256.52	136.65	118.77	17.87	7.645		
2,600.00	2,592.90	2,608.80	2,583.37	9.44	9.57	-55.91	64.74	-264.67	138.63	120.00	18.63	7.443		
2,700.00	2,692.52	2,708.84	2,682.95	9.82	9.96	-56.67	67.81	-272.83	140.64	121.26	19.38	7.257		
2,800.00	2,792.14	2,808.87	2,782.53	10.20	10.34	-57.41	70.87	-280.98	142.67	122.54	20.14	7.086		
2,900.00	2,891.76	2,891.09	2,882.12	10.58	10.66	-58.13	73.94	-289.13	144.73	123.90	20.83	6.950		
3,000.00	2,991.37	3,008.95	2,981.70	10.97	11.11	-58.83	77.01	-297.29	146.81	125.16	21.65	6.782		
3,100.00	3,090.99	3,108.99	3,081.28	11.18	11.49	-59.50	80.08	-305.44	148.90	126.67	22.23	6.698		
3,200.00	3,190.61	3,209.02	3,180.86	11.22	11.88	-60.16	83.15	-313.60	151.02	128.37	22.65	6.667		
3,300.00	3,290.23	3,309.06	3,280.45	11.28	12.26	-60.80	86.22	-321.75	153.16	130.08	23.09	6.635		
3,400.00	3,389.85	3,390.90	3,380.03	11.36	12.57	-61.43	89.29	-329.90	155.32	131.85	23.46	6.619		
3,500.00	3,489.47	3,509.14	3,479.61	11.44	13.03	-62.03	92.35	-338.06	157.49	133.50	23.99	6.564		
3,600.00	3,589.09	3,590.83	3,579.19	11.54	13.34	-62.62	95.42	-346.21	159.69	135.29	24.40	6.545		
3,705.73	3,694.41	3,703.49	3,684.48	11.66	13.77	-63.23	98.67	-354.83	162.02	137.08	24.94	6.497		
3,800.00	3,788.39	3,809.25	3,778.36	11.77	14.18	-63.53	101.56	-362.52	164.46	139.02	25.44	6.465		
3,900.00	3,888.20	3,909.31	3,877.92	11.88	14.56	-63.33	104.63	-370.67	167.81	141.89	25.92	6.474		
4,000.00	3,988.10	4,009.42	3,977.42	12.00	14.95	-62.63	107.70	-378.82	171.96	145.56	26.40	6.515		
4,100.00	4,088.06	4,109.61	4,076.85	12.12	15.33	-61.47	110.76	-386.96	176.96	150.10	26.86	6.588		
4,205.73	4,193.78	4,204.22	4,181.85	12.25	15.70	-111.16	113.99	-395.56	183.27	155.97	27.30	6.713		
4,300.00	4,288.05	4,289.70	4,275.41	12.37	16.02	-109.50	116.88	-403.22	189.49	161.79	27.70	6.841		
4,400.00	4,388.05	4,389.32	4,374.65	12.50	16.41	-107.87	119.94	-411.34	196.24	168.08	28.16	6.968		
4,500.00	4,488.05	4,488.94	4,473.89	12.64	16.79	-106.34	122.99	-419.47	203.15	174.51	28.64	7.094		
4,600.00	4,588.05	4,588.56	4,573.13	12.79	17.17	-104.91	126.05	-427.60	210.19	181.06	29.12	7.217		
4,700.00	4,688.05	4,688.18	4,672.37	12.95	17.55	-103.58	129.11	-435.72	217.35	187.73	29.62	7.338		
4,800.00	4,788.05	4,787.80	4,771.61	13.11	17.94	-102.33	132.17	-443.85	224.62	194.49	30.13	7.456		
4,900.00	4,888.05	4,887.42	4,870.85	13.29	18.32	-101.16	135.23	-451.97	231.99	201.35	30.64	7.571		
5,000.00	4,988.05	4,987.04	4,970.09	13.47	18.70	-100.06	138.29	-460.10	239.45	208.28	31.17	7.683		
5,100.00	5,088.05	5,086.66	5,069.33	13.65	19.08	-99.03	141.34	-468.23	246.99	215.29	31.70	7.792		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,188.05	5,186.28	5,168.57	13.85	19.47	-98.06	144.40	-476.35	254.61	222.37	32.24	7.897		
5,300.00	5,288.05	5,285.90	5,267.81	14.05	19.85	-97.15	147.46	-484.48	262.29	229.50	32.79	7.999		
5,400.00	5,388.05	5,385.52	5,367.05	14.25	20.23	-96.29	150.52	-492.60	270.04	236.69	33.35	8.098		
5,500.00	5,488.05	5,485.13	5,466.29	14.47	20.61	-95.47	153.58	-500.73	277.85	243.94	33.91	8.193		
5,600.00	5,588.05	5,584.75	5,565.53	14.69	21.00	-94.71	156.63	-508.86	285.71	251.22	34.48	8.286		
5,700.00	5,688.05	5,684.37	5,664.77	14.91	21.38	-93.98	159.69	-516.98	293.61	258.55	35.06	8.375		
5,800.00	5,788.05	5,783.99	5,764.01	15.14	21.76	-93.29	162.75	-525.11	301.56	265.92	35.64	8.461		
5,900.00	5,888.05	5,883.61	5,863.25	15.37	22.14	-92.64	165.81	-533.23	309.56	273.33	36.23	8.544		
6,000.00	5,988.05	5,987.70	5,967.00	15.61	22.54	-92.03	168.77	-541.10	317.00	280.16	36.85	8.603		
6,100.00	6,088.05	6,092.94	6,072.03	15.86	22.93	-91.58	171.10	-547.29	322.81	285.34	37.46	8.617		
6,200.00	6,188.05	6,198.38	6,177.37	16.10	23.31	-91.27	172.75	-551.67	326.93	288.85	38.08	8.586		
6,300.00	6,288.05	6,303.96	6,282.91	16.35	23.68	-91.09	173.71	-554.24	329.34	290.65	38.69	8.513		
6,400.00	6,388.05	6,409.61	6,388.55	16.61	24.04	-91.04	174.00	-554.99	330.05	290.76	39.29	8.401		
6,403.88	6,391.93	6,413.71	6,392.65	16.62	24.05	-91.04	173.99	-554.99	330.04	290.73	39.31	8.396		
6,500.00	6,488.05	6,509.11	6,488.05	16.87	24.36	-91.04	174.00	-555.00	330.05	290.16	39.89	8.273		
6,600.00	6,588.05	6,609.11	6,588.05	17.13	24.69	-91.04	174.00	-555.00	330.05	289.55	40.50	8.149		
6,700.00	6,688.05	6,709.11	6,688.05	17.40	25.02	-91.04	174.00	-555.00	330.05	288.94	41.11	8.028		
6,800.00	6,788.05	6,809.11	6,788.05	17.67	25.36	-91.04	174.00	-555.00	330.05	288.32	41.73	7.909		
6,900.00	6,888.05	6,909.11	6,888.05	17.94	25.69	-91.04	174.00	-555.00	330.05	287.70	42.35	7.793		
7,000.00	6,988.05	7,009.11	6,988.05	18.22	26.02	-91.04	174.00	-555.00	330.05	287.08	42.97	7.680		
7,100.00	7,088.05	7,109.11	7,088.05	18.49	26.36	-91.04	174.00	-555.00	330.05	286.45	43.60	7.570		
7,200.00	7,188.05	7,209.11	7,188.05	18.78	26.69	-91.04	174.00	-555.00	330.05	285.82	44.23	7.462		
7,300.00	7,288.05	7,309.11	7,288.05	19.06	27.03	-91.04	174.00	-555.00	330.05	285.19	44.86	7.357		
7,400.00	7,388.05	7,409.11	7,388.05	19.35	27.36	-91.04	174.00	-555.00	330.05	284.56	45.50	7.254		
7,500.00	7,488.05	7,509.11	7,488.05	19.63	27.70	-91.04	174.00	-555.00	330.05	283.92	46.14	7.154		
7,600.00	7,588.05	7,609.11	7,588.05	19.93	28.04	-91.04	174.00	-555.00	330.05	283.28	46.78	7.056		
7,700.00	7,688.05	7,709.11	7,688.05	20.22	28.37	-91.04	174.00	-555.00	330.05	282.64	47.42	6.961		
7,800.00	7,788.05	7,809.11	7,788.05	20.51	28.71	-91.04	174.00	-555.00	330.05	281.99	48.06	6.867		
7,900.00	7,888.05	7,909.11	7,888.05	20.81	29.05	-91.04	174.00	-555.00	330.05	281.34	48.71	6.776		
8,000.00	7,988.05	8,009.11	7,988.05	21.11	29.39	-91.04	174.00	-555.00	330.05	280.69	49.36	6.687		
8,100.00	8,088.05	8,109.11	8,088.05	21.41	29.73	-91.04	174.00	-555.00	330.05	280.04	50.01	6.600		
8,200.00	8,188.05	8,209.11	8,188.05	21.71	30.07	-91.04	174.00	-555.00	330.05	279.39	50.66	6.515		
8,300.00	8,288.05	8,309.11	8,288.05	22.02	30.41	-91.04	174.00	-555.00	330.05	278.74	51.32	6.431		
8,400.00	8,388.05	8,409.11	8,388.05	22.32	30.75	-91.04	174.00	-555.00	330.05	278.08	51.98	6.350		
8,500.00	8,488.05	8,509.11	8,488.05	22.63	31.09	-91.04	174.00	-555.00	330.05	277.42	52.64	6.271		
8,600.00	8,588.05	8,609.11	8,588.05	22.94	31.43	-91.04	174.00	-555.00	330.05	276.76	53.30	6.193		
8,700.00	8,688.05	8,709.11	8,688.05	23.25	31.77	-91.04	174.00	-555.00	330.05	276.10	53.96	6.117		
8,800.00	8,788.05	8,809.11	8,788.05	23.56	32.12	-91.04	174.00	-555.00	330.05	275.43	54.62	6.043		
8,900.00	8,888.05	8,909.11	8,888.05	23.88	32.46	-91.04	174.00	-555.00	330.05	274.77	55.29	5.970		
9,000.00	8,988.05	9,009.11	8,988.05	24.19	32.80	-91.04	174.00	-555.00	330.05	274.10	55.95	5.899		
9,100.00	9,088.05	9,109.11	9,088.05	24.51	33.15	-91.04	174.00	-555.00	330.05	273.43	56.62	5.829		
9,200.00	9,188.05	9,209.11	9,188.05	24.82	33.49	-91.04	174.00	-555.00	330.05	272.77	57.29	5.761		
9,300.00	9,288.05	9,309.11	9,288.05	25.14	33.83	-91.04	174.00	-555.00	330.05	272.10	57.96	5.695		
9,400.00	9,388.05	9,409.11	9,388.05	25.46	34.18	-91.04	174.00	-555.00	330.05	271.42	58.63	5.629		
9,500.00	9,488.05	9,509.11	9,488.05	25.78	34.52	-91.04	174.00	-555.00	330.05	270.75	59.30	5.566		
9,600.00	9,588.05	9,609.11	9,588.05	26.10	34.87	-91.04	174.00	-555.00	330.05	270.08	59.98	5.503		
9,700.00	9,688.05	9,709.11	9,688.05	26.42	35.21	-91.04	174.00	-555.00	330.05	269.40	60.65	5.442		
9,800.00	9,788.05	9,809.11	9,788.05	26.74	35.56	-91.04	174.00	-555.00	330.05	268.73	61.33	5.382		
9,900.00	9,888.05	9,909.11	9,888.05	27.07	35.90	-91.04	174.00	-555.00	330.05	268.05	62.00	5.323		
10,000.00	9,988.05	10,009.11	9,988.05	27.39	36.25	-91.04	174.00	-555.00	330.05	267.37	62.68	5.266		
10,100.00	10,088.05	10,109.11	10,088.05	27.72	36.59	-91.04	174.00	-555.00	330.05	266.69	63.36	5.209		
10,200.00	10,188.05	10,209.11	10,188.05	27.88	36.94	-91.04	174.00	-555.00	330.05	266.18	63.88	5.167		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,298.95	10,287.00	10,308.06	10,287.00	27.89	37.28	-91.04	174.00	-555.00	330.05	265.83	64.23	5.139		
10,300.00	10,288.05	10,309.11	10,288.05	27.89	37.29	89.00	174.00	-555.00	330.05	265.82	64.23	5.138		
10,350.00	10,337.99	10,359.04	10,337.99	27.89	37.46	89.40	174.00	-555.00	330.02	265.62	64.40	5.124		
10,380.08	10,367.87	10,388.92	10,367.87	27.89	37.56	90.00	174.00	-555.00	330.00	265.51	64.50	5.116		
10,400.00	10,387.53	10,408.62	10,387.56	27.89	37.63	90.54	173.97	-555.00	330.02	265.46	64.56	5.112		
10,450.00	10,436.31	10,458.56	10,437.42	27.88	37.79	91.96	171.31	-555.00	330.20	265.51	64.69	5.104		
10,500.00	10,483.95	10,509.25	10,487.59	27.88	37.95	93.37	164.19	-554.99	330.59	265.78	64.81	5.101		
10,550.00	10,530.10	10,560.71	10,537.68	27.87	38.10	94.77	152.45	-554.98	331.18	266.26	64.92	5.101		
10,600.00	10,574.39	10,612.98	10,587.26	27.88	38.24	96.13	135.97	-554.97	331.95	266.94	65.01	5.106		
10,650.00	10,616.50	10,666.06	10,635.86	27.88	38.38	97.46	114.69	-554.95	332.89	267.80	65.09	5.114		
10,700.00	10,656.10	10,719.96	10,682.99	27.89	38.50	98.72	88.57	-554.93	333.95	268.81	65.14	5.127		
10,750.00	10,692.89	10,774.69	10,728.11	27.91	38.62	99.93	57.64	-554.91	335.12	269.94	65.18	5.142		
10,800.00	10,726.59	10,830.22	10,770.68	27.94	38.72	101.05	22.01	-554.88	336.34	271.15	65.19	5.159		
10,850.00	10,756.94	10,866.53	10,810.11	27.97	38.81	102.09	-18.16	-554.85	337.59	272.39	65.20	5.178		
10,900.00	10,783.72	10,943.59	10,845.84	28.02	38.90	103.02	-62.61	-554.81	338.81	273.61	65.19	5.197		
10,950.00	10,806.72	11,001.33	10,877.33	28.08	38.98	103.84	-110.99	-554.77	339.96	274.76	65.20	5.214		
11,000.00	10,825.76	11,059.69	10,904.05	28.17	39.06	104.55	-162.85	-554.73	341.01	275.77	65.24	5.227		
11,050.00	10,840.71	11,118.59	10,925.52	28.28	39.16	105.13	-217.66	-554.69	341.90	276.59	65.31	5.235		
11,100.00	10,851.44	11,177.92	10,941.35	28.42	39.29	105.58	-274.81	-554.64	342.62	277.18	65.43	5.236		
11,150.00	10,857.87	11,237.58	10,951.22	28.58	39.45	105.89	-333.62	-554.59	343.12	277.50	65.63	5.228		
11,198.94	10,859.96	11,296.18	10,954.92	28.77	39.62	106.05	-392.08	-554.55	343.40	277.51	65.89	5.212		
11,200.00	10,859.96	11,297.45	10,954.93	28.78	39.62	106.06	-393.35	-554.54	343.40	277.50	65.90	5.211		
11,300.00	10,859.96	11,401.62	10,954.96	29.23	39.97	106.06	-494.28	-554.46	343.41	276.75	66.65	5.152		
11,400.00	10,859.96	11,501.62	10,954.96	29.78	40.38	106.06	-594.28	-554.38	343.41	275.86	67.55	5.084		
11,500.00	10,859.96	11,601.62	10,954.96	30.41	40.84	106.06	-694.28	-554.30	343.41	274.82	68.59	5.007		
11,600.00	10,859.96	11,701.62	10,954.96	31.12	41.37	106.06	-794.28	-554.22	343.41	273.64	69.77	4.922		
11,700.00	10,859.96	11,801.62	10,954.96	31.90	41.95	106.06	-894.28	-554.14	343.41	272.33	71.07	4.832		
11,800.00	10,859.96	11,901.62	10,954.96	32.75	42.59	106.06	-994.28	-554.06	343.41	270.91	72.50	4.737		
11,900.00	10,859.96	12,001.62	10,954.96	33.66	43.29	106.06	-1,094.28	-553.98	343.41	269.37	74.04	4.638		
12,000.00	10,859.97	12,101.62	10,954.97	34.62	44.03	106.06	-1,194.28	-553.90	343.41	267.72	75.69	4.537		
12,100.00	10,859.97	12,201.62	10,954.97	35.64	44.83	106.06	-1,294.28	-553.82	343.41	265.97	77.43	4.435		
12,200.00	10,859.97	12,301.62	10,954.97	36.71	45.67	106.06	-1,394.28	-553.74	343.41	264.14	79.27	4.332		
12,300.00	10,859.97	12,401.62	10,954.97	37.82	46.55	106.06	-1,494.28	-553.66	343.41	262.21	81.20	4.229		
12,400.00	10,859.97	12,501.62	10,954.97	38.96	47.48	106.06	-1,594.28	-553.58	343.41	260.20	83.20	4.127		
12,500.00	10,859.97	12,601.62	10,954.97	40.15	48.45	106.06	-1,694.28	-553.50	343.41	258.12	85.28	4.027		
12,600.00	10,859.97	12,701.62	10,954.97	41.37	49.45	106.06	-1,794.28	-553.42	343.41	255.97	87.43	3.928		
12,700.00	10,859.97	12,801.62	10,954.97	42.62	50.49	106.06	-1,894.28	-553.34	343.41	253.76	89.65	3.831		
12,800.00	10,859.97	12,901.62	10,954.97	43.89	51.56	106.06	-1,994.28	-553.26	343.41	251.48	91.92	3.736		
12,900.00	10,859.97	13,001.62	10,954.97	45.19	52.67	106.06	-2,094.28	-553.18	343.41	249.15	94.25	3.643		
13,000.00	10,859.98	13,101.62	10,954.98	46.52	53.80	106.06	-2,194.28	-553.10	343.41	246.77	96.63	3.554		
13,100.00	10,859.98	13,201.62	10,954.98	47.87	54.96	106.06	-2,294.28	-553.02	343.41	244.34	99.06	3.467		
13,200.00	10,859.98	13,301.62	10,954.98	49.23	56.14	106.06	-2,394.28	-552.94	343.41	241.87	101.54	3.382		
13,300.00	10,859.98	13,401.62	10,954.98	50.62	57.35	106.06	-2,494.28	-552.86	343.41	239.36	104.05	3.300		
13,400.00	10,859.98	13,501.62	10,954.98	52.02	58.58	106.06	-2,594.28	-552.78	343.41	236.80	106.60	3.221		
13,500.00	10,859.98	13,601.62	10,954.98	53.43	59.83	106.06	-2,694.28	-552.70	343.41	234.21	109.19	3.145		
13,600.00	10,859.98	13,701.62	10,954.98	54.86	61.10	106.06	-2,794.28	-552.62	343.41	231.59	111.81	3.071		
13,700.00	10,859.98	13,801.62	10,954.98	56.31	62.39	106.06	-2,894.28	-552.54	343.41	228.94	114.47	3.000		
13,800.00	10,859.98	13,901.62	10,954.98	57.76	63.70	106.06	-2,994.28	-552.46	343.41	226.26	117.15	2.931		
13,900.00	10,859.98	14,001.62	10,954.98	59.23	65.03	106.06	-3,094.28	-552.38	343.41	223.55	119.86	2.865		
14,000.00	10,859.98	14,098.38	10,954.98	60.71	66.32	106.06	-3,194.28	-552.30	343.41	220.86	122.55	2.802		
14,100.00	10,859.99	14,201.62	10,954.99	62.20	67.72	106.06	-3,294.28	-552.22	343.41	218.06	125.35	2.740		
14,200.00	10,859.99	14,301.62	10,954.99	63.69	69.09	106.06	-3,394.28	-552.14	343.41	215.28	128.13	2.680		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Highside Toolface (°)	Distance		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)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,300.00	10,859.99	14,401.62	10,954.99	65.20	70.47	106.06	-3,494.28	-552.06	343.41	212.48	130.93	2.623		
14,400.00	10,859.99	14,501.62	10,954.99	66.71	71.86	106.06	-3,594.28	-551.98	343.41	209.66	133.74	2.568		
14,500.00	10,859.99	14,601.62	10,954.99	68.23	73.27	106.06	-3,694.28	-551.90	343.41	206.82	136.58	2.514		
14,600.00	10,859.99	14,701.62	10,954.99	69.75	74.68	106.06	-3,794.28	-551.82	343.41	203.97	139.44	2.463		
14,700.00	10,859.99	14,801.62	10,954.99	71.28	76.11	106.06	-3,894.28	-551.73	343.41	201.10	142.31	2.413		
14,800.00	10,859.99	14,901.62	10,954.99	72.82	77.54	106.06	-3,994.28	-551.65	343.41	198.21	145.19	2.365		
14,900.00	10,859.99	15,001.62	10,954.99	74.37	78.99	106.06	-4,094.28	-551.57	343.41	195.31	148.09	2.319		
15,000.00	10,859.99	15,101.62	10,954.99	75.92	80.44	106.06	-4,194.28	-551.49	343.41	192.40	151.01	2.274		
15,100.00	10,860.00	15,201.62	10,955.00	77.47	81.90	106.06	-4,294.28	-551.41	343.41	189.47	153.93	2.231		
15,200.00	10,860.00	15,301.62	10,955.00	79.03	83.37	106.06	-4,394.27	-551.33	343.41	186.53	156.87	2.189		
15,300.00	10,860.00	15,401.62	10,955.00	80.59	84.85	106.06	-4,494.27	-551.25	343.41	183.58	159.82	2.149		
15,400.00	10,860.00	15,501.62	10,955.00	82.16	86.33	106.06	-4,594.27	-551.17	343.41	180.62	162.78	2.110		
15,500.00	10,860.00	15,601.62	10,955.00	83.73	87.82	106.06	-4,694.27	-551.09	343.41	177.65	165.75	2.072		
15,600.00	10,860.00	15,698.38	10,955.00	85.30	89.27	106.06	-4,794.27	-551.01	343.41	174.72	168.69	2.036		
15,611.99	10,860.00	15,710.37	10,955.00	85.49	89.45	106.06	-4,806.26	-551.00	343.41	174.36	169.04	2.031 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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Minimum Separation		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)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	88.09	1.00	30.00	30.02					
100.00	100.00	100.00	100.00	0.13	0.13	88.09	1.00	30.00	30.02	29.76	0.26	117.112		
115.28	115.28	115.28	115.28	0.18	0.18	88.09	1.00	30.00	30.02	29.65	0.37	82.048 CC		
200.00	200.00	199.98	199.98	0.49	0.49	88.09	1.00	30.00	30.02	29.05	0.97	30.854 ES		
300.00	300.00	299.46	299.45	0.85	0.84	87.74	1.22	30.91	30.94	29.26	1.68	18.401		
400.00	400.00	398.87	398.83	1.20	1.19	86.84	1.85	33.49	33.56	31.17	2.39	14.017		
500.00	499.99	498.14	498.00	1.56	1.55	137.82	2.88	37.74	38.54	35.44	3.11	12.410		
600.00	599.96	597.09	596.77	1.91	1.91	138.59	4.32	43.63	46.52	42.70	3.82	12.190		
700.00	699.86	696.40	694.97	2.27	2.28	139.89	6.15	51.15	57.50	52.97	4.53	12.695		
800.00	799.68	805.29	793.70	2.63	2.69	141.49	8.19	59.54	70.70	65.42	5.28	13.391		
900.00	899.37	906.40	892.22	3.00	3.07	143.27	10.23	67.92	85.31	79.31	6.00	14.208		
1,000.00	998.99	1,007.62	990.62	3.37	3.45	144.88	12.27	76.28	100.69	93.96	6.73	14.963		
1,100.00	1,098.60	1,108.85	1,089.02	3.74	3.84	146.06	14.31	84.65	116.13	108.67	7.46	15.577		
1,200.00	1,198.22	1,189.93	1,187.42	4.12	4.14	146.97	16.35	93.01	131.60	123.50	8.11	16.230		
1,300.00	1,297.84	1,288.71	1,285.82	4.50	4.52	147.69	18.38	101.37	147.11	138.28	8.83	16.663		
1,400.00	1,397.46	1,387.48	1,384.22	4.87	4.90	148.27	20.42	109.74	162.62	153.08	9.55	17.032		
1,500.00	1,497.08	1,486.26	1,482.62	5.25	5.27	148.74	22.46	118.10	178.16	167.89	10.27	17.349		
1,600.00	1,596.70	1,585.04	1,581.02	5.63	5.65	149.15	24.49	126.47	193.70	182.71	10.99	17.625		
1,700.00	1,696.32	1,683.81	1,679.42	6.01	6.03	149.49	26.53	134.83	209.25	197.54	11.71	17.866		
1,800.00	1,795.94	1,782.59	1,777.82	6.39	6.41	149.78	28.57	143.20	224.81	212.37	12.43	18.080		
1,900.00	1,895.56	1,881.37	1,876.22	6.77	6.78	150.04	30.60	151.56	240.37	227.21	13.16	18.270		
2,000.00	1,995.18	1,980.14	1,974.62	7.15	7.16	150.26	32.64	159.93	255.94	242.06	13.88	18.440		
2,100.00	2,094.80	2,078.92	2,073.02	7.53	7.54	150.46	34.68	168.29	271.51	256.90	14.60	18.594		
2,200.00	2,194.42	2,177.69	2,171.42	7.91	7.92	150.64	36.72	176.65	287.08	271.75	15.33	18.732		
2,300.00	2,294.04	2,276.47	2,269.82	8.29	8.30	150.80	38.75	185.02	302.65	286.60	16.05	18.859		
2,400.00	2,393.66	2,375.25	2,368.22	8.68	8.68	150.95	40.79	193.38	318.23	301.46	16.77	18.974		
2,500.00	2,493.28	2,474.02	2,466.62	9.06	9.05	151.08	42.83	201.75	333.81	316.31	17.50	19.080		
2,600.00	2,592.90	2,572.80	2,565.02	9.44	9.43	151.20	44.86	210.11	349.39	331.17	18.22	19.177		
2,700.00	2,692.52	2,671.58	2,663.42	9.82	9.81	151.30	46.90	218.48	364.97	346.03	18.94	19.267		
2,800.00	2,792.14	2,770.35	2,761.82	10.20	10.19	151.40	48.94	226.84	380.55	360.89	19.67	19.350		
2,900.00	2,891.76	2,869.13	2,860.23	10.58	10.57	151.50	50.98	235.21	396.14	375.74	20.39	19.427		
3,000.00	2,991.37	2,967.91	2,958.63	10.97	10.95	151.58	53.01	243.57	411.72	390.61	21.12	19.499		
3,100.00	3,090.99	3,066.68	3,057.03	11.35	11.33	151.66	55.05	251.93	427.31	405.64	21.87	19.572		
3,200.00	3,190.61	3,165.46	3,155.43	11.72	11.70	151.73	57.09	260.30	442.89	420.84	22.60	20.086		
3,300.00	3,290.23	3,264.23	3,253.83	12.10	12.08	151.80	59.12	268.66	458.48	436.03	23.33	20.427		
3,400.00	3,389.85	3,363.01	3,352.23	12.48	12.46	151.86	61.16	277.03	474.07	451.21	24.06	20.745		
3,500.00	3,489.47	3,461.79	3,450.63	12.86	12.84	151.92	63.20	285.39	489.65	466.38	24.79	21.042		
3,600.00	3,589.09	3,560.56	3,549.03	13.24	13.22	151.98	65.23	293.76	505.24	481.54	25.52	21.317		
3,705.73	3,694.41	3,664.99	3,653.06	13.62	13.62	152.04	67.39	302.60	521.72	497.55	26.25	21.586		
3,800.00	3,788.39	3,758.22	3,745.93	14.00	13.98	152.11	69.31	310.49	537.74	511.15	27.00	21.782		
3,900.00	3,888.20	3,857.32	3,844.65	14.38	14.36	152.10	71.35	318.89	549.13	524.07	27.73	21.915		
4,000.00	3,988.10	3,956.60	3,943.56	14.76	14.74	152.00	73.40	327.29	560.99	535.46	28.46	21.976		
4,100.00	4,088.06	4,056.03	4,042.61	15.14	15.12	151.81	75.45	335.71	571.33	545.32	29.19	21.968		
4,205.73	4,193.78	4,161.30	4,147.48	15.52	15.52	100.19	77.62	344.63	580.60	554.08	29.92	21.892		
4,300.00	4,288.05	4,255.22	4,241.04	15.90	15.88	99.86	79.56	352.58	588.13	561.14	30.65	21.794		
4,400.00	4,388.05	4,354.83	4,340.28	16.28	16.27	99.53	81.61	361.02	596.14	568.65	31.38	21.686		
4,500.00	4,488.05	4,454.45	4,439.52	16.66	16.65	99.20	83.67	369.45	604.16	576.16	32.11	21.576		
4,600.00	4,588.05	4,554.07	4,538.76	17.04	17.03	98.89	85.72	377.89	612.20	583.68	32.84	21.464		
4,700.00	4,688.05	4,653.69	4,638.00	17.42	17.41	98.58	87.78	386.32	620.26	591.21	33.57	21.351		
4,800.00	4,788.05	4,753.31	4,737.24	17.80	17.79	98.28	89.83	394.76	628.34	598.76	34.30	21.237		
4,900.00	4,888.05	4,852.93	4,836.48	18.18	18.18	97.98	91.89	403.20	636.44	606.31	35.03	21.122		
5,000.00	4,988.05	4,952.55	4,935.72	18.56	18.56	97.70	93.94	411.63	644.55	613.87	35.76	21.007		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toeface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,088.05	5,052.17	5,034.96	13.65	18.94	97.42	96.00	420.07	652.68	621.44	31.24	20.892		
5,200.00	5,188.05	5,151.79	5,134.20	13.85	19.32	97.15	98.05	428.50	660.82	629.01	31.81	20.776		
5,300.00	5,288.05	5,251.41	5,233.44	14.05	19.70	96.88	100.10	436.94	668.98	636.60	32.38	20.662		
5,400.00	5,388.05	5,351.03	5,332.68	14.25	20.09	96.62	102.16	445.37	677.15	644.19	32.96	20.547		
5,500.00	5,488.05	5,450.65	5,431.92	14.47	20.47	96.37	104.21	453.81	685.33	651.79	33.54	20.434		
5,600.00	5,588.05	5,550.27	5,531.16	14.69	20.85	96.12	106.27	462.25	693.53	659.40	34.13	20.322		
5,700.00	5,688.05	5,649.89	5,630.40	14.91	21.23	95.88	108.32	470.68	701.74	667.02	34.72	20.210		
5,800.00	5,788.05	5,749.51	5,729.64	15.14	21.62	95.65	110.38	479.12	709.96	674.64	35.32	20.100		
5,900.00	5,888.05	5,849.13	5,828.88	15.37	22.00	95.42	112.43	487.55	718.19	682.27	35.92	19.992		
6,000.00	5,988.05	5,948.75	5,928.12	15.61	22.38	95.19	114.49	495.99	726.44	689.90	36.53	19.884		
6,100.00	6,088.05	6,048.37	6,027.36	15.86	22.76	94.97	116.54	504.43	734.69	697.55	37.15	19.778		
6,200.00	6,188.05	6,147.99	6,126.60	16.10	23.14	94.76	118.59	512.86	742.96	705.19	37.76	19.674		
6,300.00	6,288.05	6,247.60	6,225.85	16.35	23.53	94.55	120.65	521.30	751.23	712.85	38.38	19.572		
6,400.00	6,388.05	6,347.22	6,325.09	16.61	23.91	94.34	122.70	529.73	759.52	720.51	39.01	19.471		
6,500.00	6,488.05	6,446.84	6,424.33	16.87	24.29	94.14	124.76	538.17	767.82	728.18	39.64	19.371		
6,600.00	6,588.05	6,546.46	6,523.57	17.13	24.67	93.94	126.81	546.60	776.12	735.85	40.27	19.274		
6,700.00	6,688.05	6,646.08	6,622.81	17.40	25.06	93.75	128.87	555.04	784.43	743.53	40.90	19.178		
6,800.00	6,788.05	6,745.70	6,722.05	17.67	25.44	93.56	130.92	563.48	792.76	751.21	41.54	19.084		
6,900.00	6,888.05	6,845.32	6,821.29	17.94	25.82	93.38	132.98	571.91	801.09	758.90	42.18	18.991		
7,000.00	6,988.05	6,944.94	6,920.53	18.22	26.20	93.20	135.03	580.35	809.42	766.60	42.82	18.901		
7,100.00	7,088.05	7,044.56	7,019.77	18.49	26.58	93.02	137.08	588.78	817.77	774.30	43.47	18.812		
7,200.00	7,188.05	7,144.18	7,119.01	18.78	26.97	92.85	139.14	597.22	826.13	782.01	44.12	18.724		
7,300.00	7,288.05	7,243.80	7,218.25	19.06	27.35	92.67	141.19	605.66	834.49	789.72	44.77	18.639		
7,400.00	7,388.05	7,343.42	7,317.49	19.35	27.73	92.51	143.25	614.09	842.86	797.43	45.42	18.555		
7,500.00	7,488.05	7,443.04	7,416.73	19.63	28.11	92.34	145.30	622.53	851.23	805.15	46.08	18.473		
7,600.00	7,588.05	7,542.66	7,515.97	19.93	28.50	92.18	147.36	630.96	859.61	812.87	46.74	18.392		
7,700.00	7,688.05	7,642.28	7,615.21	20.22	28.88	92.03	149.41	639.40	868.00	820.60	47.40	18.313		
7,800.00	7,788.05	7,741.90	7,714.45	20.51	29.26	91.87	151.47	647.84	876.40	828.34	48.06	18.235		
7,900.00	7,888.05	7,841.52	7,813.69	20.81	29.64	91.72	153.52	656.27	884.80	836.08	48.72	18.159		
8,000.00	7,988.05	7,941.14	7,912.93	21.11	30.02	91.57	155.57	664.71	893.21	843.82	49.39	18.085		
8,100.00	8,088.05	8,040.76	8,012.17	21.41	30.41	91.43	157.63	673.14	901.62	851.56	50.06	18.012		
8,200.00	8,188.05	8,140.37	8,111.41	21.71	30.79	91.28	159.68	681.58	910.04	859.31	50.73	17.940		
8,300.00	8,288.05	8,239.99	8,210.65	22.02	31.17	91.14	161.74	690.01	918.46	867.07	51.40	17.870		
8,400.00	8,388.05	8,339.61	8,309.89	22.32	31.55	91.01	163.79	698.45	926.89	874.83	52.07	17.802		
8,500.00	8,488.05	8,439.23	8,409.13	22.63	31.94	90.87	165.85	706.89	935.33	882.59	52.74	17.734		
8,600.00	8,588.05	8,538.85	8,508.37	22.94	32.32	90.74	167.90	715.32	943.77	890.35	53.42	17.668		
8,700.00	8,688.05	8,638.47	8,607.61	23.25	32.70	90.61	169.96	723.76	952.21	898.12	54.09	17.604		
8,800.00	8,788.05	8,738.09	8,706.85	23.56	33.08	90.48	172.01	732.19	960.66	905.90	54.77	17.540		
8,900.00	8,888.05	8,837.71	8,806.10	23.88	33.46	90.35	174.06	740.63	969.12	913.67	55.45	17.478		
9,000.00	8,988.05	8,949.63	8,917.63	24.19	33.89	90.22	176.26	749.64	977.19	921.00	56.19	17.392		
9,100.00	9,088.05	9,069.31	9,037.07	24.51	34.33	90.11	178.07	757.06	983.39	926.44	56.95	17.268		
9,200.00	9,188.05	9,189.26	9,156.90	24.82	34.77	90.04	179.29	762.06	987.56	929.86	57.69	17.117		
9,300.00	9,288.05	9,309.38	9,276.98	25.14	35.18	90.01	179.91	764.63	989.69	931.27	58.42	16.940		
9,400.00	9,388.05	9,420.45	9,388.05	25.46	35.55	90.00	180.00	765.00	990.00	930.89	59.11	16.749		
9,500.00	9,488.05	9,520.45	9,488.05	25.78	35.88	90.00	180.00	765.00	990.00	930.23	59.77	16.564		
9,600.00	9,588.05	9,620.45	9,588.05	26.10	36.20	90.00	180.00	765.00	990.00	929.57	60.43	16.382		
9,700.00	9,688.05	9,720.45	9,688.05	26.42	36.53	90.00	180.00	765.00	990.00	928.90	61.10	16.204		
9,800.00	9,788.05	9,820.45	9,788.05	26.74	36.86	90.00	180.00	765.00	990.00	928.24	61.76	16.030		
9,900.00	9,888.05	9,920.45	9,888.05	27.07	37.19	90.00	180.00	765.00	990.00	927.57	62.43	15.859		
10,000.00	9,988.05	10,020.45	9,988.05	27.39	37.52	90.00	180.00	765.00	990.00	926.91	63.09	15.691		
10,100.00	10,088.05	10,120.45	10,088.05	27.72	37.85	90.00	180.00	765.00	990.00	926.24	63.76	15.526		
10,200.00	10,188.05	10,220.45	10,188.05	27.88	38.18	90.00	180.00	765.00	990.00	925.73	64.27	15.404		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,298.95	10,287.00	10,319.39	10,287.00	27.89	38.51	90.00	180.00	765.00	990.00	925.39	64.61	15.322		
10,300.00	10,288.05	10,320.45	10,288.05	27.89	38.51	-89.95	180.00	765.00	990.00	925.38	64.62	15.321		
10,329.12	10,317.16	10,349.55	10,317.16	27.89	38.61	-90.00	180.00	765.00	990.00	925.28	64.72	15.298		
10,350.00	10,337.99	10,370.38	10,337.99	27.89	38.67	-90.09	180.00	765.00	990.00	925.21	64.79	15.281		
10,400.00	10,387.53	10,420.33	10,387.92	27.89	38.83	-90.42	179.16	765.00	990.03	925.08	64.95	15.244		
10,450.00	10,436.31	10,470.87	10,438.20	27.88	38.99	-90.77	174.22	765.00	990.09	924.99	65.10	15.210		
10,500.00	10,483.95	10,521.97	10,488.40	27.88	39.14	-91.11	164.73	765.01	990.19	924.95	65.24	15.178		
10,550.00	10,530.10	10,573.63	10,538.08	27.87	39.28	-91.45	150.63	765.02	990.32	924.95	65.37	15.149		
10,600.00	10,574.39	10,625.87	10,586.82	27.88	39.42	-91.78	131.89	765.04	990.48	924.98	65.50	15.122		
10,650.00	10,616.50	10,678.68	10,634.15	27.88	39.55	-92.10	108.51	765.06	990.67	925.05	65.63	15.096		
10,700.00	10,656.10	10,732.05	10,679.59	27.89	39.67	-92.40	80.56	765.08	990.88	925.13	65.75	15.070		
10,750.00	10,692.89	10,785.97	10,722.66	27.91	39.77	-92.69	48.15	765.11	991.10	925.21	65.89	15.042		
10,800.00	10,726.59	10,840.41	10,762.86	27.94	39.87	-92.95	11.46	765.14	991.32	925.29	66.03	15.013		
10,850.00	10,756.94	10,895.35	10,799.72	27.97	39.96	-93.19	-29.25	765.17	991.55	925.36	66.19	14.981		
10,900.00	10,783.72	10,950.75	10,832.76	28.02	40.05	-93.41	-73.69	765.20	991.76	925.40	66.36	14.945		
10,950.00	10,806.72	11,006.56	10,861.56	28.08	40.13	-93.59	-121.47	765.24	991.96	925.39	66.56	14.903		
11,000.00	10,825.76	11,062.73	10,885.70	28.17	40.22	-93.75	-172.16	765.28	992.13	925.34	66.79	14.854		
11,050.00	10,840.71	11,119.19	10,904.86	28.28	40.32	-93.87	-225.25	765.33	992.27	925.22	67.05	14.799		
11,100.00	10,851.44	11,175.89	10,918.75	28.42	40.44	-93.97	-280.19	765.37	992.38	925.04	67.34	14.737		
11,150.00	10,857.87	11,232.75	10,927.16	28.58	40.57	-94.02	-336.40	765.42	992.45	924.78	67.66	14.668		
11,198.94	10,859.96	11,288.48	10,929.96	28.77	40.73	-94.04	-392.04	765.46	992.47	924.46	68.01	14.593		
11,200.00	10,859.96	11,289.69	10,929.96	28.78	40.73	-94.04	-393.25	765.46	992.47	924.46	68.02	14.592		
11,204.85	10,859.96	11,295.22	10,929.93	28.80	40.75	-94.04	-398.78	765.47	992.47	924.42	68.05	14.584		
11,300.00	10,859.96	11,389.65	10,929.96	29.23	41.06	-94.04	-493.22	765.54	992.47	923.67	68.81	14.424		
11,400.00	10,859.96	11,489.65	10,929.96	29.78	41.45	-94.04	-593.22	765.62	992.47	922.72	69.75	14.229		
11,500.00	10,859.96	11,589.65	10,929.96	30.41	41.91	-94.04	-693.22	765.70	992.47	921.64	70.83	14.011		
11,600.00	10,859.96	11,689.65	10,929.96	31.12	42.42	-94.04	-793.22	765.78	992.47	920.41	72.06	13.773		
11,700.00	10,859.96	11,789.65	10,929.96	31.90	43.00	-94.04	-893.22	765.86	992.47	919.05	73.42	13.518		
11,800.00	10,859.96	11,889.65	10,929.96	32.75	43.63	-94.04	-993.22	765.94	992.47	917.57	74.90	13.251		
11,900.00	10,859.96	11,989.65	10,929.96	33.66	44.31	-94.04	-1,093.22	766.02	992.47	915.98	76.50	12.974		
12,000.00	10,859.97	12,089.65	10,929.97	34.62	45.05	-94.04	-1,193.22	766.10	992.47	914.27	78.20	12.691		
12,100.00	10,859.97	12,189.65	10,929.97	35.64	45.83	-94.04	-1,293.22	766.18	992.47	912.46	80.01	12.404		
12,200.00	10,859.97	12,289.65	10,929.97	36.71	46.66	-94.04	-1,393.22	766.26	992.47	910.56	81.92	12.116		
12,300.00	10,859.97	12,389.65	10,929.97	37.82	47.53	-94.04	-1,493.22	766.34	992.47	908.57	83.91	11.828		
12,400.00	10,859.97	12,489.65	10,929.97	38.96	48.45	-94.04	-1,593.22	766.43	992.47	906.49	85.98	11.543		
12,500.00	10,859.97	12,589.65	10,929.97	40.15	49.40	-94.04	-1,693.22	766.51	992.47	904.34	88.13	11.261		
12,600.00	10,859.97	12,689.65	10,929.97	41.37	50.39	-94.04	-1,793.22	766.59	992.47	902.12	90.35	10.985		
12,700.00	10,859.97	12,789.65	10,929.97	42.62	51.41	-94.04	-1,893.22	766.67	992.47	899.84	92.64	10.714		
12,800.00	10,859.97	12,889.65	10,929.97	43.89	52.47	-94.04	-1,993.22	766.75	992.47	897.49	94.98	10.449		
12,900.00	10,859.97	12,989.65	10,929.97	45.19	53.56	-94.04	-2,093.22	766.83	992.47	895.09	97.39	10.191		
13,000.00	10,859.98	13,089.65	10,929.98	46.52	54.68	-94.04	-2,193.22	766.91	992.47	892.63	99.84	9.940		
13,100.00	10,859.98	13,189.65	10,929.98	47.87	55.82	-94.04	-2,293.22	766.99	992.47	890.13	102.35	9.697		
13,200.00	10,859.98	13,289.65	10,929.98	49.23	56.99	-94.04	-2,393.22	767.07	992.48	887.58	104.89	9.462		
13,300.00	10,859.98	13,389.65	10,929.98	50.62	58.19	-94.04	-2,493.22	767.15	992.48	884.99	107.49	9.234		
13,400.00	10,859.98	13,489.65	10,929.98	52.02	59.41	-94.04	-2,593.22	767.23	992.48	882.36	110.12	9.013		
13,500.00	10,859.98	13,589.65	10,929.98	53.43	60.64	-94.04	-2,693.22	767.31	992.48	879.69	112.78	8.800		
13,600.00	10,859.98	13,689.65	10,929.98	54.86	61.90	-94.04	-2,793.22	767.39	992.48	876.99	115.48	8.594		
13,700.00	10,859.98	13,789.65	10,929.98	56.31	63.18	-94.04	-2,893.22	767.47	992.48	874.26	118.21	8.396		
13,800.00	10,859.98	13,889.65	10,929.98	57.76	64.48	-94.04	-2,993.22	767.55	992.48	871.50	120.98	8.204		
13,900.00	10,859.98	13,989.65	10,929.98	59.23	65.79	-94.04	-3,093.22	767.63	992.48	868.71	123.76	8.019		
14,000.00	10,859.98	14,089.65	10,929.98	60.71	67.12	-94.04	-3,193.22	767.71	992.48	865.90	126.58	7.841		
14,100.00	10,859.99	14,189.65	10,929.99	62.20	68.46	-94.04	-3,293.22	767.79	992.48	863.06	129.42	7.669		

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 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	10,859.99	14,289.65	10,929.99	63.69	69.82	-94.04	-3,393.21	767.87	992.48	860.20	132.28	7.503	
14,300.00	10,859.99	14,389.65	10,929.99	65.20	71.19	-94.04	-3,493.21	767.95	992.48	857.32	135.16	7.343	
14,400.00	10,859.99	14,489.65	10,929.99	66.71	72.57	-94.04	-3,593.21	768.03	992.48	854.41	138.06	7.189	
14,500.00	10,859.99	14,589.65	10,929.99	68.23	73.96	-94.04	-3,693.21	768.11	992.48	851.49	140.98	7.040	
14,600.00	10,859.99	14,689.65	10,929.99	69.75	75.37	-94.04	-3,793.21	768.19	992.48	848.55	143.92	6.896	
14,700.00	10,859.99	14,789.65	10,929.99	71.28	76.78	-94.04	-3,893.21	768.27	992.48	845.60	146.88	6.757	
14,800.00	10,859.99	14,889.65	10,929.99	72.82	78.21	-94.04	-3,993.21	768.35	992.48	842.63	149.85	6.623	
14,900.00	10,859.99	14,989.65	10,929.99	74.37	79.64	-94.04	-4,093.21	768.43	992.48	839.65	152.83	6.494	
15,000.00	10,859.99	15,089.65	10,929.99	75.92	81.09	-94.04	-4,193.21	768.51	992.48	836.65	155.83	6.369	
15,100.00	10,860.00	15,189.65	10,930.00	77.47	82.54	-94.04	-4,293.21	768.60	992.48	833.64	158.84	6.248	
15,200.00	10,860.00	15,289.65	10,930.00	79.03	84.00	-94.04	-4,393.21	768.68	992.48	830.61	161.87	6.131	
15,300.00	10,860.00	15,389.65	10,930.00	80.59	85.47	-94.04	-4,493.21	768.76	992.48	827.58	164.90	6.019	
15,400.00	10,860.00	15,489.65	10,930.00	82.16	86.94	-94.04	-4,593.21	768.84	992.48	824.53	167.95	5.909	
15,500.00	10,860.00	15,589.65	10,930.00	83.73	88.43	-94.04	-4,693.21	768.92	992.48	821.47	171.01	5.804	
15,600.00	10,860.00	15,689.65	10,930.00	85.30	89.91	-94.04	-4,793.21	769.00	992.48	818.41	174.07	5.702	
15,611.99	10,860.00	15,701.64	10,930.00	85.49	90.09	-94.04	-4,805.20	769.01	992.48	818.04	174.44	5.690 SF	

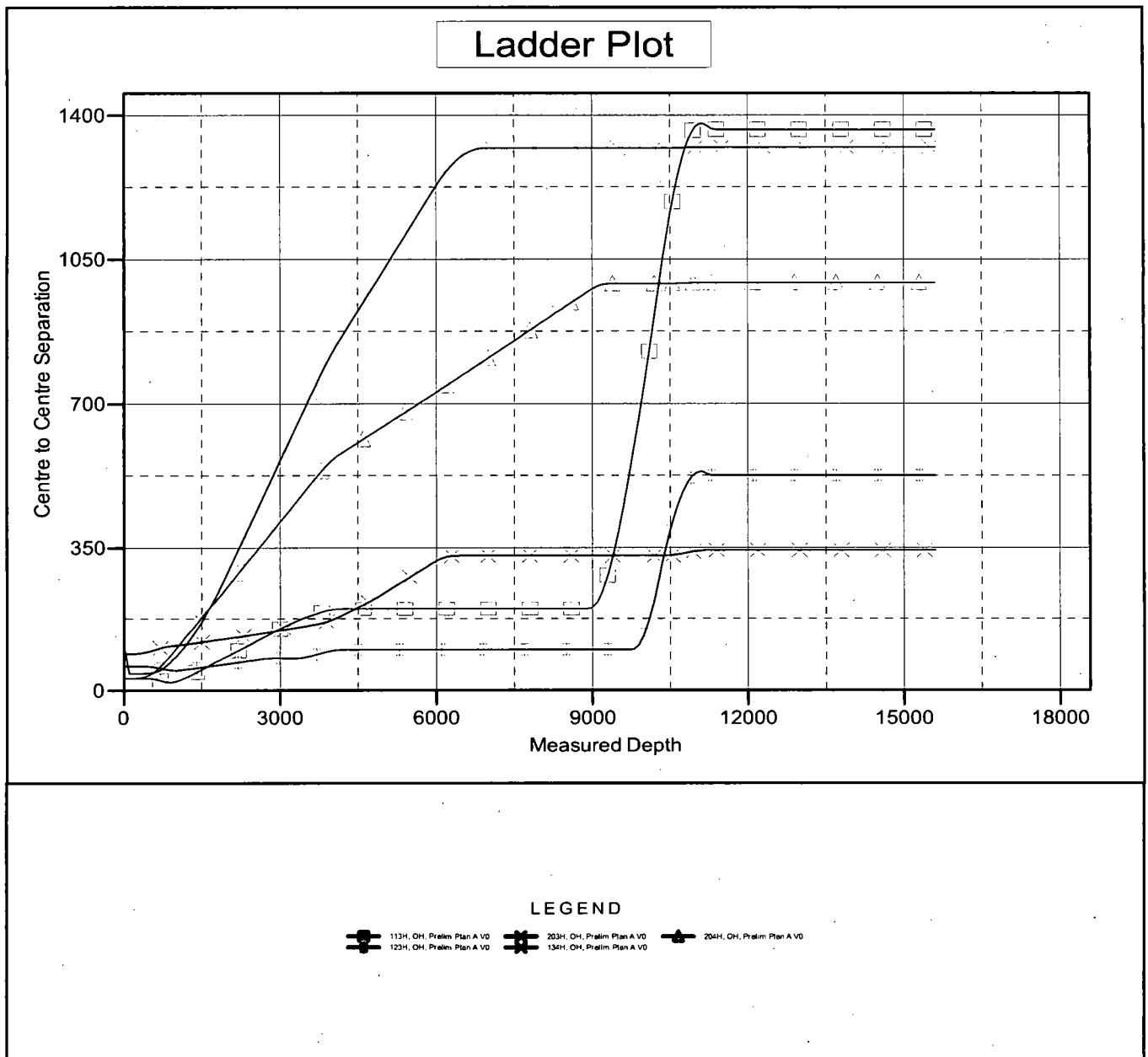
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 104.3333333°W

Coordinates are relative to: 133H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.40°



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

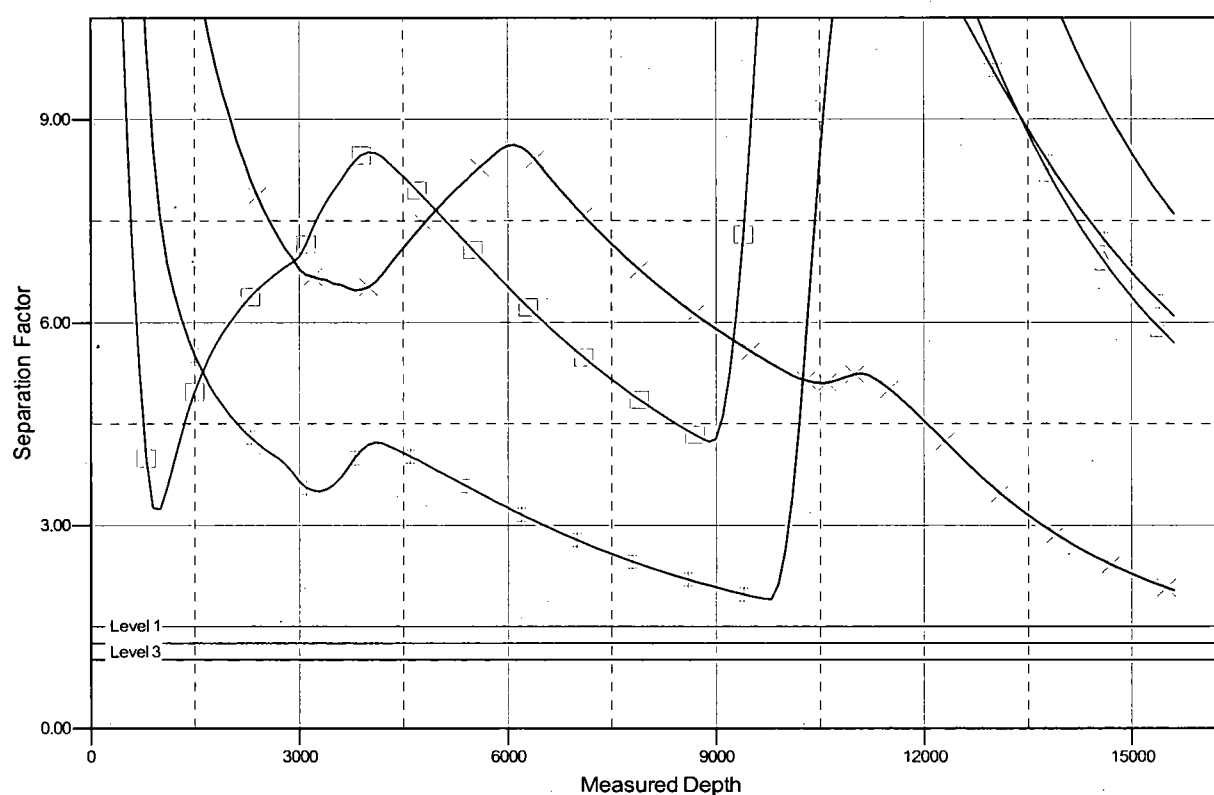
Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Reference Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	133H	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 104.3333333°W

Coordinates are relative to: 133H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.40°

Separation Factor Plot



LEGEND

113H, OH, Prelim Plan A V0
 203H, OH, Prelim Plan A V0
 204H, OH, Prelim Plan A V0
 123H, OH, Prelim Plan A V0
 134H, OH, Prelim Plan A V0

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

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	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	133H					
Well Position	+N/-S	0.00 usft	Northing:	585,922.00 usft	Latitude:	32.6086405°N
	+E/-W	0.00 usft	Easting:	727,016.00 usft	Longitude:	103.5961084°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,620.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/21/2017	6.80	60.63	48,396.80

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	3,000.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
3,000.00	10,200.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
10,200.00	15,611.99	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.00	308.66	499.99	0.55	-0.68	-0.55	1.00	1.00	0.00
600.00	2.00	308.66	599.96	2.18	-2.73	-2.18	1.00	1.00	0.00
700.00	3.00	308.66	699.86	4.91	-6.13	-4.91	1.00	1.00	0.00
800.00	4.00	308.66	799.68	8.72	-10.90	-8.73	1.00	1.00	0.00

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	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)
900.00	5.00	308.66	899.37	13.62	-17.03	-13.63	1.00	1.00	0.00
1,000.00	5.00	308.66	998.99	19.06	-23.83	-19.09	0.00	0.00	0.00
1,100.00	5.00	308.66	1,098.60	24.51	-30.64	-24.54	0.00	0.00	0.00
1,200.00	5.00	308.66	1,198.22	29.95	-37.44	-29.99	0.00	0.00	0.00
1,300.00	5.00	308.66	1,297.84	35.40	-44.25	-35.44	0.00	0.00	0.00
1,400.00	5.00	308.66	1,397.46	40.84	-51.05	-40.89	0.00	0.00	0.00
1,500.00	5.00	308.66	1,497.08	46.29	-57.86	-46.34	0.00	0.00	0.00
1,600.00	5.00	308.66	1,596.70	51.73	-64.67	-51.79	0.00	0.00	0.00
1,700.00	5.00	308.66	1,696.32	57.18	-71.47	-57.24	0.00	0.00	0.00
1,800.00	5.00	308.66	1,795.94	62.62	-78.28	-62.69	0.00	0.00	0.00
1,900.00	5.00	308.66	1,895.56	68.07	-85.08	-68.14	0.00	0.00	0.00
2,000.00	5.00	308.66	1,995.18	73.51	-91.89	-73.59	0.00	0.00	0.00
2,100.00	5.00	308.66	2,094.80	78.95	-98.69	-79.04	0.00	0.00	0.00
2,200.00	5.00	308.66	2,194.42	84.40	-105.50	-84.49	0.00	0.00	0.00
2,300.00	5.00	308.66	2,294.04	89.84	-112.31	-89.94	0.00	0.00	0.00
2,400.00	5.00	308.66	2,393.66	95.29	-119.11	-95.39	0.00	0.00	0.00
2,500.00	5.00	308.66	2,493.28	100.73	-125.92	-100.84	0.00	0.00	0.00
2,600.00	5.00	308.66	2,592.90	106.18	-132.72	-106.29	0.00	0.00	0.00
2,700.00	5.00	308.66	2,692.52	111.62	-139.53	-111.74	0.00	0.00	0.00
2,800.00	5.00	308.66	2,792.14	117.07	-146.33	-117.19	0.00	0.00	0.00
2,900.00	5.00	308.66	2,891.76	122.51	-153.14	-122.65	0.00	0.00	0.00
3,000.00	5.00	308.66	2,991.37	127.96	-159.95	-128.10	0.00	0.00	0.00
3,100.00	5.00	308.66	3,090.99	133.40	-166.75	-133.55	0.00	0.00	0.00
3,200.00	5.00	308.66	3,190.61	138.85	-173.56	-139.00	0.00	0.00	0.00
3,300.00	5.00	308.66	3,290.23	144.29	-180.36	-144.45	0.00	0.00	0.00
3,400.00	5.00	308.66	3,389.85	149.73	-187.17	-149.90	0.00	0.00	0.00
3,500.00	5.00	308.66	3,489.47	155.18	-193.97	-155.35	0.00	0.00	0.00
3,600.00	5.00	308.66	3,589.09	160.62	-200.78	-160.80	0.00	0.00	0.00
3,705.73	5.00	308.66	3,694.41	166.38	-207.97	-166.56	0.00	0.00	0.00
3,800.00	4.06	308.66	3,788.39	171.03	-213.79	-171.22	1.00	-1.00	0.00
3,900.00	3.06	308.66	3,888.20	174.91	-218.63	-175.10	1.00	-1.00	0.00
4,000.00	2.06	308.66	3,988.10	177.69	-222.12	-177.89	1.00	-1.00	0.00
4,100.00	1.06	308.66	4,088.06	179.39	-224.24	-179.59	1.00	-1.00	0.00
4,205.73	0.00	0.00	4,193.78	180.00	-225.00	-180.20	1.00	-1.00	0.00
4,300.00	0.00	0.00	4,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,400.00	0.00	0.00	4,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,500.00	0.00	0.00	4,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,600.00	0.00	0.00	4,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,700.00	0.00	0.00	4,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,800.00	0.00	0.00	4,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
4,900.00	0.00	0.00	4,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,000.00	0.00	0.00	4,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,100.00	0.00	0.00	5,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	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)
5,200.00	0.00	0.00	5,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,300.00	0.00	0.00	5,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,400.00	0.00	0.00	5,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,500.00	0.00	0.00	5,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,600.00	0.00	0.00	5,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,700.00	0.00	0.00	5,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,800.00	0.00	0.00	5,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
5,900.00	0.00	0.00	5,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,000.00	0.00	0.00	5,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,100.00	0.00	0.00	6,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,200.00	0.00	0.00	6,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,300.00	0.00	0.00	6,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,400.00	0.00	0.00	6,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,500.00	0.00	0.00	6,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,600.00	0.00	0.00	6,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,700.00	0.00	0.00	6,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,800.00	0.00	0.00	6,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
6,900.00	0.00	0.00	6,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,000.00	0.00	0.00	6,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,100.00	0.00	0.00	7,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.05	180.00	-225.00	-180.20	0.00	0.00	0.00

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	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	9,488.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,600.00	0.00	0.00	9,588.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,700.00	0.00	0.00	9,688.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.05	180.00	-225.00	-180.20	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.05	180.00	-225.00	-180.20	0.00	0.00	0.00
10,000.00	0.00	0.00	9,988.05	180.00	-225.00	-180.20	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.05	180.00	-225.00	-180.20	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.05	180.00	-225.00	-180.20	0.00	0.00	0.00
10,298.95	0.00	0.00	10,287.00	180.00	-225.00	-180.20	0.00	0.00	0.00
10,300.00	0.11	179.95	10,288.05	180.00	-225.00	-180.20	10.00	10.00	0.00
10,350.00	5.11	179.95	10,337.99	177.73	-225.00	-177.92	10.00	10.00	0.00
10,400.00	10.11	179.95	10,387.53	171.11	-224.99	-171.31	10.00	10.00	0.00
10,450.00	15.11	179.95	10,436.31	160.20	-224.98	-160.40	10.00	10.00	0.00
10,500.00	20.11	179.95	10,483.95	145.08	-224.97	-145.28	10.00	10.00	0.00
10,550.00	25.11	179.95	10,530.10	125.87	-224.96	-126.07	10.00	10.00	0.00
10,600.00	30.11	179.95	10,574.39	102.71	-224.94	-102.91	10.00	10.00	0.00
10,650.00	35.11	179.95	10,616.50	75.78	-224.92	-75.97	10.00	10.00	0.00
10,700.00	40.11	179.95	10,656.10	45.27	-224.89	-45.47	10.00	10.00	0.00
10,750.00	45.11	179.95	10,692.89	11.44	-224.86	-11.63	10.00	10.00	0.00
10,800.00	50.11	179.95	10,726.59	-25.48	-224.84	25.28	10.00	10.00	0.00
10,850.00	55.11	179.95	10,756.94	-65.19	-224.80	64.99	10.00	10.00	0.00
10,900.00	60.11	179.95	10,783.72	-107.39	-224.77	107.20	10.00	10.00	0.00
10,950.00	65.11	179.95	10,806.72	-151.77	-224.73	151.58	10.00	10.00	0.00
11,000.00	70.11	179.95	10,825.76	-197.99	-224.70	197.79	10.00	10.00	0.00
11,050.00	75.11	179.95	10,840.71	-245.68	-224.66	245.49	10.00	10.00	0.00
11,100.00	80.11	179.95	10,851.44	-294.50	-224.62	294.31	10.00	10.00	0.00
11,150.00	85.11	179.95	10,857.87	-344.07	-224.58	343.88	10.00	10.00	0.00
11,198.94	90.00	179.95	10,859.96	-392.95	-224.54	392.76	10.00	10.00	0.00
11,200.00	90.00	179.95	10,859.96	-394.01	-224.54	393.82	0.00	0.00	0.00
11,300.00	90.00	179.95	10,859.96	-494.01	-224.46	493.82	0.00	0.00	0.00
11,400.00	90.00	179.95	10,859.96	-594.01	-224.38	593.82	0.00	0.00	0.00
11,500.00	90.00	179.95	10,859.96	-694.01	-224.30	693.82	0.00	0.00	0.00
11,600.00	90.00	179.95	10,859.96	-794.01	-224.22	793.82	0.00	0.00	0.00
11,700.00	90.00	179.95	10,859.96	-894.01	-224.14	893.82	0.00	0.00	0.00
11,800.00	90.00	179.95	10,859.96	-994.01	-224.06	993.82	0.00	0.00	0.00
11,900.00	90.00	179.95	10,859.96	-1,094.01	-223.98	1,093.82	0.00	0.00	0.00
12,000.00	90.00	179.95	10,859.97	-1,194.01	-223.90	1,193.82	0.00	0.00	0.00
12,100.00	90.00	179.95	10,859.97	-1,294.01	-223.82	1,293.82	0.00	0.00	0.00
12,200.00	90.00	179.95	10,859.97	-1,394.01	-223.74	1,393.82	0.00	0.00	0.00
12,300.00	90.00	179.95	10,859.97	-1,494.01	-223.66	1,493.82	0.00	0.00	0.00
12,400.00	90.00	179.95	10,859.97	-1,594.01	-223.58	1,593.82	0.00	0.00	0.00
12,500.00	90.00	179.95	10,859.97	-1,694.01	-223.50	1,693.82	0.00	0.00	0.00
12,600.00	90.00	179.95	10,859.97	-1,794.01	-223.42	1,793.82	0.00	0.00	0.00
12,700.00	90.00	179.95	10,859.97	-1,894.01	-223.34	1,893.82	0.00	0.00	0.00

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	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)
12,800.00	90.00	179.95	10,859.97	-1,994.01	-223.26	1,993.82	0.00	0.00	0.00
12,900.00	90.00	179.95	10,859.97	-2,094.01	-223.18	2,093.82	0.00	0.00	0.00
13,000.00	90.00	179.95	10,859.98	-2,194.01	-223.10	2,193.82	0.00	0.00	0.00
13,100.00	90.00	179.95	10,859.98	-2,294.01	-223.02	2,293.82	0.00	0.00	0.00
13,200.00	90.00	179.95	10,859.98	-2,394.01	-222.94	2,393.82	0.00	0.00	0.00
13,300.00	90.00	179.95	10,859.98	-2,494.01	-222.85	2,493.82	0.00	0.00	0.00
13,400.00	90.00	179.95	10,859.98	-2,594.01	-222.77	2,593.82	0.00	0.00	0.00
13,500.00	90.00	179.95	10,859.98	-2,694.01	-222.69	2,693.82	0.00	0.00	0.00
13,600.00	90.00	179.95	10,859.98	-2,794.01	-222.61	2,793.82	0.00	0.00	0.00
13,700.00	90.00	179.95	10,859.98	-2,894.01	-222.53	2,893.82	0.00	0.00	0.00
13,800.00	90.00	179.95	10,859.98	-2,994.01	-222.45	2,993.82	0.00	0.00	0.00
13,900.00	90.00	179.95	10,859.98	-3,094.01	-222.37	3,093.82	0.00	0.00	0.00
14,000.00	90.00	179.95	10,859.98	-3,194.01	-222.29	3,193.82	0.00	0.00	0.00
14,100.00	90.00	179.95	10,859.99	-3,294.01	-222.21	3,293.82	0.00	0.00	0.00
14,200.00	90.00	179.95	10,859.99	-3,394.01	-222.13	3,393.82	0.00	0.00	0.00
14,300.00	90.00	179.95	10,859.99	-3,494.01	-222.05	3,493.82	0.00	0.00	0.00
14,400.00	90.00	179.95	10,859.99	-3,594.01	-221.97	3,593.82	0.00	0.00	0.00
14,500.00	90.00	179.95	10,859.99	-3,694.01	-221.89	3,693.82	0.00	0.00	0.00
14,600.00	90.00	179.95	10,859.99	-3,794.01	-221.81	3,793.82	0.00	0.00	0.00
14,700.00	90.00	179.95	10,859.99	-3,894.01	-221.73	3,893.82	0.00	0.00	0.00
14,800.00	90.00	179.95	10,859.99	-3,994.01	-221.65	3,993.82	0.00	0.00	0.00
14,900.00	90.00	179.95	10,859.99	-4,094.01	-221.57	4,093.82	0.00	0.00	0.00
15,000.00	90.00	179.95	10,859.99	-4,194.01	-221.49	4,193.82	0.00	0.00	0.00
15,100.00	90.00	179.95	10,860.00	-4,294.01	-221.41	4,293.82	0.00	0.00	0.00
15,200.00	90.00	179.95	10,860.00	-4,394.01	-221.33	4,393.82	0.00	0.00	0.00
15,300.00	90.00	179.95	10,860.00	-4,494.01	-221.25	4,493.82	0.00	0.00	0.00
15,400.00	90.00	179.95	10,860.00	-4,594.01	-221.17	4,593.82	0.00	0.00	0.00
15,500.00	90.00	179.95	10,860.00	-4,694.01	-221.09	4,693.82	0.00	0.00	0.00
15,600.00	90.00	179.95	10,860.00	-4,794.01	-221.01	4,793.82	0.00	0.00	0.00
15,611.99	90.00	179.95	10,860.00	-4,806.00	-221.00	4,805.81	0.00	0.00	0.00

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 133H
Project:	Lea County, NM	TVD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Site:	Verna Rae	MD Reference:	Rig @ 3648.50usft (GL:3620'+KB:28.5'(809))
Well:	133H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[VR133]LPP - plan misses target center by 4721.18usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-4,716.00	-221.00	581,206.00	726,795.00	32.5956823°N	103.5969320°W
[VR133]FPP - plan misses target center by 247.04usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-102.00	-225.00	585,820.00	726,791.00	32.6083644°N	103.5968413°W
[VR133]PBHL - plan hits target center - Point	0.00	0.00	10,860.0 0	-4,806.00	-221.00	581,116.00	726,795.00	32.5954349°N	103.5969341°W

Checked By: _____	Approved By: _____	Date: _____
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Matador Production Company
Verna Rae Fed Com 133H
SHL 230' FNL & 1755' FEL
BHL 240' FSL & 1980' 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'	1476'	N/A
Top salt	1605'	1606'	N/A
Base salt	3160'	3168'	N/A
Tansill sandstone	3195'	3203'	N/A
Yates gypsum	3302'	3310'	N/A
Seven Rivers dolomite	3695'	3703'	N/A
Queen sandstone	4602'	4610'	N/A
Capitan/Goat Seep Reef carbonate	4750'	4758'	water
Delaware Mt. Group sandstones	5295'	5303'	hydrocarbons
Brushy Canyon sandstone	6194'	6202'	hydrocarbons
Bone Spring Limestone	8279'	8287'	hydrocarbons
1 st Bone Spring carbonate	9010'	9018'	hydrocarbons
1 st Bone Spring sand	9400'	9408'	hydrocarbons
2 nd Bone Spring carbonate	9695'	9703'	hydrocarbons
2 nd Bone Spring sand	9930'	9980'	hydrocarbons
(KOP	10288'	10300'	hydrocarbons)
3 rd Bone Spring sand	10446'	10460'	hydrocarbons
3 rd Bone Spring carbonate	10670'	10715'	hydrocarbons & goal
TD	10335'	14982'	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 1856' NNE. Depth to water is 110' in this 160' deep inactive well.

3. PRESSURE CONTROL

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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

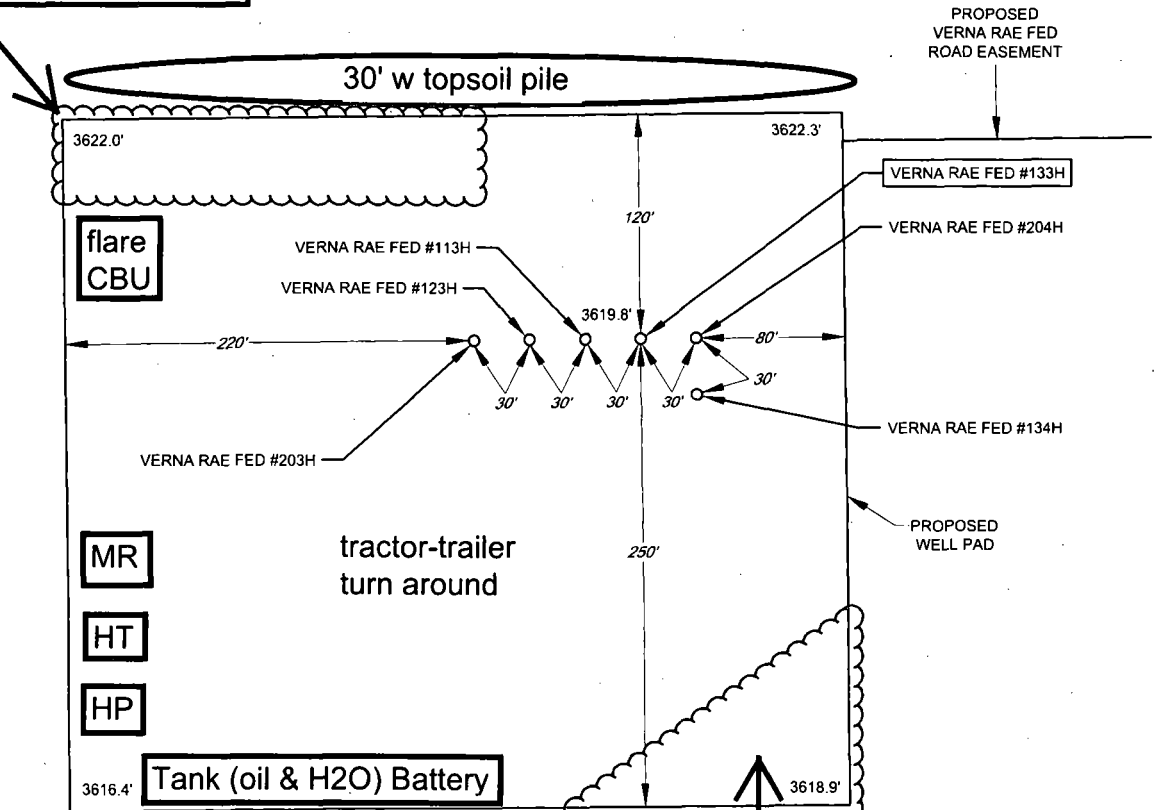


SECTION 6, TOWNSHIP 20-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

SECTION LINE

interim reclaim 50' x 220' = 0.25 ac.



interim reclaim 100' x 150' x 180' = 0.17 ac.

LEASE NAME & WELL NO.: _____ VERN RAE FED #133H
#133H LATITUDE N 32.6087641 #133H LONGITUDE W 103.5966018

LEGEND

== == == == EXISTING ROAD
----- SECTION LINE

INTERIM RECLAMATION & PRODUCTION DIAGRAM

SCALE: 1" = 100'
0' 50' 100'

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

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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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**Matador Production Company
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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

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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
+ 370' x 420' pad = 3.57 acres
<u>4.49 acres short term</u>
- 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, 2107.

**Matador Production Company
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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 11th 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