

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

HOBBS OCD

FEB 28 2018

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
LEASE NO.:	NMNM136226
WELL NAME & NO.:	215H - LESLIE FEDERAL COM
SURFACE HOLE FOOTAGE:	295'/S & 1232'/W
BOTTOM HOLE FOOTAGE:	240'/N & 988'/W
LOCATION:	Section 17., T25S., R.35E., NMP
COUNTY:	LEA County, New Mexico

RECEIVED

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

A. Hydrogen Sulfide

1. Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13 3/8** inch surface casing shall be set at approximately **1000** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **9 5/8** inch first intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **7** inch second intermediate casing is:
 - Cement as proposed. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **4 1/2** inch production casing is:
 - Cement as proposed. 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.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9 5/8** inch first intermediate casing shoe shall be **5000 (5M)** psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7** inch second intermediate casing shoe shall be **10,000 (10M)** psi.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the first casing shoe shall be **10,000 (10M)** 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. **After the 7" casing is set in the speed head, the BOP will then be lifted to install another casing head section for setting the production casing. Therefore, per Onshore Oil and Gas Order No. 2, the entire BOP/BOPE shall be tested prior to drilling out the second intermediate casing shoe.**
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- f. 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.

A 5M Annular variance sundry along with a 'well control plan' and 10M BOP/BOPE diagram must be submitted, in order to use a 5M Annular on top of a 10M BOP stack.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement

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

MHH 02222018

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.:	215H – LESLIE FEDERAL COM
SURFACE HOLE FOOTAGE:	295'/S & 1232'/W
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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.

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

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must

be large enough to contain 1 ½ times the content of the largest tank. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

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

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

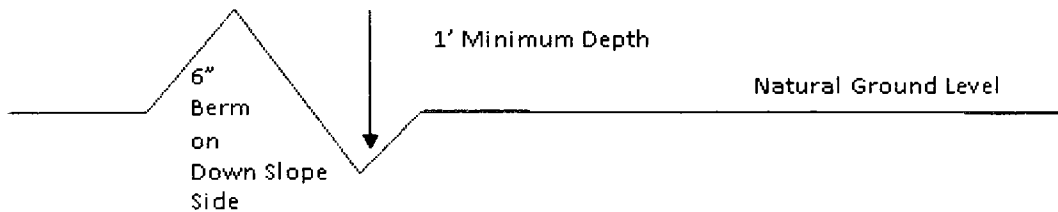
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

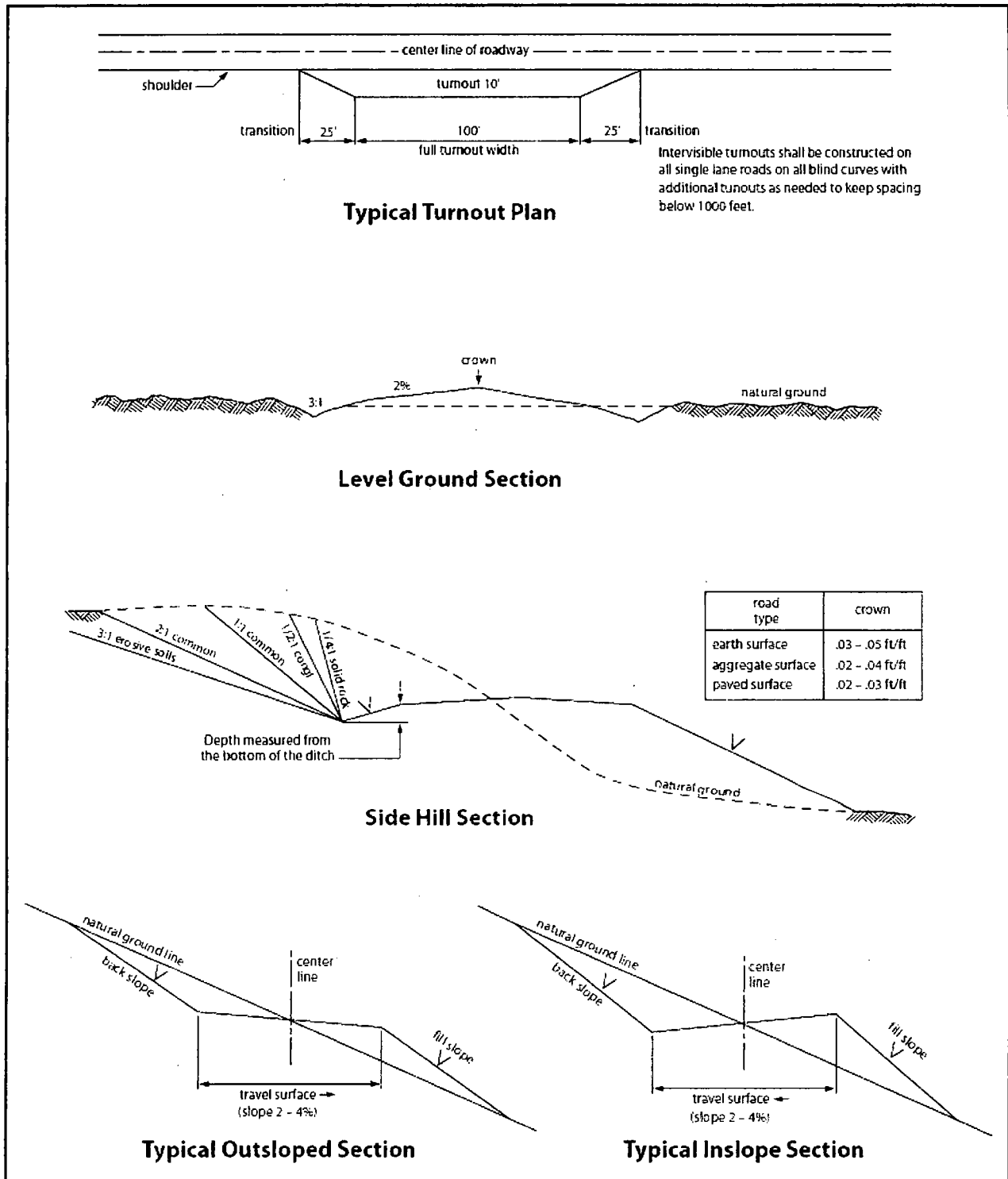


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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).

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

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

*Pounds of pure live seed:

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



Hydrogen Sulfide Drilling Operations Plan

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windssocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See attachments

6 Communication:

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

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

Burst: $DF_b=1.125$

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

Tensile: $DF_t=1.8$

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

Production Casing

Collapse: $DF_c=1.125$

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

Burst: $DF_b=1.125$

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

Tensile: $DF_t=1.8$

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



7 Drilling Stem Testing:

- No DSTs or cores are planned at this time.

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

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

11 Emergency Contacts

- See following page

H2S Contingency Plan Emergency Contacts
 Leslie Fed Com wells
 Matador Production Company
 Sec. 17, T25S, R35E Lea County, NM

Company Office			
Matador Production Company		(972)-371-5200	
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Greg Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659
Lea County			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. (Jal)		575-395-2221	
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	

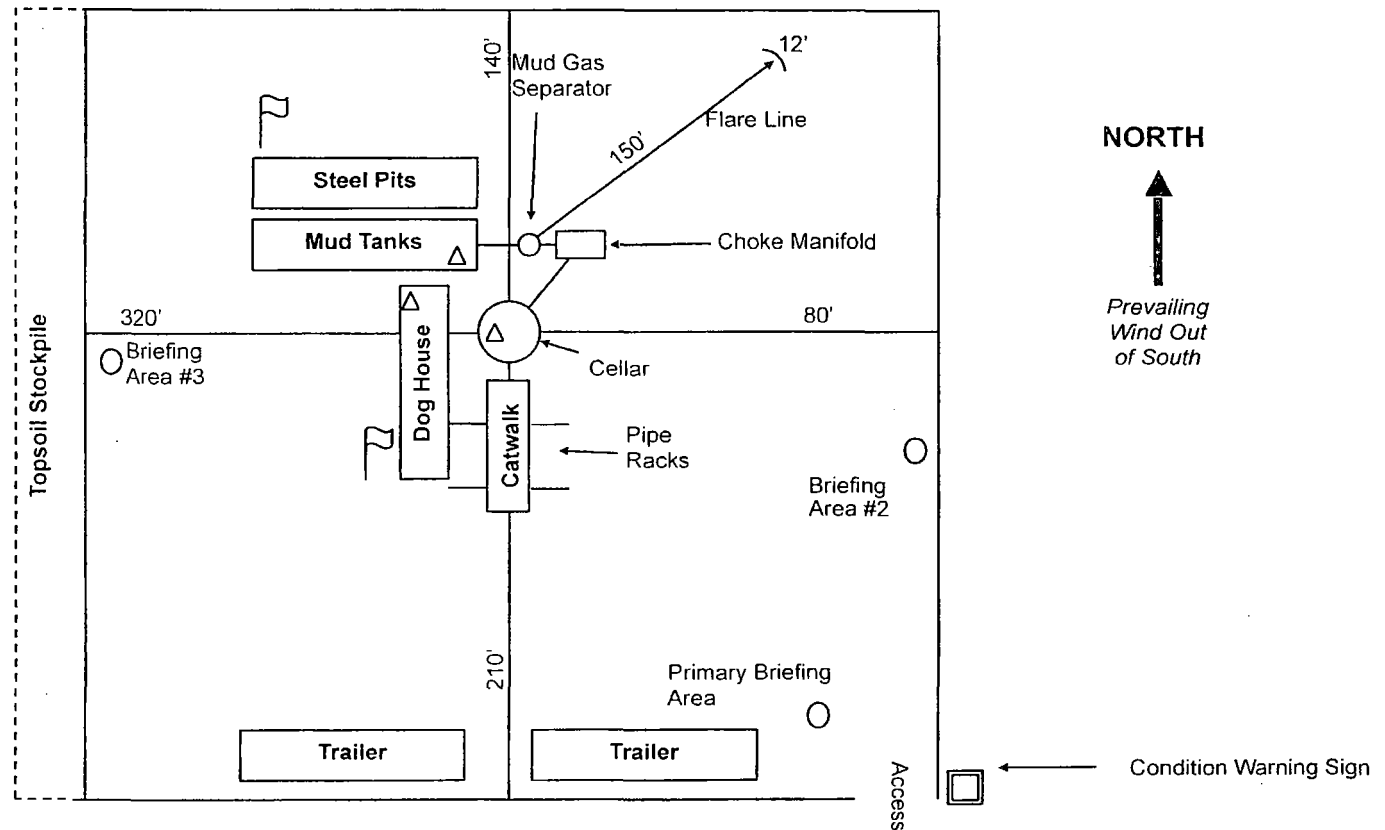
H2S Rig Diagram

Leslie Fed Com 215H
SHL 295' FSL & 1232' FWL
17-25S-35E Lea County, NM

Wind Direction Indicator

H2S Monitors

Briefing Areas

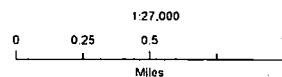


Matador Production Company

Leslie Fed Com #215H
H₂S Contingency Plan:
2 Mile Radius Map

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

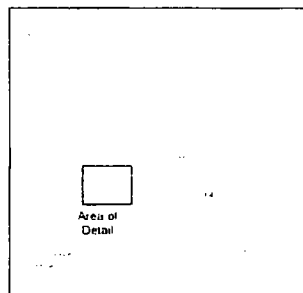
⊙ Surface Hole Location



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

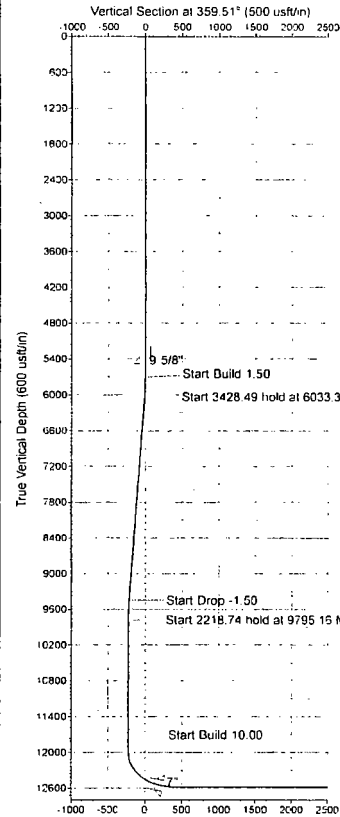
Prepared by Permits West, Inc., July 27, 2017
for Matador Production Company





Matador Resources
Lea County, NM
Leslie Fed Com
215H
Prelim Plan B
GL:3311' + KB:29'

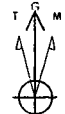
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Datum: 1985
New Mexico East 3001
Mean Sea Level



RKB Elevation	Rig @ 3340.00usft (GL 3311' + KB:29')
+N-S 0.00	+E-W 0.00
Northing 410039.00	Easting 790911.00
Latitude 32.1238263	Longitude -103.3936491
Slot	

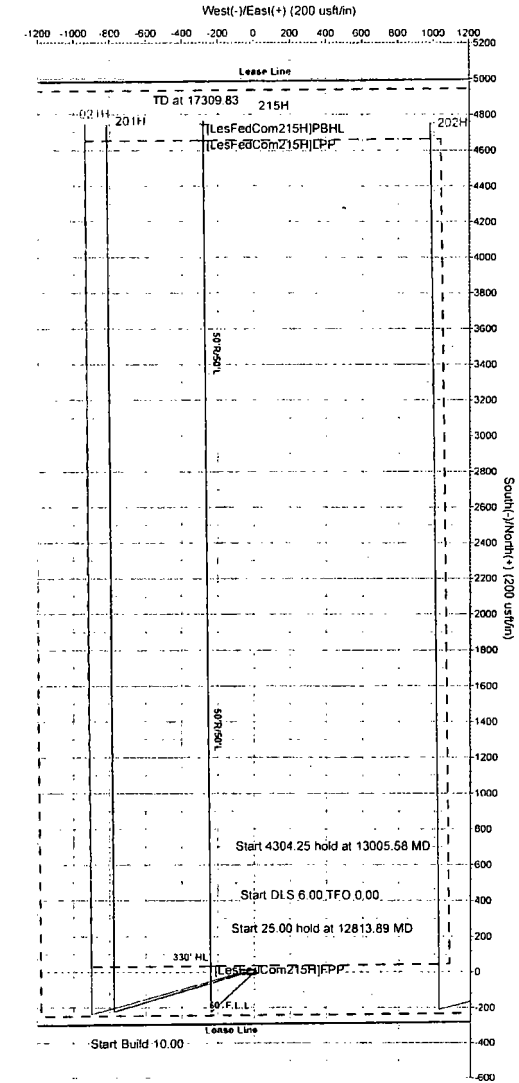
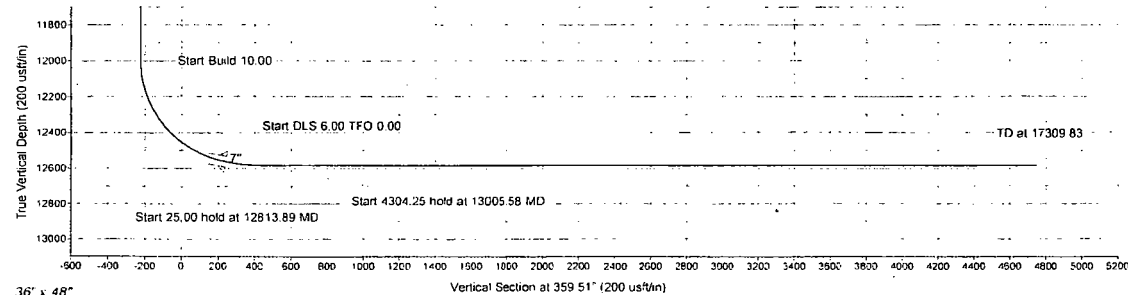
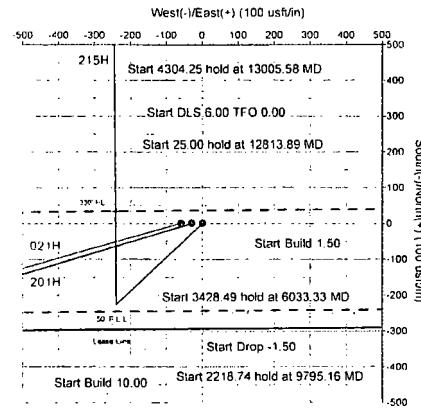
SECTION DETAILS- Lateral

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00
3	6033.33	5.00	226.67	6032.91	-8.67	-10.57	1.50	-9.88
4	9461.82	5.00	226.67	9448.35	-215.03	-22.33	0.00	-213.07
5	9795.16	0.00	0.00	9781.25	-225.00	-238.50	1.50	-222.95
6	12013.89	0.00	0.00	12000.00	-225.00	-238.50	0.00	-222.95
7	12813.89	80.00	359.51	12564.25	248.45	-242.55	10.00	250.51
8	12813.89	80.00	359.51	12568.59	273.07	-242.76	0.00	275.13
9	13005.58	90.00	359.51	12563.10	438.91	-244.18	6.00	440.98
10	17309.83	90.00	359.51	12563.03	4743.00	-281.00	0.00	4745.23



Azimuths to Grid North
True North -0.10
Magnetic North -6.75
Magnetic Field
Strength: 47991 Gauss
Dip Angle: 59.85
Date: 6/24/2017
Normal: NEQ3A

Azimuth Corrections
Total Magnetic Corr. (M to G): 6.75
Declination (M to T): 6.75° East



36" x 48"

Vertical Section at 359.51° (200 usft/in)

Matador Resources

Lea County, NM

Leslie Fed Com

215H

OH

Plan: Prelim Plan B

Standard Survey Report

24 August, 2017

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 215H
Project:	Lea County, NM	TVD Reference:	Rig @ 3340.00usft (GL:3311' + KB:29')
Site:	Leslie Fed Com	MD Reference:	Rig @ 3340.00usft (GL:3311' + KB:29')
Well:	215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

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

Site	Leslie Fed Com				
Site Position:	Northing:	410,039.00 usft	Latitude:	32.1238270	
From:	Map	Easting:	790,881.00 usft	Longitude:	-103.3937449
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	215H					
Well Position	+N/-S	0.00 usft	Northing:	410,039.00 usft	Latitude:	32.1238263
	+E/-W	0.00 usft	Easting:	790,911.00 usft	Longitude:	-103.3936481
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,311.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/24/2017	6.75	59.85	47,991.50

Design	Prelim Plan B			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.51

Survey Tool Program	Date	8/24/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	5,481.00	Prelim Plan B (OH)	MWD - OWSG	MWD - OWSG
5,481.00	12,810.00	Prelim Plan B (OH)	MWD - OWSG	MWD - OWSG
12,810.00	17,309.82	Prelim Plan B (OH)	MWD - OWSG	MWD - OWSG

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,481.00	0.00	0.00	5,481.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	1.50	226.67	5,799.99	-0.90	-0.95	-0.89	1.50	1.50	0.00
5,900.00	3.00	226.67	5,899.91	-3.59	-3.81	-3.56	1.50	1.50	0.00
6,000.00	4.50	226.67	5,999.69	-8.08	-8.57	-8.01	1.50	1.50	0.00
6,033.33	5.00	226.67	6,032.91	-9.97	-10.57	-9.88	1.50	1.50	0.00
6,100.00	5.00	226.67	6,099.32	-13.96	-14.80	-13.83	0.00	0.00	0.00
6,200.00	5.00	226.67	6,198.94	-19.94	-21.14	-19.76	0.00	0.00	0.00
6,300.00	5.00	226.67	6,298.56	-25.92	-27.48	-25.69	0.00	0.00	0.00
6,400.00	5.00	226.67	6,398.18	-31.90	-33.82	-31.61	0.00	0.00	0.00
6,500.00	5.00	226.67	6,497.80	-37.88	-40.16	-37.54	0.00	0.00	0.00
6,600.00	5.00	226.67	6,597.42	-43.87	-46.50	-43.47	0.00	0.00	0.00
6,700.00	5.00	226.67	6,697.04	-49.85	-52.84	-49.39	0.00	0.00	0.00
6,800.00	5.00	226.67	6,796.66	-55.83	-59.18	-55.32	0.00	0.00	0.00
6,900.00	5.00	226.67	6,896.28	-61.81	-65.52	-61.25	0.00	0.00	0.00
7,000.00	5.00	226.67	6,995.90	-67.79	-71.86	-67.17	0.00	0.00	0.00
7,100.00	5.00	226.67	7,095.52	-73.77	-78.20	-73.10	0.00	0.00	0.00
7,200.00	5.00	226.67	7,195.14	-79.75	-84.54	-79.02	0.00	0.00	0.00
7,300.00	5.00	226.67	7,294.76	-85.73	-90.88	-84.95	0.00	0.00	0.00
7,400.00	5.00	226.67	7,394.38	-91.71	-97.21	-90.88	0.00	0.00	0.00
7,500.00	5.00	226.67	7,494.00	-97.69	-103.55	-96.80	0.00	0.00	0.00
7,600.00	5.00	226.67	7,593.62	-103.67	-109.89	-102.73	0.00	0.00	0.00
7,700.00	5.00	226.67	7,693.24	-109.65	-116.23	-108.66	0.00	0.00	0.00
7,800.00	5.00	226.67	7,792.85	-115.64	-122.57	-114.58	0.00	0.00	0.00
7,900.00	5.00	226.67	7,892.47	-121.62	-128.91	-120.51	0.00	0.00	0.00
8,000.00	5.00	226.67	7,992.09	-127.60	-135.25	-126.44	0.00	0.00	0.00
8,100.00	5.00	226.67	8,091.71	-133.58	-141.59	-132.36	0.00	0.00	0.00
8,200.00	5.00	226.67	8,191.33	-139.56	-147.93	-138.29	0.00	0.00	0.00
8,300.00	5.00	226.67	8,290.95	-145.54	-154.27	-144.21	0.00	0.00	0.00
8,400.00	5.00	226.67	8,390.57	-151.52	-160.61	-150.14	0.00	0.00	0.00
8,500.00	5.00	226.67	8,490.19	-157.50	-166.95	-156.07	0.00	0.00	0.00
8,600.00	5.00	226.67	8,589.81	-163.48	-173.29	-161.99	0.00	0.00	0.00
8,700.00	5.00	226.67	8,689.43	-169.46	-179.63	-167.92	0.00	0.00	0.00
8,800.00	5.00	226.67	8,789.05	-175.44	-185.97	-173.85	0.00	0.00	0.00
8,900.00	5.00	226.67	8,888.67	-181.42	-192.31	-179.77	0.00	0.00	0.00
9,000.00	5.00	226.67	8,988.29	-187.40	-198.65	-185.70	0.00	0.00	0.00
9,100.00	5.00	226.67	9,087.91	-193.39	-204.99	-191.63	0.00	0.00	0.00
9,200.00	5.00	226.67	9,187.53	-199.37	-211.33	-197.55	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
9,300.00	5.00	226.67	9,287.15	-205.35	-217.67	-203.48	0.00	0.00	0.00
9,400.00	5.00	226.67	9,386.77	-211.33	-224.01	-209.40	0.00	0.00	0.00
9,461.82	5.00	226.67	9,448.35	-215.03	-227.93	-213.07	0.00	0.00	0.00
9,500.00	4.43	226.67	9,486.40	-217.18	-230.21	-215.20	1.50	-1.50	0.00
9,600.00	2.93	226.67	9,586.19	-221.58	-234.87	-219.56	1.50	-1.50	0.00
9,700.00	1.43	226.67	9,686.12	-224.19	-237.64	-222.15	1.50	-1.50	0.00
9,795.16	0.00	0.00	9,781.26	-225.00	-238.50	-222.95	1.50	-1.50	0.00
9,800.00	0.00	0.00	9,786.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
9,900.00	0.00	0.00	9,886.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,000.00	0.00	0.00	9,986.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,100.00	0.00	0.00	10,086.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,200.00	0.00	0.00	10,186.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,300.00	0.00	0.00	10,286.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,400.00	0.00	0.00	10,386.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,500.00	0.00	0.00	10,486.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,600.00	0.00	0.00	10,586.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,700.00	0.00	0.00	10,686.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,800.00	0.00	0.00	10,786.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
10,900.00	0.00	0.00	10,886.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,000.00	0.00	0.00	10,986.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,100.00	0.00	0.00	11,086.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,200.00	0.00	0.00	11,186.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,300.00	0.00	0.00	11,286.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,400.00	0.00	0.00	11,386.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,500.00	0.00	0.00	11,486.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,600.00	0.00	0.00	11,586.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,700.00	0.00	0.00	11,686.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,800.00	0.00	0.00	11,786.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
11,900.00	0.00	0.00	11,886.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
12,000.00	0.00	0.00	11,986.11	-225.00	-238.50	-222.95	0.00	0.00	0.00
12,013.89	0.00	0.00	12,000.00	-225.00	-238.50	-222.95	0.00	0.00	0.00
12,050.00	3.61	359.51	12,036.08	-223.86	-238.51	-221.81	10.00	10.00	0.00
12,100.00	8.61	359.51	12,085.78	-218.54	-238.56	-216.49	10.00	10.00	0.00
12,150.00	13.61	359.51	12,134.83	-208.91	-238.64	-206.86	10.00	10.00	0.00
12,200.00	18.61	359.51	12,182.85	-195.04	-238.76	-192.99	10.00	10.00	0.00
12,250.00	23.61	359.51	12,229.48	-177.04	-238.91	-174.99	10.00	10.00	0.00
12,300.00	28.61	359.51	12,274.37	-155.04	-239.10	-152.99	10.00	10.00	0.00
12,350.00	33.61	359.51	12,317.16	-129.21	-239.32	-127.16	10.00	10.00	0.00
12,400.00	38.61	359.51	12,357.54	-99.76	-239.57	-97.71	10.00	10.00	0.00
12,450.00	43.61	359.51	12,395.20	-66.89	-239.85	-64.84	10.00	10.00	0.00
12,500.00	48.61	359.51	12,429.85	-30.87	-240.16	-28.82	10.00	10.00	0.00
12,550.00	53.61	359.51	12,461.23	8.03	-240.49	10.09	10.00	10.00	0.00
12,600.00	58.61	359.51	12,489.10	49.52	-240.85	51.58	10.00	10.00	0.00

Pro Directional Survey Report

Company: Malador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
12,650.00	63.61	359.51	12,513.25	93.29	-241.22	95.34	10.00	10.00	0.00
12,700.00	68.61	359.51	12,533.50	138.99	-241.61	141.05	10.00	10.00	0.00
12,750.00	73.61	359.51	12,549.68	186.28	-242.02	188.34	10.00	10.00	0.00
12,800.00	78.61	359.51	12,561.68	234.80	-242.43	236.86	10.00	10.00	0.00
12,805.00	79.11	359.51	12,562.64	239.70	-242.47	241.77	10.00	10.00	0.00
7"									
12,813.89	80.00	359.51	12,564.25	248.45	-242.55	250.51	10.00	10.00	0.00
12,838.89	80.00	359.51	12,568.59	273.07	-242.76	275.13	0.00	0.00	0.00
12,850.00	80.67	359.51	12,570.46	284.02	-242.85	286.08	6.00	6.00	0.00
12,900.00	83.67	359.51	12,577.27	333.54	-243.28	335.61	6.00	6.00	0.00
12,950.00	86.67	359.51	12,581.49	383.36	-243.70	385.43	6.00	6.00	0.00
13,000.00	89.67	359.51	12,583.09	433.32	-244.13	435.40	6.00	6.00	0.00
13,005.58	90.00	359.51	12,583.10	438.91	-244.18	440.98	6.00	6.00	0.00
13,100.00	90.00	359.51	12,583.10	533.32	-244.99	535.40	0.00	0.00	0.00
13,200.00	90.00	359.51	12,583.10	633.32	-245.84	635.40	0.00	0.00	0.00
13,300.00	90.00	359.51	12,583.10	733.31	-246.70	735.40	0.00	0.00	0.00
13,400.00	90.00	359.51	12,583.09	833.31	-247.55	835.40	0.00	0.00	0.00
13,500.00	90.00	359.51	12,583.09	933.31	-248.41	935.40	0.00	0.00	0.00
13,600.00	90.00	359.51	12,583.09	1,033.30	-249.26	1,035.40	0.00	0.00	0.00
13,700.00	90.00	359.51	12,583.09	1,133.30	-250.12	1,135.40	0.00	0.00	0.00
13,800.00	90.00	359.51	12,583.08	1,233.29	-250.97	1,235.40	0.00	0.00	0.00
13,900.00	90.00	359.51	12,583.08	1,333.29	-251.83	1,335.40	0.00	0.00	0.00
14,000.00	90.00	359.51	12,583.08	1,433.29	-252.69	1,435.40	0.00	0.00	0.00
14,100.00	90.00	359.51	12,583.08	1,533.28	-253.54	1,535.40	0.00	0.00	0.00
14,200.00	90.00	359.51	12,583.07	1,633.28	-254.40	1,635.40	0.00	0.00	0.00
14,300.00	90.00	359.51	12,583.07	1,733.28	-255.25	1,735.40	0.00	0.00	0.00
14,400.00	90.00	359.51	12,583.07	1,833.27	-256.11	1,835.40	0.00	0.00	0.00
14,500.00	90.00	359.51	12,583.07	1,933.27	-256.96	1,935.40	0.00	0.00	0.00
14,600.00	90.00	359.51	12,583.06	2,033.27	-257.82	2,035.40	0.00	0.00	0.00
14,700.00	90.00	359.51	12,583.06	2,133.26	-258.67	2,135.40	0.00	0.00	0.00
14,800.00	90.00	359.51	12,583.06	2,233.26	-259.53	2,235.40	0.00	0.00	0.00
14,900.00	90.00	359.51	12,583.06	2,333.25	-260.38	2,335.40	0.00	0.00	0.00
15,000.00	90.00	359.51	12,583.06	2,433.25	-261.24	2,435.40	0.00	0.00	0.00
15,100.00	90.00	359.51	12,583.05	2,533.25	-262.10	2,535.40	0.00	0.00	0.00
15,200.00	90.00	359.51	12,583.05	2,633.24	-262.95	2,635.40	0.00	0.00	0.00
15,300.00	90.00	359.51	12,583.05	2,733.24	-263.81	2,735.40	0.00	0.00	0.00
15,400.00	90.00	359.51	12,583.05	2,833.24	-264.66	2,835.40	0.00	0.00	0.00
15,500.00	90.00	359.51	12,583.04	2,933.23	-265.52	2,935.40	0.00	0.00	0.00
15,600.00	90.00	359.51	12,583.04	3,033.23	-266.37	3,035.40	0.00	0.00	0.00
15,700.00	90.00	359.51	12,583.04	3,133.22	-267.23	3,135.40	0.00	0.00	0.00
15,800.00	90.00	359.51	12,583.04	3,233.22	-268.08	3,235.40	0.00	0.00	0.00
15,900.00	90.00	359.51	12,583.03	3,333.22	-268.94	3,335.40	0.00	0.00	0.00
16,000.00	90.00	359.51	12,583.03	3,433.21	-269.79	3,435.40	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,100.00	90.00	359.51	12,583.03	3,533.21	-270.65	3,535.40	0.00	0.00	0.00
16,200.00	90.00	359.51	12,583.03	3,633.21	-271.51	3,635.40	0.00	0.00	0.00
16,300.00	90.00	359.51	12,583.02	3,733.20	-272.36	3,735.40	0.00	0.00	0.00
16,400.00	90.00	359.51	12,583.02	3,833.20	-273.22	3,835.40	0.00	0.00	0.00
16,500.00	90.00	359.51	12,583.02	3,933.20	-274.07	3,935.40	0.00	0.00	0.00
16,600.00	90.00	359.51	12,583.02	4,033.19	-274.93	4,035.40	0.00	0.00	0.00
16,700.00	90.00	359.51	12,583.01	4,133.19	-275.78	4,135.40	0.00	0.00	0.00
16,800.00	90.00	359.51	12,583.01	4,233.18	-276.64	4,235.40	0.00	0.00	0.00
16,900.00	90.00	359.51	12,583.01	4,333.18	-277.49	4,335.40	0.00	0.00	0.00
17,000.00	90.00	359.51	12,583.01	4,433.18	-278.35	4,435.40	0.00	0.00	0.00
17,100.00	90.00	359.51	12,583.01	4,533.17	-279.20	4,535.40	0.00	0.00	0.00
17,200.00	90.00	359.51	12,583.00	4,633.17	-280.06	4,635.40	0.00	0.00	0.00
17,309.83	90.00	359.51	12,583.00	4,743.00	-281.00	4,745.23	0.00	0.00	0.00

Design Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[LesFedCom215H]LPP	- plan misses target center by 4661.42usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	4,653.00	-280.00	414,692.00	790,631.00	32.1366226	-103.3944214
[LesFedCom215H]FPP	- plan misses target center by 242.26usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	33.00	-240.00	410,072.00	790,671.00	32.1239228	-103.3944223
[LesFedCom215H]PBHL	- plan hits target center	0.00	0.00	12,583.00	4,743.00	-281.00	414,782.00	790,630.00	32.1368700	-103.3944221

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,481.00	5,481.00	9 5/8"	9-5/8	12-1/4
12,805.00	12,562.64	7"	7	8-3/4

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Leslie Fed Com
Well: 215H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5700	5700	0	0	Start Build 1.50
6033	6033	-10	-11	Start 3428.49 hold at 6033.33 MD
9462	9448	-215	-228	Start Drop -1.50
9795	9781	-225	-239	Start 2218.74 hold at 9795.16 MD
12,014	12,000	-225	-239	Start Build 10.00
12,814	12,564	248	-243	Start 25.00 hold at 12813.89 MD
12,839	12,569	273	-243	Start DLS 6.00 TFO 0.00
13,006	12,583	439	-244	Start 4304.25 hold at 13005.58 MD
17,310	12,583	4743	-281	TD at 17309.83

Checked By: _____ Approved By: _____ Date: _____

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

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

Survey Tool Program:	Date: 8/24/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	5,481.00	Prelim Plan B (OH)	MWD - OWSG	MWD - OWSG
5,481.00	12,810.00	Prelim Plan B (OH)	MWD - OWSG	MWD - OWSG
12,810.00	17,309.82	Prelim Plan B (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						
Biggers Fed Com						
203H - OH - Prelim Plan A	13,000.00	13,009.25	2,337.70	2,271.88	35.519 CC	
203H - OH - Prelim Plan A	17,309.83	17,301.40	2,338.10	2,167.61	13,714 ES, SF	
214H - OH - Prelim Plan A	12,013.89	12,061.05	1,439.59	1,378.89	23,717 CC	
214H - OH - Prelim Plan A	17,309.83	17,474.39	1,442.54	1,271.90	8,454 ES, SF	
217H - OH - Prelim Plan A	507.81	528.81	2,498.74	2,495.49	768,009 CC	
217H - OH - Prelim Plan A	600.00	600.00	2,498.83	2,494.99	650,854 ES	
217H - OH - Prelim Plan A	17,309.83	17,483.12	3,240.06	3,069.12	18,955 SF	
Leslie Fed Com						
021H - OH - Prelim Plan A	800.00	800.00	60.00	54.73	11,378 CC, ES	
021H - OH - Prelim Plan A	1,100.00	1,094.95	71.22	63.87	9,689 SF	
024H - OH - Prelim Plan A	7,509.45	7,665.93	3,183.78	3,135.53	65,984 CC, ES	
024H - OH - Prelim Plan A	17,309.83	13,799.14	4,782.10	4,651.32	36,568 SF	
201H - OH - Prelim Plan A	800.00	800.00	30.00	24.73	5,689 CC, ES	
201H - OH - Prelim Plan A	17,309.83	17,241.31	545.49	379.00	3,276 SF	
202H - OH - Prelim Plan A	8,477.55	8,565.14	1,199.39	1,154.05	26,455 CC	
202H - OH - Prelim Plan A	17,309.83	17,239.70	1,264.43	1,096.59	7,533 ES, SF	
203H - OH - Prelim Plan B	5,700.00	5,708.29	3,063.51	3,024.94	79,426 CC, ES	
203H - OH - Prelim Plan B	17,309.83	16,951.65	3,303.03	3,135.94	19,768 SF	
214H - Prelim Plan A - Prelim Plan A	4,801.52	4,744.52	3,529.97	3,496.22	104,569 CC	
214H - Prelim Plan A - Prelim Plan A	4,900.00	4,829.79	3,530.05	3,495.64	102,586 ES	
214H - Prelim Plan A - Prelim Plan A	17,309.83	17,300.39	3,962.18	3,795.08	23,711 SF	
217H - OH - Prelim Plan A	5,700.00	5,668.00	1,968.09	1,929.44	50,923 CC, ES	
217H - OH - Prelim Plan A	17,309.83	17,285.75	2,162.08	1,994.09	12,870 SF	

Offset Design Biggers Fed Com - 203H - OH - Prelim Plan A										
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12808-MWD - OWSG										
Reference	Offset		Semi Major Axis		Distance				Offset Site Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Offset Well Error:	0.00 usft
0.00	0.00	21.00	21.00	0.00	0.03	-95.10	-222.00	-2,486.00		
100.00	100.00	121.00	121.00	0.13	0.20	-95.10	-222.00	-2,486.00		
							2,495.89	2,495.56	0.33	7,568.032

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 203H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: Q-MWD - OWSG, 5500-MWD - OWSG, 12808-MWD - OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre •NI-S (usft)	•EJ-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
200.00	200.00	221.00	221.00	0.49	0.56	-95.10	-222.00	-2,486.00	2,495.89	2,494.85	1.05	2,384.450	
300.00	300.00	321.00	321.00	0.84	0.92	-95.10	-222.00	-2,486.00	2,495.89	2,494.13	1.76	1,415.162	
400.00	400.00	421.00	421.00	1.20	1.28	-95.10	-222.00	-2,486.00	2,495.89	2,493.41	2.48	1,006.155	
500.00	500.00	521.00	521.00	1.56	1.64	-95.10	-222.00	-2,486.00	2,495.89	2,492.70	3.20	780.560	
600.00	600.00	621.00	621.00	1.92	1.99	-95.10	-222.00	-2,486.00	2,495.89	2,491.98	3.91	637.600	
700.00	700.00	721.00	721.00	2.28	2.35	-95.10	-222.00	-2,486.00	2,495.89	2,491.26	4.63	538.901	
800.00	800.00	821.00	821.00	2.64	2.71	-95.10	-222.00	-2,486.00	2,495.89	2,490.54	5.35	466.662	
900.00	900.00	921.00	921.00	3.00	3.07	-95.10	-222.00	-2,486.00	2,495.89	2,489.83	6.07	411.501	
1,000.00	1,000.00	1,021.00	1,021.00	3.35	3.43	-95.10	-222.00	-2,486.00	2,495.89	2,489.11	6.78	368.002	
1,100.00	1,100.00	1,121.00	1,121.00	3.71	3.79	-95.10	-222.00	-2,486.00	2,495.89	2,488.39	7.50	332.820	
1,200.00	1,200.00	1,221.00	1,221.00	4.07	4.15	-95.10	-222.00	-2,486.00	2,495.89	2,487.68	8.22	303.778	
1,300.00	1,300.00	1,321.00	1,321.00	4.43	4.50	-95.10	-222.00	-2,486.00	2,495.89	2,486.96	8.93	279.398	
1,400.00	1,400.00	1,421.00	1,421.00	4.79	4.86	-95.10	-222.00	-2,486.00	2,495.89	2,486.24	9.65	258.640	
1,500.00	1,500.00	1,521.00	1,521.00	5.15	5.22	-95.10	-222.00	-2,486.00	2,495.89	2,485.53	10.37	240.754	
1,600.00	1,600.00	1,621.00	1,621.00	5.50	5.58	-95.10	-222.00	-2,486.00	2,495.89	2,484.81	11.08	225.181	
1,700.00	1,700.00	1,721.00	1,721.00	5.86	5.94	-95.10	-222.00	-2,486.00	2,495.89	2,484.09	11.80	211.500	
1,800.00	1,800.00	1,821.00	1,821.00	6.22	6.30	-95.10	-222.00	-2,486.00	2,495.89	2,483.37	12.52	199.387	
1,900.00	1,900.00	1,921.00	1,921.00	6.58	6.66	-95.10	-222.00	-2,486.00	2,495.89	2,482.66	13.23	188.586	
2,000.00	2,000.00	2,021.00	2,021.00	6.94	7.01	-95.10	-222.00	-2,486.00	2,495.89	2,481.94	13.95	178.895	
2,100.00	2,100.00	2,121.00	2,121.00	7.30	7.37	-95.10	-222.00	-2,486.00	2,495.89	2,481.22	14.67	170.151	
2,200.00	2,200.00	2,221.00	2,221.00	7.66	7.73	-95.10	-222.00	-2,486.00	2,495.89	2,480.51	15.39	162.223	
2,300.00	2,300.00	2,321.00	2,321.00	8.01	8.09	-95.10	-222.00	-2,486.00	2,495.89	2,479.79	16.10	155.000	
2,400.00	2,400.00	2,421.00	2,421.00	8.37	8.45	-95.10	-222.00	-2,486.00	2,495.89	2,479.07	16.82	148.393	
2,500.00	2,500.00	2,521.00	2,521.00	8.73	8.81	-95.10	-222.00	-2,486.00	2,495.89	2,478.36	17.54	142.326	
2,600.00	2,600.00	2,621.00	2,621.00	9.09	9.16	-95.10	-222.00	-2,486.00	2,495.89	2,477.64	18.25	136.736	
2,700.00	2,700.00	2,721.00	2,721.00	9.45	9.52	-95.10	-222.00	-2,486.00	2,495.89	2,476.92	18.97	131.568	
2,800.00	2,800.00	2,821.00	2,821.00	9.81	9.88	-95.10	-222.00	-2,486.00	2,495.89	2,476.21	19.69	126.777	
2,900.00	2,900.00	2,921.00	2,921.00	10.16	10.24	-95.10	-222.00	-2,486.00	2,495.89	2,475.49	20.40	122.322	
3,000.00	3,000.00	3,021.00	3,021.00	10.52	10.60	-95.10	-222.00	-2,486.00	2,495.89	2,474.77	21.12	118.170	
3,100.00	3,100.00	3,121.00	3,121.00	10.88	10.96	-95.10	-222.00	-2,486.00	2,495.89	2,474.05	21.84	114.291	
3,200.00	3,200.00	3,221.00	3,221.00	11.24	11.32	-95.10	-222.00	-2,486.00	2,495.89	2,473.34	22.56	110.658	
3,300.00	3,300.00	3,321.00	3,321.00	11.60	11.67	-95.10	-222.00	-2,486.00	2,495.89	2,472.62	23.27	107.249	
3,400.00	3,400.00	3,421.00	3,421.00	11.96	12.03	-95.10	-222.00	-2,486.00	2,495.89	2,471.90	23.99	104.044	
3,500.00	3,500.00	3,521.00	3,521.00	12.32	12.39	-95.10	-222.00	-2,486.00	2,495.89	2,471.19	24.71	101.024	
3,600.00	3,600.00	3,621.00	3,621.00	12.67	12.75	-95.10	-222.00	-2,486.00	2,495.89	2,470.47	25.42	98.175	
3,700.00	3,700.00	3,721.00	3,721.00	13.03	13.11	-95.10	-222.00	-2,486.00	2,495.89	2,469.75	26.14	95.483	
3,800.00	3,800.00	3,821.00	3,821.00	13.39	13.47	-95.10	-222.00	-2,486.00	2,495.89	2,469.04	26.86	92.934	
3,900.00	3,900.00	3,921.00	3,921.00	13.75	13.82	-95.10	-222.00	-2,486.00	2,495.89	2,468.32	27.57	90.517	
4,000.00	4,000.00	4,021.00	4,021.00	14.11	14.18	-95.10	-222.00	-2,486.00	2,495.89	2,467.60	28.29	88.223	
4,100.00	4,100.00	4,121.00	4,121.00	14.47	14.54	-95.10	-222.00	-2,486.00	2,495.89	2,466.89	29.01	86.043	
4,200.00	4,200.00	4,221.00	4,221.00	14.82	14.90	-95.10	-222.00	-2,486.00	2,495.89	2,466.17	29.72	83.968	
4,300.00	4,300.00	4,321.00	4,321.00	15.18	15.25	-95.10	-222.00	-2,486.00	2,495.89	2,465.45	30.44	81.990	
4,400.00	4,400.00	4,421.00	4,421.00	15.54	15.62	-95.10	-222.00	-2,486.00	2,495.89	2,464.73	31.16	80.104	
4,500.00	4,500.00	4,521.00	4,521.00	15.90	15.98	-95.10	-222.00	-2,486.00	2,495.89	2,464.02	31.88	78.302	
4,600.00	4,600.00	4,621.00	4,621.00	16.26	16.33	-95.10	-222.00	-2,486.00	2,495.89	2,463.30	32.59	76.579	
4,700.00	4,700.00	4,721.00	4,721.00	16.62	16.69	-95.10	-222.00	-2,486.00	2,495.89	2,462.58	33.31	74.931	
4,800.00	4,800.00	4,821.00	4,821.00	16.98	17.05	-95.10	-222.00	-2,486.00	2,495.89	2,461.87	34.03	73.352	
4,900.00	4,900.00	4,921.00	4,921.00	17.33	17.41	-95.10	-222.00	-2,486.00	2,495.89	2,461.15	34.74	71.839	
5,000.00	5,000.00	5,021.00	5,021.00	17.69	17.77	-95.10	-222.00	-2,486.00	2,495.89	2,460.43	35.46	70.386	
5,100.00	5,100.00	5,121.00	5,121.00	18.05	18.13	-95.10	-222.00	-2,486.00	2,495.89	2,459.72	36.18	68.991	
5,200.00	5,200.00	5,221.00	5,221.00	18.41	18.48	-95.10	-222.00	-2,486.00	2,495.89	2,459.00	36.89	67.651	
5,300.00	5,300.00	5,321.00	5,321.00	18.77	18.84	-95.10	-222.00	-2,486.00	2,495.89	2,458.28	37.61	66.361	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Biggers Fed Com - 203H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12808-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,400.00	5,400.00	5,421.00	5,421.00	19.13	19.16	-95.10	-222.00	-2,486.00	2,495.89	2,457.60	38.29	65.183		
5,500.00	5,500.00	5,521.00	5,521.00	19.31	19.31	-95.10	-222.00	-2,486.00	2,495.89	2,457.28	38.61	64.637		
5,600.00	5,600.00	5,621.00	5,621.00	19.31	19.32	-95.10	-222.00	-2,486.00	2,495.89	2,457.26	38.63	64.612		
5,700.00	5,700.00	5,721.00	5,721.00	19.33	19.33	-95.10	-222.00	-2,486.00	2,495.89	2,457.24	38.66	64.566		
5,800.00	5,799.99	5,820.99	5,820.99	19.35	19.35	38.26	-222.00	-2,486.00	2,494.86	2,456.17	38.70	64.472		
5,900.00	5,899.91	5,920.91	5,920.91	19.37	19.38	38.34	-222.00	-2,486.00	2,491.78	2,453.03	38.75	64.304		
6,000.00	5,999.69	6,020.69	6,020.69	19.40	19.41	38.48	-222.00	-2,486.00	2,486.65	2,447.84	38.82	64.062		
6,033.33	6,032.91	6,053.91	6,053.91	19.41	19.43	38.54	-222.00	-2,486.00	2,484.49	2,445.65	38.84	63.964		
6,100.00	6,099.32	6,120.32	6,120.32	19.44	19.45	38.63	-222.00	-2,486.00	2,479.94	2,441.05	38.90	63.758		
6,200.00	6,198.94	6,219.94	6,219.94	19.49	19.50	38.75	-222.00	-2,486.00	2,473.13	2,434.14	36.99	63.430		
6,300.00	6,298.56	6,319.56	6,319.56	19.54	19.56	38.88	-222.00	-2,486.00	2,466.33	2,427.23	39.10	63.084		
6,400.00	6,398.18	6,419.18	6,419.18	19.61	19.62	39.01	-222.00	-2,486.00	2,459.54	2,420.32	39.22	62.716		
6,500.00	6,497.80	6,518.80	6,518.80	19.68	19.68	39.13	-222.00	-2,486.00	2,452.76	2,413.41	39.35	62.333		
6,600.00	6,597.42	6,618.42	6,618.42	19.75	19.76	39.26	-222.00	-2,486.00	2,446.00	2,406.50	39.50	61.931		
6,700.00	6,697.04	6,718.04	6,718.04	19.84	19.83	39.39	-222.00	-2,486.00	2,439.25	2,399.59	39.65	61.512		
6,800.00	6,796.66	6,817.66	6,817.66	19.93	19.92	39.52	-222.00	-2,486.00	2,432.51	2,392.68	39.83	61.077		
6,900.00	6,896.28	6,917.28	6,917.28	20.03	20.01	39.65	-222.00	-2,486.00	2,425.78	2,385.77	40.01	60.627		
7,000.00	6,995.90	7,016.90	7,016.90	20.13	20.11	39.78	-222.00	-2,486.00	2,419.06	2,378.86	40.21	60.163		
7,100.00	7,095.52	7,116.52	7,116.52	20.25	20.21	39.92	-222.00	-2,486.00	2,412.36	2,371.94	40.42	59.686		
7,200.00	7,195.14	7,200.00	7,200.00	20.36	20.30	40.03	-222.00	-2,486.00	2,405.73	2,365.11	40.62	59.225		
7,300.00	7,294.76	7,271.43	7,271.43	20.49	20.38	40.12	-222.14	-2,486.65	2,400.07	2,359.25	40.81	58.805		
7,400.00	7,394.38	7,333.03	7,333.00	20.62	20.45	40.20	-222.49	-2,488.26	2,396.04	2,355.04	41.00	58.446		
7,500.00	7,494.00	7,400.00	7,399.91	20.76	20.52	40.28	-223.11	-2,491.12	2,393.62	2,352.43	41.19	58.116		
7,600.00	7,593.62	7,456.43	7,456.24	20.90	20.59	40.34	-223.83	-2,494.41	2,392.79	2,351.42	41.36	57.848		
7,601.52	7,595.13	7,457.37	7,457.17	20.91	20.59	40.34	-223.84	-2,494.47	2,392.79	2,351.42	41.37	57.844		
7,700.00	7,693.24	7,518.17	7,517.80	21.06	20.66	40.41	-224.81	-2,498.94	2,393.56	2,352.01	41.55	57.609		
7,800.00	7,792.85	7,608.69	7,607.98	21.21	20.78	40.50	-226.48	-2,506.62	2,395.49	2,353.69	41.80	57.306		
7,900.00	7,892.47	7,708.58	7,707.49	21.37	20.91	40.60	-228.33	-2,515.13	2,397.47	2,355.38	42.09	56.966		
8,000.00	7,992.09	7,808.47	7,807.00	21.54	21.05	40.70	-230.18	-2,523.64	2,399.45	2,357.07	42.38	56.616		
8,100.00	8,091.71	7,908.36	7,906.51	21.72	21.19	40.80	-232.03	-2,532.14	2,401.45	2,358.76	42.69	56.256		
8,200.00	8,191.33	8,008.25	8,005.02	21.90	21.34	40.90	-233.88	-2,540.65	2,403.45	2,360.44	43.00	55.888		
8,300.00	8,290.95	8,108.14	8,105.53	22.08	21.50	41.00	-235.73	-2,549.16	2,405.46	2,362.13	43.33	55.513		
8,400.00	8,390.57	8,208.03	8,205.04	22.27	21.66	41.10	-237.58	-2,557.67	2,407.47	2,363.80	43.67	55.130		
8,500.00	8,490.19	8,353.57	8,350.08	22.46	21.91	41.25	-240.12	-2,569.37	2,409.23	2,365.11	44.13	54.597		
8,600.00	8,589.81	8,600.00	8,606.67	22.66	22.33	41.56	-242.00	-2,577.99	2,405.99	2,361.20	44.79	53.715		
8,700.00	8,689.43	8,714.12	8,710.43	22.87	22.54	41.71	-242.00	-2,578.00	2,399.47	2,354.28	45.19	53.096		
8,800.00	8,789.05	8,813.74	8,810.05	23.08	22.72	41.85	-242.00	-2,578.00	2,392.96	2,347.38	45.57	52.507		
8,900.00	8,888.67	8,913.36	8,909.67	23.29	22.91	41.99	-242.00	-2,578.00	2,386.46	2,340.49	45.96	51.919		
9,000.00	8,988.29	9,012.98	9,009.29	23.51	23.10	42.13	-242.00	-2,578.00	2,379.98	2,333.61	46.36	51.332		
9,100.00	9,087.91	9,112.59	9,108.91	23.73	23.29	42.27	-242.00	-2,578.00	2,373.51	2,326.74	46.77	50.747		
9,200.00	9,187.53	9,212.21	9,208.53	23.96	23.49	42.41	-242.00	-2,578.00	2,367.06	2,319.87	47.19	50.163		
9,300.00	9,287.15	9,311.83	9,308.15	24.19	23.69	42.55	-242.00	-2,578.00	2,360.62	2,313.01	47.61	49.582		
9,400.00	9,386.77	9,411.45	9,407.77	24.42	23.90	42.69	-242.00	-2,578.00	2,354.19	2,306.15	48.04	49.003		
9,461.82	9,448.35	9,473.04	9,469.35	24.57	24.03	42.78	-242.00	-2,578.00	2,350.23	2,301.92	48.31	48.647		
9,500.00	9,486.40	9,511.09	9,507.40	24.66	24.11	42.81	-242.00	-2,578.00	2,347.92	2,299.44	48.48	48.431		
9,600.00	9,586.19	9,610.98	9,607.19	24.89	24.32	42.87	-242.00	-2,578.00	2,343.21	2,294.29	48.92	47.899		
9,700.00	9,686.12	9,710.81	9,707.12	25.12	24.54	42.90	-242.00	-2,578.00	2,340.43	2,291.07	49.36	47.414		
9,795.16	9,781.26	9,805.95	9,802.26	25.32	24.75	-90.42	-242.00	-2,578.00	2,339.56	2,289.79	49.77	47.003		
9,800.00	9,786.11	9,810.80	9,807.11	25.33	24.76	-90.42	-242.00	-2,578.00	2,339.56	2,289.77	49.80	46.984		
9,900.00	9,886.11	9,910.80	9,907.11	25.54	24.98	-90.42	-242.00	-2,578.00	2,339.56	2,289.34	50.22	46.583		
10,000.00	9,986.11	10,010.80	10,007.11	25.74	25.21	-90.42	-242.00	-2,578.00	2,339.56	2,288.90	50.66	46.183		
10,100.00	10,086.11	10,110.80	10,107.11	25.96	25.44	-90.42	-242.00	-2,578.00	2,339.56	2,288.46	51.10	45.784		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 203H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12808-MWD - OWSG													Offset Well Error: 0.00 usft
Reference													Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore N-S (usft)	Offset Wellbore E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,186.11	10,210.80	10,207.11	26.17	25.67	-90.42	-242.00	-2,578.00	2,339.56	2,288.01	51.55	45.387	
10,300.00	10,286.11	10,310.80	10,307.11	26.39	25.91	-90.42	-242.00	-2,578.00	2,339.56	2,287.56	52.00	44.991	
10,400.00	10,386.11	10,410.80	10,407.11	26.61	26.15	-90.42	-242.00	-2,578.00	2,339.56	2,287.10	52.46	44.597	
10,500.00	10,486.11	10,510.80	10,507.11	26.83	26.39	-90.42	-242.00	-2,578.00	2,339.56	2,286.64	52.93	44.205	
10,600.00	10,586.11	10,610.80	10,607.11	27.05	26.63	-90.42	-242.00	-2,578.00	2,339.56	2,286.17	53.40	43.815	
10,700.00	10,686.11	10,710.80	10,707.11	27.28	26.88	-90.42	-242.00	-2,578.00	2,339.56	2,285.69	53.87	43.428	
10,800.00	10,786.11	10,810.80	10,807.11	27.52	27.13	-90.42	-242.00	-2,578.00	2,339.56	2,285.21	54.35	43.043	
10,900.00	10,886.11	10,910.80	10,907.11	27.75	27.38	-90.42	-242.00	-2,578.00	2,339.56	2,284.72	54.84	42.662	
11,000.00	10,986.11	11,010.80	11,007.11	27.99	27.63	-90.42	-242.00	-2,578.00	2,339.56	2,284.23	55.33	42.283	
11,100.00	11,086.11	11,110.80	11,107.11	28.23	27.89	-90.42	-242.00	-2,578.00	2,339.56	2,283.73	55.83	41.907	
11,200.00	11,186.11	11,210.80	11,207.11	28.47	28.15	-90.42	-242.00	-2,578.00	2,339.56	2,283.23	56.33	41.534	
11,300.00	11,286.11	11,310.80	11,307.11	28.71	28.41	-90.42	-242.00	-2,578.00	2,339.56	2,282.73	56.83	41.164	
11,400.00	11,386.11	11,410.80	11,407.11	28.96	28.67	-90.42	-242.00	-2,578.00	2,339.56	2,282.22	57.35	40.798	
11,500.00	11,486.11	11,510.80	11,507.11	29.21	28.93	-90.42	-242.00	-2,578.00	2,339.56	2,281.70	57.86	40.435	
11,600.00	11,586.11	11,610.80	11,607.11	29.46	29.20	-90.42	-242.00	-2,578.00	2,339.56	2,281.18	58.38	40.076	
11,700.00	11,686.11	11,710.80	11,707.11	29.71	29.47	-90.42	-242.00	-2,578.00	2,339.56	2,280.66	58.90	39.720	
11,800.00	11,786.11	11,810.80	11,807.11	29.97	29.74	-90.42	-242.00	-2,578.00	2,339.56	2,280.13	59.43	39.366	
11,900.00	11,886.11	11,910.80	11,907.11	30.23	30.01	-90.42	-242.00	-2,578.00	2,339.56	2,279.60	59.96	39.019	
12,000.00	11,986.11	12,010.80	12,007.11	30.49	30.29	-90.42	-242.00	-2,578.00	2,339.56	2,279.07	60.49	38.674	
12,013.89	12,000.00	12,024.82	12,021.13	30.52	30.32	-90.41	-241.77	-2,578.00	2,339.56	2,278.99	60.57	38.626	
12,050.00	12,036.08	12,061.16	12,057.40	30.61	30.42	-89.90	-239.60	-2,578.01	2,339.56	2,278.79	60.76	38.504	
12,100.00	12,085.78	12,111.39	12,107.15	30.74	30.56	-89.86	-232.82	-2,578.05	2,339.54	2,278.52	61.02	38.340	
12,150.00	12,134.83	12,161.48	12,155.99	30.85	30.70	-89.83	-221.75	-2,578.11	2,339.50	2,278.23	61.27	38.183	
12,200.00	12,182.85	12,211.45	12,203.56	30.96	30.83	-89.80	-206.50	-2,578.19	2,339.46	2,277.95	61.51	38.033	
12,250.00	12,229.48	12,261.29	12,249.50	31.06	30.95	-89.77	-187.21	-2,578.29	2,339.40	2,277.66	61.74	37.889	
12,300.00	12,274.37	12,311.01	12,293.49	31.16	31.07	-89.74	-164.07	-2,578.41	2,339.33	2,277.36	61.97	37.749	
12,350.00	12,317.16	12,360.61	12,335.21	31.24	31.18	-89.72	-137.28	-2,578.55	2,339.24	2,277.05	62.19	37.612	
12,400.00	12,357.54	12,410.09	12,374.36	31.32	31.30	-89.69	-107.05	-2,578.71	2,339.15	2,276.73	62.42	37.476	
12,450.00	12,395.20	12,459.46	12,410.69	31.38	31.43	-89.67	-73.64	-2,578.88	2,339.05	2,276.40	62.64	37.340	
12,500.00	12,429.85	12,508.72	12,443.93	31.45	31.56	-89.65	-37.31	-2,579.07	2,338.93	2,276.06	62.87	37.200	
12,550.00	12,461.23	12,557.88	12,473.88	31.50	31.71	-89.64	1.66	-2,579.28	2,338.81	2,275.69	63.12	37.056	
12,600.00	12,489.10	12,606.94	12,500.32	31.56	31.86	-89.62	42.97	-2,579.49	2,338.67	2,275.30	63.37	36.905	
12,650.00	12,513.25	12,655.32	12,523.10	31.64	32.02	-89.61	86.31	-2,579.72	2,338.53	2,274.89	63.64	36.746	
12,700.00	12,533.50	12,704.82	12,542.07	31.75	32.19	-89.61	131.36	-2,579.95	2,338.39	2,274.46	63.93	36.578	
12,750.00	12,549.68	12,753.65	12,557.11	31.88	32.36	-89.60	177.80	-2,580.20	2,338.24	2,274.00	64.24	36.400	
12,800.00	12,561.68	12,802.41	12,568.13	32.03	33.27	-89.60	225.28	-2,580.45	2,338.08	2,273.52	64.56	36.213	
12,813.89	12,564.25	12,816.14	12,570.55	37.24	37.28	-89.60	238.80	-2,580.52	2,338.03	2,273.40	64.64	36.171	
12,838.89	12,568.59	12,840.69	12,574.79	37.26	37.30	-89.60	262.98	-2,580.64	2,337.95	2,273.20	64.76	36.104	
12,850.00	12,570.46	12,851.14	12,576.47	37.26	37.30	-89.60	273.29	-2,580.70	2,337.92	2,273.11	64.81	36.073	
12,900.00	12,577.27	12,898.13	12,582.64	37.29	37.33	-89.60	319.87	-2,580.98	2,337.80	2,272.72	65.08	35.922	
12,950.00	12,581.49	12,945.11	12,586.51	37.32	37.35	-89.60	366.69	-2,581.31	2,337.73	2,272.34	65.39	35.751	
12,996.51	12,583.06	12,988.82	12,588.04	37.34	37.38	-89.61	410.36	-2,581.66	2,337.70	2,271.99	65.71	35.575	
13,000.00	12,583.09	13,009.25	12,588.11	37.35	37.39	-89.61	413.11	-2,581.69	2,337.70	2,271.88	65.82	35.519 CC	
13,005.58	12,583.10	13,003.67	12,588.11	37.35	37.39	-89.61	418.69	-2,581.73	2,337.70	2,271.89	65.81	35.524	
13,100.00	12,583.10	13,108.43	12,589.10	37.40	37.44	-89.61	513.10	-2,582.55	2,337.71	2,271.05	66.66	35.069	
13,200.00	12,583.10	13,208.43	12,588.10	37.47	37.50	-89.61	613.10	-2,583.41	2,337.72	2,270.05	67.66	34.551	
13,300.00	12,583.10	13,308.43	12,588.10	37.54	37.57	-89.61	713.10	-2,584.28	2,337.72	2,268.92	68.81	33.975	
13,400.00	12,583.09	13,408.43	12,588.10	37.62	37.64	-89.61	813.09	-2,585.14	2,337.73	2,267.64	70.09	33.353	
13,500.00	12,583.09	13,508.43	12,588.09	37.72	37.73	-89.61	913.09	-2,586.01	2,337.74	2,266.24	71.51	32.693	
13,600.00	12,583.09	13,608.43	12,588.09	37.84	37.88	-89.61	1,013.09	-2,586.87	2,337.75	2,264.71	73.04	32.004	
13,700.00	12,583.09	13,708.43	12,588.09	38.03	38.34	-89.61	1,113.08	-2,587.74	2,337.76	2,263.06	74.70	31.296	
13,800.00	12,583.08	13,808.43	12,588.09	38.35	39.16	-89.61	1,213.08	-2,588.60	2,337.77	2,261.31	76.46	30.574	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 203H - OH - Prelim Plan A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12808-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)					
13,900.00	12,583.08	13,908.43	12,588.08	38.89	40.10	-89.61	1,313.07	-2,589.47	2,337.78	2,259.45	78.33	29.847			
14,000.00	12,583.08	14,008.43	12,588.08	39.64	41.10	-89.61	1,413.07	-2,590.33	2,337.79	2,257.51	80.28	29.119			
14,100.00	12,583.08	14,108.43	12,588.08	40.53	42.14	-89.61	1,513.07	-2,591.20	2,337.80	2,255.47	82.33	28.396			
14,200.00	12,583.07	14,208.43	12,588.08	41.51	43.23	-89.61	1,613.06	-2,592.06	2,337.81	2,253.35	84.46	27.681			
14,300.00	12,583.07	14,308.43	12,588.07	42.54	44.36	-89.61	1,713.06	-2,592.93	2,337.82	2,251.16	86.66	26.978			
14,400.00	12,583.07	14,408.43	12,588.07	43.62	45.52	-89.61	1,813.06	-2,593.79	2,337.83	2,248.90	88.93	26.289			
14,500.00	12,583.07	14,508.43	12,588.07	44.75	46.71	-89.61	1,913.05	-2,594.66	2,337.84	2,246.57	91.26	25.617			
14,600.00	12,583.06	14,608.43	12,588.07	45.91	47.93	-89.61	2,013.05	-2,595.52	2,337.85	2,244.19	93.66	24.962			
14,700.00	12,583.06	14,708.43	12,588.06	47.10	49.17	-89.61	2,113.04	-2,596.39	2,337.85	2,241.75	96.10	24.326			
14,800.00	12,583.06	14,808.43	12,588.06	48.32	50.44	-89.61	2,213.04	-2,597.25	2,337.86	2,239.26	98.60	23.709			
14,900.00	12,583.06	14,908.43	12,588.06	49.57	51.73	-89.61	2,313.04	-2,598.12	2,337.87	2,236.72	101.15	23.113			
15,000.00	12,583.06	14,991.57	12,588.06	50.84	52.82	-89.61	2,413.03	-2,598.98	2,337.88	2,234.36	103.52	22.584			
15,100.00	12,583.05	15,108.43	12,588.05	52.14	54.37	-89.61	2,513.03	-2,599.85	2,337.89	2,231.52	106.37	21.978			
15,200.00	12,583.05	15,208.43	12,588.05	53.45	55.72	-89.61	2,613.03	-2,600.71	2,337.90	2,228.86	109.04	21.440			
15,300.00	12,583.05	15,308.43	12,588.05	54.78	57.08	-89.61	2,713.02	-2,601.57	2,337.91	2,226.16	111.75	20.922			
15,400.00	12,583.05	15,408.43	12,588.05	56.14	58.46	-89.61	2,813.02	-2,602.44	2,337.92	2,223.44	114.48	20.422			
15,500.00	12,583.04	15,508.43	12,588.04	57.50	59.85	-89.61	2,913.01	-2,603.30	2,337.93	2,220.68	117.25	19.940			
15,600.00	12,583.04	15,608.43	12,588.04	58.89	61.28	-89.61	3,013.01	-2,604.17	2,337.94	2,217.90	120.04	19.476			
15,700.00	12,583.04	15,708.43	12,588.04	60.28	62.68	-89.61	3,113.01	-2,605.03	2,337.95	2,215.09	122.86	19.029			
15,800.00	12,583.04	15,808.43	12,588.04	61.69	64.11	-89.61	3,213.00	-2,605.90	2,337.96	2,212.25	125.71	18.586			
15,900.00	12,583.03	15,908.43	12,588.03	63.12	65.55	-89.61	3,313.00	-2,606.76	2,337.97	2,209.39	128.57	18.184			
16,000.00	12,583.03	16,008.43	12,588.03	64.55	67.01	-89.61	3,413.00	-2,607.63	2,337.98	2,206.51	131.46	17.784			
16,100.00	12,583.03	16,108.43	12,588.03	66.00	68.47	-89.61	3,512.99	-2,608.49	2,337.98	2,203.61	134.37	17.399			
16,200.00	12,583.03	16,208.43	12,588.03	67.45	69.94	-89.61	3,612.99	-2,609.36	2,337.99	2,200.70	137.30	17.029			
16,300.00	12,583.02	16,308.43	12,588.02	68.91	71.41	-89.61	3,712.98	-2,610.22	2,338.00	2,197.76	140.24	16.671			
16,400.00	12,583.02	16,408.43	12,588.02	70.39	72.90	-89.61	3,812.98	-2,611.09	2,338.01	2,194.81	143.20	16.327			
16,500.00	12,583.02	16,508.43	12,588.02	71.87	74.39	-89.61	3,912.98	-2,611.95	2,338.02	2,191.84	146.18	15.994			
16,600.00	12,583.02	16,608.43	12,588.02	73.35	75.89	-89.61	4,012.97	-2,612.82	2,338.03	2,188.86	149.17	15.674			
16,700.00	12,583.01	16,708.43	12,588.02	74.85	77.40	-89.61	4,112.97	-2,613.68	2,338.04	2,185.87	152.17	15.364			
16,800.00	12,583.01	16,808.43	12,588.01	76.35	78.91	-89.61	4,212.97	-2,614.55	2,338.05	2,182.86	155.19	15.066			
16,900.00	12,583.01	16,908.43	12,588.01	77.86	80.43	-89.61	4,312.96	-2,615.41	2,338.06	2,179.84	158.22	14.777			
17,000.00	12,583.01	17,008.43	12,588.01	79.36	81.95	-89.61	4,412.96	-2,616.28	2,338.07	2,176.81	161.26	14.499			
17,100.00	12,583.01	17,108.43	12,588.01	80.90	83.49	-89.61	4,512.96	-2,617.14	2,338.08	2,173.77	164.31	14.230			
17,200.00	12,583.00	17,208.43	12,588.00	82.42	85.02	-89.61	4,612.95	-2,618.01	2,338.09	2,170.71	167.37	13.969			
17,309.83	12,583.00	17,301.40	12,588.00	84.10	86.45	-89.61	4,722.78	-2,618.95	2,338.10	2,167.61	170.49	13.714 ES, SF			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 214H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - QWSG, 5500-MWD - QWSG, 12981-MWD - QWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre -N-S (usft)	Offset Wellbore Centre -E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	21.00	21.00	0.00	0.03	-95.84	-251.00	-2,456.00	2,468.79				
100.00	100.00	121.00	121.00	0.13	0.20	-95.84	-251.00	-2,456.00	2,468.79	2,468.46	0.33	7,485.859	
200.00	200.00	221.00	221.00	0.49	0.56	-95.84	-251.00	-2,456.00	2,468.79	2,467.75	1.05	2,358.560	
300.00	300.00	321.00	321.00	0.84	0.92	-95.84	-251.00	-2,456.00	2,468.79	2,467.03	1.76	1,399.796	
400.00	400.00	421.00	421.00	1.20	1.28	-95.84	-251.00	-2,456.00	2,468.79	2,466.31	2.48	995.231	
500.00	500.00	521.00	521.00	1.56	1.64	-95.84	-251.00	-2,456.00	2,468.79	2,465.60	3.20	772.085	
600.00	600.00	621.00	621.00	1.92	1.99	-95.84	-251.00	-2,456.00	2,468.79	2,464.88	3.91	630.677	
700.00	700.00	721.00	721.00	2.28	2.35	-95.84	-251.00	-2,456.00	2,468.79	2,464.16	4.63	533.049	
800.00	800.00	821.00	821.00	2.64	2.71	-95.84	-251.00	-2,456.00	2,468.79	2,463.44	5.35	461.595	
900.00	900.00	921.00	921.00	3.00	3.07	-95.84	-251.00	-2,456.00	2,468.79	2,462.73	6.07	407.033	
1,000.00	1,000.00	1,058.95	1,058.94	3.35	3.56	-95.84	-250.99	-2,455.55	2,468.63	2,461.72	6.91	357.110	
1,100.00	1,100.00	1,338.78	1,338.33	3.71	4.54	-95.87	-250.81	-2,440.99	2,463.44	2,455.22	8.22	299.687	
1,200.00	1,200.00	1,477.56	1,476.40	4.07	5.04	-95.90	-250.63	-2,426.97	2,453.21	2,444.16	9.05	270.984	
1,300.00	1,300.00	1,577.01	1,575.31	4.43	5.40	-95.92	-250.49	-2,416.56	2,442.80	2,433.04	9.76	250.331	
1,400.00	1,400.00	1,676.46	1,674.22	4.79	5.77	-95.94	-250.36	-2,406.18	2,432.39	2,421.92	10.47	232.381	
1,500.00	1,500.00	1,775.91	1,773.12	5.15	6.14	-95.96	-250.23	-2,395.79	2,421.98	2,410.80	11.18	216.691	
1,600.00	1,600.00	1,875.37	1,872.03	5.50	6.51	-95.99	-250.09	-2,385.39	2,411.57	2,399.58	11.89	202.853	
1,700.00	1,700.00	1,974.82	1,970.94	5.86	6.89	-96.01	-249.96	-2,375.00	2,401.16	2,388.56	12.60	190.561	
1,800.00	1,800.00	2,074.27	2,069.85	6.22	7.26	-96.03	-249.83	-2,364.60	2,390.75	2,377.44	13.31	179.571	
1,900.00	1,900.00	2,173.72	2,168.75	6.58	7.64	-96.05	-249.69	-2,354.21	2,380.34	2,366.31	14.03	169.689	
2,000.00	2,000.00	2,273.18	2,267.66	6.94	8.02	-96.08	-249.56	-2,343.81	2,369.93	2,355.19	14.74	160.757	
2,100.00	2,100.00	2,372.63	2,366.57	7.30	8.41	-96.10	-249.42	-2,333.42	2,359.52	2,344.07	15.46	152.645	
2,200.00	2,200.00	2,472.08	2,465.48	7.66	8.79	-96.13	-249.29	-2,323.02	2,349.12	2,332.94	16.17	145.245	
2,300.00	2,300.00	2,571.53	2,564.38	8.01	9.17	-96.15	-249.16	-2,312.63	2,338.71	2,321.82	16.89	138.469	
2,400.00	2,400.00	2,670.98	2,663.29	8.37	9.56	-96.17	-249.02	-2,302.23	2,328.30	2,310.70	17.61	132.241	
2,500.00	2,500.00	2,770.44	2,762.20	8.73	9.94	-96.20	-248.89	-2,291.84	2,317.90	2,299.57	18.32	126.498	
2,600.00	2,600.00	2,869.89	2,861.11	9.09	10.33	-96.22	-248.76	-2,281.44	2,307.49	2,288.45	19.04	121.186	
2,700.00	2,700.00	2,969.34	2,960.01	9.45	10.71	-96.25	-248.62	-2,271.05	2,297.09	2,277.33	19.76	116.257	
2,800.00	2,800.00	3,068.79	3,058.92	9.81	11.10	-96.27	-248.49	-2,260.66	2,286.68	2,266.21	20.48	111.673	
2,900.00	2,900.00	3,168.25	3,157.83	10.16	11.49	-96.30	-248.36	-2,250.26	2,276.28	2,255.08	21.19	107.398	
3,000.00	3,000.00	3,267.70	3,256.74	10.52	11.87	-96.32	-248.22	-2,239.87	2,265.87	2,243.96	21.91	103.402	
3,100.00	3,100.00	3,367.15	3,355.64	10.88	12.26	-96.35	-248.09	-2,229.47	2,255.47	2,232.84	22.63	99.658	
3,200.00	3,200.00	3,466.60	3,454.55	11.24	12.65	-96.38	-247.95	-2,219.08	2,245.07	2,221.72	23.35	96.145	
3,300.00	3,300.00	3,566.05	3,553.46	11.60	13.04	-96.40	-247.82	-2,208.68	2,234.66	2,210.59	24.07	92.841	
3,400.00	3,400.00	3,665.51	3,652.36	11.96	13.43	-96.43	-247.69	-2,198.29	2,224.26	2,199.47	24.79	89.728	
3,500.00	3,500.00	3,764.96	3,751.27	12.32	13.81	-96.46	-247.55	-2,187.89	2,213.86	2,188.35	25.51	86.790	
3,600.00	3,600.00	3,864.41	3,850.18	12.67	14.20	-96.48	-247.42	-2,177.50	2,203.46	2,177.23	26.23	84.012	
3,700.00	3,700.00	3,963.86	3,949.09	13.03	14.59	-96.51	-247.29	-2,167.10	2,193.06	2,166.11	26.95	81.383	
3,800.00	3,800.00	4,063.31	4,047.99	13.39	14.98	-96.54	-247.15	-2,156.71	2,182.66	2,154.99	27.67	78.890	
3,900.00	3,900.00	4,162.77	4,146.90	13.75	15.37	-96.57	-247.02	-2,146.31	2,172.26	2,143.87	28.39	76.523	
4,000.00	4,000.00	4,262.22	4,245.81	14.11	15.76	-96.59	-246.89	-2,135.92	2,161.86	2,132.75	29.11	74.273	
4,100.00	4,100.00	4,361.67	4,344.72	14.47	16.15	-96.62	-246.75	-2,125.52	2,151.46	2,121.63	29.83	72.131	
4,200.00	4,200.00	4,461.12	4,443.62	14.82	16.54	-96.65	-246.62	-2,115.13	2,141.06	2,110.52	30.55	70.090	
4,300.00	4,300.00	4,560.58	4,542.53	15.18	16.93	-96.68	-246.49	-2,104.73	2,130.67	2,099.40	31.27	68.143	
4,400.00	4,400.00	4,660.03	4,641.44	15.54	17.32	-96.71	-246.35	-2,094.34	2,120.27	2,088.28	31.99	66.284	
4,500.00	4,500.00	4,759.48	4,740.35	15.90	17.71	-96.74	-246.22	-2,083.94	2,109.87	2,077.16	32.71	64.505	
4,600.00	4,600.00	4,858.93	4,839.25	16.26	18.10	-96.77	-246.08	-2,073.55	2,099.48	2,066.05	33.43	62.805	
4,700.00	4,700.00	4,958.38	4,938.16	16.62	18.50	-96.80	-245.95	-2,063.16	2,089.08	2,054.93	34.15	61.175	
4,800.00	4,800.00	5,057.84	5,037.07	16.98	18.89	-96.83	-245.82	-2,052.76	2,078.69	2,043.82	34.87	59.613	
4,900.00	4,900.00	5,157.29	5,135.98	17.33	19.28	-96.86	-245.68	-2,042.37	2,068.29	2,032.70	35.59	58.113	
5,000.00	5,000.00	5,256.74	5,234.88	17.69	19.67	-96.89	-245.55	-2,031.97	2,057.90	2,021.59	36.31	56.674	
5,100.00	5,100.00	5,356.19	5,333.79	18.05	20.06	-96.92	-245.42	-2,021.58	2,047.51	2,010.47	37.03	55.290	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Biggers Fed Com - 214H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: O-MWD - OWSG, 5500-MWD - OWSG, 12981-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis			Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)				Between Centres (usft)	Between Ellipses (usft)
5,200.00	5,200.00	5,455.65	5,432.70	18.41	20.35	-96.95	-245.28	-2,011.18	2,037.11	1,999.46	37.65	54.104	
5,300.00	5,300.00	5,555.10	5,531.61	18.77	20.48	-96.99	-245.15	-2,000.79	2,026.72	1,988.63	38.10	53.202	
5,400.00	5,400.00	5,654.55	5,630.51	19.13	20.54	-97.02	-245.02	-1,990.39	2,016.33	1,977.87	38.46	52.422	
5,500.00	5,500.00	5,754.00	5,729.42	19.31	20.61	-97.05	-244.88	-1,980.00	2,005.94	1,967.28	38.66	51.885	
5,600.00	5,600.00	5,853.45	5,828.33	19.31	20.68	-97.08	-244.75	-1,969.60	1,995.55	1,956.86	38.69	51.572	
5,700.00	5,700.00	5,952.91	5,927.23	19.33	20.76	-97.12	-244.61	-1,959.21	1,985.16	1,946.42	38.74	51.243	
5,800.00	5,799.99	6,052.25	6,026.03	19.35	20.85	36.31	-244.48	-1,948.82	1,973.72	1,934.92	38.80	50.870	
5,900.00	5,899.91	6,151.32	6,124.56	19.37	20.94	36.46	-244.35	-1,938.47	1,960.19	1,921.32	38.87	50.429	
6,000.00	5,999.69	6,250.05	6,222.75	19.40	21.05	36.68	-244.22	-1,928.15	1,944.58	1,905.63	38.95	49.919	
6,033.33	6,032.91	6,282.87	6,255.40	19.41	21.08	36.77	-244.17	-1,924.72	1,938.92	1,899.93	38.99	49.734	
6,100.00	6,099.32	6,348.48	6,320.64	19.44	21.15	36.86	-244.08	-1,917.86	1,927.36	1,888.31	39.05	49.354	
6,200.00	6,198.94	6,446.88	6,418.50	19.49	21.27	36.98	-243.95	-1,907.56	1,910.04	1,870.88	39.16	48.773	
6,300.00	6,298.56	6,545.28	6,516.37	19.54	21.39	37.11	-243.82	-1,897.29	1,892.73	1,853.44	39.29	48.179	
6,400.00	6,398.18	6,643.69	6,614.23	19.61	21.51	37.23	-243.69	-1,887.01	1,875.42	1,836.00	39.42	47.574	
6,500.00	6,497.80	6,742.09	6,712.09	19.69	21.65	37.36	-243.55	-1,876.72	1,858.13	1,818.56	39.57	46.957	
6,600.00	6,597.42	6,840.49	6,809.96	19.75	21.79	37.50	-243.42	-1,866.44	1,840.84	1,801.11	39.73	46.331	
6,700.00	6,697.04	6,939.90	6,907.82	19.84	21.93	37.63	-243.29	-1,856.15	1,823.56	1,783.66	39.91	45.695	
6,800.00	6,796.66	7,037.30	7,005.69	19.93	22.08	37.77	-243.16	-1,845.87	1,806.30	1,766.20	40.09	45.051	
6,900.00	6,896.28	7,135.70	7,103.55	20.03	22.24	37.91	-243.03	-1,835.58	1,789.04	1,748.75	40.29	44.399	
7,000.00	6,995.90	7,234.10	7,201.41	20.13	22.40	38.06	-242.89	-1,825.30	1,771.80	1,731.29	40.51	43.741	
7,100.00	7,095.52	7,332.51	7,299.28	20.25	22.57	38.20	-242.76	-1,815.01	1,754.56	1,713.83	40.73	43.078	
7,200.00	7,195.14	7,430.91	7,397.14	20.36	22.74	38.35	-242.63	-1,804.73	1,737.34	1,696.37	40.97	42.409	
7,300.00	7,294.76	7,529.31	7,495.01	20.49	22.92	38.51	-242.50	-1,794.44	1,720.13	1,678.92	41.21	41.737	
7,400.00	7,394.38	7,627.72	7,592.87	20.62	23.11	38.66	-242.36	-1,784.16	1,702.93	1,661.46	41.47	41.062	
7,500.00	7,494.00	7,726.12	7,690.73	20.76	23.29	38.82	-242.23	-1,773.87	1,685.75	1,644.06	41.74	40.385	
7,600.00	7,593.62	7,824.52	7,788.60	20.90	23.49	38.98	-242.10	-1,763.59	1,668.57	1,626.55	42.02	39.706	
7,700.00	7,693.24	7,922.93	7,886.46	21.06	23.69	39.15	-241.97	-1,753.30	1,651.41	1,609.10	42.32	39.026	
7,800.00	7,792.85	8,021.33	7,984.33	21.21	23.89	39.32	-241.84	-1,743.02	1,634.27	1,591.65	42.62	38.347	
7,900.00	7,892.47	8,119.73	8,082.19	21.37	24.10	39.49	-241.70	-1,732.73	1,617.13	1,574.20	42.93	37.668	
8,000.00	7,992.09	8,218.14	8,180.05	21.54	24.31	39.67	-241.57	-1,722.45	1,600.02	1,556.76	43.25	36.991	
8,100.00	8,091.71	8,316.54	8,277.92	21.72	24.53	39.85	-241.44	-1,712.16	1,582.91	1,539.33	43.59	36.316	
8,200.00	8,191.33	8,414.94	8,375.78	21.90	24.75	40.03	-241.31	-1,701.88	1,565.83	1,521.90	43.93	35.643	
8,300.00	8,290.95	8,493.12	8,453.57	22.08	24.92	40.18	-241.21	-1,694.03	1,549.21	1,504.95	44.27	34.998	
8,400.00	8,390.57	8,563.50	8,523.71	22.27	25.07	40.32	-241.13	-1,689.23	1,534.35	1,489.76	44.59	34.407	
8,500.00	8,490.19	8,634.24	8,594.30	22.46	25.22	40.46	-241.07	-1,683.71	1,521.34	1,476.42	44.92	33.868	
8,600.00	8,589.81	8,700.00	8,659.99	22.66	25.35	40.60	-241.03	-1,680.68	1,510.19	1,464.95	45.23	33.386	
8,700.00	8,689.43	8,776.62	8,736.57	22.87	25.49	40.76	-241.01	-1,678.58	1,500.88	1,455.32	45.57	32.939	
8,800.00	8,789.05	8,850.09	8,810.05	23.08	25.62	40.92	-241.00	-1,678.00	1,493.47	1,447.58	45.89	32.547	
8,900.00	8,888.67	8,949.71	8,909.67	23.29	25.78	41.14	-241.00	-1,678.00	1,486.88	1,440.61	46.27	32.135	
9,000.00	8,988.29	9,049.33	9,009.29	23.51	25.95	41.37	-241.00	-1,678.00	1,480.32	1,433.66	46.66	31.725	
9,100.00	9,087.91	9,148.95	9,108.91	23.73	26.12	41.59	-241.00	-1,678.00	1,473.78	1,426.72	47.06	31.316	
9,200.00	9,187.53	9,248.57	9,208.53	23.96	26.29	41.81	-241.00	-1,678.00	1,467.26	1,419.79	47.47	30.909	
9,300.00	9,287.15	9,348.19	9,308.15	24.19	26.47	42.04	-241.00	-1,678.00	1,460.77	1,412.88	47.89	30.505	
9,400.00	9,386.77	9,447.81	9,407.77	24.42	26.66	42.27	-241.00	-1,678.00	1,454.29	1,405.98	48.31	30.103	
9,461.82	9,448.35	9,509.40	9,469.35	24.57	26.77	42.41	-241.00	-1,678.00	1,450.31	1,401.73	48.58	29.856	
9,500.00	9,486.40	9,547.45	9,507.40	24.66	26.84	42.47	-241.00	-1,678.00	1,447.99	1,399.25	48.74	29.707	
9,600.00	9,586.19	9,647.24	9,607.19	24.89	27.03	42.60	-241.00	-1,678.00	1,443.26	1,394.08	49.18	29.349	
9,700.00	9,686.12	9,747.16	9,707.12	25.12	27.23	42.67	-241.00	-1,678.00	1,440.46	1,390.85	49.61	29.035	
9,795.16	9,781.26	9,842.31	9,802.26	25.32	27.41	-90.64	-241.00	-1,678.00	1,439.59	1,389.57	50.02	28.781	
9,800.00	9,786.11	9,847.15	9,807.11	25.33	27.42	-90.64	-241.00	-1,678.00	1,439.59	1,389.55	50.04	28.769	
9,900.00	9,886.11	9,947.15	9,907.11	25.54	27.62	-90.64	-241.00	-1,678.00	1,439.59	1,389.13	50.46	28.529	
10,000.00	9,986.11	10,047.15	10,007.11	25.74	27.83	-90.64	-241.00	-1,678.00	1,439.59	1,388.70	50.89	28.286	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 214H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12981-MWD - OWSG												Offset Well Error:	0.00 usft
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
10,100.00	10,086.11	10,147.15	10,107.11	25.96	28.03	-90.64	-241.00	-1,678.00	1,439.59	1,388.26	51.33	28.048	
10,200.00	10,186.11	10,247.15	10,207.11	26.17	28.24	-90.64	-241.00	-1,678.00	1,439.59	1,387.82	51.77	27.809	
10,300.00	10,286.11	10,347.15	10,307.11	26.39	28.45	-90.64	-241.00	-1,678.00	1,439.59	1,387.37	52.22	27.570	
10,400.00	10,386.11	10,447.15	10,407.11	26.61	28.67	-90.64	-241.00	-1,678.00	1,439.59	1,386.92	52.67	27.333	
10,500.00	10,486.11	10,547.15	10,507.11	26.83	28.89	-90.64	-241.00	-1,678.00	1,439.59	1,386.46	53.13	27.096	
10,600.00	10,586.11	10,647.15	10,607.11	27.05	29.11	-90.64	-241.00	-1,678.00	1,439.59	1,386.00	53.59	26.861	
10,700.00	10,686.11	10,747.15	10,707.11	27.28	29.33	-90.64	-241.00	-1,678.00	1,439.59	1,385.52	54.06	26.627	
10,800.00	10,786.11	10,847.15	10,807.11	27.52	29.56	-90.64	-241.00	-1,678.00	1,439.59	1,385.05	54.54	26.395	
10,900.00	10,886.11	10,947.15	10,907.11	27.75	29.79	-90.64	-241.00	-1,678.00	1,439.59	1,384.57	55.02	26.164	
11,000.00	10,986.11	11,047.15	11,007.11	27.99	30.02	-90.64	-241.00	-1,678.00	1,439.59	1,384.08	55.51	25.935	
11,100.00	11,086.11	11,147.15	11,107.11	28.23	30.25	-90.64	-241.00	-1,678.00	1,439.59	1,383.59	56.00	25.707	
11,200.00	11,186.11	11,247.15	11,207.11	28.47	30.49	-90.64	-241.00	-1,678.00	1,439.59	1,383.09	56.50	25.482	
11,300.00	11,286.11	11,347.15	11,307.11	28.71	30.73	-90.64	-241.00	-1,678.00	1,439.59	1,382.59	57.00	25.258	
11,400.00	11,386.11	11,447.15	11,407.11	28.96	30.97	-90.64	-241.00	-1,678.00	1,439.59	1,382.09	57.50	25.036	
11,500.00	11,486.11	11,547.15	11,507.11	29.21	31.21	-90.64	-241.00	-1,678.00	1,439.59	1,381.58	58.01	24.816	
11,600.00	11,586.11	11,647.15	11,607.11	29.46	31.46	-90.64	-241.00	-1,678.00	1,439.59	1,381.06	58.53	24.598	
11,700.00	11,686.11	11,747.15	11,707.11	29.71	31.71	-90.64	-241.00	-1,678.00	1,439.59	1,380.55	59.04	24.382	
11,800.00	11,786.11	11,847.15	11,807.11	29.97	31.96	-90.64	-241.00	-1,678.00	1,439.59	1,380.02	59.57	24.168	
11,900.00	11,886.11	11,947.15	11,907.11	30.23	32.21	-90.64	-241.00	-1,678.00	1,439.59	1,379.50	60.09	23.956	
12,000.00	11,986.11	12,047.15	12,007.11	30.49	32.46	-90.64	-241.00	-1,678.00	1,439.59	1,378.97	60.62	23.746	
12,013.89	12,000.00	12,061.05	12,021.00	30.52	32.50	-90.64	-241.00	-1,678.00	1,439.59	1,378.89	60.70	23.717 CC	
12,050.00	12,036.08	12,102.87	12,057.08	30.61	32.60	-90.19	-241.00	-1,678.00	1,439.59	1,378.69	60.90	23.637	
12,100.00	12,085.78	12,146.83	12,105.78	30.74	32.72	-90.40	-241.00	-1,678.00	1,439.62	1,378.47	61.15	23.544	
12,150.00	12,134.83	12,196.85	12,155.80	30.85	32.85	-90.76	-240.59	-1,678.00	1,439.71	1,378.32	61.40	23.449	
12,200.00	12,182.85	12,248.61	12,208.37	30.96	32.98	-91.15	-236.28	-1,678.02	1,439.86	1,378.22	61.65	23.357	
12,250.00	12,229.48	12,301.37	12,260.30	31.06	33.11	-91.53	-227.13	-1,678.06	1,440.06	1,378.16	61.89	23.267	
12,300.00	12,274.37	12,355.14	12,312.14	31.16	33.25	-91.91	-212.93	-1,678.12	1,440.29	1,378.15	62.13	23.180	
12,350.00	12,317.16	12,409.95	12,363.38	31.24	33.38	-92.28	-193.52	-1,678.21	1,440.54	1,378.17	62.37	23.095	
12,400.00	12,357.54	12,465.80	12,413.44	31.32	33.51	-92.63	-168.80	-1,678.32	1,440.82	1,378.21	62.61	23.012	
12,450.00	12,395.20	12,522.69	12,461.70	31.38	33.64	-92.96	-138.73	-1,678.45	1,441.11	1,378.25	62.85	22.928	
12,500.00	12,429.85	12,580.59	12,507.52	31.45	33.77	-93.27	-103.37	-1,678.60	1,441.38	1,378.28	63.10	22.843	
12,550.00	12,461.23	12,639.45	12,550.20	31.50	33.89	-93.56	-62.87	-1,678.78	1,441.63	1,378.28	63.36	22.754	
12,600.00	12,489.10	12,699.20	12,589.04	31.56	34.02	-93.81	-17.51	-1,678.98	1,441.85	1,378.22	63.63	22.659	
12,650.00	12,513.25	12,759.75	12,623.37	31.64	34.16	-94.03	32.33	-1,679.19	1,442.02	1,378.09	63.93	22.557	
12,700.00	12,533.50	12,820.99	12,652.55	31.75	34.30	-94.22	86.14	-1,679.43	1,442.12	1,377.97	64.25	22.444	
12,750.00	12,549.68	12,882.77	12,676.00	31.86	34.45	-94.36	143.27	-1,679.68	1,442.15	1,377.54	64.61	22.321	
12,800.00	12,561.68	12,944.95	12,693.25	32.03	34.64	-94.46	202.98	-1,679.94	1,442.10	1,377.11	65.00	22.187	
12,813.89	12,564.25	12,962.28	12,696.90	32.24	34.70	-94.49	219.91	-1,680.01	1,442.07	1,376.97	65.10	22.152	
12,838.89	12,568.59	12,989.82	12,701.82	32.26	37.58	-94.49	247.01	-1,680.13	1,441.98	1,376.73	65.25	22.100	
12,850.00	12,570.46	13,001.00	12,703.76	32.26	39.71	-94.50	258.02	-1,680.18	1,441.94	1,376.63	65.31	22.078	
12,900.00	12,577.27	13,055.44	12,711.63	32.29	39.78	-94.52	311.88	-1,680.45	1,441.80	1,376.20	65.60	21.978	
12,950.00	12,581.49	13,109.90	12,716.41	32.32	39.86	-94.54	366.12	-1,680.81	1,441.72	1,375.78	65.94	21.863	
13,000.00	12,583.09	13,164.36	12,718.10	32.35	39.94	-94.54	420.55	-1,681.24	1,441.69	1,375.36	66.33	21.737	
13,004.57	12,583.10	13,169.33	12,718.10	32.35	39.95	-94.54	425.52	-1,681.29	1,441.68	1,375.32	66.36	21.724	
13,005.58	12,583.10	13,170.14	12,718.11	32.35	39.95	-94.54	426.33	-1,681.29	1,441.68	1,375.32	66.37	21.722	
13,100.00	12,583.10	13,264.56	12,718.10	32.40	40.12	-94.54	520.74	-1,682.12	1,441.70	1,374.53	67.17	21.462	
13,200.00	12,583.10	13,364.56	12,718.10	32.47	40.33	-94.54	620.74	-1,683.00	1,441.72	1,373.56	68.16	21.151	
13,300.00	12,583.10	13,464.56	12,718.10	32.54	40.57	-94.54	720.74	-1,683.87	1,441.74	1,372.45	69.30	20.806	
13,400.00	12,583.09	13,564.56	12,718.10	32.62	40.87	-94.54	820.73	-1,684.75	1,441.76	1,371.20	70.57	20.431	
13,500.00	12,583.09	13,664.56	12,718.09	32.72	41.22	-94.54	920.73	-1,685.62	1,441.78	1,369.82	71.97	20.034	
13,600.00	12,583.09	13,764.56	12,718.09	32.84	41.64	-94.54	1,020.72	-1,686.50	1,441.80	1,368.31	73.49	19.619	
13,700.00	12,583.09	13,864.56	12,718.09	38.03	42.13	-94.54	1,120.72	-1,687.37	1,441.82	1,366.70	75.13	19.192	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Biggers Fed Com - 214H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12981-MWD - OWSG												Offset Well Error:	0.00 usft
Reference -		Offset		Semi Major Axis		Highside Toolface (°)	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)	+E/-W (usft)					
13,800.00	12,583.08	13,964.56	12,718.09	38.35	42.70	-94.54	1,220.72	-1,688.25	1,441.84	1,364.97	76.87	18.756	
13,900.00	12,583.08	14,064.56	12,718.08	38.89	43.36	-94.53	1,320.71	-1,689.12	1,441.86	1,363.14	78.72	18.316	
14,000.00	12,583.08	14,164.56	12,718.08	39.64	44.11	-94.53	1,420.71	-1,690.00	1,441.88	1,361.22	80.66	17.876	
14,100.00	12,583.08	14,264.56	12,718.08	40.53	44.92	-94.53	1,520.70	-1,690.87	1,441.90	1,359.21	82.69	17.438	
14,200.00	12,583.07	14,364.56	12,718.08	41.51	45.81	-94.53	1,620.70	-1,691.75	1,441.92	1,357.12	84.80	17.005	
14,300.00	12,583.07	14,464.56	12,718.07	42.54	46.77	-94.53	1,720.70	-1,692.62	1,441.94	1,354.96	86.98	16.578	
14,400.00	12,583.07	14,564.56	12,718.07	43.62	47.78	-94.53	1,820.69	-1,693.50	1,441.96	1,352.73	89.23	16.160	
14,500.00	12,583.07	14,664.56	12,718.07	44.75	48.84	-94.53	1,920.69	-1,694.37	1,441.98	1,350.43	91.55	15.751	
14,600.00	12,583.06	14,764.56	12,718.07	45.91	49.94	-94.53	2,020.69	-1,695.25	1,442.00	1,348.07	93.93	15.352	
14,700.00	12,583.06	14,864.56	12,718.06	47.10	51.08	-94.53	2,120.68	-1,696.12	1,442.02	1,345.66	96.36	14.965	
14,800.00	12,583.06	14,964.56	12,718.06	48.32	52.26	-94.53	2,220.68	-1,697.00	1,442.04	1,343.20	98.84	14.589	
14,900.00	12,583.06	15,064.56	12,718.06	49.57	53.47	-94.53	2,320.67	-1,697.88	1,442.06	1,340.59	101.37	14.225	
15,000.00	12,583.06	15,164.56	12,718.06	50.84	54.71	-94.53	2,420.67	-1,698.75	1,442.08	1,338.13	103.95	13.873	
15,100.00	12,583.05	15,264.56	12,718.06	52.14	55.97	-94.53	2,520.67	-1,699.63	1,442.10	1,335.54	106.56	13.533	
15,200.00	12,583.05	15,364.56	12,718.05	53.45	57.26	-94.53	2,620.66	-1,700.50	1,442.12	1,332.90	109.22	13.204	
15,300.00	12,583.05	15,464.56	12,718.05	54.78	58.57	-94.53	2,720.66	-1,701.38	1,442.14	1,330.23	111.90	12.887	
15,400.00	12,583.05	15,564.56	12,718.05	56.14	59.90	-94.53	2,820.66	-1,702.25	1,442.16	1,327.53	114.62	12.582	
15,500.00	12,583.04	15,664.56	12,718.05	57.50	61.24	-94.53	2,920.65	-1,703.13	1,442.18	1,324.80	117.38	12.287	
15,600.00	12,583.04	15,764.56	12,718.04	58.89	62.60	-94.53	3,020.65	-1,704.00	1,442.20	1,322.04	120.15	12.003	
15,700.00	12,583.04	15,864.56	12,718.04	60.28	63.98	-94.53	3,120.64	-1,704.88	1,442.22	1,319.26	122.96	11.729	
15,800.00	12,583.04	15,964.56	12,718.04	61.69	65.38	-94.53	3,220.64	-1,705.75	1,442.24	1,316.45	125.79	11.465	
15,900.00	12,583.03	16,064.56	12,718.04	63.12	66.78	-94.53	3,320.64	-1,706.63	1,442.26	1,313.61	128.64	11.211	
16,000.00	12,583.03	16,164.56	12,718.03	64.55	68.20	-94.53	3,420.63	-1,707.50	1,442.28	1,310.76	131.52	10.965	
16,100.00	12,583.03	16,264.56	12,718.03	66.00	69.63	-94.53	3,520.63	-1,708.38	1,442.30	1,307.88	134.41	10.730	
16,200.00	12,583.03	16,364.56	12,718.03	67.45	71.07	-94.53	3,620.62	-1,709.25	1,442.32	1,304.99	137.33	10.503	
16,300.00	12,583.02	16,464.56	12,718.03	68.91	72.52	-94.53	3,720.62	-1,710.13	1,442.34	1,302.08	140.26	10.284	
16,400.00	12,583.02	16,564.56	12,718.02	70.39	73.98	-94.53	3,820.62	-1,711.00	1,442.36	1,299.15	143.20	10.072	
16,500.00	12,583.02	16,664.56	12,718.02	71.87	75.45	-94.53	3,920.61	-1,711.88	1,442.38	1,296.21	146.17	9.868	
16,600.00	12,583.02	16,764.56	12,718.02	73.35	76.92	-94.53	4,020.61	-1,712.76	1,442.40	1,293.25	149.15	9.671	
16,700.00	12,583.01	16,864.56	12,718.02	74.85	78.41	-94.53	4,120.61	-1,713.63	1,442.41	1,290.28	152.14	9.481	
16,800.00	12,583.01	16,964.56	12,718.01	76.35	79.90	-94.53	4,220.60	-1,714.51	1,442.43	1,287.29	155.14	9.298	
16,900.00	12,583.01	17,064.56	12,718.01	77.86	81.39	-94.53	4,320.60	-1,715.38	1,442.45	1,284.30	158.16	9.120	
17,000.00	12,583.01	17,164.56	12,718.01	79.38	82.90	-94.53	4,420.59	-1,716.26	1,442.47	1,281.29	161.19	8.949	
17,100.00	12,583.01	17,264.56	12,718.01	80.90	84.41	-94.53	4,520.59	-1,717.13	1,442.49	1,278.27	164.23	8.784	
17,200.00	12,583.00	17,364.56	12,718.00	82.42	85.92	-94.53	4,620.59	-1,718.01	1,442.51	1,275.24	167.27	8.624	
17,309.83	12,583.00	17,474.39	12,718.00	84.10	87.60	-94.53	4,730.42	-1,718.97	1,442.54	1,271.90	170.63	8.454 ES, SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Biggers Fed Com - 217H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 13004-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 -H-S (usft)	Offset Wellbore Centre -E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	21.00	21.00	0.00	0.03	-95.79	-252.00	-2,486.00	2,498.74				
100.00	100.00	121.00	121.00	0.13	0.20	-95.79	-252.00	-2,486.00	2,498.74	2,498.41	0.33	7,576.664	
200.00	200.00	221.00	221.00	0.49	0.56	-95.79	-252.00	-2,486.00	2,498.74	2,497.69	1.05	2,387.170	
300.00	300.00	321.00	321.00	0.84	0.92	-95.79	-252.00	-2,486.00	2,498.74	2,498.98	1.76	1,416.776	
400.00	400.00	421.00	421.00	1.20	1.28	-95.79	-252.00	-2,486.00	2,498.74	2,496.26	2.48	1,007.303	
500.00	500.00	521.00	521.00	1.56	1.64	-95.79	-252.00	-2,486.00	2,498.74	2,495.54	3.20	781.450	
507.81	507.81	528.81	528.81	1.59	1.66	-95.79	-252.00	-2,486.00	2,498.74	2,495.49	3.25	768.009	CC
600.00	600.00	600.00	600.00	1.92	1.92	-95.79	-252.00	-2,486.00	2,498.83	2,494.99	3.84	650.854	ES
700.00	700.00	673.32	673.31	2.28	2.18	-95.79	-251.99	-2,486.70	2,499.89	2,495.44	4.45	561.219	
800.00	800.00	733.87	733.85	2.64	2.39	-95.78	-251.98	-2,488.35	2,502.59	2,497.57	5.02	498.280	
900.00	900.00	800.00	799.91	3.00	2.62	-95.77	-251.95	-2,491.23	2,506.87	2,501.26	5.61	447.083	
1,000.00	1,000.00	854.75	854.56	3.35	2.81	-95.77	-251.91	-2,494.49	2,512.70	2,506.55	6.15	408.382	
1,100.00	1,100.00	915.02	914.66	3.71	3.02	-95.76	-251.87	-2,498.98	2,520.10	2,513.39	6.72	375.229	
1,200.00	1,200.00	975.12	974.52	4.07	3.24	-95.74	-251.81	-2,504.40	2,529.07	2,521.79	7.28	347.482	
1,300.00	1,300.00	1,035.04	1,034.10	4.43	3.46	-95.73	-251.75	-2,510.75	2,539.59	2,531.76	7.84	323.995	
1,400.00	1,400.00	1,108.74	1,089.91	4.79	3.74	-95.71	-251.68	-2,517.54	2,551.66	2,543.21	8.44	302.178	
1,500.00	1,500.00	1,209.59	1,188.21	5.15	4.12	-95.68	-251.55	-2,530.48	2,564.63	2,555.47	9.16	279.983	
1,600.00	1,600.00	1,289.55	1,266.50	5.50	4.44	-95.65	-251.42	-2,543.42	2,577.61	2,567.81	9.80	262.988	
1,700.00	1,700.00	1,388.70	1,384.80	5.86	4.82	-95.61	-251.29	-2,556.36	2,590.59	2,580.07	10.51	246.377	
1,800.00	1,800.00	1,487.84	1,463.10	6.22	5.22	-95.58	-251.16	-2,569.30	2,603.56	2,592.34	11.23	231.856	
1,900.00	1,900.00	1,586.99	1,581.39	6.58	5.61	-95.55	-251.03	-2,582.24	2,616.54	2,604.60	11.94	219.055	
2,000.00	2,000.00	1,686.13	1,679.69	6.94	6.01	-95.52	-250.90	-2,595.18	2,629.52	2,616.86	12.66	207.684	
2,100.00	2,100.00	1,785.27	1,777.98	7.30	6.41	-95.49	-250.77	-2,608.12	2,642.50	2,629.13	13.38	197.520	
2,200.00	2,200.00	1,884.42	1,876.28	7.66	6.81	-95.46	-250.64	-2,621.06	2,655.48	2,641.39	14.10	188.382	
2,300.00	2,300.00	1,983.56	1,974.58	8.01	7.21	-95.43	-250.51	-2,634.00	2,668.47	2,653.65	14.81	180.123	
2,400.00	2,400.00	2,082.71	2,072.87	8.37	7.62	-95.40	-250.38	-2,646.94	2,681.45	2,665.92	15.53	172.623	
2,500.00	2,500.00	2,181.85	2,171.17	8.73	8.02	-95.37	-250.25	-2,659.88	2,694.43	2,678.18	16.25	165.782	
2,600.00	2,600.00	2,281.00	2,269.47	9.09	8.43	-95.35	-250.12	-2,672.82	2,707.42	2,690.44	16.97	159.519	
2,700.00	2,700.00	2,380.14	2,367.76	9.45	8.83	-95.32	-249.99	-2,685.76	2,720.40	2,702.71	17.69	153.762	
2,800.00	2,800.00	2,479.29	2,466.06	9.81	9.24	-95.29	-249.86	-2,698.70	2,733.39	2,714.97	18.41	148.453	
2,900.00	2,900.00	2,578.43	2,564.36	10.16	9.65	-95.26	-249.73	-2,711.64	2,746.37	2,727.24	19.13	143.542	
3,000.00	3,000.00	2,677.57	2,662.65	10.52	10.05	-95.23	-249.59	-2,724.58	2,759.36	2,739.50	19.85	138.986	
3,100.00	3,100.00	2,776.72	2,760.95	10.88	10.46	-95.21	-249.46	-2,737.52	2,772.34	2,751.77	20.57	134.748	
3,200.00	3,200.00	2,875.86	2,859.24	11.24	10.87	-95.18	-249.33	-2,750.46	2,785.33	2,764.04	21.30	130.796	
3,300.00	3,300.00	2,975.01	2,957.54	11.60	11.28	-95.15	-249.20	-2,763.40	2,798.32	2,776.30	22.02	127.102	
3,400.00	3,400.00	3,074.15	3,055.84	11.96	11.69	-95.13	-249.07	-2,776.34	2,811.31	2,788.57	22.74	123.641	
3,500.00	3,500.00	3,173.30	3,154.13	12.32	12.10	-95.10	-248.94	-2,789.28	2,824.30	2,800.84	23.46	120.393	
3,600.00	3,600.00	3,272.44	3,252.43	12.67	12.51	-95.07	-248.81	-2,802.22	2,837.29	2,813.11	24.18	117.338	
3,700.00	3,700.00	3,371.59	3,350.73	13.03	12.92	-95.05	-248.68	-2,815.16	2,850.28	2,825.38	24.90	114.460	
3,800.00	3,800.00	3,470.73	3,449.02	13.39	13.33	-95.02	-248.55	-2,828.10	2,863.27	2,837.65	25.62	111.743	
3,900.00	3,900.00	3,569.88	3,547.32	13.75	13.74	-95.00	-248.42	-2,841.04	2,876.26	2,849.92	26.35	109.175	
4,000.00	4,000.00	3,669.02	3,645.61	14.11	14.15	-94.97	-248.29	-2,853.98	2,889.25	2,862.19	27.07	106.743	
4,100.00	4,100.00	3,768.16	3,743.91	14.47	14.56	-94.95	-248.16	-2,866.92	2,902.25	2,874.46	27.79	104.438	
4,200.00	4,200.00	3,867.31	3,842.21	14.82	14.97	-94.92	-248.03	-2,879.86	2,915.24	2,886.73	28.51	102.249	
4,300.00	4,300.00	3,966.45	3,940.50	15.18	15.38	-94.90	-247.90	-2,892.80	2,928.23	2,899.00	29.23	100.168	
4,400.00	4,400.00	4,065.60	4,038.80	15.54	15.79	-94.87	-247.77	-2,905.75	2,941.23	2,911.27	29.96	98.167	
4,500.00	4,500.00	4,164.74	4,137.10	15.90	16.20	-94.85	-247.64	-2,918.69	2,954.22	2,923.55	30.68	96.299	
4,600.00	4,600.00	4,263.89	4,235.39	16.26	16.61	-94.83	-247.51	-2,931.63	2,967.22	2,935.82	31.40	94.498	
4,700.00	4,700.00	4,363.03	4,333.69	16.62	17.02	-94.80	-247.38	-2,944.57	2,980.21	2,948.09	32.12	92.778	
4,800.00	4,800.00	4,462.18	4,431.98	16.98	17.43	-94.78	-247.25	-2,957.51	2,993.21	2,960.37	32.84	91.133	
4,900.00	4,900.00	4,561.32	4,530.28	17.33	17.84	-94.76	-247.12	-2,970.45	3,006.21	2,972.64	33.57	89.559	
5,000.00	5,000.00	4,660.46	4,628.58	17.69	18.25	-94.73	-246.99	-2,983.39	3,019.20	2,984.92	34.29	88.051	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Biggers Fed Com - 217H - OH - Prelim Plan A														Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 13004-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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,100.00	4,759.61	4,726.87	18.05	18.66	-94.71	-246.86	-2,996.33	3,032.20	2,997.19	35.01	86.605		
5,200.00	5,200.00	4,858.75	4,825.17	18.41	19.07	-94.69	-246.73	-3,009.27	3,045.20	3,009.47	35.73	85.218		
5,300.00	5,300.00	4,957.90	4,923.47	18.77	19.48	-94.66	-246.59	-3,022.21	3,058.20	3,021.74	36.46	83.885		
5,400.00	5,400.00	5,057.04	5,021.76	19.13	19.90	-94.64	-246.46	-3,035.15	3,071.20	3,034.02	37.18	82.605		
5,500.00	5,500.00	5,156.19	5,120.06	19.31	20.31	-94.62	-246.33	-3,048.09	3,084.20	3,046.47	37.73	81.753		
5,600.00	5,600.00	5,255.33	5,218.36	19.31	20.72	-94.60	-246.20	-3,061.03	3,097.20	3,059.10	38.10	81.291		
5,700.00	5,700.00	5,354.48	5,316.65	19.33	21.13	-94.58	-246.07	-3,073.97	3,110.20	3,071.72	38.48	80.824		
5,800.00	5,799.99	5,453.73	5,415.06	19.35	21.45	-94.56	-245.94	-3,086.92	3,122.19	3,083.42	38.77	80.533		
5,900.00	5,899.91	5,553.17	5,513.64	19.37	21.61	-94.54	-245.81	-3,099.90	3,132.15	3,093.26	38.88	80.550		
6,000.00	5,999.69	5,652.71	5,612.34	19.40	21.70	-94.52	-245.68	-3,112.89	3,140.07	3,101.15	38.93	80.665		
6,033.33	6,032.91	5,685.91	5,645.25	19.41	21.73	-94.51	-245.64	-3,117.23	3,142.27	3,103.32	38.94	80.687		
6,100.00	6,099.32	5,752.30	5,711.07	19.44	21.79	-94.50	-245.55	-3,125.89	3,146.43	3,107.45	38.98	80.710		
6,200.00	6,198.94	5,851.88	5,809.80	19.49	21.90	-94.48	-245.42	-3,138.89	3,152.69	3,113.63	39.06	80.723		
6,300.00	6,298.56	5,951.47	5,908.54	19.54	22.01	-94.46	-245.29	-3,151.89	3,158.96	3,119.81	39.14	80.708		
6,400.00	6,398.18	6,051.06	6,007.27	19.61	22.12	-94.44	-245.16	-3,164.89	3,165.24	3,126.00	39.24	80.665		
6,500.00	6,497.80	6,150.64	6,106.01	19.68	22.25	-94.42	-245.03	-3,177.88	3,171.53	3,132.18	39.35	80.594		
6,600.00	6,597.42	6,250.23	6,204.74	19.75	22.38	-94.40	-244.89	-3,190.88	3,177.84	3,138.37	39.48	80.496		
6,700.00	6,697.04	6,349.82	6,303.48	19.84	22.52	-94.38	-244.76	-3,203.88	3,184.17	3,144.55	39.62	80.371		
6,800.00	6,796.66	6,449.40	6,402.21	19.93	22.66	-94.36	-244.63	-3,216.88	3,190.51	3,150.73	39.77	80.221		
6,900.00	6,896.28	6,548.99	6,500.95	20.03	22.81	-94.34	-244.50	-3,229.88	3,196.86	3,156.92	39.94	80.046		
7,000.00	6,895.90	6,648.58	6,599.68	20.13	22.97	-94.32	-244.37	-3,242.87	3,203.22	3,163.10	40.12	79.847		
7,100.00	7,095.52	6,748.16	6,698.42	20.25	23.14	-94.30	-244.24	-3,255.87	3,209.59	3,169.29	40.31	79.624		
7,200.00	7,195.14	6,847.75	6,797.15	20.36	23.31	-94.28	-244.11	-3,268.87	3,215.98	3,175.47	40.51	79.375		
7,300.00	7,294.76	6,947.34	6,895.89	20.49	23.48	-94.26	-243.98	-3,281.87	3,222.39	3,181.65	40.73	79.112		
7,400.00	7,394.38	7,046.92	6,994.62	20.62	23.67	-94.24	-243.85	-3,294.87	3,228.80	3,187.84	40.96	78.825		
7,500.00	7,494.00	7,146.51	7,093.36	20.76	23.86	-94.22	-243.72	-3,307.86	3,235.23	3,194.03	41.20	78.518		
7,600.00	7,593.62	7,246.10	7,192.09	20.90	24.05	-94.20	-243.58	-3,320.86	3,241.67	3,200.21	41.46	78.192		
7,700.00	7,693.24	7,345.68	7,290.83	21.06	24.25	-94.18	-243.45	-3,333.86	3,248.12	3,206.40	41.72	77.849		
7,800.00	7,792.85	7,445.27	7,389.56	21.21	24.45	-94.16	-243.32	-3,346.86	3,254.59	3,212.59	42.00	77.490		
7,900.00	7,892.47	7,544.86	7,488.30	21.37	24.66	-94.14	-243.19	-3,359.86	3,261.07	3,218.78	42.29	77.114		
8,000.00	7,992.09	7,644.45	7,587.03	21.54	24.88	-94.12	-243.06	-3,372.85	3,267.56	3,224.97	42.59	76.725		
8,100.00	8,091.71	7,744.03	7,685.76	21.72	25.10	-94.10	-242.93	-3,385.85	3,274.06	3,231.16	42.90	76.321		
8,200.00	8,191.33	7,843.62	7,784.50	21.90	25.33	-94.08	-242.80	-3,398.85	3,280.58	3,237.36	43.22	75.905		
8,300.00	8,290.95	7,943.21	7,883.23	22.08	25.56	-94.06	-242.67	-3,411.85	3,287.10	3,243.55	43.55	75.478		
8,400.00	8,390.57	8,042.79	7,981.97	22.27	25.79	-94.04	-242.54	-3,424.85	3,293.64	3,249.75	43.89	75.040		
8,500.00	8,490.19	8,142.38	8,080.70	22.46	26.03	-94.02	-242.40	-3,437.84	3,300.19	3,255.95	44.24	74.592		
8,600.00	8,589.81	8,241.97	8,179.43	22.66	26.28	-94.00	-242.27	-3,450.84	3,306.74	3,262.16	44.60	74.134		
8,700.00	8,689.43	8,341.56	8,278.16	22.87	26.54	-93.98	-242.14	-3,463.84	3,313.30	3,268.37	44.97	73.665		
8,800.00	8,789.05	8,441.15	8,376.89	23.08	26.81	-93.96	-242.00	-3,476.84	3,320.00	3,274.67	45.34	73.187		
8,900.00	8,888.67	8,540.74	8,475.62	23.29	27.08	-93.94	-241.87	-3,489.84	3,326.74	3,281.00	45.71	72.699		
9,000.00	8,988.29	8,640.33	8,574.35	23.51	27.35	-93.92	-241.74	-3,502.84	3,333.54	3,287.30	46.08	72.201		
9,100.00	9,087.91	8,739.92	8,673.08	23.73	27.62	-93.90	-241.61	-3,515.84	3,340.39	3,293.65	46.45	71.693		
9,200.00	9,187.53	8,839.51	8,771.71	23.96	27.90	-93.88	-241.48	-3,528.84	3,347.24	3,300.00	46.82	71.175		
9,300.00	9,287.15	8,939.10	8,870.34	24.19	28.18	-93.86	-241.35	-3,541.84	3,354.09	3,306.35	47.19	70.647		
9,400.00	9,386.77	9,038.69	8,968.97	24.42	28.46	-93.84	-241.22	-3,554.84	3,360.94	3,312.70	47.56	70.109		
9,461.82	9,448.35	9,532.95	9,469.35	24.57	28.51	-93.83	-241.10	-3,567.84	3,367.79	3,319.05	47.93	69.561		
9,500.00	9,486.40	9,570.99	9,507.40	24.66	28.58	-93.82	-241.00	-3,579.84	3,374.59	3,325.25	48.30	69.003		
9,600.00	9,586.19	9,670.78	9,607.19	24.89	28.76	-93.80	-240.87	-3,592.84	3,381.39	3,331.60	48.67	68.435		
9,700.00	9,686.12	9,770.71	9,707.12	25.12	28.94	-93.78	-240.74	-3,605.84	3,388.19	3,338.00	49.04	67.857		
9,795.16	9,781.26	9,865.86	9,802.26	25.32	29.12	-93.76	-240.61	-3,618.84	3,394.94	3,344.35	49.41	67.269		
9,800.00	9,786.11	9,870.70	9,807.11	25.33	29.13	-93.75	-240.60	-3,619.84	3,395.54	3,345.00	49.43	67.243		
9,900.00	9,886.11	9,970.70	9,907.11	25.54	29.32	-93.73	-240.47	-3,632.84	3,402.29	3,351.75	49.80	66.645		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset: TVD Reference: Offset Datum

Offset Design: Biggers Fed Com - 217H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG; 5500-MWD - OWSG; 13004-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)	Offset Wellbore Centre -E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,986.11	10,070.70	10,007.11	25.74	29.51	-90.30	-242.00	-3,478.00	3,239.54	3,188.42	51.12	63.366	
10,100.00	10,086.11	10,170.70	10,107.11	25.96	29.71	-90.30	-242.00	-3,478.00	3,239.54	3,187.99	51.56	62.832	
10,200.00	10,186.11	10,270.70	10,207.11	26.17	29.91	-90.30	-242.00	-3,478.00	3,239.54	3,187.55	52.00	62.300	
10,300.00	10,286.11	10,370.70	10,307.11	26.39	30.11	-90.30	-242.00	-3,478.00	3,239.54	3,187.10	52.45	61.769	
10,400.00	10,386.11	10,470.70	10,407.11	26.61	30.31	-90.30	-242.00	-3,478.00	3,239.54	3,186.65	52.90	61.241	
10,500.00	10,486.11	10,570.70	10,507.11	26.83	30.52	-90.30	-242.00	-3,478.00	3,239.54	3,186.19	53.36	60.715	
10,600.00	10,586.11	10,670.70	10,607.11	27.05	30.73	-90.30	-242.00	-3,478.00	3,239.54	3,185.72	53.82	60.192	
10,700.00	10,686.11	10,770.70	10,707.11	27.28	30.94	-90.30	-242.00	-3,478.00	3,239.54	3,185.25	54.29	59.671	
10,800.00	10,786.11	10,870.70	10,807.11	27.52	31.16	-90.30	-242.00	-3,478.00	3,239.54	3,184.78	54.76	59.154	
10,900.00	10,886.11	10,970.70	10,907.11	27.75	31.38	-90.30	-242.00	-3,478.00	3,239.54	3,184.30	55.24	58.640	
11,000.00	10,986.11	11,070.70	11,007.11	27.99	31.60	-90.30	-242.00	-3,478.00	3,239.54	3,183.81	55.73	58.129	
11,100.00	11,086.11	11,170.70	11,107.11	28.23	31.82	-90.30	-242.00	-3,478.00	3,239.54	3,183.32	56.22	57.622	
11,200.00	11,186.11	11,270.70	11,207.11	28.47	32.05	-90.30	-242.00	-3,478.00	3,239.54	3,182.83	56.72	57.120	
11,300.00	11,286.11	11,370.70	11,307.11	28.71	32.28	-90.30	-242.00	-3,478.00	3,239.54	3,182.33	57.21	56.621	
11,400.00	11,386.11	11,470.70	11,407.11	28.96	32.51	-90.30	-242.00	-3,478.00	3,239.54	3,181.83	57.72	56.126	
11,500.00	11,486.11	11,570.70	11,507.11	29.21	32.74	-90.30	-242.00	-3,478.00	3,239.54	3,181.32	58.23	55.636	
11,600.00	11,586.11	11,670.70	11,607.11	29.46	32.98	-90.30	-242.00	-3,478.00	3,239.54	3,180.80	58.74	55.150	
11,700.00	11,686.11	11,770.70	11,707.11	29.71	33.22	-90.30	-242.00	-3,478.00	3,239.54	3,180.29	59.26	54.668	
11,800.00	11,786.11	11,870.70	11,807.11	29.97	33.45	-90.30	-242.00	-3,478.00	3,239.54	3,179.77	59.78	54.192	
11,900.00	11,886.11	11,970.70	11,907.11	30.23	33.70	-90.30	-242.00	-3,478.00	3,239.54	3,179.24	60.30	53.720	
12,000.00	11,986.11	12,070.70	12,007.11	30.49	33.94	-90.30	-242.00	-3,478.00	3,239.54	3,178.71	60.83	53.252	
12,013.89	12,000.00	12,084.59	12,021.00	30.52	33.97	-90.30	-242.00	-3,478.00	3,239.54	3,178.64	60.91	53.188	
12,050.00	12,036.08	12,120.68	12,057.08	30.61	34.06	-89.82	-242.00	-3,478.00	3,239.54	3,178.44	61.10	53.022	
12,100.00	12,085.78	12,170.38	12,105.78	30.74	34.19	-89.93	-242.00	-3,478.00	3,239.53	3,178.17	61.36	52.800	
12,124.82	12,110.24	12,194.83	12,131.24	30.80	34.25	-90.00	-242.00	-3,478.00	3,239.53	3,178.05	61.48	52.694	
12,150.00	12,134.83	12,220.13	12,156.53	30.85	34.31	-90.09	-241.60	-3,478.00	3,239.53	3,177.92	61.61	52.585	
12,200.00	12,182.85	12,271.24	12,207.45	30.96	34.43	-90.27	-237.40	-3,478.02	3,239.54	3,177.69	61.85	52.376	
12,250.00	12,229.48	12,323.31	12,258.73	31.06	34.56	-90.44	-228.48	-3,478.06	3,239.57	3,177.47	62.09	52.172	
12,300.00	12,274.37	12,376.37	12,309.94	31.16	34.69	-90.62	-214.84	-3,478.12	3,239.60	3,177.27	62.33	51.972	
12,350.00	12,317.16	12,430.46	12,350.59	31.24	34.82	-90.79	-195.72	-3,478.20	3,239.64	3,177.07	62.57	51.775	
12,400.00	12,357.54	12,485.59	12,410.14	31.32	34.95	-90.96	-171.61	-3,478.31	3,239.69	3,176.88	62.81	51.579	
12,450.00	12,395.20	12,541.75	12,458.01	31.38	35.07	-91.12	-142.27	-3,478.44	3,239.73	3,176.68	63.05	51.380	
12,500.00	12,429.85	12,598.94	12,503.55	31.45	35.19	-91.27	-107.73	-3,478.59	3,239.77	3,176.46	63.30	51.177	
12,550.00	12,461.23	12,657.12	12,546.12	31.50	35.32	-91.42	-68.12	-3,478.76	3,239.79	3,176.22	63.57	50.966	
12,600.00	12,489.10	12,716.23	12,585.04	31.56	35.44	-91.55	-23.65	-3,478.95	3,239.80	3,175.95	63.85	50.743	
12,650.00	12,513.25	12,776.21	12,619.63	31.64	35.57	-91.67	25.31	-3,479.17	3,239.78	3,175.64	64.14	50.508	
12,700.00	12,533.50	12,836.94	12,649.25	31.75	35.71	-91.77	78.31	-3,479.40	3,239.74	3,175.28	64.45	50.257	
12,750.00	12,549.68	12,898.32	12,673.31	31.86	35.87	-91.86	134.74	-3,479.64	3,239.66	3,174.86	64.81	49.989	
12,800.00	12,561.68	12,960.20	12,691.33	32.03	36.03	-91.93	193.91	-3,479.90	3,239.55	3,174.37	65.18	49.703	
12,813.89	12,564.25	12,977.46	12,695.20	37.24	36.08	-91.95	210.72	-3,479.98	3,239.51	3,174.24	65.28	49.628	
12,838.89	12,568.59	13,006.61	12,700.65	37.26	37.46	-91.95	239.36	-3,480.10	3,239.42	3,173.99	65.43	49.509	
12,850.00	12,570.46	13,017.72	12,702.58	37.26	39.78	-91.96	250.30	-3,480.15	3,239.38	3,173.88	65.49	49.462	
12,900.00	12,577.27	13,069.20	12,710.44	37.29	41.11	-91.98	301.16	-3,480.40	3,239.23	3,173.45	65.78	49.245	
12,950.00	12,581.49	13,120.92	12,715.59	37.32	41.20	-92.00	352.62	-3,480.72	3,239.14	3,173.04	66.10	49.004	
12,992.24	12,583.01	13,164.64	12,717.76	37.34	41.28	-92.01	396.28	-3,481.05	3,239.12	3,172.71	66.40	48.778	
13,000.00	12,583.09	13,172.68	12,717.94	37.35	41.29	-92.01	404.32	-3,481.12	3,239.12	3,172.65	66.46	48.736	
13,005.58	12,583.10	13,178.46	12,718.03	37.35	41.31	-92.02	410.10	-3,481.16	3,239.12	3,172.61	66.51	48.704	
13,100.00	12,583.10	13,273.29	12,718.10	37.40	41.50	-92.02	504.92	-3,481.99	3,239.14	3,171.83	67.31	48.124	
13,200.00	12,583.10	13,373.29	12,718.10	37.47	41.74	-92.02	604.92	-3,482.87	3,239.16	3,170.86	68.30	47.427	
13,300.00	12,583.10	13,473.29	12,718.10	37.54	42.02	-92.02	704.92	-3,483.75	3,239.18	3,169.75	69.43	46.854	
13,400.00	12,583.09	13,573.29	12,718.10	37.62	42.35	-92.02	804.91	-3,484.63	3,239.20	3,168.50	70.70	45.815	
13,500.00	12,583.09	13,673.29	12,718.09	37.72	42.72	-92.02	904.91	-3,485.50	3,239.23	3,167.12	72.10	44.925	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 217H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 13004-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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,600.00	12,583.09	13,773.29	12,718.09	37.84	43.16	-92.02	1,004.90	-3,486.38	3,239.25	3,165.62	73.63	43.995	
13,700.00	12,583.09	13,873.29	12,718.09	38.03	43.65	-92.02	1,104.90	-3,487.26	3,239.27	3,164.00	75.27	43.037	
13,800.00	12,583.08	13,973.29	12,718.09	38.35	44.21	-92.02	1,204.90	-3,488.13	3,239.29	3,162.28	77.01	42.061	
13,900.00	12,583.08	14,073.29	12,718.09	38.89	44.84	-92.02	1,304.89	-3,489.01	3,239.31	3,160.45	78.86	41.075	
14,000.00	12,583.08	14,173.29	12,718.08	39.64	45.54	-92.02	1,404.89	-3,489.89	3,239.34	3,158.53	80.81	40.088	
14,100.00	12,583.08	14,273.29	12,718.08	40.53	46.31	-92.02	1,504.89	-3,490.77	3,239.36	3,156.52	82.84	39.106	
14,200.00	12,583.07	14,373.29	12,718.08	41.51	47.14	-92.02	1,604.88	-3,491.64	3,239.38	3,154.43	84.95	38.134	
14,300.00	12,583.07	14,473.29	12,718.08	42.54	48.03	-92.02	1,704.88	-3,492.52	3,239.40	3,152.27	87.13	37.177	
14,400.00	12,583.07	14,573.29	12,718.07	43.62	48.99	-92.02	1,804.87	-3,493.40	3,239.42	3,150.03	89.39	36.239	
14,500.00	12,583.07	14,673.29	12,718.07	44.75	49.99	-92.02	1,904.87	-3,494.28	3,239.44	3,147.73	91.71	35.322	
14,600.00	12,583.06	14,773.29	12,718.07	45.91	51.04	-92.02	2,004.87	-3,495.15	3,239.47	3,145.37	94.09	34.429	
14,700.00	12,583.06	14,873.29	12,718.07	47.10	52.13	-92.02	2,104.86	-3,496.03	3,239.49	3,142.96	96.53	33.560	
14,800.00	12,583.06	14,973.29	12,718.06	48.32	53.26	-92.02	2,204.86	-3,496.91	3,239.51	3,140.50	99.01	32.718	
14,900.00	12,583.06	15,073.29	12,718.06	49.57	54.42	-92.02	2,304.85	-3,497.78	3,239.53	3,137.98	101.55	31.901	
15,000.00	12,583.06	15,173.29	12,718.06	50.84	55.62	-92.02	2,404.85	-3,498.66	3,239.55	3,135.43	104.13	31.111	
15,100.00	12,583.05	15,273.29	12,718.06	52.14	56.84	-92.02	2,504.85	-3,499.54	3,239.58	3,132.83	106.75	30.348	
15,200.00	12,583.05	15,373.29	12,718.05	53.45	58.10	-92.02	2,604.84	-3,500.42	3,239.60	3,130.19	109.40	29.611	
15,300.00	12,583.05	15,473.29	12,718.05	54.78	59.37	-92.02	2,704.84	-3,501.29	3,239.62	3,127.52	112.10	28.900	
15,400.00	12,583.05	15,573.29	12,718.05	56.14	60.67	-92.02	2,804.84	-3,502.17	3,239.64	3,124.82	114.82	28.214	
15,500.00	12,583.04	15,673.29	12,718.05	57.50	61.99	-92.02	2,904.83	-3,503.05	3,239.66	3,122.08	117.58	27.553	
15,600.00	12,583.04	15,773.29	12,718.04	58.89	63.32	-92.02	3,004.83	-3,503.93	3,239.68	3,119.32	120.36	26.916	
15,700.00	12,583.04	15,873.29	12,718.04	60.28	64.67	-92.02	3,104.82	-3,504.80	3,239.71	3,116.53	123.17	26.302	
15,800.00	12,583.04	15,973.29	12,718.04	61.69	66.04	-92.02	3,204.82	-3,505.68	3,239.73	3,113.72	126.01	25.710	
15,900.00	12,583.03	16,073.29	12,718.04	63.12	67.43	-92.02	3,304.82	-3,506.56	3,239.75	3,110.88	128.87	25.140	
16,000.00	12,583.03	16,173.29	12,718.03	64.55	68.82	-92.02	3,404.81	-3,507.44	3,239.77	3,108.03	131.75	24.591	
16,100.00	12,583.03	16,273.29	12,718.03	66.00	70.23	-92.02	3,504.81	-3,508.31	3,239.79	3,105.15	134.65	24.062	
16,200.00	12,583.03	16,373.29	12,718.03	67.45	71.65	-92.02	3,604.80	-3,509.19	3,239.82	3,102.25	137.56	23.551	
16,300.00	12,583.02	16,473.29	12,718.03	68.91	73.09	-92.02	3,704.80	-3,510.07	3,239.84	3,099.34	140.50	23.059	
16,400.00	12,583.02	16,573.29	12,718.02	70.39	74.53	-92.02	3,804.80	-3,510.94	3,239.86	3,096.41	143.45	22.585	
16,500.00	12,583.02	16,673.29	12,718.02	71.87	75.98	-92.02	3,904.79	-3,511.82	3,239.88	3,093.46	146.42	22.127	
16,600.00	12,583.02	16,773.29	12,718.02	73.35	77.44	-92.02	4,004.79	-3,512.70	3,239.90	3,090.50	149.41	21.685	
16,700.00	12,583.01	16,873.29	12,718.02	74.85	78.91	-92.02	4,104.79	-3,513.58	3,239.92	3,087.52	152.40	21.259	
16,800.00	12,583.01	16,973.29	12,718.01	76.35	80.39	-92.02	4,204.78	-3,514.45	3,239.95	3,084.53	155.41	20.847	
16,900.00	12,583.01	17,073.29	12,718.01	77.86	81.87	-92.02	4,304.78	-3,515.33	3,239.97	3,081.53	158.43	20.450	
17,000.00	12,583.01	17,173.29	12,718.01	79.38	83.37	-92.02	4,404.77	-3,516.21	3,239.99	3,078.52	161.47	20.066	
17,100.00	12,583.01	17,273.29	12,718.01	80.90	84.86	-92.02	4,504.77	-3,517.09	3,240.01	3,075.50	164.51	19.695	
17,200.00	12,583.00	17,373.29	12,718.00	82.42	86.37	-92.02	4,604.77	-3,517.96	3,240.03	3,072.47	167.57	19.336	
17,309.83	12,583.00	17,483.12	12,718.00	84.10	88.03	-92.02	4,714.60	-3,518.93	3,240.06	3,069.12	170.93	18.955 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
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 021H - 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		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)
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-60.00	60.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-60.00	60.00	59.75	0.25	235.742	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-60.00	60.00	59.03	0.97	61.763	
300.00	300.00	300.00	300.00	0.84	0.84	-90.00	0.00	-60.00	60.00	58.31	1.69	35.537	
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-60.00	60.00	57.59	2.41	24.944	
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-60.00	60.00	56.88	3.12	19.217	
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-60.00	60.00	56.16	3.84	15.628	
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-60.00	60.00	55.44	4.56	13.169	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-60.00	60.00	54.73	5.27	11.378 CC, ES	
900.00	900.00	898.49	898.48	3.00	2.98	-90.33	-0.35	-61.22	61.24	53.27	5.97	10.253	
1,000.00	1,000.00	996.85	996.76	3.35	3.31	-91.23	-1.39	-64.88	64.97	58.31	6.66	9.753	
1,100.00	1,100.00	1,094.95	1,094.65	3.71	3.66	-92.52	-3.12	-70.95	71.22	63.87	7.35	9.689 SF	
1,200.00	1,200.00	1,192.66	1,191.97	4.07	4.00	-93.98	-5.53	-79.39	79.99	71.95	8.03	9.955	
1,300.00	1,300.00	1,290.40	1,289.06	4.43	4.36	-95.45	-8.60	-90.16	91.23	82.51	8.72	10.461	
1,400.00	1,400.00	1,389.66	1,387.58	4.79	4.73	-96.68	-11.91	-101.80	103.24	93.81	9.43	10.952	
1,500.00	1,500.00	1,488.91	1,486.09	5.15	5.10	-97.65	-15.23	-113.43	115.29	105.15	10.13	11.377	
1,600.00	1,600.00	1,588.16	1,584.61	5.50	5.48	-98.43	-18.54	-125.06	127.36	116.52	10.84	11.746	
1,700.00	1,700.00	1,687.42	1,683.12	5.86	5.87	-99.09	-21.86	-136.69	139.46	127.90	11.55	12.069	
1,800.00	1,800.00	1,786.57	1,781.64	6.22	6.25	-99.63	-25.18	-148.33	151.56	139.30	12.27	12.355	
1,900.00	1,900.00	1,885.93	1,880.15	6.58	6.64	-100.10	-28.49	-159.96	163.68	150.70	12.98	12.610	
2,000.00	2,000.00	1,985.18	1,978.67	6.94	7.03	-100.50	-31.81	-171.59	175.81	162.12	13.70	12.838	
2,100.00	2,100.00	2,084.44	2,077.18	7.30	7.43	-100.85	-35.12	-183.22	187.95	173.54	14.41	13.043	
2,200.00	2,200.00	2,183.69	2,175.70	7.66	7.82	-101.16	-38.44	-194.86	200.09	184.97	15.13	13.228	
2,300.00	2,300.00	2,282.95	2,274.21	8.01	8.22	-101.43	-41.75	-206.49	212.24	196.40	15.84	13.397	
2,400.00	2,400.00	2,382.20	2,372.73	8.37	8.61	-101.67	-45.07	-218.12	224.39	207.83	16.56	13.551	
2,500.00	2,500.00	2,481.46	2,471.24	8.73	9.01	-101.89	-48.39	-229.76	236.55	219.27	17.28	13.691	
2,600.00	2,600.00	2,580.71	2,569.76	9.09	9.41	-102.09	-51.70	-241.39	248.71	230.71	18.00	13.821	
2,700.00	2,700.00	2,679.97	2,668.27	9.45	9.81	-102.27	-55.02	-253.02	260.87	242.16	18.71	13.940	
2,800.00	2,800.00	2,779.22	2,766.79	9.81	10.20	-102.43	-58.33	-264.65	273.03	253.60	19.43	14.051	
2,900.00	2,900.00	2,878.47	2,865.30	10.16	10.60	-102.58	-61.65	-276.29	285.20	265.05	20.15	14.153	
3,000.00	3,000.00	2,977.73	2,963.62	10.52	11.00	-102.72	-64.97	-287.92	297.37	276.50	20.87	14.249	
3,100.00	3,100.00	3,076.98	3,062.33	10.88	11.41	-102.84	-68.28	-299.55	309.54	287.95	21.59	14.338	
3,200.00	3,200.00	3,176.24	3,160.85	11.24	11.81	-102.96	-71.60	-311.19	321.71	299.40	22.31	14.421	
3,300.00	3,300.00	3,275.49	3,259.36	11.60	12.21	-103.06	-74.91	-322.82	333.86	310.85	23.03	14.499	
3,400.00	3,400.00	3,374.75	3,357.87	11.96	12.61	-103.16	-78.23	-334.45	346.05	322.30	23.75	14.572	
3,500.00	3,500.00	3,474.00	3,456.39	12.32	13.01	-103.26	-81.54	-346.06	358.23	333.76	24.47	14.641	
3,600.00	3,600.00	3,573.26	3,554.90	12.67	13.41	-103.35	-84.86	-357.72	370.40	345.21	25.19	14.705	
3,700.00	3,700.00	3,672.51	3,653.42	13.03	13.82	-103.43	-88.18	-369.35	382.57	356.67	25.91	14.767	
3,800.00	3,800.00	3,771.77	3,751.93	13.39	14.22	-103.50	-91.49	-380.98	394.78	368.12	26.63	14.824	
3,900.00	3,900.00	3,871.02	3,850.45	13.75	14.62	-103.58	-94.81	-392.61	406.93	379.58	27.35	14.879	
4,000.00	4,000.00	3,970.28	3,948.96	14.11	15.03	-103.64	-98.12	-404.25	419.10	391.04	28.07	14.931	
4,100.00	4,100.00	4,069.53	4,047.48	14.47	15.43	-103.71	-101.44	-415.88	431.28	402.49	28.79	14.980	
4,200.00	4,200.00	4,168.78	4,145.99	14.82	15.83	-103.77	-104.75	-427.51	443.46	413.95	29.51	15.027	
4,300.00	4,300.00	4,268.04	4,244.51	15.18	16.24	-103.83	-108.07	-439.15	455.64	425.41	30.23	15.072	
4,400.00	4,400.00	4,367.29	4,343.02	15.54	16.64	-103.88	-111.39	-450.78	467.82	436.87	30.95	15.114	
4,500.00	4,500.00	4,466.55	4,441.54	15.90	17.05	-103.93	-114.70	-462.41	480.00	448.32	31.67	15.155	
4,600.00	4,600.00	4,565.80	4,540.05	16.26	17.45	-103.98	-118.02	-474.04	492.18	459.78	32.39	15.193	
4,700.00	4,700.00	4,665.06	4,638.57	16.62	17.85	-104.03	-121.33	-485.68	504.36	471.24	33.12	15.230	
4,800.00	4,800.00	4,764.31	4,737.08	16.98	18.26	-104.07	-124.65	-497.31	516.54	482.70	33.84	15.266	
4,900.00	4,900.00	4,863.57	4,835.60	17.33	18.66	-104.11	-127.96	-508.94	528.72	494.16	34.56	15.299	
5,000.00	5,000.00	4,962.82	4,934.11	17.69	19.07	-104.15	-131.28	-520.58	540.90	505.62	35.28	15.332	
5,100.00	5,100.00	5,062.08	5,032.63	18.05	19.47	-104.19	-134.60	-532.21	553.08	517.08	36.00	15.363	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Leslie Fed Com - 021H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,200.00	5,161.33	5,131.14	18.41	19.88	-104.23	-137.91	-543.84	565.26	528.54	36.72	15.393	
5,300.00	5,300.00	5,260.59	5,229.66	18.77	20.28	-104.27	-141.23	-555.47	577.45	540.00	37.44	15.422	
5,400.00	5,400.00	5,359.84	5,328.17	19.13	20.69	-104.30	-144.54	-567.11	589.63	551.46	38.17	15.449	
5,500.00	5,500.00	5,459.10	5,426.69	19.31	21.09	-104.33	-147.86	-578.74	601.81	563.10	38.71	15.546	
5,600.00	5,600.00	5,558.35	5,525.20	19.31	21.50	-104.36	-151.17	-590.37	613.99	574.91	39.08	15.710	
5,700.00	5,700.00	5,657.60	5,623.71	19.33	21.90	-104.39	-154.49	-602.00	626.18	586.71	39.46	15.857	
5,800.00	5,799.99	5,756.99	5,722.36	19.35	22.31	28.89	-157.81	-613.65	637.22	597.37	39.85	15.991	
5,900.00	5,899.91	5,856.59	5,821.22	19.37	22.71	28.96	-161.14	-625.33	645.99	605.74	40.24	16.053	
6,000.00	5,999.69	5,956.34	5,920.22	19.40	23.12	29.16	-164.47	-637.02	652.48	611.83	40.64	16.054	
6,033.33	6,032.91	5,989.61	5,953.24	19.41	23.26	29.26	-165.58	-640.92	654.14	613.36	40.78	16.042	
6,100.00	6,099.32	6,056.15	6,019.29	19.44	23.53	29.48	-167.80	-648.71	657.21	616.16	41.05	16.010	
6,200.00	6,198.94	6,155.97	6,118.37	19.49	23.94	29.81	-171.14	-660.41	661.83	620.37	41.47	15.961	
6,300.00	6,298.56	6,255.79	6,217.44	19.54	24.34	30.14	-174.47	-672.11	666.48	624.60	41.89	15.911	
6,400.00	6,398.18	6,355.61	6,316.52	19.61	24.75	30.46	-177.81	-683.81	671.15	628.84	42.32	15.860	
6,500.00	6,497.80	6,455.43	6,415.59	19.68	25.16	30.78	-181.14	-695.51	675.85	633.09	42.76	15.807	
6,600.00	6,597.42	6,555.25	6,514.67	19.75	25.57	31.10	-184.48	-707.21	680.56	637.36	43.20	15.754	
6,700.00	6,697.04	6,655.07	6,613.75	19.84	25.97	31.41	-187.81	-718.91	685.29	641.64	43.65	15.700	
6,800.00	6,796.66	6,754.89	6,712.82	19.93	26.38	31.71	-191.15	-730.61	690.04	645.94	44.11	15.644	
6,900.00	6,896.28	6,854.71	6,811.90	20.03	26.79	32.01	-194.48	-742.31	694.81	650.24	44.57	15.588	
7,000.00	6,895.90	6,854.53	6,810.97	20.13	27.20	32.31	-197.82	-754.01	699.61	654.56	45.04	15.531	
7,100.00	7,095.52	7,054.35	7,010.05	20.25	27.61	32.60	-201.15	-765.70	704.41	658.89	45.52	15.474	
7,200.00	7,195.14	7,154.17	7,109.12	20.36	28.01	32.89	-204.49	-777.40	709.24	663.23	46.01	15.416	
7,300.00	7,294.76	7,253.99	7,208.20	20.49	28.42	33.18	-207.82	-789.10	714.09	667.59	46.50	15.357	
7,400.00	7,394.38	7,353.81	7,307.28	20.62	28.83	33.46	-211.15	-800.80	718.95	671.95	47.00	15.298	
7,500.00	7,494.00	7,453.63	7,406.35	20.76	29.24	33.74	-214.49	-812.50	723.83	676.33	47.50	15.239	
7,600.00	7,593.62	7,553.45	7,505.43	20.90	29.65	34.01	-217.82	-824.20	728.73	680.72	48.01	15.179	
7,700.00	7,693.24	7,653.27	7,604.50	21.06	30.05	34.28	-221.16	-835.90	733.64	685.11	48.53	15.118	
7,800.00	7,792.85	7,753.09	7,703.58	21.21	30.46	34.55	-224.49	-847.60	738.57	689.52	49.05	15.058	
7,900.00	7,892.47	7,852.91	7,802.65	21.37	30.87	34.81	-227.83	-859.30	743.51	693.94	49.58	14.998	
8,000.00	7,992.09	7,952.73	7,901.73	21.54	31.28	35.07	-231.16	-871.00	748.47	698.36	50.11	14.937	
8,100.00	8,091.71	8,069.25	8,017.50	21.72	31.75	35.38	-234.49	-883.74	752.68	701.94	50.74	14.834	
8,200.00	8,191.33	8,169.41	8,141.21	21.90	32.22	35.75	-237.83	-895.49	757.85	706.47	51.38	14.771	
8,300.00	8,290.95	8,268.48	8,265.11	22.08	32.67	36.16	-239.37	-899.78	751.83	699.84	51.99	14.461	
8,400.00	8,390.57	8,441.20	8,388.81	22.27	33.08	36.62	-240.00	-901.99	746.64	694.09	52.55	14.209	
8,500.00	8,490.19	8,542.58	8,490.19	22.46	33.39	37.03	-240.00	-902.00	739.66	686.59	53.07	13.937	
8,600.00	8,589.81	8,642.20	8,589.81	22.66	33.69	37.44	-240.00	-902.00	732.72	679.12	53.60	13.671	
8,700.00	8,689.43	8,753.37	8,700.35	22.87	34.02	38.71	-229.85	-902.04	725.02	670.88	54.13	13.393	
8,800.00	8,789.05	8,855.09	8,798.05	23.08	34.28	41.35	-202.05	-902.17	716.75	662.05	54.70	13.103	
8,900.00	8,888.67	8,942.81	8,877.24	23.29	34.46	44.75	-164.52	-902.33	710.31	655.02	55.30	12.846	
8,981.43	8,969.79	9,003.44	8,928.20	23.47	34.57	47.65	-131.72	-902.47	708.33	652.59	55.74	12.707	
9,000.00	8,988.29	9,015.98	8,938.29	23.51	34.59	48.30	-124.27	-902.50	708.45	652.62	55.83	12.689	
9,100.00	9,087.91	9,076.11	8,984.28	23.73	34.67	51.65	-85.59	-902.67	713.53	657.37	56.16	12.705	
9,200.00	9,187.53	9,125.37	9,018.78	23.96	34.72	54.62	-50.44	-902.83	727.20	671.03	56.17	12.946	
9,300.00	9,287.15	9,165.92	9,044.82	24.19	34.76	57.18	-19.37	-902.96	750.29	694.48	55.81	13.444	
9,400.00	9,386.77	9,200.00	9,064.97	24.42	34.79	59.39	8.11	-903.08	782.85	727.73	55.11	14.204	
9,461.82	9,448.35	9,217.54	9,074.69	24.57	34.80	60.54	22.70	-903.15	807.50	752.97	54.54	14.806	
9,500.00	9,486.40	9,227.79	9,080.16	24.66	34.80	61.47	31.37	-903.18	824.44	770.29	54.15	15.225	
9,600.00	9,586.19	9,250.00	9,091.49	24.89	34.82	63.71	50.48	-903.27	874.93	821.90	53.03	16.500	
9,700.00	9,686.12	9,274.11	9,102.93	25.12	34.83	66.26	71.70	-903.36	933.19	881.25	51.94	17.968	
9,795.16	9,781.26	9,300.00	9,114.21	25.32	34.84	-64.30	95.00	-903.46	994.76	943.74	51.01	19.501	
9,800.00	9,786.11	9,300.00	9,114.21	25.33	34.84	-64.30	95.00	-903.46	998.01	947.06	50.95	19.589	
9,900.00	9,886.11	9,300.00	9,114.21	25.54	34.84	-64.30	95.00	-903.46	1,067.90	1,018.19	49.70	21.486	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 021H - 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		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,986.11	9,326.09	9,124.50	25.74	34.86	-62.85	118.98	-903.57	1,141.49	1,092.56	48.93	23.328	
10,100.00	10,086.11	9,350.00	9,132.96	25.96	34.87	-61.16	141.33	-903.66	1,218.65	1,170.38	48.28	25.244	
10,200.00	10,186.11	9,350.00	9,132.96	26.17	34.87	-61.16	141.33	-903.66	1,298.37	1,250.92	47.44	27.367	
10,300.00	10,286.11	9,350.00	9,132.96	26.39	34.87	-61.16	141.33	-903.66	1,380.72	1,333.98	46.74	29.539	
10,400.00	10,386.11	9,371.70	9,139.83	26.61	34.88	-59.82	161.91	-903.75	1,464.74	1,418.35	46.39	31.573	
10,500.00	10,486.11	9,380.36	9,142.36	26.83	34.89	-59.29	170.20	-903.79	1,550.63	1,504.64	45.99	33.715	
10,600.00	10,586.11	9,400.00	9,147.61	27.05	34.90	-58.10	189.12	-903.87	1,638.14	1,592.36	45.78	35.786	
10,700.00	10,686.11	9,400.00	9,147.61	27.28	34.90	-58.10	189.12	-903.87	1,726.61	1,681.15	45.46	37.982	
10,800.00	10,786.11	9,400.00	9,147.61	27.52	34.90	-58.10	189.12	-903.87	1,816.29	1,771.07	45.22	40.168	
10,900.00	10,886.11	9,400.00	9,147.61	27.75	34.90	-58.10	189.12	-903.87	1,906.98	1,861.94	45.04	42.339	
11,000.00	10,986.11	9,400.00	9,147.61	27.99	34.90	-58.10	189.12	-903.87	1,998.57	1,953.65	44.92	44.489	
11,100.00	11,086.11	9,418.60	9,151.99	28.23	34.91	-57.00	207.20	-903.95	2,090.55	2,045.56	44.99	46.472	
11,200.00	11,186.11	9,423.34	9,153.01	28.47	34.92	-56.72	211.83	-903.97	2,183.38	2,138.40	44.99	48.532	
11,300.00	11,286.11	9,427.75	9,153.92	28.71	34.92	-56.46	216.14	-903.99	2,276.77	2,231.75	45.03	50.566	
11,400.00	11,386.11	9,445.39	9,157.25	28.96	34.94	-55.44	233.46	-904.07	2,370.86	2,325.66	45.18	52.480	
11,500.00	11,486.11	9,445.39	9,157.25	29.21	34.94	-55.44	233.46	-904.07	2,465.10	2,419.85	45.25	54.480	
11,600.00	11,586.11	9,445.39	9,157.25	29.46	34.94	-55.44	233.46	-904.07	2,559.78	2,514.44	45.35	56.448	
11,700.00	11,686.11	9,445.39	9,157.25	29.71	34.94	-55.44	233.46	-904.07	2,654.86	2,609.38	45.47	58.383	
11,800.00	11,786.11	9,447.53	9,157.63	29.97	34.94	-55.32	235.57	-904.08	2,750.28	2,704.65	45.63	60.269	
11,900.00	11,886.11	9,464.90	9,160.64	30.23	34.96	-54.34	252.67	-904.15	2,845.95	2,800.06	45.89	62.016	
12,000.00	11,986.11	9,470.39	9,161.59	30.49	34.96	-54.03	258.08	-904.17	2,941.83	2,895.73	46.10	63.810	
12,013.89	12,000.00	9,470.39	9,161.59	30.52	34.96	-54.03	258.08	-904.17	2,955.17	2,909.04	46.13	64.062	
12,050.00	12,036.08	9,470.39	9,161.59	30.61	34.96	-44.73	258.08	-904.17	2,989.66	2,943.46	46.20	64.715	
12,100.00	12,085.78	9,470.39	9,161.59	30.74	34.96	-35.88	258.08	-904.17	3,036.63	2,990.34	46.28	65.612	
12,150.00	12,134.83	9,483.24	9,163.74	30.85	34.98	-29.46	270.75	-904.23	3,082.28	3,035.87	46.42	66.405	
12,200.00	12,182.95	9,488.32	9,164.54	30.96	34.98	-25.06	275.77	-904.25	3,126.46	3,079.96	46.50	67.232	
12,250.00	12,229.48	9,500.00	9,166.28	31.06	35.00	-21.75	297.32	-904.31	3,168.84	3,122.23	46.61	67.989	
12,300.00	12,274.37	9,500.00	9,166.28	31.16	35.00	-19.37	287.32	-904.31	3,209.11	3,162.45	46.65	68.788	
12,350.00	12,317.16	9,500.00	9,166.28	31.24	35.00	-17.52	287.32	-904.31	3,247.11	3,200.42	46.68	69.547	
12,400.00	12,357.54	9,500.00	9,166.28	31.32	35.00	-16.05	287.32	-904.31	3,282.66	3,235.93	46.72	70.261	
12,450.00	12,395.20	9,524.47	9,169.47	31.38	35.03	-14.80	311.58	-904.44	3,315.15	3,268.31	46.84	70.770	
12,500.00	12,429.85	9,550.00	9,172.14	31.45	35.08	-13.81	336.97	-904.58	3,345.07	3,298.11	46.96	71.231	
12,550.00	12,461.23	9,550.00	9,172.14	31.50	35.08	-13.08	336.97	-904.58	3,371.55	3,324.58	46.98	71.769	
12,600.00	12,489.10	9,550.00	9,172.14	31.56	35.08	-12.49	336.97	-904.58	3,394.91	3,347.92	47.00	72.237	
12,650.00	12,513.25	9,550.00	9,172.14	31.64	35.08	-12.03	336.97	-904.58	3,415.04	3,368.02	47.02	72.630	
12,700.00	12,533.50	9,573.12	9,173.96	31.75	35.12	-11.64	360.01	-904.73	3,431.48	3,384.35	47.12	72.822	
12,750.00	12,549.68	9,600.00	9,175.39	31.88	35.18	-11.34	386.85	-904.91	3,444.63	3,397.40	47.24	72.925	
12,800.00	12,561.66	9,600.00	9,175.39	32.03	35.18	-11.16	386.85	-904.91	3,453.83	3,406.56	47.27	73.060	
12,813.89	12,564.25	9,600.00	9,175.39	37.24	35.18	-11.12	386.85	-904.91	3,455.76	3,409.34	46.42	74.443	
12,838.89	12,566.59	9,600.00	9,175.39	37.26	35.18	-11.12	386.85	-904.91	3,459.08	3,412.70	46.39	74.570	
12,850.00	12,570.46	9,600.00	9,175.39	37.26	35.18	-11.11	386.85	-904.91	3,460.55	3,414.18	46.37	74.623	
12,900.00	12,577.27	9,616.20	9,175.88	37.29	35.22	-11.04	403.05	-905.03	3,465.87	3,419.48	46.39	74.716	
12,950.00	12,581.49	9,637.11	9,176.11	37.32	35.28	-11.00	423.95	-905.19	3,469.27	3,422.84	46.43	74.720	
13,000.00	12,583.09	9,641.22	9,176.10	37.35	35.29	-10.98	428.05	-905.22	3,470.53	3,424.10	46.43	74.752	
13,005.58	12,583.10	9,646.80	9,176.10	37.35	35.31	-10.98	433.64	-905.26	3,470.55	3,424.10	46.45	74.722	
13,100.00	12,583.10	9,741.22	9,176.10	37.40	35.63	-10.98	528.05	-906.00	3,470.53	3,423.75	46.79	74.176	
13,200.00	12,583.10	9,841.22	9,176.10	37.47	36.08	-10.98	628.05	-906.79	3,470.52	3,423.32	47.20	73.526	
13,300.00	12,583.10	9,941.22	9,176.10	37.54	36.61	-10.98	728.05	-907.57	3,470.51	3,422.84	47.67	72.906	
13,400.00	12,583.09	10,041.22	9,176.10	37.62	37.22	-10.98	828.05	-908.35	3,470.49	3,422.31	48.19	72.021	
13,500.00	12,583.09	10,141.22	9,176.09	37.72	37.90	-10.98	928.05	-909.14	3,470.48	3,421.72	48.76	71.179	
13,600.00	12,583.09	10,241.22	9,176.09	37.84	38.64	-10.97	1,028.04	-909.92	3,470.47	3,421.09	49.38	70.287	
13,700.00	12,583.09	10,341.22	9,176.09	38.03	39.44	-10.97	1,128.04	-910.70	3,470.45	3,420.41	50.04	69.353	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 021H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,583.08	10,441.22	9,176.09	38.35	40.29	-10.97	1,228.04	-911.49	3,470.44	3,419.69	50.75	68.383	
13,900.00	12,583.08	10,541.22	9,176.08	38.89	41.19	-10.97	1,328.03	-912.27	3,470.42	3,418.92	51.50	67.384	
14,000.00	12,583.08	10,641.22	9,176.08	39.64	42.14	-10.97	1,428.03	-913.06	3,470.41	3,418.12	52.30	66.361	
14,100.00	12,583.08	10,741.22	9,176.08	40.53	43.13	-10.97	1,528.03	-913.84	3,470.40	3,417.27	53.13	65.322	
14,200.00	12,583.07	10,841.22	9,176.08	41.51	44.16	-10.97	1,628.02	-914.62	3,470.38	3,416.39	54.00	64.270	
14,300.00	12,583.07	10,941.22	9,176.07	42.54	45.23	-10.97	1,728.02	-915.41	3,470.37	3,415.47	54.90	63.210	
14,400.00	12,583.07	11,041.22	9,176.07	43.62	46.33	-10.97	1,828.02	-916.19	3,470.36	3,414.52	55.84	62.148	
14,500.00	12,583.07	11,141.22	9,176.07	44.75	47.46	-10.96	1,928.01	-916.97	3,470.34	3,413.53	56.81	61.085	
14,600.00	12,583.06	11,241.22	9,176.07	45.91	48.62	-10.96	2,028.01	-917.76	3,470.33	3,412.52	57.81	60.028	
14,700.00	12,583.06	11,341.22	9,176.06	47.10	49.81	-10.96	2,128.01	-918.54	3,470.32	3,411.47	58.84	58.977	
14,800.00	12,583.06	11,441.22	9,176.06	48.32	51.03	-10.96	2,228.00	-919.32	3,470.30	3,410.40	59.90	57.936	
14,900.00	12,583.06	11,541.22	9,176.06	49.57	52.27	-10.96	2,328.00	-920.11	3,470.29	3,409.31	60.98	56.906	
15,000.00	12,583.06	11,641.22	9,176.06	50.84	53.53	-10.96	2,428.00	-920.89	3,470.27	3,408.18	62.09	55.890	
15,100.00	12,583.05	11,741.22	9,176.05	52.14	54.82	-10.96	2,528.00	-921.67	3,470.26	3,407.04	63.22	54.890	
15,200.00	12,583.05	11,841.22	9,176.05	53.45	56.12	-10.96	2,627.99	-922.46	3,470.25	3,405.87	64.38	53.905	
15,300.00	12,583.05	11,941.22	9,176.05	54.78	57.44	-10.95	2,727.99	-923.24	3,470.23	3,404.68	65.55	52.939	
15,400.00	12,583.05	12,041.22	9,176.05	56.14	58.78	-10.95	2,827.99	-924.03	3,470.22	3,403.47	66.75	51.990	
15,500.00	12,583.04	12,141.22	9,176.04	57.50	60.13	-10.95	2,927.98	-924.81	3,470.21	3,402.24	67.96	51.051	
15,600.00	12,583.04	12,241.22	9,176.04	58.89	61.50	-10.95	3,027.98	-925.59	3,470.19	3,401.00	69.19	50.151	
15,700.00	12,583.04	12,341.22	9,176.04	60.28	62.89	-10.95	3,127.98	-926.38	3,470.18	3,399.74	70.44	49.261	
15,800.00	12,583.04	12,441.22	9,176.04	61.69	64.28	-10.95	3,227.97	-927.16	3,470.17	3,398.46	71.71	48.391	
15,900.00	12,583.03	12,541.22	9,176.03	63.12	65.69	-10.95	3,327.97	-927.94	3,470.15	3,397.16	72.99	47.541	
16,000.00	12,583.03	12,641.22	9,176.03	64.55	67.11	-10.95	3,427.97	-928.73	3,470.14	3,395.85	74.29	46.712	
16,100.00	12,583.03	12,741.22	9,176.03	66.00	68.54	-10.95	3,527.96	-929.51	3,470.13	3,394.53	75.60	45.902	
16,200.00	12,583.03	12,841.22	9,176.03	67.45	69.98	-10.94	3,627.96	-930.29	3,470.11	3,393.19	76.92	45.112	
16,300.00	12,583.02	12,941.22	9,176.02	68.91	71.43	-10.94	3,727.96	-931.08	3,470.10	3,391.84	78.26	44.341	
16,400.00	12,583.02	13,041.22	9,176.02	70.39	72.88	-10.94	3,827.96	-931.86	3,470.08	3,390.48	79.61	43.590	
16,500.00	12,583.02	13,141.22	9,176.02	71.87	74.35	-10.94	3,927.95	-932.64	3,470.07	3,389.10	80.97	42.858	
16,600.00	12,583.02	13,241.22	9,176.02	73.35	75.83	-10.94	4,027.95	-933.43	3,470.06	3,387.72	82.34	42.144	
16,700.00	12,583.01	13,341.22	9,176.02	74.85	77.31	-10.94	4,127.95	-934.21	3,470.04	3,386.32	83.72	41.449	
16,800.00	12,583.01	13,441.22	9,176.01	76.35	78.80	-10.94	4,227.94	-935.00	3,470.03	3,384.92	85.11	40.771	
16,900.00	12,583.01	13,541.22	9,176.01	77.86	80.29	-10.94	4,327.94	-935.78	3,470.02	3,383.51	86.51	40.111	
17,000.00	12,583.01	13,641.22	9,176.01	79.38	81.79	-10.93	4,427.94	-936.56	3,470.00	3,382.08	87.92	39.468	
17,100.00	12,583.01	13,741.22	9,176.01	80.90	83.30	-10.93	4,527.93	-937.35	3,469.99	3,380.65	89.34	38.841	
17,200.00	12,583.00	13,841.22	9,176.00	82.42	84.81	-10.93	4,627.93	-938.13	3,469.98	3,379.21	90.76	38.231	
17,309.83	12,583.00	13,951.05	9,176.00	84.10	86.48	-10.93	4,737.76	-938.99	3,469.96	3,377.62	92.34	37.578	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 024H - OH - Prelim Plan A														Offset Site Error: 0.00 usft
Survey Program: OH-MWD - OWSG														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highslide Toolface (°)	Distance						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)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	88.07	118.00	3,498.00	3,500.45					
100.00	100.00	43.00	43.00	0.13	0.05	88.07	118.00	3,498.00	3,499.99	3,499.81	0.18	N/A		
200.00	200.00	143.00	143.00	0.49	0.28	88.07	118.00	3,498.00	3,499.99	3,499.22	0.77	4,562.450		
300.00	300.00	243.00	243.00	0.84	0.64	88.07	118.00	3,498.00	3,499.99	3,498.51	1.48	2,358.368		
400.00	400.00	343.00	343.00	1.20	1.00	88.07	118.00	3,498.00	3,499.99	3,497.79	2.20	1,590.170		
500.00	500.00	443.00	443.00	1.56	1.36	88.07	118.00	3,498.00	3,499.99	3,497.07	2.92	1,199.465		
600.00	600.00	543.00	543.00	1.92	1.72	88.07	118.00	3,498.00	3,499.99	3,496.35	3.63	962.884		
700.00	700.00	643.00	643.00	2.28	2.07	88.07	118.00	3,498.00	3,499.99	3,495.64	4.35	804.254		
800.00	800.00	743.00	743.00	2.64	2.43	88.07	118.00	3,498.00	3,499.99	3,494.92	5.07	690.498		
900.00	900.00	843.00	843.00	3.00	2.79	88.07	118.00	3,498.00	3,499.99	3,494.20	5.79	604.935		
1,000.00	1,000.00	943.00	943.00	3.35	3.15	88.07	118.00	3,498.00	3,499.99	3,493.49	6.50	538.239		
1,100.00	1,100.00	1,043.00	1,043.00	3.71	3.51	88.07	118.00	3,498.00	3,499.99	3,492.77	7.22	484.789		
1,200.00	1,200.00	1,143.00	1,143.00	4.07	3.87	88.07	118.00	3,498.00	3,499.99	3,492.05	7.94	440.996		
1,300.00	1,300.00	1,243.00	1,243.00	4.43	4.22	88.07	118.00	3,498.00	3,499.99	3,491.34	8.65	404.459		
1,400.00	1,400.00	1,343.00	1,343.00	4.79	4.58	88.07	118.00	3,498.00	3,499.99	3,490.62	9.37	373.514		
1,500.00	1,500.00	1,443.00	1,443.00	5.15	4.94	88.07	118.00	3,498.00	3,499.99	3,489.90	10.09	346.967		
1,600.00	1,600.00	1,543.00	1,543.00	5.50	5.29	88.11	115.49	3,494.48	3,499.14	3,487.88	11.26	310.769		
1,700.00	1,700.00	1,643.00	1,643.00	5.86	5.61	88.25	106.34	3,481.64	3,492.47	3,480.12	12.35	282.901		
1,800.00	1,800.00	1,743.00	1,743.00	6.22	6.01	88.33	101.30	3,474.56	3,485.21	3,472.17	13.05	267.142		
1,900.00	1,900.00	1,843.00	1,843.00	6.58	6.37	88.41	96.26	3,467.49	3,477.97	3,464.22	13.75	252.935		
2,000.00	2,000.00	1,943.00	1,943.00	6.94	6.73	88.49	91.22	3,460.42	3,470.73	3,456.27	14.46	240.070		
2,100.00	2,100.00	2,043.00	2,043.00	7.30	7.09	88.57	86.18	3,453.35	3,463.49	3,448.33	15.17	228.371		
2,200.00	2,200.00	2,143.00	2,143.00	7.66	7.45	88.65	81.14	3,446.28	3,456.27	3,440.39	15.88	217.690		
2,300.00	2,300.00	2,243.00	2,243.00	8.01	7.80	88.73	76.10	3,439.21	3,449.05	3,432.46	16.59	207.903		
2,400.00	2,400.00	2,343.00	2,343.00	8.37	8.16	88.81	71.07	3,432.14	3,441.83	3,424.53	17.30	198.905		
2,500.00	2,500.00	2,243.00	2,243.00	8.73	8.52	88.90	66.03	3,425.07	3,434.63	3,416.61	18.02	190.607		
2,600.00	2,600.00	2,143.00	2,143.00	9.09	8.88	88.98	60.99	3,418.00	3,427.43	3,408.69	18.74	182.930		
2,700.00	2,700.00	2,043.00	2,043.00	9.45	9.24	89.06	55.95	3,410.93	3,420.24	3,400.78	19.45	175.810		
2,800.00	2,800.00	1,943.00	1,943.00	9.81	9.60	89.14	50.91	3,403.86	3,413.05	3,392.88	20.17	169.189		
2,900.00	2,900.00	1,843.00	1,843.00	10.16	9.95	89.23	45.87	3,396.79	3,405.87	3,384.98	20.89	163.016		
3,000.00	3,000.00	1,743.00	1,743.00	10.52	10.31	89.31	40.83	3,389.72	3,398.70	3,377.09	21.61	157.249		
3,100.00	3,100.00	1,643.00	1,643.00	10.88	10.67	89.39	35.79	3,382.65	3,391.54	3,369.26	22.28	152.255		
3,200.00	3,200.00	1,543.00	1,543.00	11.24	11.03	89.48	30.76	3,375.58	3,384.38	3,361.33	23.06	146.784		
3,300.00	3,300.00	1,443.00	1,443.00	11.60	11.39	89.56	25.72	3,368.51	3,377.23	3,353.52	23.71	142.413		
3,400.00	3,400.00	1,343.00	1,343.00	11.96	11.75	89.65	20.68	3,361.43	3,370.09	3,345.59	24.50	137.539		
3,500.00	3,500.00	1,243.00	1,243.00	12.32	12.11	89.73	15.64	3,354.36	3,362.96	3,337.80	25.16	133.685		
3,600.00	3,600.00	1,143.00	1,143.00	12.67	12.46	89.82	10.60	3,347.29	3,355.83	3,329.96	25.88	129.683		
3,700.00	3,700.00	1,043.00	1,043.00	13.03	12.82	89.90	5.56	3,340.22	3,348.71	3,322.12	26.60	125.895		
3,800.00	3,800.00	943.00	943.00	13.39	13.18	89.99	0.52	3,333.15	3,341.60	3,314.28	27.32	122.305		
3,900.00	3,900.00	843.00	843.00	13.75	13.54	90.08	-4.52	3,326.08	3,334.50	3,306.45	28.04	118.901		
4,000.00	4,000.00	743.00	743.00	14.11	13.90	90.16	-9.56	3,319.01	3,327.40	3,298.64	28.77	115.665		
4,100.00	4,100.00	643.00	643.00	14.47	14.26	90.25	-14.59	3,311.94	3,320.31	3,290.82	29.49	112.587		
4,200.00	4,200.00	543.00	543.00	14.82	14.61	90.34	-19.63	3,304.87	3,313.23	3,283.02	30.21	109.655		
4,300.00	4,300.00	443.00	443.00	15.18	14.97	90.43	-24.67	3,297.80	3,306.16	3,275.22	30.94	106.860		
4,400.00	4,400.00	343.00	343.00	15.54	15.33	90.52	-29.71	3,290.73	3,299.10	3,267.43	31.66	104.192		
4,500.00	4,500.00	243.00	243.00	15.90	15.69	90.61	-34.75	3,283.66	3,292.04	3,259.65	32.39	101.642		
4,600.00	4,600.00	143.00	143.00	16.26	16.05	90.70	-39.79	3,276.59	3,284.99	3,251.88	33.11	99.203		
4,700.00	4,700.00	43.00	43.00	16.62	16.41	90.79	-44.83	3,269.52	3,277.95	3,244.11	33.84	96.869		
4,800.00	4,800.00	0.00	0.00	16.98	16.77	90.88	-49.87	3,262.45	3,270.92	3,236.35	34.56	94.632		
4,900.00	4,900.00	0.00	0.00	17.33	17.12	90.97	-54.91	3,255.37	3,263.89	3,228.60	35.29	92.486		
5,000.00	5,000.00	0.00	0.00	17.69	17.48	91.06	-59.94	3,248.30	3,256.87	3,220.86	36.02	90.427		
5,100.00	5,100.00	0.00	0.00	18.05	17.84	91.15	-64.98	3,241.23	3,249.87	3,213.12	36.74	88.448		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 024H - 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		Minimum Separation		Separation Factor		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,200.00	5,383.81	5,369.87	18.41	19.48	91.24	-70.02	3,234.16	3,242.87	3,205.40	37.47	86.546	
5,300.00	5,300.00	5,483.42	5,469.11	18.77	19.86	91.33	-75.06	3,227.09	3,235.87	3,197.68	38.20	84.717	
5,400.00	5,400.00	5,583.04	5,568.35	19.13	20.25	91.42	-80.10	3,220.02	3,228.89	3,189.97	38.92	82.955	
5,500.00	5,500.00	5,682.66	5,667.59	19.31	20.63	91.52	-85.14	3,212.95	3,221.92	3,182.44	39.47	81.624	
5,600.00	5,600.00	5,782.28	5,766.93	19.31	21.01	91.61	-90.18	3,205.88	3,214.95	3,175.10	39.85	80.677	
5,700.00	5,700.00	5,881.90	5,866.07	19.33	21.39	91.70	-95.22	3,198.81	3,207.99	3,167.76	40.23	79.736	
5,800.00	5,799.99	5,981.62	5,965.42	19.35	21.77	-134.95	-100.26	3,191.73	3,201.96	3,161.34	40.62	78.823	
5,900.00	5,899.91	6,081.50	6,064.91	19.37	22.15	-134.95	-105.31	3,184.64	3,197.79	3,156.77	41.02	77.962	
6,000.00	5,999.69	6,181.47	6,164.50	19.40	22.53	-134.96	-110.37	3,177.55	3,195.46	3,154.04	41.42	77.149	
6,033.33	6,032.91	6,214.80	6,197.71	19.41	22.66	-134.97	-112.05	3,175.18	3,195.10	3,153.54	41.56	76.888	
6,100.00	6,099.32	6,281.46	6,264.11	19.44	22.92	-134.98	-115.43	3,170.45	3,194.57	3,152.74	41.83	76.373	
6,200.00	6,198.94	6,381.46	6,363.73	19.49	23.30	-135.00	-120.48	3,163.35	3,193.79	3,151.54	42.25	75.601	
6,300.00	6,298.56	6,481.45	6,463.34	19.54	23.68	-135.01	-125.54	3,156.26	3,193.00	3,150.33	42.67	74.832	
6,400.00	6,398.18	6,581.44	6,562.95	19.61	24.06	-135.03	-130.60	3,149.16	3,192.22	3,149.12	43.10	74.066	
6,500.00	6,497.80	6,681.43	6,662.56	19.68	24.45	-135.05	-135.66	3,142.06	3,191.43	3,147.90	43.54	73.303	
6,600.00	6,597.42	6,781.43	6,762.18	19.75	24.83	-135.06	-140.72	3,134.96	3,190.65	3,146.67	43.98	72.543	
6,700.00	6,697.04	6,881.42	6,861.79	19.84	25.21	-135.08	-145.77	3,127.87	3,189.87	3,145.43	44.43	71.788	
6,800.00	6,796.56	6,981.41	6,961.40	19.93	25.60	-135.09	-150.83	3,120.77	3,189.08	3,144.19	44.89	71.037	
6,900.00	6,896.28	7,081.41	7,061.01	20.03	25.98	-135.11	-155.89	3,113.67	3,188.30	3,142.94	45.36	70.291	
7,000.00	6,995.90	7,181.40	7,160.62	20.13	26.37	-135.13	-160.95	3,106.58	3,187.52	3,141.69	45.83	69.550	
7,100.00	7,095.52	7,281.39	7,260.24	20.25	26.75	-135.14	-166.00	3,099.48	3,186.73	3,140.43	46.31	68.814	
7,200.00	7,195.14	7,381.38	7,359.85	20.36	27.13	-135.16	-171.06	3,092.38	3,185.95	3,139.16	46.79	68.084	
7,300.00	7,294.76	7,481.38	7,459.46	20.49	27.52	-135.18	-176.12	3,085.28	3,185.17	3,137.88	47.29	67.360	
7,400.00	7,394.38	7,581.37	7,559.07	20.62	27.90	-135.19	-181.18	3,078.19	3,184.39	3,136.61	47.78	66.642	
7,500.00	7,494.00	7,681.36	7,657.67	20.76	28.20	-135.21	-186.09	3,072.69	3,183.78	3,135.57	48.22	66.033	
7,509.45	7,503.41	7,685.93	7,643.33	20.77	28.22	-135.21	-186.35	3,072.33	3,183.78	3,135.53	48.25	65.984 CC, ES	
7,600.00	7,593.62	7,720.27	7,697.53	20.90	28.43	-135.23	-187.57	3,069.22	3,184.29	3,135.71	48.58	65.542	
7,700.00	7,693.24	7,780.23	7,757.40	21.06	28.65	-135.26	-189.49	3,066.52	3,186.06	3,137.11	48.95	65.089	
7,800.00	7,792.85	7,840.12	7,817.24	21.21	28.86	-135.30	-190.87	3,064.58	3,189.08	3,139.77	49.31	64.672	
7,900.00	7,892.47	7,900.00	7,877.10	21.37	29.08	-135.35	-191.71	3,063.41	3,193.36	3,143.69	49.67	64.288	
8,000.00	7,992.09	7,961.90	7,939.00	21.54	29.28	-135.41	-192.00	3,063.00	3,198.90	3,148.87	50.03	63.938	
8,100.00	8,091.71	8,057.61	8,034.71	21.72	29.59	-135.51	-192.00	3,063.00	3,205.12	3,154.62	50.51	63.457	
8,200.00	8,191.33	8,157.23	8,134.33	21.90	29.92	-135.62	-192.00	3,063.00	3,211.36	3,160.35	51.01	62.960	
8,300.00	8,290.95	8,256.85	8,233.95	22.08	30.24	-135.73	-192.00	3,063.00	3,217.61	3,166.10	51.51	62.466	
8,400.00	8,390.57	8,356.47	8,333.57	22.27	30.57	-135.84	-192.00	3,063.00	3,223.87	3,171.85	52.02	61.975	
8,500.00	8,490.19	8,456.09	8,433.19	22.46	30.89	-135.95	-192.00	3,063.00	3,230.14	3,177.60	52.53	61.487	
8,600.00	8,589.81	8,559.77	8,536.79	22.66	31.22	-136.10	-189.56	3,062.99	3,236.39	3,183.32	53.06	60.994	
8,700.00	8,689.43	8,659.39	8,637.59	22.87	31.52	-136.54	-171.03	3,062.89	3,242.52	3,188.98	53.55	60.555	
8,800.00	8,789.05	8,753.86	8,723.39	23.08	31.74	-137.18	-139.60	3,062.73	3,248.90	3,194.94	53.96	60.208	
8,900.00	8,888.67	8,832.09	8,792.01	23.29	31.90	-137.91	-102.17	3,062.53	3,256.05	3,201.73	54.31	59.951	
9,000.00	8,988.29	8,897.44	8,845.00	23.51	32.00	-138.64	-63.97	3,062.33	3,264.45	3,209.84	54.61	59.773	
9,100.00	9,087.91	8,950.00	8,884.24	23.73	32.07	-139.29	-29.04	3,062.15	3,274.55	3,219.68	54.87	59.678	
9,200.00	9,187.53	9,000.00	8,918.45	23.96	32.12	-139.97	7.41	3,061.95	3,286.66	3,231.55	55.11	59.642	
9,300.00	9,287.15	9,033.55	8,939.56	24.19	32.15	-140.44	33.47	3,061.82	3,300.99	3,245.70	55.29	59.707	
9,400.00	9,386.77	9,064.76	8,957.81	24.42	32.17	-140.91	58.79	3,061.69	3,317.70	3,262.25	55.44	59.840	
9,451.82	9,448.35	9,081.58	8,967.06	24.57	32.18	-141.16	72.84	3,061.61	3,329.26	3,273.74	55.52	59.961	
9,500.00	9,486.40	9,100.00	8,976.71	24.66	32.19	-141.51	88.52	3,061.53	3,336.76	3,281.16	55.59	60.022	
9,600.00	9,586.19	9,114.43	8,983.92	24.89	32.19	-141.92	101.02	3,061.47	3,356.67	3,301.01	55.66	60.305	
9,700.00	9,686.12	9,135.16	8,993.72	25.12	32.20	-142.44	119.28	3,061.37	3,377.15	3,321.43	55.72	60.604	
9,795.16	9,781.26	9,150.00	9,000.32	25.32	32.20	83.82	132.58	3,061.30	3,397.15	3,341.41	55.74	60.947	
9,800.00	9,786.11	9,150.00	9,000.32	25.33	32.20	83.82	132.58	3,061.30	3,398.19	3,342.45	55.74	60.969	
9,900.00	9,886.11	9,170.54	9,008.89	25.54	32.20	83.50	151.24	3,061.20	3,420.87	3,365.13	55.74	61.371	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 024H - 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		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)				Offset	Well
10,000.00	9,986.11	9,185.26	9,014.62	25.74	32.20	83.26	164.80	3,061.13	3,446.13	3,390.42	55.71	61.857	
10,100.00	10,086.11	9,200.00	9,020.01	25.96	32.21	83.03	178.52	3,061.06	3,473.93	3,418.27	55.67	62.405	
10,200.00	10,186.11	9,200.00	9,020.01	26.17	32.21	83.03	178.52	3,061.06	3,504.29	3,448.72	55.57	63.066	
10,300.00	10,286.11	9,220.49	9,026.90	26.39	32.21	82.70	197.82	3,060.96	3,537.02	3,481.50	55.52	63.706	
10,400.00	10,386.11	9,229.95	9,029.85	26.61	32.21	82.54	206.80	3,060.91	3,572.20	3,516.77	55.43	64.444	
10,500.00	10,486.11	9,250.00	9,035.61	26.83	32.21	82.22	226.01	3,060.81	3,609.81	3,554.44	55.37	65.196	
10,600.00	10,586.11	9,250.00	9,035.61	27.05	32.21	82.22	226.01	3,060.81	3,649.58	3,594.34	55.24	66.070	
10,700.00	10,686.11	9,250.00	9,035.61	27.28	32.21	82.22	226.01	3,060.81	3,691.63	3,636.52	55.10	66.993	
10,800.00	10,786.11	9,250.00	9,035.61	27.52	32.21	82.22	226.01	3,060.81	3,735.88	3,680.91	54.97	67.961	
10,900.00	10,886.11	9,250.00	9,035.61	27.75	32.21	82.22	226.01	3,060.81	3,782.26	3,727.42	54.84	68.970	
11,000.00	10,986.11	9,271.53	9,041.04	27.99	32.21	81.86	246.84	3,060.70	3,830.43	3,775.64	54.78	69.922	
11,100.00	11,086.11	9,276.67	9,042.22	28.23	32.21	81.78	251.84	3,060.68	3,880.68	3,826.00	54.67	70.980	
11,200.00	11,186.11	9,300.00	9,047.01	28.47	32.24	81.39	274.67	3,060.56	3,933.01	3,878.38	54.63	72.000	
11,300.00	11,286.11	9,300.00	9,047.01	28.71	32.24	81.39	274.67	3,060.56	3,986.85	3,932.34	54.51	73.136	
11,400.00	11,386.11	9,300.00	9,047.01	28.96	32.24	81.39	274.67	3,060.56	4,042.45	3,988.04	54.41	74.297	
11,500.00	11,486.11	9,300.00	9,047.01	29.21	32.24	81.39	274.67	3,060.56	4,099.73	4,045.42	54.31	75.481	
11,600.00	11,586.11	9,300.00	9,047.01	29.46	32.24	81.39	274.67	3,060.56	4,158.63	4,104.40	54.23	76.685	
11,700.00	11,686.11	9,300.00	9,047.01	29.71	32.24	81.39	274.67	3,060.56	4,219.08	4,164.93	54.16	77.906	
11,800.00	11,786.11	9,304.08	9,047.76	29.97	32.24	81.32	278.68	3,060.54	4,281.00	4,226.90	54.11	79.122	
11,900.00	11,886.11	9,308.04	9,048.45	30.23	32.25	81.25	282.59	3,060.52	4,344.33	4,290.26	54.07	80.350	
12,000.00	11,986.11	9,325.41	9,051.47	30.49	32.29	80.96	299.69	3,060.43	4,408.97	4,354.89	54.08	81.528	
12,013.89	12,000.00	9,327.82	9,051.89	30.52	32.30	80.92	302.06	3,060.41	4,418.05	4,363.97	54.08	81.691	
12,050.00	12,036.08	9,331.90	9,052.59	30.61	32.31	78.28	306.08	3,060.39	4,441.61	4,387.53	54.08	82.126	
12,100.00	12,085.78	9,331.90	9,052.59	30.74	32.31	74.17	306.08	3,060.39	4,473.92	4,419.86	54.06	82.754	
12,150.00	12,134.83	9,340.40	9,054.03	30.85	32.34	70.15	314.46	3,060.35	4,505.62	4,451.55	54.07	83.335	
12,200.00	12,182.85	9,350.00	9,055.57	30.96	32.37	66.38	323.93	3,060.30	4,536.49	4,482.42	54.07	83.900	
12,250.00	12,229.48	9,350.00	9,055.57	31.06	32.37	63.02	323.93	3,060.30	4,566.28	4,512.23	54.04	84.493	
12,300.00	12,274.37	9,350.00	9,055.57	31.16	32.37	59.97	323.93	3,060.30	4,594.82	4,540.80	54.02	85.063	
12,350.00	12,317.16	9,350.00	9,055.57	31.24	32.37	57.21	323.93	3,060.30	4,621.93	4,567.94	53.99	85.607	
12,400.00	12,357.54	9,373.59	9,058.94	31.32	32.45	54.57	347.29	3,060.16	4,647.16	4,593.12	54.03	86.005	
12,450.00	12,395.20	9,400.00	9,062.02	31.38	32.54	52.25	373.51	3,059.99	4,670.79	4,616.70	54.09	86.358	
12,500.00	12,429.85	9,400.00	9,062.02	31.45	32.54	50.40	373.51	3,059.99	4,692.13	4,638.06	54.07	86.780	
12,550.00	12,461.23	9,400.00	9,062.02	31.50	32.54	48.81	373.51	3,059.99	4,711.38	4,657.32	54.06	87.151	
12,600.00	12,489.10	9,400.00	9,062.02	31.56	32.54	47.46	373.51	3,059.99	4,728.42	4,674.36	54.06	87.467	
12,650.00	12,513.25	9,420.75	9,063.93	31.64	32.61	46.27	394.17	3,059.84	4,742.93	4,688.80	54.13	87.626	
12,700.00	12,533.50	9,431.22	9,064.73	31.75	32.65	45.35	404.61	3,059.77	4,754.98	4,700.80	54.18	87.765	
12,750.00	12,549.68	9,450.00	9,065.67	31.88	32.72	44.63	423.35	3,059.62	4,764.46	4,710.19	54.26	87.801	
12,800.00	12,561.68	9,450.00	9,065.67	32.03	32.72	44.15	423.35	3,059.62	4,771.22	4,716.90	54.32	87.840	
12,813.89	12,564.25	9,450.00	9,065.67	37.24	32.72	44.05	423.35	3,059.62	4,772.64	4,718.75	53.88	88.572	
12,838.89	12,568.59	9,450.00	9,065.67	37.26	32.72	44.05	423.35	3,059.62	4,775.08	4,721.20	53.88	88.625	
12,850.00	12,570.46	9,450.00	9,065.67	37.26	32.72	44.01	423.35	3,059.62	4,776.15	4,722.28	53.88	88.646	
12,900.00	12,577.27	9,474.62	9,066.80	37.29	32.81	43.83	447.95	3,059.42	4,779.89	4,725.92	53.97	88.556	
12,950.00	12,581.49	9,498.63	9,067.11	37.32	32.91	43.72	471.96	3,059.22	4,782.32	4,728.25	54.08	88.436	
13,000.00	12,583.09	9,498.63	9,067.11	37.35	32.91	43.68	471.96	3,059.22	4,783.11	4,728.98	54.13	88.363	
13,050.58	12,582.10	9,498.63	9,067.11	37.35	32.91	43.68	471.96	3,059.22	4,783.11	4,728.98	54.14	88.351	
13,100.00	12,583.10	9,589.30	9,067.10	37.40	33.30	43.68	562.63	3,058.41	4,783.09	4,728.49	54.60	87.607	
13,200.00	12,583.10	9,689.30	9,067.10	37.47	33.79	43.68	662.63	3,057.52	4,783.07	4,727.86	55.20	86.643	
13,300.00	12,583.10	9,789.30	9,067.10	37.54	34.36	43.68	762.62	3,056.63	4,783.04	4,727.12	55.92	85.530	
13,400.00	12,583.09	9,889.30	9,067.10	37.62	34.99	43.68	862.62	3,055.74	4,783.02	4,726.27	56.75	84.286	
13,500.00	12,583.09	9,989.30	9,067.09	37.72	35.68	43.68	962.61	3,054.85	4,783.00	4,725.32	57.67	82.931	
13,600.00	12,583.09	10,089.30	9,067.09	37.84	36.43	43.68	1,062.61	3,053.96	4,782.97	4,724.27	58.70	81.483	
13,700.00	12,583.09	10,189.30	9,067.09	38.03	37.24	43.68	1,162.61	3,053.07	4,782.95	4,723.13	59.82	79.962	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 024H - 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 N/S (usft)	Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,583.08	10,289.30	9,067.09	38.35	38.11	43.68	1,262.60	3,052.18	4,782.92	4,721.91	61.02	78.385	
13,900.00	12,583.08	10,389.30	9,067.08	38.89	39.02	43.68	1,362.60	3,051.29	4,782.90	4,720.60	62.30	76.768	
14,000.00	12,583.08	10,489.30	9,067.08	39.64	39.98	43.68	1,462.59	3,050.40	4,782.88	4,719.21	63.67	75.125	
14,100.00	12,583.08	10,589.30	9,067.08	40.53	40.99	43.68	1,562.59	3,049.51	4,782.85	4,717.75	65.10	73.470	
14,200.00	12,583.07	10,689.30	9,067.08	41.51	42.03	43.68	1,662.59	3,048.62	4,782.83	4,716.23	66.60	71.814	
14,300.00	12,583.07	10,789.30	9,067.07	42.54	43.12	43.68	1,762.58	3,047.73	4,782.81	4,714.64	68.16	70.166	
14,400.00	12,583.07	10,889.30	9,067.07	43.62	44.24	43.68	1,862.58	3,046.84	4,782.78	4,713.00	69.79	68.534	
14,500.00	12,583.07	10,989.30	9,067.07	44.75	45.39	43.68	1,962.57	3,045.95	4,782.76	4,711.30	71.46	66.926	
14,600.00	12,583.06	11,089.30	9,067.07	45.91	46.57	43.68	2,062.57	3,045.06	4,782.74	4,709.54	73.19	65.346	
14,700.00	12,583.06	11,189.30	9,067.06	47.10	47.78	43.68	2,162.57	3,044.17	4,782.71	4,707.75	74.97	63.798	
14,800.00	12,583.06	11,289.30	9,067.06	48.32	49.02	43.68	2,262.56	3,043.28	4,782.69	4,705.90	76.78	62.287	
14,900.00	12,583.06	11,389.30	9,067.06	49.57	50.28	43.68	2,362.56	3,042.39	4,782.66	4,704.02	78.64	60.813	
15,000.00	12,583.06	11,489.30	9,067.06	50.84	51.56	43.68	2,462.55	3,041.51	4,782.64	4,702.10	80.54	59.380	
15,100.00	12,583.05	11,589.30	9,067.05	52.14	52.86	43.68	2,562.55	3,040.62	4,782.62	4,700.14	82.48	57.968	
15,200.00	12,583.05	11,689.30	9,067.05	53.45	54.19	43.68	2,662.55	3,039.73	4,782.59	4,698.15	84.44	56.637	
15,300.00	12,583.05	11,789.30	9,067.05	54.78	55.53	43.68	2,762.54	3,038.84	4,782.57	4,696.13	86.44	55.328	
15,400.00	12,583.05	11,889.30	9,067.05	56.14	56.89	43.68	2,862.54	3,037.95	4,782.55	4,694.08	88.47	54.061	
15,500.00	12,583.04	11,989.30	9,067.04	57.50	58.26	43.68	2,962.53	3,037.06	4,782.52	4,692.00	90.52	52.834	
15,600.00	12,583.04	12,089.30	9,067.04	58.89	59.65	43.68	3,062.53	3,036.17	4,782.50	4,689.90	92.60	51.649	
15,700.00	12,583.04	12,189.30	9,067.04	60.28	61.05	43.68	3,162.53	3,035.28	4,782.48	4,687.78	94.70	50.502	
15,800.00	12,583.04	12,289.30	9,067.04	61.69	62.46	43.67	3,262.52	3,034.39	4,782.45	4,685.63	96.82	49.395	
15,900.00	12,583.03	12,389.30	9,067.03	63.12	63.89	43.67	3,362.52	3,033.50	4,782.43	4,683.46	98.97	48.324	
16,000.00	12,583.03	12,489.30	9,067.03	64.55	65.32	43.67	3,462.51	3,032.61	4,782.40	4,681.28	101.13	47.291	
16,100.00	12,583.03	12,589.30	9,067.03	66.00	66.77	43.67	3,562.51	3,031.72	4,782.38	4,679.07	103.31	46.292	
16,200.00	12,583.03	12,689.30	9,067.03	67.45	68.23	43.67	3,662.51	3,030.83	4,782.36	4,676.85	105.51	45.328	
16,300.00	12,583.02	12,789.30	9,067.02	68.91	69.89	43.67	3,762.50	3,029.94	4,782.33	4,674.61	107.72	44.396	
16,400.00	12,583.02	12,889.30	9,067.02	70.39	71.17	43.67	3,862.50	3,029.05	4,782.31	4,672.36	109.95	43.496	
16,500.00	12,583.02	12,989.30	9,067.02	71.87	72.65	43.67	3,962.49	3,028.16	4,782.29	4,670.10	112.19	42.627	
16,600.00	12,583.02	13,089.30	9,067.02	73.35	74.14	43.67	4,062.49	3,027.27	4,782.26	4,667.82	114.45	41.786	
16,700.00	12,583.01	13,189.30	9,067.02	74.85	75.64	43.67	4,162.49	3,026.38	4,782.24	4,665.53	116.71	40.974	
16,800.00	12,583.01	13,289.30	9,067.01	76.35	77.14	43.67	4,262.48	3,025.49	4,782.22	4,663.22	118.99	40.189	
16,900.00	12,583.01	13,389.30	9,067.01	77.86	78.65	43.67	4,362.48	3,024.60	4,782.19	4,660.91	121.28	39.430	
17,000.00	12,583.01	13,489.30	9,067.01	79.38	80.16	43.67	4,462.47	3,023.71	4,782.17	4,658.58	123.58	38.695	
17,100.00	12,583.01	13,589.30	9,067.01	80.90	81.68	43.67	4,562.47	3,022.82	4,782.14	4,656.25	125.90	37.985	
17,200.00	12,583.00	13,689.30	9,067.00	82.42	83.21	43.67	4,662.47	3,021.93	4,782.12	4,653.91	128.22	37.297	
17,309.83	12,583.00	13,799.14	9,067.00	84.10	84.89	43.67	4,772.30	3,020.95	4,782.10	4,651.32	130.77	36.568 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
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 201H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.75	0.25	117.871	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-30.00	30.00	29.03	0.97	30.881	
300.00	300.00	300.00	300.00	0.84	0.84	-90.00	0.00	-30.00	30.00	28.31	1.69	17.768	
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-30.00	30.00	27.59	2.41	12.472	
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-30.00	30.00	26.88	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-30.00	30.00	26.16	3.84	7.814	
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-30.00	30.00	25.44	4.56	6.584	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-30.00	30.00	24.73	5.27	5.689 CC, ES	
900.00	900.00	899.23	899.22	3.00	2.98	-90.68	-0.37	-31.23	31.25	25.27	5.98	5.229	
1,000.00	1,000.00	998.33	998.24	3.35	3.32	-92.43	-1.48	-34.93	35.00	28.34	6.67	5.251	
1,100.00	1,100.00	1,097.16	1,096.86	3.71	3.66	-94.64	-3.33	-41.06	41.32	33.96	7.36	5.616	
1,200.00	1,200.00	1,204.46	1,194.83	4.07	4.04	-96.79	-5.90	-49.59	50.21	42.13	8.07	6.218	
1,300.00	1,300.00	1,294.99	1,293.74	4.43	4.37	-98.50	-6.90	-59.54	60.53	51.78	8.75	6.921	
1,400.00	1,400.00	1,405.56	1,392.65	4.79	4.78	-99.71	-11.90	-69.50	70.89	61.40	9.49	7.469	
1,500.00	1,500.00	1,506.11	1,491.55	5.15	5.16	-100.62	-14.89	-79.45	81.27	71.07	10.20	7.965	
1,600.00	1,600.00	1,606.65	1,590.46	5.50	5.53	-101.32	-17.89	-89.40	91.68	80.76	10.92	8.397	
1,700.00	1,700.00	1,707.20	1,689.37	5.86	5.92	-101.87	-20.89	-99.36	102.09	90.45	11.63	8.775	
1,800.00	1,800.00	1,807.75	1,788.27	6.22	6.30	-102.33	-23.89	-109.31	112.50	100.15	12.35	9.110	
1,900.00	1,900.00	1,908.30	1,887.18	6.58	6.68	-102.70	-26.89	-119.27	122.93	109.86	13.07	9.407	
2,000.00	2,000.00	2,008.85	1,986.09	6.94	7.07	-103.02	-29.89	-129.22	133.36	119.57	13.79	9.674	
2,100.00	2,100.00	2,109.39	2,085.00	7.30	7.46	-103.29	-32.88	-139.17	143.79	129.29	14.50	9.914	
2,200.00	2,200.00	2,190.06	2,163.90	7.66	7.77	-103.53	-35.88	-149.13	154.23	139.07	15.15	10.179	
2,300.00	2,300.00	2,289.51	2,262.81	8.01	8.16	-103.73	-38.88	-159.08	164.66	148.80	15.87	10.377	
2,400.00	2,400.00	2,388.96	2,361.72	8.37	8.54	-103.91	-41.88	-169.04	175.10	158.52	16.58	10.558	
2,500.00	2,500.00	2,488.42	2,460.63	8.73	8.93	-104.08	-44.88	-178.99	185.54	168.24	17.30	10.724	
2,600.00	2,600.00	2,587.87	2,579.53	9.09	9.32	-104.22	-47.87	-188.94	195.99	177.97	18.02	10.877	
2,700.00	2,700.00	2,687.32	2,678.44	9.45	9.71	-104.35	-50.87	-198.90	206.43	187.69	18.74	11.018	
2,800.00	2,800.00	2,786.77	2,777.35	9.81	10.09	-104.46	-53.87	-208.85	216.87	197.42	19.45	11.148	
2,900.00	2,900.00	2,886.22	2,876.26	10.16	10.48	-104.57	-56.87	-218.80	227.32	207.15	20.17	11.269	
3,000.00	3,000.00	2,985.68	2,975.16	10.52	10.87	-104.67	-59.87	-228.76	237.76	216.87	20.89	11.382	
3,100.00	3,100.00	3,085.13	3,074.07	10.88	11.26	-104.75	-62.87	-238.71	248.21	226.60	21.61	11.487	
3,200.00	3,200.00	3,184.58	3,172.98	11.24	11.65	-104.84	-65.86	-248.67	258.66	236.33	22.33	11.585	
3,300.00	3,300.00	3,284.03	3,271.89	11.60	12.04	-104.91	-68.86	-258.62	269.10	246.06	23.04	11.678	
3,400.00	3,400.00	3,383.49	3,370.79	11.96	12.43	-104.98	-71.86	-268.57	279.55	255.79	23.76	11.764	
3,500.00	3,500.00	3,482.94	3,469.70	12.32	12.82	-105.04	-74.86	-278.53	290.00	265.52	24.48	11.845	
3,600.00	3,600.00	3,582.39	3,568.61	12.67	13.22	-105.10	-77.86	-288.48	300.45	275.25	25.20	11.922	
3,700.00	3,700.00	3,681.84	3,667.52	13.02	13.61	-105.16	-80.85	-298.44	310.90	284.98	25.92	11.994	
3,800.00	3,800.00	3,781.29	3,766.42	13.39	14.00	-105.21	-83.85	-308.39	321.34	294.71	26.64	12.063	
3,900.00	3,900.00	3,880.75	3,865.33	13.75	14.39	-105.26	-86.85	-318.34	331.79	304.44	27.36	12.127	
4,000.00	4,000.00	3,980.20	3,964.24	14.11	14.78	-105.31	-89.85	-328.30	342.24	314.17	28.08	12.189	
4,100.00	4,100.00	4,079.65	4,063.14	14.47	15.17	-105.35	-92.85	-338.25	352.69	323.90	28.80	12.247	
4,200.00	4,200.00	4,179.10	4,162.05	14.82	15.57	-105.39	-95.84	-348.20	363.14	333.63	29.52	12.303	
4,300.00	4,300.00	4,278.55	4,260.96	15.18	15.95	-105.43	-98.84	-358.16	373.59	343.36	30.24	12.355	
4,400.00	4,400.00	4,378.01	4,359.87	15.54	16.35	-105.46	-101.84	-368.11	384.04	353.09	30.96	12.405	
4,500.00	4,500.00	4,477.45	4,458.77	15.90	16.74	-105.50	-104.84	-378.07	394.49	362.82	31.68	12.454	
4,600.00	4,600.00	4,576.91	4,557.68	16.26	17.14	-105.53	-107.84	-388.02	404.94	372.55	32.40	12.500	
4,700.00	4,700.00	4,676.36	4,656.59	16.62	17.53	-105.56	-110.84	-397.97	415.39	382.28	33.12	12.543	
4,800.00	4,800.00	4,775.82	4,755.50	16.98	17.92	-105.59	-113.83	-407.93	425.84	392.01	33.84	12.585	
4,900.00	4,900.00	4,875.27	4,854.40	17.33	18.31	-105.62	-116.83	-417.88	436.30	401.74	34.56	12.626	
5,000.00	5,000.00	4,974.72	4,953.31	17.69	18.71	-105.65	-119.83	-427.84	446.75	411.47	35.28	12.664	
5,100.00	5,100.00	5,074.17	5,052.22	18.05	19.10	-105.67	-122.83	-437.79	457.20	421.20	36.00	12.701	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 201H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		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)			
5,200.00	5,200.00	5,173.62	5,151.13	18.41	19.49	-105.70	-125.83	-447.74	467.65	430.93	36.72	12.737	
5,300.00	5,300.00	5,273.08	5,250.03	18.77	19.88	-105.72	-128.82	-457.70	478.10	440.66	37.44	12.771	
5,400.00	5,400.00	5,372.53	5,348.94	19.13	20.28	-105.74	-131.82	-467.65	488.55	450.39	38.16	12.804	
5,500.00	5,500.00	5,471.98	5,447.85	19.31	20.55	-105.76	-134.82	-477.60	499.00	460.43	38.57	12.938	
5,600.00	5,600.00	5,571.43	5,546.76	19.31	20.65	-105.78	-137.82	-487.56	509.45	470.82	38.63	13.187	
5,700.00	5,700.00	5,670.89	5,645.66	19.33	20.71	-105.80	-140.82	-497.51	519.90	481.25	38.66	13.448	
5,800.00	5,799.99	5,770.45	5,744.68	19.35	20.78	27.51	-143.82	-507.48	529.20	490.50	38.70	13.675	
5,900.00	5,899.91	5,870.19	5,843.87	19.37	20.86	27.64	-146.83	-517.46	536.19	497.44	38.75	13.838	
6,000.00	5,999.69	5,970.04	5,943.17	19.40	20.94	27.90	-149.84	-527.45	540.86	502.05	38.81	13.935	
6,033.33	6,032.91	6,003.33	5,976.29	19.41	20.97	28.02	-150.84	-530.79	541.91	503.08	38.84	13.953	
6,100.00	6,099.32	6,069.92	6,042.51	19.44	21.03	28.29	-152.85	-537.45	543.77	504.87	38.89	13.981	
6,200.00	6,198.94	6,169.81	6,141.86	19.49	21.13	28.69	-155.85	-547.45	546.57	507.58	38.99	14.020	
6,300.00	6,298.56	6,269.70	6,241.20	19.54	21.24	29.09	-158.87	-557.45	549.39	510.30	39.09	14.053	
6,400.00	6,398.18	6,369.59	6,340.54	19.61	21.35	29.48	-161.89	-567.44	552.24	513.03	39.21	14.083	
6,500.00	6,497.80	6,469.48	6,439.88	19.68	21.47	29.86	-164.89	-577.44	555.12	515.77	39.35	14.108	
6,600.00	6,597.42	6,569.37	6,539.22	19.75	21.59	30.25	-167.90	-587.44	558.02	518.53	39.50	14.128	
6,700.00	6,697.04	6,669.25	6,638.56	19.84	21.73	30.63	-170.91	-597.44	560.95	521.29	39.66	14.144	
6,800.00	6,796.66	6,769.14	6,737.90	19.93	21.86	31.00	-173.93	-607.43	563.90	524.07	39.83	14.156	
6,900.00	6,896.28	6,869.03	6,837.25	20.03	22.01	31.37	-176.94	-617.43	566.88	526.85	40.02	14.164	
7,000.00	6,995.90	6,968.92	6,936.59	20.13	22.16	31.74	-179.95	-627.43	569.88	529.65	40.22	14.167	
7,100.00	7,095.52	7,068.81	7,035.93	20.25	22.32	32.10	-182.96	-637.43	572.90	532.46	40.44	14.167	
7,200.00	7,195.14	7,168.70	7,135.27	20.36	22.48	32.46	-185.97	-647.42	575.94	535.28	40.67	14.163	
7,300.00	7,294.76	7,268.59	7,234.61	20.49	22.65	32.82	-188.98	-657.42	579.01	538.11	40.91	14.155	
7,400.00	7,394.38	7,368.47	7,333.95	20.62	22.82	33.17	-191.99	-667.42	582.10	540.94	41.16	14.143	
7,500.00	7,494.00	7,468.36	7,433.29	20.76	23.00	33.52	-195.00	-677.42	585.21	543.79	41.42	14.128	
7,600.00	7,593.62	7,568.25	7,532.64	20.90	23.19	33.86	-198.02	-687.41	588.34	546.65	41.70	14.110	
7,700.00	7,693.24	7,668.14	7,631.98	21.06	23.38	34.21	-201.03	-697.41	591.50	549.51	41.98	14.088	
7,800.00	7,792.85	7,768.03	7,731.32	21.21	23.57	34.54	-204.04	-707.41	594.67	552.39	42.28	14.064	
7,900.00	7,892.47	7,867.92	7,830.66	21.37	23.77	34.88	-207.05	-717.41	597.87	555.27	42.59	14.037	
8,000.00	7,992.09	7,967.81	7,930.00	21.54	23.98	35.21	-210.06	-727.40	601.08	558.17	42.91	14.006	
8,100.00	8,091.71	8,067.69	8,029.34	21.72	24.19	35.53	-213.07	-737.40	604.32	561.07	43.25	13.974	
8,200.00	8,191.33	8,167.58	8,128.68	21.90	24.40	35.86	-216.08	-747.40	607.57	563.98	43.59	13.938	
8,300.00	8,290.95	8,268.28	8,228.83	22.08	24.62	36.18	-219.12	-757.47	610.84	566.90	43.95	13.900	
8,400.00	8,390.57	8,368.92	8,347.00	22.27	24.87	36.59	-222.12	-767.44	612.47	568.10	44.38	13.802	
8,500.00	8,490.19	8,505.51	8,465.40	22.46	25.10	37.06	-224.06	-773.89	611.08	566.29	44.79	13.643	
8,600.00	8,589.81	8,623.83	8,583.68	22.66	25.31	37.59	-224.94	-776.81	606.67	561.48	45.19	13.426	
8,700.00	8,689.43	8,729.58	8,689.43	22.87	25.48	38.13	-225.00	-777.00	599.95	554.38	45.57	13.167	
8,800.00	8,789.05	8,829.20	8,789.05	23.08	25.63	38.65	-225.00	-777.00	593.10	547.15	45.95	12.908	
8,900.00	8,888.67	8,928.82	8,888.67	23.29	25.79	39.18	-225.00	-777.00	586.31	539.37	46.34	12.652	
9,000.00	8,988.29	9,028.44	8,988.29	23.51	25.96	39.72	-225.00	-777.00	579.57	532.83	46.75	12.398	
9,100.00	9,087.91	9,128.06	9,087.91	23.73	26.13	40.28	-225.00	-777.00	572.88	525.73	47.16	12.148	
9,200.00	9,187.53	9,227.68	9,187.53	23.96	26.30	40.85	-225.00	-777.00	566.25	518.67	47.58	11.901	
9,300.00	9,287.15	9,327.30	9,287.15	24.19	26.48	41.43	-225.00	-777.00	559.68	511.57	48.01	11.658	
9,400.00	9,386.77	9,426.92	9,386.77	24.42	26.65	42.02	-225.00	-777.00	553.16	504.71	48.45	11.418	
9,461.82	9,448.35	9,488.51	9,448.35	24.57	26.77	42.40	-225.00	-777.00	549.16	500.44	48.72	11.271	
9,500.00	9,486.40	9,526.56	9,486.40	24.66	26.84	42.60	-225.00	-777.00	546.85	497.95	48.89	11.184	
9,600.00	9,586.19	9,626.35	9,586.19	24.89	27.02	43.01	-225.00	-777.00	542.14	492.80	49.34	10.988	
9,700.00	9,686.12	9,726.27	9,686.12	25.12	27.21	43.25	-225.00	-777.00	539.36	489.58	49.78	10.835	
9,795.16	9,781.26	9,821.42	9,781.26	25.32	27.40	-90.00	-225.00	-777.00	538.50	488.32	50.18	10.730	
9,800.00	9,786.11	9,826.26	9,786.11	25.33	27.41	-90.00	-225.00	-777.00	538.50	488.29	50.21	10.726	
9,900.00	9,886.11	9,926.26	9,886.11	25.54	27.61	-90.00	-225.00	-777.00	538.50	487.88	50.62	10.637	
10,000.00	9,986.11	10,026.26	9,986.11	25.74	27.81	-90.00	-225.00	-777.00	538.50	487.45	51.05	10.549	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey/Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 201H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG; 5481-MWD - OWSG; 12750-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		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)			
10,100.00	10,086.11	10,126.26	10,086.11	25.96	28.01	-90.00	-225.00	-777.00	538.50	487.02	51.48	10.461	
10,200.00	10,186.11	10,226.26	10,186.11	26.17	28.22	-90.00	-225.00	-777.00	538.50	486.58	51.92	10.373	
10,300.00	10,286.11	10,326.26	10,286.11	26.39	28.43	-90.00	-225.00	-777.00	538.50	486.14	52.36	10.285	
10,400.00	10,386.11	10,426.26	10,386.11	26.61	28.64	-90.00	-225.00	-777.00	538.50	485.69	52.81	10.197	
10,500.00	10,486.11	10,526.26	10,486.11	26.83	28.85	-90.00	-225.00	-777.00	538.50	485.24	53.26	10.110	
10,600.00	10,586.11	10,626.26	10,586.11	27.05	29.07	-90.00	-225.00	-777.00	538.50	484.77	53.73	10.023	
10,700.00	10,686.11	10,726.26	10,686.11	27.28	29.29	-90.00	-225.00	-777.00	538.50	484.31	54.19	9.937	
10,800.00	10,786.11	10,826.26	10,786.11	27.52	29.52	-90.00	-225.00	-777.00	538.50	483.84	54.66	9.851	
10,900.00	10,886.11	10,926.26	10,886.11	27.75	29.74	-90.00	-225.00	-777.00	538.50	483.36	55.14	9.766	
11,000.00	10,986.11	11,026.26	10,986.11	27.99	29.97	-90.00	-225.00	-777.00	538.50	482.88	55.62	9.681	
11,100.00	11,086.11	11,126.26	11,086.11	28.23	30.20	-90.00	-225.00	-777.00	538.50	482.39	56.11	9.597	
11,200.00	11,186.11	11,226.26	11,186.11	28.47	30.44	-90.00	-225.00	-777.00	538.50	481.90	56.60	9.513	
11,300.00	11,286.11	11,326.26	11,286.11	28.71	30.67	-90.00	-225.00	-777.00	538.50	481.40	57.10	9.431	
11,400.00	11,386.11	11,426.26	11,386.11	28.96	30.91	-90.00	-225.00	-777.00	538.50	480.90	57.60	9.349	
11,500.00	11,486.11	11,526.26	11,486.11	29.21	31.15	-90.00	-225.00	-777.00	538.50	480.39	58.11	9.267	
11,600.00	11,586.11	11,626.26	11,586.11	29.46	31.40	-90.00	-225.00	-777.00	538.50	479.88	58.62	9.186	
11,700.00	11,686.11	11,726.26	11,686.11	29.71	31.64	-90.00	-225.00	-777.00	538.50	479.37	59.13	9.106	
11,800.00	11,786.11	11,826.26	11,786.11	29.97	31.89	-90.00	-225.00	-777.00	538.50	478.85	59.65	9.027	
11,900.00	11,886.11	11,926.26	11,886.11	30.23	32.14	-90.00	-225.00	-777.00	538.50	478.32	60.18	8.949	
11,900.57	11,886.68	11,926.84	11,886.68	30.23	32.14	-90.00	-225.00	-777.00	538.50	478.32	60.18	8.948	
12,000.00	11,986.11	12,025.45	11,985.08	30.49	32.38	-89.47	-220.06	-777.03	538.55	477.84	60.71	8.871	
12,013.89	12,000.00	12,038.99	11,998.49	30.52	32.41	-89.27	-218.13	-777.04	538.58	477.80	60.79	8.860	
12,050.00	12,036.08	12,073.91	12,032.79	30.61	32.49	-88.20	-211.69	-777.07	538.71	477.73	60.96	8.834	
12,100.00	12,085.78	12,121.74	12,079.03	30.74	32.59	-87.41	-199.50	-777.13	538.96	477.73	61.23	8.802	
12,150.00	12,134.83	12,159.01	12,123.57	30.85	32.68	-86.64	-183.71	-777.22	539.29	477.82	61.47	8.774	
12,200.00	12,182.85	12,215.76	12,166.19	30.96	32.76	-85.90	-164.53	-777.32	539.68	478.00	61.68	8.749	
12,250.00	12,229.48	12,262.02	12,206.69	31.06	32.84	-85.19	-142.20	-777.43	540.13	478.25	61.88	8.728	
12,300.00	12,274.37	12,307.83	12,244.89	31.16	32.90	-84.52	-116.94	-777.57	540.62	478.55	62.06	8.711	
12,350.00	12,317.16	12,353.22	12,280.64	31.24	32.96	-83.89	-88.98	-777.71	541.13	478.90	62.23	8.695	
12,400.00	12,357.54	12,398.25	12,313.79	31.32	33.02	-83.31	-58.53	-777.87	541.65	479.26	62.39	8.682	
12,450.00	12,395.20	12,442.93	12,344.23	31.38	33.07	-82.77	-25.84	-778.04	542.16	479.61	62.54	8.668	
12,500.00	12,429.85	12,487.32	12,371.86	31.45	33.11	-82.29	8.89	-778.22	542.64	479.94	62.70	8.655	
12,550.00	12,461.23	12,531.44	12,396.57	31.50	33.15	-81.85	45.42	-778.42	543.08	480.23	62.85	8.641	
12,600.00	12,489.10	12,575.32	12,418.30	31.56	33.19	-81.48	83.54	-778.62	543.47	480.45	63.03	8.623	
12,650.00	12,513.25	12,619.02	12,436.96	31.64	33.24	-81.16	123.03	-778.82	543.80	480.59	63.21	8.603	
12,700.00	12,533.50	12,662.55	12,452.52	31.75	33.29	-80.90	163.68	-779.04	544.05	480.63	63.42	8.579	
12,750.00	12,549.68	12,705.95	12,464.91	31.88	33.36	-80.70	205.26	-779.25	544.21	480.57	63.64	8.551	
12,800.00	12,561.66	12,751.20	12,474.07	32.03	33.63	-80.56	247.43	-779.47	544.29	480.42	63.87	8.522	
12,813.89	12,564.25	12,763.00	12,476.48	37.24	38.64	-80.54	261.11	-779.55	544.27	480.35	63.92	8.515	
12,838.89	12,568.59	12,786.78	12,480.54	37.26	38.67	-80.53	284.54	-779.67	544.20	480.20	64.00	8.503	
12,850.00	12,570.46	12,796.83	12,482.12	37.26	38.67	-80.52	294.46	-779.73	544.19	480.15	64.04	8.498	
12,900.00	12,577.27	12,842.05	12,487.90	37.29	38.72	-80.48	339.31	-780.00	544.15	479.91	64.24	8.471	
12,950.00	12,581.49	12,867.26	12,491.55	37.32	38.76	-80.47	384.37	-780.33	544.11	479.63	64.48	8.438	
13,000.00	12,583.09	12,932.47	12,493.06	37.35	38.81	-80.48	429.55	-780.70	544.08	479.31	64.77	8.400	
13,004.68	12,583.10	12,947.60	12,493.11	37.35	38.83	-80.48	433.23	-780.73	544.08	479.24	64.84	8.391	
13,005.58	12,583.10	12,946.70	12,493.11	37.35	38.83	-80.48	434.13	-780.74	544.08	479.24	64.84	8.391	
13,100.00	12,583.10	13,031.48	12,493.10	37.40	38.94	-80.48	528.55	-781.58	544.11	478.62	65.49	8.309	
13,200.00	12,583.10	13,131.48	12,493.10	37.47	39.08	-80.48	629.54	-782.47	544.14	477.79	66.35	8.201	
13,300.00	12,583.10	13,231.48	12,493.10	37.54	39.26	-80.48	728.54	-783.36	544.17	476.81	67.36	8.079	
13,400.00	12,583.09	13,331.48	12,493.10	37.62	39.46	-80.48	828.54	-784.24	544.21	475.69	68.51	7.943	
13,500.00	12,583.09	13,431.48	12,493.09	37.72	39.71	-80.48	928.53	-785.13	544.24	474.44	69.80	7.797	
13,600.00	12,583.09	13,531.48	12,493.09	37.84	40.02	-80.48	1,028.53	-786.02	544.27	473.05	71.22	7.642	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 201H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5481-MWD - OWSG, 12750-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	12,583.09	13,631.48	12,493.09	38.03	40.38	-80.48	1,128.52	-786.91	544.30	471.55	72.76	7.481		
13,800.00	12,583.08	13,731.48	12,493.09	38.35	40.82	-80.48	1,228.52	-787.80	544.34	469.93	74.41	7.316		
13,900.00	12,583.08	13,831.48	12,493.08	38.89	41.35	-80.48	1,328.52	-788.69	544.37	468.21	76.17	7.147		
14,000.00	12,583.08	13,931.48	12,493.08	39.64	41.96	-80.48	1,428.51	-789.58	544.40	466.38	78.02	6.978		
14,100.00	12,583.08	14,031.48	12,493.08	40.53	42.67	-80.49	1,528.51	-790.47	544.44	464.47	79.97	6.808		
14,200.00	12,583.07	14,131.48	12,493.08	41.51	43.46	-80.49	1,628.51	-791.35	544.47	462.47	82.00	6.640		
14,300.00	12,583.07	14,231.48	12,493.07	42.54	44.32	-80.49	1,728.50	-792.24	544.50	460.39	84.11	6.474		
14,400.00	12,583.07	14,331.48	12,493.07	43.62	45.26	-80.49	1,828.50	-793.13	544.53	458.24	86.30	6.310		
14,500.00	12,583.07	14,431.48	12,493.07	44.75	46.26	-80.49	1,928.49	-794.02	544.57	456.02	88.55	6.150		
14,600.00	12,583.06	14,531.48	12,493.07	45.91	47.31	-80.49	2,028.49	-794.91	544.60	453.74	90.86	5.994		
14,700.00	12,583.06	14,631.48	12,493.06	47.10	48.41	-80.49	2,128.49	-795.80	544.63	451.40	93.24	5.841		
14,800.00	12,583.06	14,731.48	12,493.06	48.32	49.55	-80.49	2,228.48	-796.69	544.67	449.00	95.66	5.694		
14,900.00	12,583.06	14,831.48	12,493.06	49.57	50.73	-80.49	2,328.48	-797.58	544.70	446.56	98.14	5.550		
15,000.00	12,583.06	14,931.48	12,493.06	50.84	51.94	-80.49	2,428.47	-798.46	544.73	444.07	100.66	5.411		
15,100.00	12,583.05	15,031.48	12,493.05	52.14	53.18	-80.49	2,528.47	-799.35	544.76	441.54	103.23	5.277		
15,200.00	12,583.05	15,131.48	12,493.05	53.45	54.45	-80.49	2,628.47	-800.24	544.80	438.96	105.83	5.148		
15,300.00	12,583.05	15,231.48	12,493.05	54.78	55.74	-80.49	2,728.46	-801.13	544.83	436.35	108.48	5.023		
15,400.00	12,583.05	15,331.48	12,493.05	56.14	57.05	-80.49	2,828.46	-802.02	544.86	433.71	111.15	4.902		
15,500.00	12,583.04	15,431.48	12,493.04	57.50	58.38	-80.49	2,928.45	-802.91	544.90	431.03	113.86	4.786		
15,600.00	12,583.04	15,531.48	12,493.04	58.89	59.73	-80.49	3,028.45	-803.80	544.93	428.33	116.60	4.674		
15,700.00	12,583.04	15,631.48	12,493.04	60.28	61.10	-80.49	3,128.45	-804.69	544.96	425.60	119.36	4.566		
15,800.00	12,583.04	15,731.48	12,493.04	61.69	62.48	-80.49	3,228.44	-805.57	544.99	422.84	122.15	4.462		
15,900.00	12,583.03	15,831.48	12,493.03	63.12	63.88	-80.50	3,328.44	-806.46	545.03	420.06	124.97	4.361		
16,000.00	12,583.03	15,931.48	12,493.03	64.55	65.29	-80.50	3,428.43	-807.35	545.06	417.25	127.81	4.265		
16,100.00	12,583.03	16,031.48	12,493.03	66.00	66.71	-80.50	3,528.43	-808.24	545.09	414.43	130.66	4.172		
16,200.00	12,583.03	16,131.48	12,493.03	67.45	68.14	-80.50	3,628.43	-809.13	545.13	411.58	133.54	4.082		
16,300.00	12,583.02	16,231.48	12,493.02	68.91	69.59	-80.50	3,728.42	-810.02	545.16	408.72	136.44	3.996		
16,400.00	12,583.02	16,331.48	12,493.02	70.39	71.04	-80.50	3,828.42	-810.91	545.19	405.84	139.35	3.912		
16,500.00	12,583.02	16,431.48	12,493.02	71.87	72.51	-80.50	3,928.41	-811.80	545.22	402.94	142.28	3.832		
16,600.00	12,583.02	16,531.48	12,493.02	73.35	73.96	-80.50	4,028.41	-812.68	545.26	400.03	145.22	3.755		
16,700.00	12,583.01	16,631.48	12,493.02	74.85	75.46	-80.50	4,128.41	-813.57	545.29	397.11	148.16	3.680		
16,800.00	12,583.01	16,731.48	12,493.01	76.35	76.95	-80.50	4,228.40	-814.46	545.32	394.17	151.15	3.608		
16,900.00	12,583.01	16,831.48	12,493.01	77.86	78.44	-80.50	4,328.40	-815.35	545.36	391.22	154.14	3.538		
17,000.00	12,583.01	16,931.48	12,493.01	79.38	79.94	-80.50	4,428.39	-816.24	545.39	388.25	157.14	3.471		
17,100.00	12,583.01	17,031.48	12,493.01	80.90	81.45	-80.50	4,528.39	-817.13	545.42	385.28	160.14	3.406		
17,200.00	12,583.00	17,131.48	12,493.00	82.42	82.97	-80.50	4,628.39	-818.02	545.45	382.29	163.16	3.343		
17,309.83	12,583.00	17,241.31	12,493.00	84.10	84.63	-80.50	4,738.22	-818.99	545.49	379.00	166.49	3.276 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
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 202H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD: OWSG, 5491-MWD: OWSG, 12740-MWD: OWSG												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.44	19.00	1,938.00	1,938.36				
100.00	100.00	68.00	68.00	0.13	0.09	89.44	19.00	1,938.00	1,938.09	1,937.88	0.21	9,065.291	
200.00	200.00	168.00	168.00	0.49	0.37	89.44	19.00	1,938.00	1,938.09	1,937.24	0.86	2,262.153	
300.00	300.00	268.00	268.00	0.84	0.73	89.44	19.00	1,938.00	1,938.09	1,936.52	1.57	1,231.559	
400.00	400.00	368.00	368.00	1.20	1.09	89.44	19.00	1,938.00	1,938.09	1,935.80	2.29	846.095	
500.00	500.00	468.00	468.00	1.56	1.45	89.44	19.00	1,938.00	1,938.09	1,935.09	3.01	644.404	
600.00	600.00	568.00	568.00	1.92	1.80	89.44	19.00	1,938.00	1,938.09	1,934.37	3.72	520.361	
700.00	700.00	734.14	734.11	2.28	2.39	89.45	18.43	1,935.72	1,936.93	1,932.27	4.66	415.480	
800.00	800.00	930.71	930.30	2.64	3.07	89.54	15.51	1,924.12	1,931.02	1,925.33	5.69	339.236	
900.00	900.00	1,096.78	1,095.40	3.00	3.68	89.66	11.16	1,906.83	1,920.37	1,913.75	6.62	289.959	
1,000.00	1,000.00	1,203.96	1,193.91	3.35	4.09	89.75	8.22	1,895.10	1,908.53	1,901.17	7.36	259.286	
1,100.00	1,100.00	1,304.71	1,292.43	3.71	4.47	89.84	5.27	1,883.37	1,896.70	1,888.62	8.08	234.794	
1,200.00	1,200.00	1,405.45	1,390.94	4.07	4.87	89.93	2.32	1,871.63	1,884.87	1,876.07	8.80	214.239	
1,300.00	1,300.00	1,506.20	1,489.46	4.43	5.26	90.02	-0.63	1,859.90	1,873.04	1,863.52	9.52	196.759	
1,400.00	1,400.00	1,606.94	1,587.97	4.79	5.66	90.11	-3.58	1,848.17	1,861.22	1,850.98	10.24	181.718	
1,500.00	1,500.00	1,707.69	1,686.49	5.15	6.06	90.20	-6.53	1,836.44	1,849.40	1,838.44	10.97	168.642	
1,600.00	1,600.00	1,808.43	1,785.00	5.50	6.46	90.30	-9.48	1,824.71	1,837.59	1,825.90	11.69	157.174	
1,700.00	1,700.00	1,909.18	1,883.52	5.86	6.86	90.39	-12.43	1,812.98	1,825.79	1,813.37	12.42	147.036	
1,800.00	1,800.00	2,009.92	1,982.03	6.22	7.26	90.49	-15.37	1,801.25	1,813.98	1,800.84	13.14	138.010	
1,900.00	1,900.00	2,089.33	2,060.55	6.58	7.58	90.59	-18.32	1,789.52	1,802.19	1,788.40	13.79	130.665	
2,000.00	2,000.00	2,188.58	2,179.06	6.94	7.98	90.69	-21.27	1,777.79	1,790.40	1,775.88	14.51	123.352	
2,100.00	2,100.00	2,287.84	2,277.58	7.30	8.38	90.79	-24.22	1,766.05	1,778.61	1,763.37	15.24	116.729	
2,200.00	2,200.00	2,387.09	2,376.09	7.66	8.78	90.89	-27.17	1,754.32	1,766.83	1,750.87	15.96	110.703	
2,300.00	2,300.00	2,486.35	2,474.61	8.01	9.18	90.99	-30.12	1,742.59	1,755.06	1,738.37	16.68	105.197	
2,400.00	2,400.00	2,585.60	2,573.12	8.37	9.58	91.09	-33.07	1,730.86	1,743.29	1,725.88	17.41	100.147	
2,500.00	2,500.00	2,684.86	2,671.64	8.73	9.99	91.20	-36.02	1,719.13	1,731.52	1,713.39	18.13	95.499	
2,600.00	2,600.00	2,784.11	2,770.15	9.09	10.39	91.31	-38.97	1,707.40	1,719.77	1,700.91	18.86	91.206	
2,700.00	2,700.00	2,883.37	2,868.67	9.45	10.79	91.42	-41.91	1,695.67	1,708.01	1,688.43	19.58	87.230	
2,800.00	2,800.00	2,982.62	2,967.18	9.81	11.19	91.53	-44.86	1,683.94	1,696.27	1,675.96	20.31	83.537	
2,900.00	2,900.00	3,081.88	3,065.70	10.16	11.60	91.64	-47.81	1,672.20	1,684.53	1,663.50	21.03	80.098	
3,000.00	3,000.00	3,181.13	3,164.21	10.52	12.00	91.75	-50.76	1,660.47	1,672.80	1,651.04	21.76	76.888	
3,100.00	3,100.00	3,280.39	3,262.72	10.88	12.40	91.87	-53.71	1,648.74	1,661.07	1,638.59	22.46	73.884	
3,200.00	3,200.00	3,379.64	3,361.24	11.24	12.81	91.98	-56.66	1,637.01	1,649.35	1,626.14	23.21	71.068	
3,300.00	3,300.00	3,478.89	3,459.75	11.60	13.21	92.10	-59.61	1,625.28	1,637.64	1,613.70	23.93	68.422	
3,400.00	3,400.00	3,578.15	3,558.27	11.96	13.62	92.22	-62.56	1,613.55	1,625.93	1,601.27	24.66	65.932	
3,500.00	3,500.00	3,677.40	3,656.78	12.32	14.02	92.34	-65.50	1,601.82	1,614.23	1,588.85	25.39	63.584	
3,600.00	3,600.00	3,776.66	3,755.30	12.67	14.42	92.47	-68.45	1,590.09	1,602.54	1,576.43	26.11	61.366	
3,700.00	3,700.00	3,875.91	3,853.81	13.03	14.83	92.59	-71.40	1,578.36	1,590.86	1,564.02	26.84	59.269	
3,800.00	3,800.00	3,975.17	3,952.33	13.39	15.23	92.72	-74.35	1,566.62	1,579.18	1,551.61	27.57	57.281	
3,900.00	3,900.00	4,074.42	4,050.84	13.75	15.64	92.85	-77.30	1,554.89	1,567.51	1,539.22	28.30	55.396	
4,000.00	4,000.00	4,173.68	4,149.36	14.11	16.04	92.98	-80.25	1,543.16	1,555.85	1,526.83	29.02	53.605	
4,100.00	4,100.00	4,272.93	4,247.87	14.47	16.45	93.11	-83.20	1,531.43	1,544.20	1,514.45	29.75	51.902	
4,200.00	4,200.00	4,372.19	4,346.39	14.82	16.85	93.24	-86.15	1,519.70	1,532.56	1,502.08	30.48	50.280	
4,300.00	4,300.00	4,471.44	4,444.90	15.18	17.26	93.38	-89.10	1,507.97	1,520.92	1,489.71	31.21	48.733	
4,400.00	4,400.00	4,570.70	4,543.42	15.54	17.66	93.52	-92.04	1,496.24	1,509.29	1,477.36	31.94	47.257	
4,500.00	4,500.00	4,669.95	4,641.93	15.90	18.07	93.66	-94.99	1,484.51	1,497.66	1,465.01	32.67	45.847	
4,600.00	4,600.00	4,769.20	4,740.45	16.26	18.47	93.80	-97.94	1,472.78	1,486.07	1,452.67	33.40	44.498	
4,700.00	4,700.00	4,868.46	4,838.96	16.62	18.88	93.95	-100.89	1,461.04	1,474.47	1,440.34	34.13	43.207	
4,800.00	4,800.00	4,967.71	4,937.48	16.98	19.28	94.10	-103.84	1,449.31	1,462.86	1,428.02	34.86	41.970	
4,900.00	4,900.00	5,066.97	5,035.99	17.33	19.69	94.25	-106.79	1,437.58	1,451.30	1,415.71	35.58	40.784	
5,000.00	5,000.00	5,166.22	5,134.51	17.69	20.09	94.40	-109.74	1,425.85	1,439.73	1,403.41	36.32	39.645	
5,100.00	5,100.00	5,265.48	5,233.02	18.05	20.50	94.56	-112.69	1,414.12	1,428.17	1,391.12	37.05	38.552	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 202H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG												Offset Well Error:	0.00 usft
Reference	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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
5,200.00	5,200.00	5,364.73	5,331.54	18.41	20.90	94.71	-115.03	1,402.39	1,416.62	1,378.84	37.78	37.500	
5,300.00	5,300.00	5,463.99	5,430.05	18.77	21.20	94.87	-118.58	1,390.66	1,405.08	1,366.69	38.39	36.599	
5,400.00	5,400.00	5,563.24	5,528.57	19.13	21.34	95.04	-121.53	1,378.93	1,393.55	1,354.72	38.83	35.889	
5,500.00	5,500.00	5,662.50	5,627.08	19.31	21.42	95.20	-124.48	1,367.19	1,382.04	1,343.00	39.03	35.408	
5,600.00	5,600.00	5,761.75	5,725.59	19.31	21.50	95.37	-127.43	1,355.46	1,370.53	1,331.46	39.07	35.079	
5,700.00	5,700.00	5,861.01	5,824.11	19.33	21.60	95.54	-130.38	1,343.73	1,359.04	1,319.92	39.12	34.739	
5,800.00	5,799.99	5,960.39	5,922.75	19.35	21.70	-131.12	-133.33	1,331.99	1,348.41	1,309.23	39.19	34.411	
5,900.00	5,899.91	6,059.98	6,021.60	19.37	21.81	-131.17	-136.29	1,320.21	1,339.50	1,300.24	39.26	34.119	
6,000.00	5,999.69	6,159.72	6,120.59	19.40	21.92	-131.28	-139.25	1,308.43	1,332.31	1,292.97	39.34	33.863	
6,033.33	6,032.91	6,192.98	6,153.61	19.41	21.96	-131.34	-140.24	1,304.50	1,330.30	1,290.92	39.38	33.785	
6,100.00	6,099.32	6,259.52	6,219.65	19.44	22.05	-131.41	-142.22	1,296.63	1,326.46	1,287.02	39.44	33.630	
6,200.00	6,198.94	6,359.32	6,318.71	19.49	22.18	-131.52	-145.18	1,284.84	1,320.71	1,281.16	39.55	33.390	
6,300.00	6,298.56	6,459.12	6,417.77	19.54	22.31	-131.62	-148.15	1,273.04	1,314.97	1,275.29	39.68	33.140	
6,400.00	6,398.18	6,558.93	6,516.83	19.61	22.46	-131.73	-151.11	1,261.24	1,309.23	1,269.41	39.82	32.880	
6,500.00	6,497.80	6,658.73	6,615.89	19.68	22.61	-131.84	-154.08	1,249.45	1,303.50	1,263.53	39.97	32.612	
6,600.00	6,597.42	6,758.54	6,714.95	19.75	22.76	-131.95	-157.04	1,237.65	1,297.77	1,257.63	40.14	32.335	
6,700.00	6,697.04	6,858.34	6,814.01	19.84	22.93	-132.07	-160.01	1,225.85	1,292.05	1,251.73	40.31	32.050	
6,800.00	6,796.66	6,958.14	6,913.07	19.93	23.09	-132.18	-162.97	1,214.06	1,286.33	1,245.82	40.51	31.757	
6,900.00	6,896.28	7,057.95	7,012.13	20.03	23.27	-132.29	-165.94	1,202.26	1,280.61	1,239.90	40.71	31.458	
7,000.00	6,995.90	7,157.75	7,111.19	20.13	23.45	-132.41	-168.90	1,190.47	1,274.90	1,233.98	40.93	31.152	
7,100.00	6,995.52	7,257.56	7,210.25	20.25	23.64	-132.53	-171.87	1,178.67	1,269.20	1,228.05	41.15	30.840	
7,200.00	7,195.14	7,357.36	7,309.31	20.36	23.83	-132.64	-174.83	1,166.87	1,263.50	1,222.11	41.39	30.523	
7,300.00	7,294.76	7,457.16	7,408.37	20.49	24.02	-132.76	-177.80	1,155.08	1,257.81	1,216.16	41.65	30.201	
7,400.00	7,394.38	7,556.97	7,507.43	20.62	24.23	-132.88	-180.77	1,143.26	1,252.12	1,210.21	41.91	29.875	
7,500.00	7,494.00	7,656.77	7,606.49	20.76	24.43	-133.00	-183.73	1,131.49	1,246.44	1,204.25	42.19	29.545	
7,600.00	7,593.62	7,756.58	7,705.55	20.90	24.65	-133.12	-186.70	1,119.69	1,240.76	1,198.29	42.47	29.212	
7,700.00	7,693.24	7,856.38	7,804.61	21.06	24.86	-133.25	-189.66	1,107.89	1,235.09	1,192.32	42.77	28.877	
7,800.00	7,792.85	7,956.18	7,903.67	21.21	25.09	-133.37	-192.63	1,096.10	1,229.42	1,186.34	43.08	28.539	
7,900.00	7,892.47	8,055.99	8,002.73	21.37	25.31	-133.49	-195.50	1,084.30	1,223.76	1,180.37	43.40	28.199	
8,000.00	7,992.09	8,155.79	8,101.79	21.54	25.54	-133.62	-198.56	1,072.51	1,218.11	1,174.38	43.73	27.857	
8,100.00	8,091.71	8,255.59	8,200.85	21.72	25.78	-133.75	-201.52	1,060.71	1,212.46	1,168.40	44.07	27.515	
8,200.00	8,191.33	8,355.06	8,296.60	21.90	26.01	-133.87	-204.38	1,049.32	1,206.84	1,162.43	44.41	27.174	
8,300.00	8,290.95	8,454.79	8,392.86	22.08	26.19	-133.99	-206.42	1,041.21	1,202.44	1,157.69	44.75	26.870	
8,400.00	8,390.57	8,554.58	8,449.35	22.27	26.36	-134.12	-208.09	1,034.58	1,199.97	1,154.89	45.08	26.617	
8,477.55	8,467.83	8,565.14	8,508.76	22.42	26.48	-134.24	-209.12	1,030.47	1,199.39	1,154.05	45.34	26.455 CC	
8,500.00	8,490.19	8,582.38	8,525.97	22.46	26.52	-134.28	-209.38	1,029.44	1,199.43	1,154.03	45.41	26.414	
8,600.00	8,589.81	8,659.12	8,602.62	22.66	26.66	-134.46	-210.30	1,025.80	1,200.84	1,155.11	45.73	26.260	
8,700.00	8,689.42	8,735.76	8,679.22	22.87	26.80	-134.65	-210.83	1,023.66	1,204.20	1,158.16	46.04	26.156	
8,800.00	8,789.05	8,813.59	8,757.05	23.08	26.93	-134.87	-211.00	1,023.00	1,209.49	1,163.15	46.34	26.098	
8,900.00	8,888.67	8,913.21	8,856.07	23.29	27.08	-135.17	-211.00	1,023.00	1,215.87	1,168.96	46.71	26.027	
9,000.00	8,988.29	9,012.83	8,956.29	23.51	27.23	-135.45	-211.00	1,023.00	1,221.88	1,174.80	47.06	25.953	
9,100.00	9,087.91	9,112.45	9,055.91	23.73	27.39	-135.74	-211.00	1,023.00	1,228.12	1,180.66	47.46	25.877	
9,200.00	9,187.53	9,212.07	9,155.53	23.96	27.56	-136.02	-211.00	1,023.00	1,234.38	1,186.54	47.85	25.798	
9,300.00	9,287.15	9,311.69	9,255.15	24.19	27.72	-136.30	-211.00	1,023.00	1,240.68	1,192.44	48.24	25.716	
9,400.00	9,386.77	9,411.31	9,354.77	24.42	27.90	-136.57	-211.00	1,023.00	1,247.01	1,198.36	48.65	25.633	
9,461.82	9,448.35	9,472.90	9,416.35	24.57	28.00	-136.74	-211.00	1,023.00	1,250.93	1,202.03	48.90	25.580	
9,500.00	9,486.40	9,510.94	9,454.40	24.66	28.07	-136.87	-211.00	1,023.00	1,253.22	1,204.16	49.06	25.544	
9,600.00	9,586.19	9,610.73	9,554.19	24.89	28.25	-137.11	-211.00	1,023.00	1,257.92	1,208.44	49.48	25.424	
9,700.00	9,686.12	9,710.66	9,654.12	25.12	28.43	-137.26	-211.00	1,023.00	1,260.71	1,210.81	49.90	25.264	
9,795.16	9,781.25	9,805.81	9,749.26	25.32	28.60	89.36	-211.00	1,023.00	1,261.58	1,211.28	50.30	25.081	
9,800.00	9,786.11	9,810.65	9,754.11	25.33	28.61	89.36	-211.00	1,023.00	1,261.58	1,211.25	50.32	25.071	
9,900.00	9,886.11	9,910.55	9,854.11	25.54	28.80	89.36	-211.00	1,023.00	1,261.58	1,210.84	50.74	24.866	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 202H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: O-MWD - OWSG, 5491-MWD - OWSG, 12745-MWD - OWSG												Offset Well Error:	0.00 usft
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
10,000.00	9,986.11	10,010.65	9,954.11	25.74	28.99	89.36	-211.00	1,023.00	1,261.58	1,210.42	51.16	24.660	
10,100.00	10,086.11	10,110.65	10,054.11	25.96	29.19	89.36	-211.00	1,023.00	1,261.58	1,209.99	51.59	24.456	
10,200.00	10,186.11	10,210.65	10,154.11	26.17	29.39	89.36	-211.00	1,023.00	1,261.58	1,209.56	52.02	24.251	
10,300.00	10,286.11	10,310.65	10,254.11	26.39	29.59	89.36	-211.00	1,023.00	1,261.58	1,209.11	52.46	24.047	
10,400.00	10,386.11	10,410.65	10,354.11	26.61	29.79	89.36	-211.00	1,023.00	1,261.58	1,208.67	52.91	23.844	
10,500.00	10,486.11	10,510.65	10,454.11	26.83	30.00	89.36	-211.00	1,023.00	1,261.58	1,208.21	53.36	23.641	
10,600.00	10,586.11	10,610.65	10,554.11	27.05	30.21	89.36	-211.00	1,023.00	1,261.58	1,207.76	53.82	23.440	
10,700.00	10,686.11	10,710.65	10,654.11	27.28	30.42	89.36	-211.00	1,023.00	1,261.58	1,207.29	54.29	23.239	
10,800.00	10,786.11	10,810.65	10,754.11	27.52	30.63	89.36	-211.00	1,023.00	1,261.58	1,206.82	54.76	23.040	
10,900.00	10,886.11	10,910.65	10,854.11	27.75	30.85	89.36	-211.00	1,023.00	1,261.58	1,206.35	55.23	22.842	
11,000.00	10,986.11	11,010.65	10,954.11	27.99	31.07	89.36	-211.00	1,023.00	1,261.58	1,205.87	55.71	22.645	
11,100.00	11,086.11	11,110.65	11,054.11	28.23	31.29	89.36	-211.00	1,023.00	1,261.58	1,205.38	56.20	22.449	
11,200.00	11,186.11	11,210.65	11,154.11	28.47	31.52	89.36	-211.00	1,023.00	1,261.58	1,204.89	56.69	22.255	
11,300.00	11,286.11	11,310.65	11,254.11	28.71	31.75	89.36	-211.00	1,023.00	1,261.58	1,204.39	57.18	22.062	
11,400.00	11,386.11	11,410.65	11,354.11	28.96	31.98	89.36	-211.00	1,023.00	1,261.58	1,203.89	57.68	21.871	
11,500.00	11,486.11	11,510.65	11,454.11	29.21	32.21	89.36	-211.00	1,023.00	1,261.58	1,203.39	58.19	21.681	
11,600.00	11,586.11	11,610.65	11,554.11	29.46	32.44	89.36	-211.00	1,023.00	1,261.58	1,202.88	58.70	21.493	
11,700.00	11,686.11	11,710.65	11,654.11	29.71	32.68	89.36	-211.00	1,023.00	1,261.58	1,202.37	59.21	21.307	
11,800.00	11,786.11	11,810.65	11,754.11	29.97	32.92	89.36	-211.00	1,023.00	1,261.58	1,201.85	59.73	21.123	
11,900.00	11,886.11	11,910.65	11,854.11	30.23	33.16	89.36	-211.00	1,023.00	1,261.58	1,201.33	60.25	20.940	
11,907.67	11,893.76	11,918.32	11,861.78	30.25	33.18	89.36	-211.00	1,023.00	1,261.58	1,201.29	60.29	20.926	
12,000.00	11,986.11	12,009.58	11,952.91	30.49	33.39	89.21	-207.54	1,022.98	1,261.60	1,200.85	60.76	20.765	
12,013.89	12,000.00	12,023.09	11,966.32	30.52	33.43	89.13	-205.89	1,022.97	1,261.62	1,200.80	60.82	20.742	
12,050.00	12,036.08	12,057.97	12,000.72	30.61	33.50	89.41	-200.20	1,022.94	1,261.68	1,200.69	60.99	20.686	
12,100.00	12,085.78	12,105.82	12,047.24	30.74	33.60	89.11	-189.00	1,022.88	1,261.80	1,200.59	61.21	20.614	
12,150.00	12,134.83	12,153.20	12,092.21	30.85	33.69	88.83	-174.13	1,022.81	1,261.97	1,200.55	61.42	20.547	
12,200.00	12,182.85	12,200.12	12,135.38	30.96	33.77	88.55	-155.80	1,022.71	1,262.17	1,200.56	61.61	20.485	
12,250.00	12,229.46	12,246.53	12,176.55	31.06	33.85	88.29	-134.20	1,022.60	1,262.41	1,200.61	61.80	20.428	
12,300.00	12,274.37	12,292.75	12,215.52	31.16	33.91	88.03	-109.55	1,022.47	1,262.67	1,200.70	61.98	20.374	
12,350.00	12,317.16	12,338.51	12,252.10	31.24	33.97	87.80	-82.07	1,022.32	1,262.96	1,200.81	62.15	20.322	
12,400.00	12,357.54	12,383.96	12,286.15	31.32	34.02	87.57	-51.99	1,022.17	1,263.26	1,200.94	62.32	20.272	
12,450.00	12,395.20	12,429.11	12,317.51	31.38	34.07	87.37	-19.51	1,022.00	1,263.57	1,201.08	62.49	20.221	
12,500.00	12,429.85	12,474.02	12,346.06	31.45	34.11	87.18	15.13	1,021.82	1,263.88	1,201.22	62.66	20.170	
12,550.00	12,461.23	12,518.59	12,371.69	31.50	34.15	87.02	51.70	1,021.62	1,264.18	1,201.34	62.84	20.117	
12,600.00	12,489.10	12,563.18	12,394.30	31.56	34.19	86.87	90.00	1,021.42	1,264.48	1,201.45	63.03	20.062	
12,650.00	12,513.25	12,607.50	12,413.81	31.64	34.23	86.74	129.79	1,021.22	1,264.76	1,201.53	63.23	20.002	
12,700.00	12,533.50	12,651.70	12,430.15	31.75	34.28	86.64	170.84	1,021.00	1,265.03	1,201.58	63.45	19.938	
12,750.00	12,549.68	12,695.80	12,443.24	31.88	34.33	86.56	212.94	1,020.78	1,265.27	1,201.59	63.68	19.869	
12,800.00	12,561.68	12,739.83	12,453.05	32.03	34.77	86.51	255.85	1,020.56	1,265.49	1,201.58	63.91	19.802	
12,813.89	12,564.25	12,752.30	12,455.34	37.24	39.52	86.49	268.62	1,020.49	1,265.54	1,201.58	63.98	19.786	
12,838.89	12,568.59	12,777.48	12,459.61	37.26	39.55	86.49	292.93	1,020.36	1,265.62	1,201.57	64.05	19.760	
12,850.00	12,570.46	12,788.02	12,461.32	37.26	39.56	86.49	303.33	1,020.30	1,265.66	1,201.57	64.09	19.748	
12,900.00	12,577.27	12,835.45	12,467.58	37.29	39.61	86.47	350.34	1,020.02	1,265.79	1,201.49	64.30	19.686	
12,950.00	12,581.49	12,882.88	12,471.50	37.32	39.66	86.46	397.60	1,019.68	1,265.86	1,201.32	64.55	19.612	
13,000.00	12,583.09	12,930.30	12,473.07	37.35	39.72	86.47	444.99	1,019.29	1,265.88	1,201.05	64.83	19.526	
13,005.58	12,583.10	12,941.09	12,473.11	37.35	39.74	86.47	450.14	1,019.24	1,265.88	1,201.00	64.88	19.511	
13,100.00	12,583.10	13,029.87	12,473.10	37.40	39.86	86.47	544.55	1,018.40	1,265.84	1,200.29	65.55	19.310	
13,200.00	12,583.10	13,129.87	12,473.10	37.47	40.03	86.47	644.55	1,017.51	1,265.81	1,199.38	66.43	19.054	
13,300.00	12,583.10	13,229.87	12,473.10	37.54	40.23	86.47	744.54	1,016.63	1,265.76	1,198.32	67.46	18.763	
13,400.00	12,583.09	13,329.87	12,473.10	37.62	40.46	86.47	844.54	1,015.74	1,265.74	1,197.11	68.64	18.441	
13,500.00	12,583.09	13,429.87	12,473.09	37.72	40.74	86.47	944.54	1,014.85	1,265.71	1,195.76	69.95	18.095	
13,600.00	12,583.09	13,529.87	12,473.09	37.84	41.06	86.47	1,044.53	1,013.96	1,265.66	1,194.29	71.39	17.729	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 202H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5491-MWD - OWSG, 12746-MWD - OWSG												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,583.09	13,629.87	12,473.09	38.03	41.44	86.47	1,144.53	1,013.07	1,265.64	1,192.69	72.95	17.349	
13,800.00	12,583.08	13,729.87	12,473.09	38.35	41.89	86.47	1,244.52	1,012.18	1,265.61	1,190.98	74.63	16.958	
13,900.00	12,583.08	13,829.87	12,473.08	38.89	42.41	86.47	1,344.52	1,011.29	1,265.58	1,189.16	76.41	16.562	
14,000.00	12,583.08	13,929.87	12,473.08	39.64	43.01	86.47	1,444.52	1,010.40	1,265.54	1,187.24	78.30	16.163	
14,100.00	12,583.08	14,029.87	12,473.08	40.53	43.69	86.47	1,544.51	1,009.51	1,265.51	1,185.23	80.26	15.764	
14,200.00	12,583.07	14,129.87	12,473.08	41.51	44.44	86.47	1,644.51	1,008.62	1,265.47	1,183.14	82.34	15.369	
14,300.00	12,583.07	14,229.87	12,473.07	42.54	45.27	86.47	1,744.50	1,007.73	1,265.44	1,180.96	84.48	14.979	
14,400.00	12,583.07	14,329.87	12,473.07	43.62	46.16	86.47	1,844.50	1,006.84	1,265.41	1,178.71	86.70	14.596	
14,500.00	12,583.07	14,429.87	12,473.07	44.75	47.11	86.47	1,944.50	1,005.96	1,265.37	1,176.39	88.98	14.221	
14,600.00	12,583.06	14,529.87	12,473.07	45.91	48.12	86.47	2,044.49	1,005.07	1,265.34	1,174.01	91.33	13.855	
14,700.00	12,583.06	14,629.87	12,473.06	47.10	49.18	86.47	2,144.49	1,004.18	1,265.31	1,171.57	93.74	13.499	
14,800.00	12,583.06	14,729.87	12,473.06	48.32	50.29	86.47	2,244.48	1,003.29	1,265.27	1,169.08	96.19	13.153	
14,900.00	12,583.06	14,829.87	12,473.06	49.57	51.43	86.47	2,344.48	1,002.40	1,265.24	1,166.53	98.70	12.818	
15,000.00	12,583.06	14,929.87	12,473.06	50.84	52.61	86.47	2,444.48	1,001.51	1,265.21	1,163.95	101.26	12.495	
15,100.00	12,583.05	15,029.87	12,473.05	52.14	53.82	86.47	2,544.47	1,000.62	1,265.17	1,161.31	103.86	12.182	
15,200.00	12,583.05	15,129.87	12,473.05	53.45	55.06	86.47	2,644.47	999.73	1,265.14	1,158.64	106.50	11.879	
15,300.00	12,583.05	15,229.87	12,473.05	54.78	56.32	86.47	2,744.47	998.84	1,265.11	1,155.93	109.17	11.588	
15,400.00	12,583.05	15,329.87	12,473.05	56.14	57.61	86.47	2,844.46	997.95	1,265.07	1,153.19	111.88	11.307	
15,500.00	12,583.04	15,429.87	12,473.04	57.50	58.92	86.47	2,944.46	997.06	1,265.04	1,150.41	114.62	11.036	
15,600.00	12,583.04	15,529.87	12,473.04	58.89	60.25	86.46	3,044.45	996.17	1,265.00	1,147.61	117.39	10.776	
15,700.00	12,583.04	15,629.87	12,473.04	60.26	61.60	86.46	3,144.45	995.29	1,264.97	1,144.78	120.19	10.524	
15,800.00	12,583.04	15,729.87	12,473.04	61.69	62.97	86.46	3,244.45	994.40	1,264.94	1,141.92	123.02	10.283	
15,900.00	12,583.03	15,829.87	12,473.03	63.12	64.35	86.46	3,344.44	993.51	1,264.90	1,139.04	125.86	10.050	
16,000.00	12,583.03	15,929.87	12,473.03	64.55	65.74	86.46	3,444.44	992.62	1,264.87	1,136.13	128.73	9.825	
16,100.00	12,583.03	16,029.87	12,473.03	66.00	67.15	86.46	3,544.43	991.73	1,264.84	1,133.21	131.63	9.609	
16,200.00	12,583.03	16,129.87	12,473.03	67.45	68.57	86.46	3,644.43	990.84	1,264.80	1,130.27	134.54	9.401	
16,300.00	12,583.02	16,229.87	12,473.02	68.91	70.00	86.46	3,744.43	989.95	1,264.77	1,127.30	137.46	9.201	
16,400.00	12,583.02	16,329.87	12,473.02	70.39	71.45	86.46	3,844.42	989.06	1,264.74	1,124.33	140.41	9.007	
16,500.00	12,583.02	16,429.87	12,473.02	71.87	72.90	86.46	3,944.42	988.17	1,264.70	1,121.33	143.37	8.821	
16,600.00	12,583.02	16,529.87	12,473.02	73.35	74.36	86.46	4,044.41	987.26	1,264.67	1,118.32	146.35	8.641	
16,700.00	12,583.01	16,629.87	12,473.02	74.85	75.83	86.46	4,144.41	986.39	1,264.63	1,115.29	149.34	8.468	
16,800.00	12,583.01	16,729.87	12,473.01	76.35	77.31	86.46	4,244.41	985.50	1,264.60	1,112.26	152.34	8.301	
16,900.00	12,583.01	16,829.87	12,473.01	77.86	78.80	86.46	4,344.40	984.62	1,264.57	1,109.21	155.35	8.140	
17,000.00	12,583.01	16,929.87	12,473.01	79.38	80.29	86.46	4,444.40	983.73	1,264.53	1,106.14	158.39	7.984	
17,100.00	12,583.01	17,029.87	12,473.01	80.90	81.79	86.46	4,544.39	982.84	1,264.50	1,103.07	161.43	7.833	
17,200.00	12,583.00	17,129.87	12,473.00	82.42	83.30	86.46	4,644.39	981.95	1,264.47	1,099.99	164.48	7.688	
17,309.83	12,583.00	17,239.70	12,473.00	84.10	84.96	86.46	4,754.22	980.97	1,264.43	1,096.59	167.84	7.533 ES, SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 203H - OH - Prelim Plan B												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5492-MWD - OWSG, 12740-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)	•E-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	89.67	20.00	3,468.00	3,468.21				
100.00	100.00	68.00	68.00	0.13	0.09	89.67	20.00	3,468.00	3,468.06	3,467.84	0.21	N/A	
200.00	200.00	168.00	168.00	0.49	0.37	89.67	20.00	3,468.00	3,468.06	3,467.20	0.86	4,047.935	
300.00	300.00	268.00	268.00	0.84	0.73	89.67	20.00	3,468.00	3,468.06	3,466.48	1.57	2,203.774	
400.00	400.00	368.00	368.00	1.20	1.09	89.67	20.00	3,468.00	3,468.06	3,465.77	2.29	1,514.017	
500.00	500.00	468.00	468.00	1.56	1.45	89.67	20.00	3,468.00	3,468.06	3,465.05	3.01	1,153.107	
600.00	600.00	568.00	568.00	1.92	1.80	89.67	20.00	3,468.00	3,468.06	3,464.33	3.72	931.142	
700.00	700.00	668.00	668.00	2.28	2.16	89.67	20.00	3,468.00	3,468.06	3,463.62	4.44	780.837	
800.00	800.00	768.00	768.00	2.64	2.52	89.67	20.00	3,468.00	3,468.06	3,462.90	5.16	672.312	
900.00	900.00	868.00	868.00	3.00	2.88	89.67	20.00	3,468.00	3,468.06	3,462.18	5.88	590.273	
1,000.00	1,000.00	968.00	968.00	3.35	3.24	89.67	20.00	3,468.00	3,468.06	3,461.47	6.59	526.078	
1,100.00	1,100.00	1,068.00	1,068.00	3.71	3.60	89.67	20.00	3,468.00	3,468.06	3,460.75	7.31	474.476	
1,200.00	1,200.00	1,168.00	1,168.00	4.07	3.96	89.67	20.00	3,468.00	3,468.06	3,460.03	8.03	432.093	
1,300.00	1,300.00	1,689.42	1,688.09	4.43	5.80	89.62	22.77	3,436.88	3,462.53	3,452.38	10.15	341.128	
1,400.00	1,400.00	1,788.68	1,786.61	4.79	6.16	89.60	23.84	3,424.83	3,450.40	3,439.55	10.85	317.896	
1,500.00	1,500.00	1,887.93	1,885.12	5.15	6.53	89.58	24.91	3,412.76	3,438.27	3,426.71	11.56	297.410	
1,600.00	1,600.00	1,987.18	1,983.64	5.50	6.91	89.56	25.98	3,400.73	3,426.14	3,413.87	12.27	279.258	
1,700.00	1,700.00	2,086.44	2,082.15	5.86	7.28	89.54	27.05	3,388.68	3,414.00	3,401.03	12.98	263.058	
1,800.00	1,800.00	2,185.69	2,180.66	6.22	7.66	89.52	28.12	3,376.64	3,401.87	3,388.19	13.69	248.515	
1,900.00	1,900.00	2,284.95	2,279.18	6.58	8.05	89.50	29.19	3,364.59	3,389.74	3,375.34	14.40	235.390	
2,000.00	2,000.00	2,384.20	2,377.69	6.94	8.43	89.48	30.26	3,352.54	3,377.61	3,362.50	15.11	223.488	
2,100.00	2,100.00	2,483.46	2,476.21	7.30	8.82	89.46	31.33	3,340.49	3,365.48	3,349.66	15.83	212.647	
2,200.00	2,200.00	2,582.71	2,574.72	7.66	9.21	89.44	32.41	3,328.44	3,353.36	3,336.81	16.54	202.732	
2,300.00	2,300.00	2,681.97	2,673.24	8.01	9.60	89.42	33.48	3,316.39	3,341.23	3,323.97	17.26	193.631	
2,400.00	2,400.00	2,781.22	2,771.75	8.37	9.99	89.40	34.55	3,304.34	3,329.10	3,311.13	17.97	185.248	
2,500.00	2,500.00	2,880.48	2,870.27	8.73	10.38	89.38	35.62	3,292.30	3,316.97	3,298.28	18.69	177.502	
2,600.00	2,600.00	2,979.73	2,968.78	9.09	10.77	89.36	36.69	3,280.25	3,304.84	3,285.44	19.40	170.324	
2,700.00	2,700.00	3,078.99	3,067.30	9.45	11.17	89.34	37.76	3,268.20	3,292.72	3,272.60	20.12	163.653	
2,800.00	2,800.00	3,178.24	3,165.81	9.81	11.56	89.32	38.83	3,256.15	3,280.59	3,259.75	20.84	157.439	
2,900.00	2,900.00	3,277.49	3,264.33	10.16	11.95	89.30	39.90	3,244.10	3,268.46	3,246.91	21.55	151.636	
3,000.00	3,000.00	3,376.75	3,362.64	10.52	12.35	89.27	40.97	3,232.05	3,256.34	3,234.07	22.27	146.204	
3,100.00	3,100.00	3,476.00	3,461.36	10.88	12.75	89.25	42.04	3,220.00	3,244.21	3,221.22	22.99	141.111	
3,200.00	3,200.00	3,575.26	3,559.87	11.24	13.15	89.23	43.12	3,207.96	3,232.09	3,208.38	23.71	136.324	
3,300.00	3,300.00	3,674.51	3,659.39	11.60	13.55	89.21	44.19	3,195.91	3,219.96	3,195.54	24.43	131.817	
3,400.00	3,400.00	3,773.77	3,756.90	11.96	13.94	89.19	45.26	3,183.86	3,207.84	3,182.69	25.15	127.567	
3,500.00	3,500.00	3,873.02	3,855.42	12.32	14.34	89.16	46.33	3,171.81	3,195.72	3,169.85	25.87	123.553	
3,600.00	3,600.00	3,972.28	3,953.93	12.67	14.74	89.14	47.40	3,159.76	3,183.59	3,157.01	26.58	119.754	
3,700.00	3,700.00	4,071.53	4,052.45	13.02	15.14	89.12	48.47	3,147.71	3,171.47	3,144.17	27.30	116.155	
3,800.00	3,800.00	4,170.79	4,150.96	13.39	15.54	89.09	49.54	3,135.66	3,159.35	3,131.33	28.02	112.740	
3,900.00	3,900.00	4,270.04	4,249.48	13.75	15.94	89.07	50.61	3,123.61	3,147.23	3,118.49	28.74	109.495	
4,000.00	4,000.00	4,369.30	4,347.99	14.11	16.34	89.05	51.68	3,111.57	3,135.11	3,105.65	29.46	106.409	
4,100.00	4,100.00	4,468.55	4,446.50	14.47	16.74	89.02	52.75	3,099.52	3,122.99	3,092.81	30.18	103.469	
4,200.00	4,200.00	4,567.81	4,545.79	14.82	17.08	89.00	53.82	3,087.47	3,110.94	3,080.08	30.86	100.811	
4,300.00	4,300.00	4,667.06	4,644.28	15.18	17.27	88.99	54.12	3,084.10	3,100.01	3,068.60	31.41	98.680	
4,400.00	4,400.00	4,766.31	4,742.28	15.54	17.51	88.98	54.67	3,077.96	3,090.47	3,058.45	32.02	96.522	
4,500.00	4,500.00	4,865.56	4,840.36	15.90	17.73	88.97	55.07	3,073.48	3,082.37	3,049.78	32.59	94.579	
4,600.00	4,600.00	4,964.81	4,938.62	16.26	17.93	88.97	55.40	3,069.79	3,075.72	3,042.56	33.16	92.762	
4,700.00	4,700.00	5,064.06	5,036.83	16.62	18.13	88.96	55.65	3,066.89	3,070.50	3,036.78	33.72	91.066	
4,800.00	4,800.00	5,163.31	5,135.04	16.98	18.38	88.96	55.88	3,063.47	3,066.79	3,032.46	34.33	89.345	
4,900.00	4,900.00	5,262.56	5,233.28	17.33	18.52	88.95	55.96	3,063.49	3,064.40	3,029.58	34.82	88.016	
5,000.00	5,000.00	5,361.81	5,331.53	17.69	18.73	88.95	56.00	3,063.00	3,063.53	3,028.15	35.38	86.595	
5,037.33	5,037.33	5,029.04	5,005.33	17.83	18.82	88.95	56.00	3,063.00	3,063.51	3,027.91	35.60	86.057	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 203H - OH - Prelim Plan B												Offset Site Error:	0.00 usft
Survey Program: 0-MWD: OWSG, 5492-MWD: OWSG, 12740-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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,100.00	5,108.29	5,068.00	18.05	19.08	88.95	56.00	3,063.00	3,063.51	3,027.42	36.10	84.872	
5,200.00	5,200.00	5,208.29	5,168.00	18.41	19.41	88.95	56.00	3,063.00	3,063.51	3,026.71	36.80	83.253	
5,300.00	5,300.00	5,308.29	5,268.00	18.77	19.74	88.95	56.00	3,063.00	3,063.51	3,026.01	37.50	81.692	
5,400.00	5,400.00	5,408.29	5,368.00	19.13	20.05	88.95	56.00	3,063.00	3,063.51	3,025.32	38.19	80.218	
5,500.00	5,500.00	5,508.29	5,468.00	19.31	20.21	88.95	56.00	3,063.00	3,063.51	3,024.98	38.53	79.511	
5,600.00	5,600.00	5,608.29	5,568.00	19.31	20.21	88.95	56.00	3,063.00	3,063.51	3,024.97	38.54	79.482	
5,700.00	5,700.00	5,708.29	5,668.00	19.33	20.23	88.95	56.00	3,063.00	3,063.51	3,024.94	38.57	79.426 CC, ES	
5,800.00	5,799.99	5,808.31	5,767.99	19.35	20.25	-137.72	56.00	3,063.00	3,064.48	3,025.87	38.61	79.369	
5,900.00	5,899.91	5,908.39	5,867.91	19.37	20.27	-137.74	56.00	3,063.00	3,067.39	3,028.72	38.66	79.337	
6,000.00	5,999.69	6,008.60	5,967.69	19.40	20.30	-137.78	56.00	3,063.00	3,072.23	3,033.50	38.73	79.327	
6,033.33	6,032.91	6,024.62	6,000.91	19.41	20.31	-137.79	56.00	3,063.00	3,074.28	3,035.53	38.75	79.341	
6,100.00	6,099.32	6,108.97	6,067.32	19.44	20.34	-137.86	56.00	3,063.00	3,078.59	3,039.79	38.81	79.327	
6,200.00	6,198.94	6,209.35	6,166.94	19.49	20.39	-137.97	56.00	3,063.00	3,085.07	3,046.17	38.90	79.303	
6,300.00	6,298.56	6,309.73	6,266.56	19.54	20.44	-138.08	56.00	3,063.00	3,091.56	3,052.56	39.01	79.252	
6,400.00	6,398.18	6,399.89	6,356.18	19.61	20.48	-138.19	56.00	3,063.00	3,098.07	3,058.95	39.12	79.200	
6,500.00	6,497.80	6,489.51	6,465.80	19.68	20.55	-138.29	56.00	3,063.00	3,104.58	3,065.33	39.25	79.099	
6,600.00	6,597.42	6,589.13	6,565.42	19.75	20.61	-138.40	56.00	3,063.00	3,111.10	3,071.71	39.39	78.973	
6,700.00	6,697.04	6,688.75	6,665.04	19.84	20.69	-138.51	56.00	3,063.00	3,117.63	3,078.08	39.55	78.823	
6,800.00	6,796.66	6,788.37	6,764.66	19.93	20.77	-138.61	56.00	3,063.00	3,124.18	3,084.46	39.72	78.648	
6,900.00	6,896.28	6,887.99	6,864.28	20.03	20.85	-138.72	56.00	3,063.00	3,130.73	3,090.83	39.91	78.451	
7,000.00	6,995.90	6,987.60	6,963.90	20.13	20.94	-138.82	56.00	3,063.00	3,137.30	3,097.20	40.10	78.231	
7,100.00	7,095.52	7,087.22	7,063.52	20.25	21.04	-138.93	56.00	3,063.00	3,143.88	3,103.56	40.31	77.990	
7,200.00	7,195.14	7,186.84	7,163.14	20.36	21.14	-139.03	56.00	3,063.00	3,150.46	3,109.93	40.53	77.728	
7,300.00	7,294.76	7,286.46	7,262.76	20.49	21.25	-139.13	56.00	3,063.00	3,157.06	3,116.29	40.76	77.447	
7,400.00	7,394.38	7,386.08	7,362.38	20.62	21.36	-139.24	56.00	3,063.00	3,163.67	3,122.66	41.01	77.147	
7,500.00	7,494.00	7,485.70	7,462.00	20.76	21.48	-139.34	56.00	3,063.00	3,170.28	3,129.02	41.26	76.830	
7,600.00	7,593.62	7,585.32	7,561.62	20.90	21.61	-139.44	56.00	3,063.00	3,176.91	3,135.38	41.53	76.496	
7,700.00	7,693.24	7,684.94	7,661.24	21.06	21.74	-139.54	56.00	3,063.00	3,183.55	3,141.74	41.81	76.146	
7,800.00	7,792.85	7,784.56	7,760.85	21.21	21.87	-139.64	56.00	3,063.00	3,190.19	3,148.10	42.10	75.782	
7,900.00	7,892.47	7,884.18	7,860.47	21.37	22.01	-139.75	56.00	3,063.00	3,196.85	3,154.45	42.40	75.404	
8,000.00	7,992.09	7,983.80	7,960.09	21.54	22.15	-139.85	56.00	3,063.00	3,203.52	3,160.81	42.71	75.014	
8,100.00	8,091.71	8,083.42	8,059.71	21.72	22.30	-139.95	56.00	3,063.00	3,210.20	3,167.17	43.03	74.611	
8,200.00	8,191.33	8,183.04	8,159.33	21.90	22.46	-140.05	56.00	3,063.00	3,216.88	3,173.53	43.36	74.198	
8,300.00	8,290.95	8,282.66	8,258.95	22.08	22.61	-140.15	56.00	3,063.00	3,223.56	3,179.86	43.69	73.776	
8,400.00	8,390.57	8,382.28	8,358.57	22.27	22.78	-140.24	56.00	3,063.00	3,230.26	3,186.24	44.04	73.344	
8,500.00	8,490.19	8,481.90	8,458.19	22.46	22.94	-140.34	56.00	3,063.00	3,237.00	3,192.60	44.40	72.903	
8,600.00	8,589.81	8,581.52	8,557.81	22.66	23.11	-140.44	56.00	3,063.00	3,243.72	3,198.96	44.77	72.456	
8,700.00	8,689.43	8,681.14	8,657.43	22.87	23.29	-140.54	56.00	3,063.00	3,250.46	3,205.32	45.14	72.002	
8,800.00	8,789.05	8,780.76	8,757.05	23.08	23.47	-140.64	56.00	3,063.00	3,257.20	3,211.57	45.53	71.542	
8,900.00	8,888.67	8,880.37	8,856.67	23.29	23.65	-140.73	56.00	3,063.00	3,263.96	3,218.04	45.92	71.078	
9,000.00	8,988.29	8,979.99	8,956.29	23.51	23.84	-140.83	56.00	3,063.00	3,270.72	3,224.40	46.32	70.609	
9,100.00	9,087.91	9,079.61	9,055.91	23.73	24.03	-140.93	56.00	3,063.00	3,277.49	3,230.76	46.73	70.136	
9,200.00	9,187.53	9,179.23	9,155.53	23.96	24.23	-141.02	56.00	3,063.00	3,284.27	3,237.12	47.15	69.660	
9,300.00	9,287.15	9,278.85	9,255.15	24.19	24.43	-141.12	56.00	3,063.00	3,291.06	3,243.49	47.57	69.182	
9,400.00	9,386.77	9,378.47	9,354.77	24.42	24.63	-141.21	56.00	3,063.00	3,297.86	3,249.86	48.00	68.702	
9,461.82	9,448.35	9,440.06	9,416.35	24.57	24.76	-141.27	56.00	3,063.00	3,302.07	3,253.80	48.27	68.405	
9,500.00	9,486.40	9,478.11	9,454.40	24.66	24.84	-141.33	56.00	3,063.00	3,304.52	3,256.08	48.44	68.219	
9,600.00	9,586.19	9,577.90	9,554.19	24.89	25.04	-141.44	56.00	3,063.00	3,309.54	3,260.65	48.88	67.705	
9,700.00	9,686.12	9,677.82	9,654.12	25.12	25.26	-141.51	56.00	3,063.00	3,312.51	3,263.18	49.33	67.156	
9,795.16	9,781.26	9,772.97	9,749.26	25.32	25.46	85.14	56.00	3,063.00	3,313.44	3,263.70	49.74	66.614	
9,800.00	9,786.11	9,777.81	9,754.11	25.33	25.47	85.14	56.00	3,063.00	3,313.44	3,263.68	49.76	66.586	
9,900.00	9,886.11	9,877.81	9,854.11	25.54	25.69	85.14	56.00	3,063.00	3,313.44	3,263.24	50.19	66.014	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset-TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 203H - OH - Prelim Plan B													Offset Site Error: 0.00 usft
Survey Program: O-MWD - OWSG, 5492-MWD - OWSG, 12740-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 Footface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,986.11	9,977.81	9,954.11	25.74	25.92	85.14	56.00	3,063.00	3,313.44	3,262.81	50.63	65.442	
10,100.00	10,086.11	10,077.81	10,054.11	25.96	26.14	85.14	56.00	3,063.00	3,313.44	3,262.36	51.08	64.873	
10,200.00	10,186.11	10,177.81	10,154.11	26.17	26.37	85.14	56.00	3,063.00	3,313.44	3,261.91	51.53	64.305	
10,300.00	10,286.11	10,277.81	10,254.11	26.39	26.60	85.14	56.00	3,063.00	3,313.44	3,261.45	51.98	63.741	
10,400.00	10,386.11	10,377.81	10,354.11	26.61	26.84	85.14	56.00	3,063.00	3,313.44	3,260.99	52.45	63.179	
10,500.00	10,486.11	10,477.81	10,454.11	26.83	27.08	85.14	56.00	3,063.00	3,313.44	3,260.52	52.91	62.620	
10,600.00	10,586.11	10,577.81	10,554.11	27.05	27.32	85.14	56.00	3,063.00	3,313.44	3,260.05	53.39	62.064	
10,700.00	10,686.11	10,677.81	10,654.11	27.28	27.56	85.14	56.00	3,063.00	3,313.44	3,259.57	53.87	61.512	
10,800.00	10,786.11	10,777.81	10,754.11	27.52	27.80	85.14	56.00	3,063.00	3,313.44	3,259.09	54.35	60.964	
10,900.00	10,886.11	10,877.81	10,854.11	27.75	28.05	85.14	56.00	3,063.00	3,313.44	3,258.60	54.84	60.420	
11,000.00	10,986.11	10,977.81	10,954.11	27.99	28.30	85.14	56.00	3,063.00	3,313.44	3,258.10	55.33	59.881	
11,100.00	11,086.11	11,077.81	11,054.11	28.23	28.55	85.14	56.00	3,063.00	3,313.44	3,257.60	55.83	59.345	
11,200.00	11,186.11	11,177.81	11,154.11	28.47	28.81	85.14	56.00	3,063.00	3,313.44	3,257.10	56.34	58.815	
11,300.00	11,286.11	11,277.81	11,254.11	28.71	29.06	85.14	56.00	3,063.00	3,313.44	3,256.59	56.85	58.289	
11,400.00	11,386.11	11,377.81	11,354.11	28.96	29.32	85.14	56.00	3,063.00	3,313.44	3,256.08	57.36	57.768	
11,500.00	11,486.11	11,477.81	11,454.11	29.21	29.58	85.14	56.00	3,063.00	3,313.44	3,255.56	57.86	57.252	
11,600.00	11,586.11	11,577.81	11,554.11	29.46	29.85	85.14	56.00	3,063.00	3,313.44	3,255.04	58.40	56.740	
11,700.00	11,686.11	11,677.81	11,654.11	29.71	30.11	85.14	56.00	3,063.00	3,313.44	3,254.51	58.92	56.234	
11,800.00	11,786.11	11,777.81	11,754.11	29.97	30.38	85.14	56.00	3,063.00	3,313.44	3,253.99	59.45	55.734	
11,900.00	11,886.11	11,877.81	11,854.11	30.23	30.65	85.14	56.00	3,063.00	3,313.44	3,253.45	59.96	55.238	
11,905.08	11,891.19	11,882.90	11,859.19	30.24	30.66	85.14	56.00	3,063.00	3,313.44	3,253.42	60.01	55.213	
12,000.00	11,996.11	11,957.85	11,934.10	30.49	30.66	85.10	57.78	3,062.98	3,313.63	3,253.17	60.46	54.806	
12,013.89	12,000.00	11,967.43	11,943.64	30.52	30.89	85.09	58.61	3,062.98	3,313.73	3,253.20	60.52	54.751	
12,050.00	12,036.08	11,992.27	11,968.31	30.61	30.96	85.52	61.52	3,062.95	3,313.96	3,253.28	60.68	54.612	
12,100.00	12,085.78	12,026.59	12,002.13	30.74	31.05	85.46	67.28	3,062.90	3,314.21	3,253.31	60.90	54.424	
12,150.00	12,134.83	12,060.85	12,035.50	30.85	31.14	85.42	75.05	3,062.83	3,314.34	3,253.24	61.10	54.241	
12,200.00	12,182.85	12,095.10	12,068.33	30.96	31.23	85.42	84.79	3,062.74	3,314.37	3,253.06	61.31	54.063	
12,250.00	12,229.48	12,129.35	12,100.52	31.06	31.32	85.44	96.47	3,062.64	3,314.28	3,252.78	61.50	53.890	
12,300.00	12,274.37	12,163.63	12,131.98	31.16	31.41	85.49	110.07	3,062.52	3,314.08	3,252.39	61.69	53.719	
12,350.00	12,317.16	12,200.00	12,164.41	31.24	31.51	85.56	126.53	3,062.37	3,313.78	3,251.89	61.86	53.545	
12,400.00	12,357.54	12,232.45	12,192.40	31.32	31.59	85.66	142.92	3,062.23	3,313.38	3,251.31	62.07	53.382	
12,450.00	12,395.20	12,267.04	12,221.17	31.38	31.68	85.79	162.11	3,062.06	3,312.89	3,250.63	62.26	53.211	
12,500.00	12,429.85	12,300.00	12,247.47	31.45	31.77	85.93	181.98	3,061.88	3,312.31	3,249.86	62.45	53.042	
12,550.00	12,461.23	12,336.76	12,275.39	31.50	31.86	86.11	205.88	3,061.67	3,311.66	3,249.00	62.65	52.857	
12,600.00	12,489.10	12,371.97	12,300.64	31.56	31.95	86.31	230.41	3,061.45	3,310.94	3,248.08	62.86	52.665	
12,650.00	12,513.25	12,407.47	12,324.52	31.64	32.04	86.53	256.66	3,061.21	3,310.19	3,247.10	63.08	52.473	
12,700.00	12,533.50	12,443.30	12,346.94	31.75	32.14	86.77	284.61	3,060.97	3,309.40	3,246.08	63.32	52.266	
12,750.00	12,549.68	12,479.51	12,367.78	31.88	32.25	87.02	314.22	3,060.70	3,308.59	3,245.02	63.57	52.047	
12,800.00	12,561.68	12,516.17	12,386.92	32.03	32.36	87.29	345.47	3,060.42	3,307.79	3,243.96	63.84	51.817	
12,813.89	12,564.25	12,526.44	12,391.92	32.24	32.39	87.37	354.45	3,060.34	3,307.57	3,243.66	63.91	51.752	
12,838.89	12,568.59	12,545.16	12,400.62	32.26	32.45	87.47	371.02	3,060.20	3,307.20	3,243.18	64.02	51.658	
12,850.00	12,570.46	12,553.59	12,404.36	32.26	32.48	87.52	378.57	3,060.13	3,307.06	3,242.98	64.07	51.614	
12,900.00	12,577.27	12,592.07	12,420.00	32.29	32.61	87.74	413.72	3,059.82	3,306.44	3,242.12	64.32	51.404	
12,950.00	12,581.49	12,631.47	12,433.53	32.32	32.75	87.95	450.71	3,059.49	3,305.91	3,241.31	64.60	51.171	
13,000.00	12,583.09	12,671.78	12,444.71	32.35	32.90	88.15	489.43	3,059.14	3,305.46	3,240.54	64.92	50.918	
13,005.58	12,583.10	12,675.34	12,445.81	32.35	32.92	88.17	493.86	3,059.10	3,305.42	3,240.46	64.95	50.888	
13,100.00	12,583.10	12,760.33	12,461.26	32.40	32.71	88.44	576.39	3,058.37	3,304.86	3,239.21	65.65	50.342	
13,200.00	12,583.10	12,851.67	12,470.65	32.47	32.79	88.60	667.20	3,057.56	3,304.55	3,238.11	66.44	49.734	
13,300.00	12,583.10	12,947.26	12,472.10	32.54	32.89	88.63	762.77	3,056.71	3,304.46	3,237.07	67.41	49.019	
13,400.00	12,583.09	13,047.26	12,472.10	32.62	32.81	88.63	862.76	3,055.82	3,304.44	3,235.90	68.54	48.210	
13,500.00	12,583.09	13,147.26	12,472.10	32.72	32.15	88.63	962.76	3,054.92	3,304.41	3,234.60	69.81	47.334	
13,600.00	12,583.09	13,247.26	12,472.09	32.64	38.35	88.63	1,062.76	3,054.03	3,304.37	3,233.16	71.21	46.403	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Leslie Fed Com - 203H - OH - Prelim Plan B												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5492-MWD - OWSG, 12740-MWD - OWSG												Offset Well Error:	0.00 usft
Reference													
Offset													
Semi Major Axis													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	12,583.09	13,347.26	12,472.09	38.03	38.61	88.63	1,162.75	3,053.14	3,304.33	3,231.60	72.73	45.430	
13,800.00	12,583.08	13,447.26	12,472.09	38.35	38.95	88.63	1,262.75	3,052.25	3,304.30	3,229.92	74.38	44.427	
13,900.00	12,583.08	13,547.26	12,472.09	38.89	39.42	88.63	1,362.74	3,051.36	3,304.26	3,228.14	76.13	43.405	
14,000.00	12,583.08	13,647.26	12,472.08	39.64	40.02	88.63	1,462.74	3,050.46	3,304.23	3,226.25	77.98	42.373	
14,100.00	12,583.08	13,747.26	12,472.08	40.53	40.75	88.63	1,562.74	3,049.57	3,304.19	3,224.26	79.93	41.340	
14,200.00	12,583.07	13,847.26	12,472.08	41.51	41.60	88.63	1,662.73	3,048.68	3,304.15	3,222.19	81.96	40.313	
14,300.00	12,583.07	13,947.26	12,472.08	42.54	42.52	88.63	1,762.73	3,047.79	3,304.12	3,220.04	84.08	39.298	
14,400.00	12,583.07	14,047.26	12,472.07	43.62	43.52	88.63	1,862.72	3,046.90	3,304.08	3,217.81	86.27	38.298	
14,500.00	12,583.07	14,147.26	12,472.07	44.75	44.58	88.63	1,962.72	3,046.01	3,304.04	3,215.51	88.53	37.319	
14,600.00	12,583.06	14,247.26	12,472.07	45.91	45.68	88.63	2,062.72	3,045.11	3,304.01	3,213.15	90.86	36.363	
14,700.00	12,583.06	14,347.26	12,472.07	47.10	46.82	88.63	2,162.71	3,044.22	3,303.97	3,210.72	93.25	35.431	
14,800.00	12,583.06	14,447.26	12,472.06	48.32	47.99	88.63	2,262.71	3,043.33	3,303.94	3,208.24	95.69	34.526	
14,900.00	12,583.06	14,547.26	12,472.06	49.57	49.20	88.63	2,362.70	3,042.44	3,303.90	3,205.71	98.19	33.649	
15,000.00	12,583.06	14,647.26	12,472.06	50.84	50.44	88.63	2,462.70	3,041.55	3,303.86	3,203.13	100.73	32.799	
15,100.00	12,583.05	14,747.26	12,472.06	52.14	51.71	88.63	2,562.70	3,040.66	3,303.83	3,200.51	103.32	31.978	
15,200.00	12,583.05	14,847.26	12,472.05	53.45	52.99	88.63	2,662.69	3,039.76	3,303.79	3,197.85	105.94	31.185	
15,300.00	12,583.05	14,947.26	12,472.05	54.78	54.30	88.63	2,762.69	3,038.87	3,303.76	3,195.15	108.61	30.419	
15,400.00	12,583.05	15,047.26	12,472.05	56.14	55.63	88.63	2,862.68	3,037.98	3,303.72	3,192.41	111.31	29.681	
15,500.00	12,583.04	15,147.26	12,472.05	57.50	56.98	88.63	2,962.68	3,037.09	3,303.68	3,189.64	114.04	28.970	
15,600.00	12,583.04	15,247.26	12,472.04	58.89	58.34	88.63	3,062.68	3,036.20	3,303.65	3,186.85	116.80	28.284	
15,700.00	12,583.04	15,347.26	12,472.04	60.28	59.72	88.63	3,162.67	3,035.31	3,303.61	3,184.02	119.59	27.624	
15,800.00	12,583.04	15,447.26	12,472.04	61.68	61.11	88.63	3,262.67	3,034.41	3,303.57	3,181.17	122.41	26.988	
15,900.00	12,583.03	15,547.26	12,472.04	63.12	62.52	88.63	3,362.66	3,033.52	3,303.54	3,178.29	125.25	26.375	
16,000.00	12,583.03	15,647.26	12,472.03	64.55	63.94	88.63	3,462.66	3,032.63	3,303.50	3,175.39	128.12	25.785	
16,100.00	12,583.03	15,747.26	12,472.03	66.00	65.37	88.63	3,562.66	3,031.74	3,303.47	3,172.46	131.00	25.217	
16,200.00	12,583.03	15,847.26	12,472.03	67.45	66.81	88.63	3,662.65	3,030.85	3,303.43	3,169.52	133.91	24.670	
16,300.00	12,583.02	15,947.26	12,472.03	68.91	68.26	88.63	3,762.65	3,029.96	3,303.39	3,166.56	136.83	24.142	
16,400.00	12,583.02	16,047.26	12,472.02	70.39	69.73	88.63	3,862.64	3,029.06	3,303.36	3,163.58	139.77	23.634	
16,500.00	12,583.02	16,147.26	12,472.02	71.87	71.20	88.63	3,962.64	3,028.17	3,303.32	3,160.59	142.73	23.143	
16,600.00	12,583.02	16,247.26	12,472.02	73.35	72.67	88.63	4,062.64	3,027.28	3,303.28	3,157.58	145.71	22.671	
16,700.00	12,583.01	16,347.26	12,472.02	74.85	74.16	88.63	4,162.63	3,026.39	3,303.25	3,154.55	148.70	22.215	
16,800.00	12,583.01	16,447.26	12,472.01	76.35	75.65	88.63	4,262.63	3,025.50	3,303.21	3,151.51	151.70	21.775	
16,900.00	12,583.01	16,547.26	12,472.01	77.86	77.16	88.63	4,362.62	3,024.61	3,303.18	3,148.46	154.71	21.350	
17,000.00	12,583.01	16,647.26	12,472.01	79.36	78.66	88.63	4,462.62	3,023.71	3,303.14	3,145.40	157.74	20.940	
17,100.00	12,583.01	16,747.26	12,472.01	80.90	80.18	88.63	4,562.62	3,022.82	3,303.10	3,142.32	160.78	20.544	
17,200.00	12,583.00	16,847.26	12,472.00	82.42	81.69	88.63	4,662.61	3,021.93	3,303.07	3,139.24	163.83	20.162	
17,305.09	12,583.00	16,952.35	12,472.00	84.03	83.29	88.63	4,767.70	3,020.99	3,303.03	3,135.99	167.04	19.773	
17,309.83	12,583.00	16,951.65	12,472.00	84.10	83.29	88.63	4,767.00	3,021.00	3,303.03	3,135.94	167.09	19.768 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
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: G-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)				
0.00	0.00	0.00	0.00	0.00	0.00	88.08	118.00	3,528.00	3,530.43					
100.00	100.00	43.00	43.00	0.13	0.05	88.08	118.00	3,528.00	3,529.97	3,529.79	0.18	N/A		
200.00	200.00	143.00	143.00	0.49	0.28	88.08	118.00	3,528.00	3,529.97	3,529.21	0.77	4,601.535		
300.00	300.00	243.00	243.00	0.84	0.64	88.08	118.00	3,528.00	3,529.97	3,528.49	1.48	2,378.572		
400.00	400.00	343.00	343.00	1.20	1.00	88.08	118.00	3,528.00	3,529.97	3,527.77	2.20	1,603.793		
500.00	500.00	443.00	443.00	1.56	1.36	88.08	118.00	3,528.00	3,529.97	3,527.05	2.92	1,209.741		
600.00	600.00	543.00	543.00	1.92	1.72	88.08	118.00	3,528.00	3,529.97	3,526.34	3.63	971.133		
700.00	700.00	643.00	643.00	2.28	2.07	88.08	118.00	3,528.00	3,529.97	3,525.62	4.35	811.144		
800.00	800.00	743.00	743.00	2.64	2.43	88.08	118.00	3,528.00	3,529.97	3,524.90	5.07	696.414		
900.00	900.00	843.00	843.00	3.00	2.79	88.08	118.00	3,528.00	3,529.97	3,524.19	5.79	610.117		
1,000.00	1,000.00	943.00	943.00	3.35	3.15	88.08	118.00	3,528.00	3,529.97	3,523.47	6.50	542.849		
1,100.00	1,100.00	1,043.00	1,043.00	3.71	3.51	88.08	118.00	3,528.00	3,529.97	3,522.75	7.22	488.942		
1,200.00	1,200.00	1,143.00	1,143.00	4.07	3.87	88.08	118.00	3,528.00	3,529.97	3,522.04	7.94	444.774		
1,300.00	1,300.00	1,243.00	1,243.00	4.43	4.22	88.08	118.00	3,528.00	3,529.97	3,521.32	8.65	407.924		
1,400.00	1,400.00	1,343.00	1,343.00	4.79	4.58	88.08	118.00	3,528.00	3,529.97	3,520.60	9.37	376.713		
1,500.00	1,500.00	1,443.00	1,443.00	5.15	4.94	88.08	118.00	3,528.00	3,529.97	3,519.89	10.09	349.939		
1,600.00	1,600.00	1,543.00	1,543.00	5.50	5.30	88.08	118.00	3,528.00	3,529.97	3,519.17	10.80	326.718		
1,700.00	1,700.00	1,643.00	1,643.00	5.86	5.66	88.08	118.00	3,528.00	3,529.97	3,518.45	11.52	306.387		
1,800.00	1,800.00	1,743.00	1,743.00	6.22	6.02	88.08	118.00	3,528.00	3,529.97	3,517.73	12.24	288.438		
1,900.00	1,900.00	1,843.00	1,843.00	6.56	6.38	88.08	118.00	3,528.00	3,529.97	3,517.02	12.96	272.476		
2,000.00	2,000.00	1,943.00	1,943.00	6.94	6.73	88.08	118.00	3,528.00	3,529.97	3,516.30	13.67	258.188		
2,100.00	2,100.00	2,043.00	2,043.00	7.30	7.09	88.08	118.00	3,528.00	3,529.97	3,515.58	14.39	245.324		
2,200.00	2,200.00	2,143.00	2,143.00	7.66	7.45	88.08	118.00	3,528.00	3,529.97	3,514.87	15.11	233.680		
2,300.00	2,300.00	2,243.00	2,243.00	8.01	7.81	88.08	118.00	3,528.00	3,529.97	3,514.15	15.82	223.092		
2,400.00	2,400.00	2,343.00	2,343.00	8.37	8.17	88.08	118.00	3,528.00	3,529.97	3,513.43	16.54	213.422		
2,500.00	2,500.00	2,443.00	2,443.00	8.73	8.53	88.08	118.00	3,528.00	3,529.97	3,512.72	17.26	204.555		
2,600.00	2,600.00	2,543.00	2,543.00	9.09	8.88	88.08	118.00	3,528.00	3,529.97	3,512.00	17.97	196.396		
2,700.00	2,700.00	2,643.00	2,643.00	9.45	9.24	88.08	118.00	3,528.00	3,529.97	3,511.28	18.69	188.862		
2,800.00	2,800.00	2,743.00	2,743.00	9.81	9.60	88.08	118.00	3,528.00	3,529.97	3,510.57	19.41	181.886		
2,900.00	2,900.00	2,843.00	2,843.00	10.16	9.96	88.08	118.00	3,528.00	3,529.97	3,509.85	20.12	175.406		
3,000.00	3,000.00	2,943.00	2,943.00	10.52	10.32	88.08	118.00	3,528.00	3,529.97	3,509.13	20.84	169.372		
3,100.00	3,100.00	3,043.00	3,043.00	10.88	10.68	88.08	118.00	3,528.00	3,529.97	3,508.41	21.56	163.739		
3,200.00	3,200.00	3,143.00	3,143.00	11.24	11.04	88.08	118.00	3,528.00	3,529.97	3,507.70	22.28	158.469		
3,300.00	3,300.00	3,243.00	3,243.00	11.60	11.39	88.08	118.00	3,528.00	3,529.97	3,506.98	22.99	153.528		
3,400.00	3,400.00	3,343.00	3,343.00	11.96	11.75	88.08	118.00	3,528.00	3,529.97	3,506.26	23.71	148.886		
3,500.00	3,500.00	3,443.00	3,443.00	12.32	12.11	88.08	118.00	3,528.00	3,529.97	3,505.55	24.43	144.516		
3,600.00	3,600.00	3,543.00	3,543.00	12.67	12.47	88.08	118.00	3,528.00	3,529.97	3,504.83	25.14	140.395		
3,700.00	3,700.00	3,643.00	3,643.00	13.03	12.83	88.08	118.00	3,528.00	3,529.97	3,504.11	25.86	136.502		
3,800.00	3,800.00	3,743.00	3,743.00	13.39	13.19	88.08	118.00	3,528.00	3,529.97	3,503.40	26.58	132.820		
3,900.00	3,900.00	3,843.00	3,843.00	13.75	13.54	88.08	118.00	3,528.00	3,529.97	3,502.68	27.29	129.331		
4,000.00	4,000.00	3,943.00	3,943.00	14.11	13.90	88.08	118.00	3,528.00	3,529.97	3,501.96	28.01	126.021		
4,100.00	4,100.00	4,043.00	4,043.00	14.47	14.26	88.08	118.00	3,528.00	3,529.97	3,501.24	28.73	122.876		
4,200.00	4,200.00	4,143.00	4,143.00	14.82	14.62	88.08	118.00	3,528.00	3,529.97	3,500.53	29.44	119.884		
4,300.00	4,300.00	4,243.00	4,243.00	15.18	14.98	88.08	118.00	3,528.00	3,529.97	3,499.81	30.16	117.035		
4,400.00	4,400.00	4,343.00	4,343.00	15.54	15.34	88.08	118.00	3,528.00	3,529.97	3,499.09	30.88	114.317		
4,500.00	4,500.00	4,443.00	4,443.00	15.90	15.70	88.08	118.00	3,528.00	3,529.97	3,498.38	31.60	111.723		
4,600.00	4,600.00	4,543.00	4,543.00	16.26	16.05	88.08	118.00	3,528.00	3,529.97	3,497.66	32.31	109.244		
4,700.00	4,700.00	4,643.00	4,643.00	16.62	16.41	88.08	118.00	3,528.00	3,529.97	3,496.94	33.03	106.873		
4,800.00	4,800.00	4,743.00	4,743.00	16.98	16.77	88.08	118.00	3,528.00	3,529.97	3,496.23	33.75	104.603		
4,801.52	4,801.52	4,744.52	4,744.52	16.98	16.78	88.08	118.00	3,528.00	3,529.97	3,496.22	33.76	104.569 CC		
4,900.00	4,900.00	4,829.79	4,829.79	17.33	17.08	88.09	117.90	3,528.06	3,530.05	3,495.64	34.41	102.586 ES		
5,000.00	5,000.00	4,900.00	4,899.99	17.69	17.32	88.10	116.87	3,528.67	3,530.86	3,495.86	35.01	100.863		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: D-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,100.00	4,968.26	4,968.20	18.05	17.54	88.14	114.81	3,529.89	3,532.54	3,496.96	35.58	99.279	
5,200.00	5,200.00	5,037.35	5,037.19	18.41	17.76	88.19	111.65	3,531.75	3,535.10	3,498.94	36.16	97.768	
5,300.00	5,300.00	5,106.28	5,105.95	18.77	17.99	88.26	107.43	3,534.24	3,538.53	3,501.80	36.73	96.335	
5,400.00	5,400.00	5,193.78	5,193.13	19.13	18.28	88.37	100.95	3,538.07	3,542.69	3,505.32	37.37	94.797	
5,500.00	5,500.00	5,305.60	5,292.37	19.31	18.65	88.49	93.48	3,542.49	3,546.92	3,509.00	37.92	93.533	
5,600.00	5,600.00	5,406.98	5,391.61	19.31	18.97	88.61	86.00	3,546.91	3,551.18	3,512.93	38.25	92.845	
5,700.00	5,700.00	5,507.36	5,490.85	19.33	19.13	88.73	78.53	3,551.33	3,555.45	3,517.03	38.42	92.543	
5,800.00	5,799.99	5,607.72	5,590.11	19.35	19.14	-137.77	71.05	3,555.74	3,560.71	3,522.26	38.45	92.606	
5,900.00	5,899.91	5,708.11	5,689.34	19.37	19.16	-137.82	63.58	3,560.16	3,567.91	3,529.41	38.49	92.687	
6,000.00	5,999.69	5,808.58	5,788.49	19.40	19.19	-137.48	56.11	3,564.57	3,577.04	3,538.49	38.55	92.782	
6,033.33	6,032.91	5,824.57	5,821.51	19.41	19.20	-137.43	53.62	3,566.04	3,580.51	3,541.94	38.57	92.829	
6,100.00	6,099.32	5,909.16	5,887.53	19.44	19.23	-137.41	48.65	3,568.98	3,587.67	3,549.04	38.63	92.880	
6,200.00	6,198.94	5,990.25	5,965.56	19.49	19.26	-137.39	41.19	3,573.39	3,598.40	3,559.70	38.71	92.967	
6,300.00	6,298.56	6,089.65	6,065.59	19.54	19.31	-137.36	33.73	3,577.80	3,609.14	3,570.33	38.81	93.002	
6,400.00	6,398.18	6,189.06	6,164.62	19.61	19.37	-137.33	26.27	3,582.20	3,619.88	3,580.96	38.92	93.004	
6,500.00	6,497.80	6,288.47	6,263.65	19.68	19.43	-137.31	18.81	3,586.61	3,630.62	3,591.56	39.05	92.971	
6,600.00	6,597.42	6,387.88	6,362.68	19.75	19.50	-137.28	11.35	3,591.02	3,641.35	3,602.16	39.19	92.906	
6,700.00	6,697.04	6,487.29	6,461.71	19.84	19.58	-137.26	3.89	3,595.43	3,652.09	3,612.74	39.35	92.808	
6,800.00	6,796.66	6,586.69	6,560.74	19.93	19.67	-137.23	-3.57	3,599.83	3,662.83	3,623.31	39.52	92.679	
6,900.00	6,896.28	6,686.10	6,679.77	20.03	19.76	-137.20	-11.03	3,604.24	3,673.57	3,633.67	39.71	92.519	
7,000.00	6,995.90	6,785.51	6,778.80	20.13	19.86	-137.18	-18.48	3,608.65	3,684.32	3,644.41	39.90	92.330	
7,100.00	7,095.52	6,884.92	6,877.83	20.25	19.97	-137.15	-25.94	3,613.06	3,695.06	3,654.94	40.11	92.113	
7,200.00	7,195.14	6,984.33	6,976.86	20.36	20.08	-137.13	-33.40	3,617.47	3,705.80	3,665.46	40.34	91.868	
7,300.00	7,294.76	7,083.73	7,075.89	20.49	20.20	-137.10	-40.86	3,621.87	3,716.55	3,675.97	40.57	91.597	
7,400.00	7,394.38	7,183.14	7,174.92	20.62	20.33	-137.08	-48.32	3,626.28	3,727.29	3,686.47	40.82	91.301	
7,500.00	7,494.00	7,282.55	7,273.95	20.76	20.46	-137.05	-55.78	3,630.69	3,738.04	3,696.95	41.09	90.982	
7,600.00	7,593.62	7,381.96	7,372.98	20.90	20.60	-137.03	-63.24	3,635.10	3,748.78	3,707.42	41.36	90.640	
7,700.00	7,693.24	7,481.37	7,472.01	21.06	20.75	-137.00	-70.70	3,639.50	3,759.53	3,717.88	41.64	90.277	
7,800.00	7,792.85	7,580.77	7,571.04	21.21	20.90	-136.98	-78.16	3,643.91	3,770.27	3,728.33	41.94	89.895	
7,900.00	7,892.47	7,680.18	7,670.07	21.37	21.06	-136.96	-85.62	3,648.32	3,781.02	3,738.77	42.25	89.493	
8,000.00	7,992.09	7,779.59	7,769.10	21.54	21.22	-136.93	-93.07	3,652.73	3,791.77	3,749.20	42.57	89.074	
8,100.00	8,091.71	7,879.00	7,868.13	21.72	21.39	-136.91	-100.53	3,657.13	3,802.52	3,759.62	42.90	88.639	
8,200.00	8,191.33	7,978.41	7,967.16	21.90	21.56	-136.88	-107.99	3,661.54	3,813.27	3,770.03	43.24	88.189	
8,300.00	8,290.95	8,077.82	8,066.19	22.08	21.74	-136.86	-115.45	3,665.95	3,824.02	3,780.43	43.59	87.725	
8,400.00	8,390.57	8,177.22	8,165.22	22.27	21.93	-136.84	-122.91	3,670.36	3,834.77	3,790.82	43.95	87.248	
8,500.00	8,490.19	8,276.63	8,264.25	22.46	22.12	-136.81	-130.37	3,674.76	3,845.52	3,801.20	44.32	86.760	
8,600.00	8,589.81	8,376.04	8,363.28	22.66	22.31	-136.79	-137.83	3,679.17	3,856.28	3,811.57	44.70	86.262	
8,700.00	8,689.43	8,475.45	8,462.31	22.87	22.51	-136.77	-145.29	3,683.58	3,867.03	3,821.93	45.09	85.754	
8,800.00	8,789.05	8,574.86	8,561.34	23.08	22.72	-136.74	-152.75	3,687.99	3,877.78	3,832.29	45.49	85.237	
8,900.00	8,888.67	8,674.26	8,660.37	23.29	22.93	-136.72	-160.21	3,692.39	3,888.54	3,842.64	45.90	84.714	
9,000.00	8,988.29	8,773.67	8,759.40	23.51	23.14	-136.70	-167.67	3,696.80	3,899.29	3,852.97	46.32	84.183	
9,100.00	9,087.91	8,873.08	8,858.43	23.73	23.36	-136.68	-175.12	3,701.21	3,910.05	3,863.30	46.74	83.647	
9,200.00	9,187.53	8,972.49	8,957.46	23.96	23.58	-136.65	-182.58	3,705.62	3,920.80	3,873.63	47.18	83.106	
9,300.00	9,287.15	9,071.90	9,056.49	24.19	23.81	-136.63	-190.04	3,710.03	3,931.56	3,883.94	47.62	82.562	
9,400.00	9,386.77	9,171.30	9,155.52	24.42	24.04	-136.61	-197.50	3,714.43	3,942.32	3,894.25	48.07	82.014	
9,451.82	9,448.35	9,271.37	9,255.26	24.57	24.27	-136.60	-204.40	3,718.51	3,948.80	3,900.35	48.45	81.507	
9,500.00	9,486.40	9,351.36	9,335.11	24.66	24.46	-136.64	-208.36	3,720.85	3,952.19	3,903.47	48.72	81.117	
9,600.00	9,586.19	9,451.51	9,435.19	24.89	24.87	-136.77	-212.00	3,723.00	3,957.89	3,908.51	49.37	80.163	
9,700.00	9,686.12	9,545.43	9,529.12	25.12	25.07	-136.84	-212.00	3,723.00	3,960.66	3,910.87	49.79	79.547	
9,795.16	9,781.26	9,740.58	9,724.26	25.32	25.25	89.81	-212.00	3,723.00	3,961.52	3,911.34	50.18	78.947	
9,800.00	9,786.11	9,745.42	9,729.11	25.33	25.26	89.81	-212.00	3,723.00	3,961.52	3,911.32	50.20	78.916	
9,900.00	9,886.11	9,845.42	9,829.11	25.54	25.46	89.81	-212.00	3,723.00	3,961.52	3,910.92	50.60	78.286	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Footcandle (")	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,986.11	9,945.42	9,929.11	25.74	25.66	89.81	-212.00	3,723.00	3,961.52	3,910.51	51.01	77.654		
10,100.00	10,086.11	10,045.42	10,029.11	25.96	25.87	89.81	-212.00	3,723.00	3,961.52	3,910.09	51.43	77.023		
10,200.00	10,186.11	10,145.42	10,129.11	26.17	26.08	89.81	-212.00	3,723.00	3,961.52	3,909.66	51.86	76.393		
10,300.00	10,286.11	10,245.42	10,229.11	26.39	26.29	89.81	-212.00	3,723.00	3,961.52	3,909.23	52.29	75.763		
10,400.00	10,386.11	10,345.42	10,329.11	26.61	26.51	89.81	-212.00	3,723.00	3,961.52	3,908.80	52.73	75.135		
10,500.00	10,486.11	10,445.42	10,429.11	26.83	26.72	89.81	-212.00	3,723.00	3,961.52	3,908.35	53.17	74.509		
10,600.00	10,586.11	10,545.42	10,529.11	27.05	26.95	89.81	-212.00	3,723.00	3,961.52	3,907.90	53.62	73.884		
10,700.00	10,686.11	10,645.42	10,629.11	27.28	27.17	89.81	-212.00	3,723.00	3,961.52	3,907.45	54.07	73.264		
10,800.00	10,786.11	10,745.42	10,729.11	27.52	27.40	89.81	-212.00	3,723.00	3,961.52	3,906.99	54.53	72.644		
10,900.00	10,886.11	10,845.42	10,829.11	27.75	27.63	89.81	-212.00	3,723.00	3,961.52	3,906.52	55.00	72.028		
11,000.00	10,986.11	10,945.42	10,929.11	27.99	27.86	89.81	-212.00	3,723.00	3,961.52	3,906.05	55.47	71.416		
11,100.00	11,086.11	11,045.42	11,029.11	28.23	28.10	89.81	-212.00	3,723.00	3,961.52	3,905.57	55.95	70.808		
11,200.00	11,186.11	11,145.42	11,129.11	28.47	28.33	89.81	-212.00	3,723.00	3,961.52	3,905.09	56.43	70.203		
11,300.00	11,286.11	11,245.42	11,229.11	28.71	28.57	89.81	-212.00	3,723.00	3,961.52	3,904.61	56.92	69.603		
11,400.00	11,386.11	11,345.42	11,329.11	28.96	28.82	89.81	-212.00	3,723.00	3,961.52	3,904.11	57.41	69.007		
11,500.00	11,486.11	11,445.42	11,429.11	29.21	29.06	89.81	-212.00	3,723.00	3,961.52	3,903.62	57.90	68.416		
11,600.00	11,586.11	11,545.42	11,529.11	29.46	29.31	89.81	-212.00	3,723.00	3,961.52	3,903.12	58.40	67.829		
11,700.00	11,686.11	11,645.42	11,629.11	29.71	29.56	89.81	-212.00	3,723.00	3,961.52	3,902.61	58.91	67.248		
11,800.00	11,786.11	11,745.42	11,729.11	29.97	29.81	89.81	-212.00	3,723.00	3,961.52	3,902.10	59.42	66.671		
11,900.00	11,886.11	11,845.42	11,829.11	30.23	30.07	89.81	-212.00	3,723.00	3,961.52	3,901.59	59.93	66.099		
12,000.00	11,986.11	11,945.42	11,929.11	30.49	30.32	89.81	-212.00	3,723.00	3,961.52	3,901.07	60.45	65.533		
12,013.89	12,000.00	11,959.31	11,943.00	30.52	30.36	89.81	-212.00	3,723.00	3,961.52	3,901.00	60.52	65.455		
12,050.00	12,036.08	11,995.74	11,979.42	30.61	30.45	90.32	-211.87	3,723.00	3,961.53	3,900.82	60.71	65.253		
12,100.00	12,085.78	12,047.19	12,030.75	30.74	30.58	90.34	-208.44	3,722.98	3,961.54	3,900.58	60.96	64.987		
12,150.00	12,134.83	12,098.84	12,081.74	30.85	30.70	90.37	-200.39	3,722.92	3,961.57	3,900.38	61.19	64.739		
12,200.00	12,182.85	12,150.65	12,131.97	30.96	30.80	90.39	-187.74	3,722.83	3,961.60	3,900.19	61.41	64.511		
12,250.00	12,229.48	12,202.63	12,181.00	31.06	30.90	90.41	-170.54	3,722.71	3,961.64	3,900.02	61.61	64.299		
12,300.00	12,274.37	12,254.75	12,228.40	31.16	30.99	90.43	-148.90	3,722.56	3,961.68	3,899.88	61.80	64.103		
12,350.00	12,317.16	12,306.99	12,273.74	31.24	31.07	90.44	-122.98	3,722.38	3,961.73	3,899.75	61.98	63.919		
12,400.00	12,357.54	12,359.35	12,316.62	31.32	31.14	90.45	-92.97	3,722.17	3,961.78	3,899.63	62.15	63.742		
12,450.00	12,395.20	12,411.79	12,356.64	31.38	31.21	90.46	-59.12	3,721.93	3,961.84	3,899.51	62.32	63.568		
12,500.00	12,429.85	12,464.30	12,393.45	31.45	31.27	90.46	-21.70	3,721.67	3,961.90	3,899.40	62.50	63.394		
12,550.00	12,461.23	12,516.85	12,426.71	31.50	31.33	90.46	18.97	3,721.39	3,961.96	3,899.28	62.67	63.214		
12,600.00	12,499.10	12,569.43	12,456.11	31.56	31.39	90.45	62.54	3,721.08	3,962.03	3,899.16	62.86	63.026		
12,650.00	12,513.25	12,622.01	12,481.40	31.64	31.46	90.45	108.61	3,720.76	3,962.09	3,899.03	63.07	62.823		
12,700.00	12,533.50	12,674.56	12,502.35	31.75	31.55	90.43	156.79	3,720.43	3,962.16	3,898.87	63.29	62.605		
12,750.00	12,549.66	12,727.07	12,519.79	31.88	31.65	90.42	206.64	3,720.08	3,962.23	3,898.70	63.53	62.369		
12,800.00	12,561.68	12,779.51	12,530.58	32.03	36.40	90.40	257.71	3,719.72	3,962.30	3,898.54	63.77	62.136		
12,813.89	12,564.25	12,793.58	12,533.04	37.24	37.06	90.39	271.56	3,719.52	3,962.32	3,898.51	63.82	62.089		
12,838.89	12,569.59	12,819.31	12,537.44	37.26	37.09	90.39	296.91	3,719.45	3,962.36	3,898.47	63.89	62.018		
12,850.00	12,570.46	12,831.21	12,539.30	37.26	37.10	90.39	308.66	3,719.36	3,962.38	3,898.45	63.93	61.983		
12,900.00	12,577.27	12,884.73	12,545.84	37.29	37.12	90.38	361.78	3,718.97	3,962.43	3,898.31	64.12	61.797		
12,950.00	12,581.49	12,938.20	12,549.39	37.32	37.15	90.36	415.12	3,718.54	3,962.45	3,898.09	64.36	61.570		
13,000.00	12,583.09	12,990.56	12,550.10	37.35	37.18	90.35	467.47	3,718.09	3,962.44	3,897.81	64.64	61.304		
13,005.58	12,583.10	13,003.86	12,550.10	37.35	37.19	90.35	473.05	3,718.05	3,962.44	3,897.75	64.69	61.251		
13,100.00	12,583.10	13,109.44	12,550.10	37.40	37.25	90.35	567.46	3,717.23	3,962.44	3,897.06	65.38	60.606		
13,200.00	12,583.10	13,209.44	12,550.10	37.47	37.30	90.35	667.46	3,716.37	3,962.43	3,896.20	66.23	59.830		
13,300.00	12,583.10	13,309.44	12,550.10	37.54	37.37	90.35	767.46	3,715.51	3,962.43	3,895.20	67.23	58.940		
13,400.00	12,583.09	13,409.44	12,550.09	37.62	37.44	90.35	867.45	3,714.65	3,962.42	3,894.04	68.38	57.951		
13,500.00	12,583.09	13,509.44	12,550.09	37.72	37.51	90.35	967.45	3,713.79	3,962.41	3,892.75	69.66	56.880		
13,600.00	12,583.09	13,609.44	12,550.09	37.84	37.61	90.35	1,067.45	3,712.92	3,962.41	3,891.33	71.08	55.745		
13,700.00	12,583.09	13,709.44	12,550.09	38.03	37.74	90.35	1,167.44	3,712.06	3,962.40	3,889.78	72.62	54.561		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Leslie Fed Com - 214H - Prelim Plan A - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: O-MWD - OWSG, 5498-MWD - OWSG, 12779-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,583.08	13,809.44	12,550.08	38.35	37.95	90.35	1,267.44	3,711.20	3,962.39	3,888.11	74.28	53.343	
13,900.00	12,583.08	13,909.44	12,550.08	38.89	38.36	90.35	1,367.44	3,710.34	3,962.39	3,886.34	76.05	52.103	
14,000.00	12,583.08	14,009.44	12,550.08	39.64	39.05	90.35	1,467.43	3,709.48	3,962.38	3,884.46	77.92	50.854	
14,100.00	12,583.08	14,109.44	12,550.08	40.53	39.91	90.35	1,567.43	3,708.62	3,962.38	3,882.50	79.88	49.604	
14,200.00	12,583.07	14,209.44	12,550.07	41.51	40.87	90.35	1,667.42	3,707.75	3,962.37	3,880.44	81.93	48.363	
14,300.00	12,583.07	14,309.44	12,550.07	42.54	41.90	90.35	1,767.42	3,706.89	3,962.36	3,878.30	84.06	47.136	
14,400.00	12,583.07	14,409.44	12,550.07	43.62	42.97	90.35	1,867.42	3,706.03	3,962.36	3,876.09	86.27	45.931	
14,500.00	12,583.07	14,509.44	12,550.07	44.75	44.09	90.35	1,967.41	3,705.17	3,962.35	3,873.81	88.54	44.750	
14,600.00	12,583.06	14,609.44	12,550.06	45.91	45.24	90.35	2,067.41	3,704.31	3,962.34	3,871.46	90.88	43.598	
14,700.00	12,583.06	14,709.44	12,550.06	47.10	46.43	90.35	2,167.41	3,703.45	3,962.34	3,869.06	93.28	42.477	
14,800.00	12,583.06	14,809.44	12,550.06	48.32	47.64	90.35	2,267.40	3,702.58	3,962.33	3,866.60	95.74	41.388	
14,900.00	12,583.06	14,909.44	12,550.06	49.57	48.89	90.35	2,367.40	3,701.72	3,962.33	3,864.08	98.24	40.333	
15,000.00	12,583.06	15,009.44	12,550.06	50.84	50.16	90.35	2,467.39	3,700.86	3,962.32	3,861.53	100.79	39.311	
15,100.00	12,583.05	15,090.56	12,550.05	52.14	51.20	90.35	2,567.39	3,700.00	3,962.31	3,859.17	103.14	38.416	
15,200.00	12,583.05	15,209.44	12,550.05	53.45	52.76	90.35	2,667.39	3,699.14	3,962.31	3,856.28	106.02	37.372	
15,300.00	12,583.05	15,309.44	12,550.05	54.78	54.09	90.35	2,767.38	3,698.27	3,962.30	3,853.60	108.70	36.453	
15,400.00	12,583.05	15,409.44	12,550.05	56.14	55.44	90.35	2,867.38	3,697.41	3,962.29	3,850.89	111.40	35.567	
15,500.00	12,583.04	15,509.44	12,550.04	57.50	56.80	90.35	2,967.38	3,696.55	3,962.29	3,848.14	114.14	34.713	
15,600.00	12,583.04	15,609.44	12,550.04	58.89	58.18	90.35	3,067.37	3,695.69	3,962.28	3,845.37	116.91	33.890	
15,700.00	12,583.04	15,709.44	12,550.04	60.28	59.58	90.35	3,167.37	3,694.83	3,962.28	3,842.56	119.71	33.098	
15,800.00	12,583.04	15,809.44	12,550.04	61.69	60.99	90.35	3,267.36	3,693.97	3,962.27	3,839.73	122.54	32.335	
15,900.00	12,583.03	15,909.44	12,550.03	63.12	62.41	90.35	3,367.36	3,693.10	3,962.26	3,836.88	125.38	31.601	
16,000.00	12,583.03	16,009.44	12,550.03	64.55	63.84	90.35	3,467.36	3,692.24	3,962.26	3,834.00	128.26	30.894	
16,100.00	12,583.03	16,109.44	12,550.03	66.00	65.28	90.35	3,567.35	3,691.38	3,962.25	3,831.10	131.15	30.212	
16,200.00	12,583.03	16,209.44	12,550.03	67.45	66.74	90.35	3,667.35	3,690.52	3,962.24	3,828.19	134.06	29.556	
16,300.00	12,583.02	16,309.44	12,550.02	68.91	68.20	90.35	3,767.35	3,689.66	3,962.24	3,825.25	136.99	28.924	
16,400.00	12,583.02	16,409.44	12,550.02	70.39	69.67	90.35	3,867.34	3,688.80	3,962.23	3,822.30	139.94	28.315	
16,500.00	12,583.02	16,509.44	12,550.02	71.87	71.15	90.35	3,967.34	3,687.93	3,962.23	3,819.33	142.90	27.727	
16,600.00	12,583.02	16,609.44	12,550.02	73.35	72.64	90.35	4,067.34	3,687.07	3,962.22	3,816.34	145.88	27.161	
16,700.00	12,583.01	16,709.44	12,550.01	74.85	74.13	90.35	4,167.33	3,686.21	3,962.21	3,813.34	148.87	26.615	
16,800.00	12,583.01	16,809.44	12,550.01	76.35	75.64	90.35	4,267.33	3,685.35	3,962.21	3,810.33	151.88	26.088	
16,900.00	12,583.01	16,909.44	12,550.01	77.86	77.14	90.35	4,367.32	3,684.49	3,962.20	3,807.30	154.90	25.580	
17,000.00	12,583.01	17,009.44	12,550.01	79.38	78.66	90.35	4,467.32	3,683.63	3,962.19	3,804.27	157.93	25.089	
17,100.00	12,583.01	17,109.44	12,550.01	80.90	80.18	90.35	4,567.32	3,682.76	3,962.19	3,801.22	160.97	24.614	
17,200.00	12,583.00	17,209.44	12,550.00	82.42	81.70	90.35	4,667.31	3,681.90	3,962.18	3,798.16	164.02	24.156	
17,309.83	12,583.00	17,300.39	12,550.00	84.10	83.10	90.35	4,777.14	3,680.96	3,962.18	3,795.08	167.10	23.711 SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 217H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - QWSG, 5492-MWD - QWSG, 12795-MWD - QWSG												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)	Offset Wellbore Centre 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	89.45	19.00	1,968.00	1,968.35				
100.00	100.00	68.00	68.00	0.13	0.09	89.45	19.00	1,968.00	1,968.09	1,967.88	0.21	9,205.607	
200.00	200.00	168.00	168.00	0.49	0.37	89.45	19.00	1,968.00	1,968.09	1,967.24	0.86	2,297.167	
300.00	300.00	268.00	268.00	0.84	0.73	89.45	19.00	1,968.00	1,968.09	1,966.52	1.57	1,250.622	
400.00	400.00	368.00	368.00	1.20	1.09	89.45	19.00	1,968.00	1,968.09	1,965.80	2.29	859.191	
500.00	500.00	468.00	468.00	1.56	1.45	89.45	19.00	1,968.00	1,968.09	1,965.08	3.01	654.378	
600.00	600.00	568.00	568.00	1.92	1.80	89.45	19.00	1,968.00	1,968.09	1,964.37	3.72	528.415	
700.00	700.00	668.00	668.00	2.28	2.16	89.45	19.00	1,968.00	1,968.09	1,963.65	4.44	443.118	
800.00	800.00	768.00	768.00	2.64	2.52	89.45	19.00	1,968.00	1,968.09	1,962.93	5.16	381.531	
900.00	900.00	868.00	868.00	3.00	2.88	89.45	19.00	1,968.00	1,968.09	1,962.22	5.88	334.974	
1,000.00	1,000.00	968.00	968.00	3.35	3.24	89.45	19.00	1,968.00	1,968.09	1,961.50	6.59	298.544	
1,100.00	1,100.00	1,068.00	1,068.00	3.71	3.60	89.45	19.00	1,968.00	1,968.09	1,960.78	7.31	269.261	
1,200.00	1,200.00	1,168.00	1,168.00	4.07	3.96	89.45	19.00	1,968.00	1,968.09	1,960.07	8.03	245.209	
1,300.00	1,300.00	1,268.00	1,268.00	4.43	4.31	89.45	19.00	1,968.00	1,968.09	1,959.35	8.74	225.102	
1,400.00	1,400.00	1,368.00	1,368.00	4.79	4.67	89.45	19.00	1,968.00	1,968.09	1,958.63	9.46	208.042	
1,500.00	1,500.00	1,468.00	1,468.00	5.15	5.03	89.45	19.00	1,968.00	1,968.09	1,957.91	10.18	193.386	
1,600.00	1,600.00	1,568.00	1,568.00	5.50	5.39	89.45	19.00	1,968.00	1,968.09	1,957.20	10.89	180.659	
1,700.00	1,700.00	1,668.00	1,668.00	5.86	5.75	89.45	19.00	1,968.00	1,968.09	1,956.48	11.61	169.504	
1,800.00	1,800.00	1,768.00	1,768.00	6.22	6.11	89.45	19.00	1,968.00	1,968.09	1,955.76	12.33	159.646	
1,900.00	1,900.00	1,868.00	1,868.00	6.58	6.47	89.45	19.00	1,968.00	1,968.09	1,955.05	13.04	150.872	
2,000.00	2,000.00	1,968.00	1,968.00	6.94	6.82	89.45	19.00	1,968.00	1,968.09	1,954.33	13.76	143.012	
2,100.00	2,100.00	2,068.00	2,068.00	7.30	7.18	89.45	19.00	1,968.00	1,968.09	1,953.61	14.48	135.930	
2,200.00	2,200.00	2,168.00	2,168.00	7.66	7.54	89.45	19.00	1,968.00	1,968.09	1,952.90	15.20	129.517	
2,300.00	2,300.00	2,268.00	2,268.00	8.01	7.90	89.45	19.00	1,968.00	1,968.09	1,952.18	15.91	123.682	
2,400.00	2,400.00	2,368.00	2,368.00	8.37	8.25	89.45	19.00	1,968.00	1,968.09	1,951.46	16.63	118.349	
2,500.00	2,500.00	2,468.00	2,468.00	8.73	8.62	89.45	19.00	1,968.00	1,968.09	1,950.75	17.35	113.458	
2,600.00	2,600.00	2,568.00	2,568.00	9.09	8.97	89.45	19.00	1,968.00	1,968.09	1,950.03	18.06	108.955	
2,700.00	2,700.00	2,668.00	2,668.00	9.45	9.33	89.45	19.00	1,968.00	1,968.09	1,949.31	18.78	104.795	
2,800.00	2,800.00	2,768.00	2,768.00	9.81	9.69	89.45	19.00	1,968.00	1,968.09	1,948.59	19.50	100.942	
2,900.00	2,900.00	2,868.00	2,868.00	10.16	10.05	89.45	19.00	1,968.00	1,968.09	1,947.88	20.21	97.362	
3,000.00	3,000.00	2,968.00	2,968.00	10.52	10.41	89.45	19.00	1,968.00	1,968.09	1,947.16	20.93	94.027	
3,100.00	3,100.00	3,068.00	3,068.00	10.88	10.77	89.45	19.00	1,968.00	1,968.09	1,946.44	21.65	90.913	
3,200.00	3,200.00	3,168.00	3,168.00	11.24	11.13	89.45	19.00	1,968.00	1,968.09	1,945.73	22.37	87.999	
3,300.00	3,300.00	3,268.00	3,268.00	11.60	11.48	89.45	19.00	1,968.00	1,968.09	1,945.01	23.08	85.265	
3,400.00	3,400.00	3,368.00	3,368.00	11.96	11.84	89.45	19.00	1,968.00	1,968.09	1,944.29	23.80	82.697	
3,500.00	3,500.00	3,468.00	3,468.00	12.32	12.20	89.45	19.00	1,968.00	1,968.09	1,943.58	24.52	80.278	
3,600.00	3,600.00	3,568.00	3,568.00	12.67	12.56	89.45	19.00	1,968.00	1,968.09	1,942.86	25.23	77.997	
3,700.00	3,700.00	3,668.00	3,668.00	13.03	12.92	89.45	19.00	1,968.00	1,968.09	1,942.14	25.95	75.842	
3,800.00	3,800.00	3,768.00	3,768.00	13.39	13.28	89.45	19.00	1,968.00	1,968.09	1,941.43	26.67	73.803	
3,900.00	3,900.00	3,868.00	3,868.00	13.75	13.63	89.45	19.00	1,968.00	1,968.09	1,940.71	27.38	71.871	
4,000.00	4,000.00	3,968.00	3,968.00	14.11	13.99	89.45	19.00	1,968.00	1,968.09	1,939.99	28.10	70.037	
4,100.00	4,100.00	4,068.00	4,068.00	14.47	14.35	89.45	19.00	1,968.00	1,968.09	1,939.27	28.82	68.295	
4,200.00	4,200.00	4,168.00	4,168.00	14.82	14.71	89.45	19.00	1,968.00	1,968.09	1,938.56	29.53	66.637	
4,300.00	4,300.00	4,268.00	4,268.00	15.18	15.07	89.45	19.00	1,968.00	1,968.09	1,937.84	30.25	65.058	
4,400.00	4,400.00	4,368.00	4,368.00	15.54	15.43	89.45	19.00	1,968.00	1,968.09	1,937.12	30.97	63.552	
4,500.00	4,500.00	4,468.00	4,468.00	15.90	15.79	89.45	19.00	1,968.00	1,968.09	1,936.41	31.69	62.114	
4,600.00	4,600.00	4,568.00	4,568.00	16.26	16.14	89.45	19.00	1,968.00	1,968.09	1,935.69	32.40	60.739	
4,700.00	4,700.00	4,668.00	4,668.00	16.62	16.50	89.45	19.00	1,968.00	1,968.09	1,934.97	33.12	59.425	
4,800.00	4,800.00	4,768.00	4,768.00	16.98	16.86	89.45	19.00	1,968.00	1,968.09	1,934.26	33.84	58.165	
4,900.00	4,900.00	4,868.00	4,868.00	17.33	17.22	89.45	19.00	1,968.00	1,968.09	1,933.54	34.55	56.959	
5,000.00	5,000.00	4,968.00	4,968.00	17.69	17.58	89.45	19.00	1,968.00	1,968.09	1,932.82	35.27	55.801	
5,100.00	5,100.00	5,068.00	5,068.00	18.05	17.94	89.45	19.00	1,968.00	1,968.09	1,932.10	35.99	54.689	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 217H - OH - Prelim Plan A														Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5492-MWD - OWSG, 12795-MWD - OWSG														Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,168.00	5,168.00	18.41	18.29	89.45	19.00	1,968.00	1,968.09	1,931.39	35.70	53.621		
5,300.00	5,300.00	5,268.00	5,268.00	18.77	18.65	89.45	19.00	1,968.00	1,968.09	1,930.67	37.42	52.593		
5,400.00	5,400.00	5,368.00	5,368.00	19.13	19.01	89.45	19.00	1,968.00	1,968.09	1,929.95	38.14	51.605		
5,500.00	5,500.00	5,468.00	5,468.00	19.31	19.25	89.45	19.00	1,968.00	1,968.09	1,929.54	38.56	51.046		
5,600.00	5,600.00	5,568.00	5,568.00	19.31	19.31	89.45	19.00	1,968.00	1,968.09	1,929.47	38.62	50.955		
5,700.00	5,700.00	5,668.00	5,668.00	19.33	19.32	89.45	19.00	1,968.00	1,968.09	1,929.44	38.65	50.923 CC, ES		
5,800.00	5,799.99	5,767.99	5,767.99	19.35	19.34	-137.24	19.00	1,968.00	1,969.05	1,930.37	38.69	50.899		
5,900.00	5,899.91	5,876.04	5,876.03	19.37	19.37	-137.27	18.26	1,967.85	1,971.80	1,933.06	38.74	50.904		
6,000.00	5,999.69	5,987.94	5,987.86	19.40	19.40	-137.27	14.47	1,967.09	1,975.89	1,937.09	38.80	50.927		
6,033.33	6,032.91	6,025.23	6,025.10	19.41	19.41	-137.25	12.49	1,966.70	1,977.55	1,938.72	38.82	50.937		
6,100.00	6,099.32	6,099.84	6,099.53	19.44	19.44	-137.23	7.47	1,965.69	1,980.87	1,941.99	38.88	50.953		
6,200.00	6,198.94	6,203.30	6,202.61	19.49	19.49	-137.16	-1.23	1,963.95	1,985.50	1,946.53	38.97	50.952		
6,300.00	6,298.56	6,303.16	6,302.09	19.54	19.54	-137.09	-9.77	1,962.25	1,990.11	1,951.03	39.07	50.931		
6,400.00	6,398.18	6,403.02	6,401.57	19.61	19.60	-137.01	-18.30	1,960.54	1,994.72	1,955.52	39.20	50.892		
6,500.00	6,497.80	6,502.88	6,501.05	19.68	19.67	-136.94	-26.84	1,958.83	1,999.33	1,960.00	39.33	50.835		
6,600.00	6,597.42	6,602.74	6,600.53	19.75	19.74	-136.86	-35.37	1,957.13	2,003.95	1,964.47	39.48	50.760		
6,700.00	6,697.04	6,702.60	6,700.01	19.84	19.83	-136.79	-43.90	1,955.42	2,008.57	1,968.93	39.64	50.668		
6,800.00	6,796.66	6,802.46	6,799.49	19.93	19.91	-136.72	-52.44	1,953.71	2,013.19	1,973.37	39.82	50.559		
6,900.00	6,896.28	6,902.32	6,898.97	20.03	20.01	-136.64	-60.97	1,952.01	2,017.82	1,977.81	40.01	50.433		
7,000.00	6,995.90	7,002.18	6,998.45	20.13	20.11	-136.57	-69.51	1,950.30	2,022.45	1,982.24	40.21	50.293		
7,100.00	7,095.52	7,102.04	7,097.93	20.25	20.22	-136.50	-78.04	1,948.59	2,027.06	1,986.65	40.43	50.137		
7,200.00	7,195.14	7,201.90	7,197.41	20.36	20.34	-136.42	-86.58	1,946.88	2,031.72	1,991.06	40.66	49.967		
7,300.00	7,294.76	7,301.76	7,295.89	20.49	20.47	-136.35	-95.11	1,945.18	2,036.36	1,995.46	40.90	49.783		
7,400.00	7,394.38	7,401.62	7,395.37	20.62	20.60	-136.28	-103.64	1,943.47	2,041.00	1,999.84	41.16	49.586		
7,500.00	7,494.00	7,501.48	7,495.85	20.76	20.73	-136.21	-112.18	1,941.76	2,045.65	2,004.22	41.43	49.377		
7,600.00	7,593.62	7,601.34	7,595.33	20.90	20.87	-136.14	-120.71	1,940.06	2,050.30	2,008.59	41.71	49.156		
7,700.00	7,693.24	7,701.20	7,694.81	21.05	21.02	-136.07	-129.25	1,938.35	2,054.95	2,012.95	42.00	48.924		
7,800.00	7,792.85	7,801.06	7,794.29	21.21	21.18	-136.00	-137.78	1,936.64	2,059.61	2,017.30	42.31	48.682		
7,900.00	7,892.47	7,900.92	7,893.77	21.37	21.34	-135.93	-146.32	1,934.94	2,064.27	2,021.64	42.62	48.431		
8,000.00	7,992.09	8,000.78	7,993.23	21.54	21.51	-135.86	-154.85	1,933.23	2,068.93	2,025.98	42.95	48.171		
8,100.00	8,091.71	8,100.64	8,092.75	21.72	21.68	-135.79	-163.38	1,931.52	2,073.59	2,030.30	43.29	47.902		
8,200.00	8,191.33	8,200.50	8,192.21	21.90	21.86	-135.72	-171.92	1,929.82	2,078.26	2,034.62	43.64	47.627		
8,300.00	8,290.95	8,300.36	8,291.69	22.08	22.04	-135.65	-180.45	1,928.11	2,082.93	2,038.94	44.00	47.344		
8,400.00	8,390.57	8,400.21	8,391.17	22.27	22.23	-135.59	-188.99	1,926.40	2,087.60	2,043.24	44.36	47.055		
8,500.00	8,490.19	8,494.07	8,484.70	22.46	22.41	-135.53	-196.52	1,924.90	2,092.38	2,047.65	44.73	46.776		
8,600.00	8,589.81	8,595.04	8,575.51	22.66	22.58	-135.54	-204.81	1,923.84	2,097.55	2,052.46	45.10	46.513		
8,700.00	8,689.43	8,675.91	8,666.32	22.87	22.75	-135.61	-204.96	1,923.21	2,103.16	2,057.69	45.46	46.261		
8,800.00	8,789.05	8,766.64	8,757.05	23.08	22.91	-135.73	-206.00	1,923.00	2,109.19	2,063.37	45.82	46.027		
8,900.00	8,888.67	8,866.26	8,856.67	23.29	23.08	-135.89	-206.00	1,923.00	2,115.45	2,069.25	46.20	45.792		
9,000.00	8,988.29	8,965.88	8,956.29	23.51	23.26	-136.06	-206.00	1,923.00	2,121.73	2,075.15	46.58	45.552		
9,100.00	9,087.91	9,065.50	9,055.91	23.73	23.43	-136.22	-206.00	1,923.00	2,128.03	2,081.06	46.97	45.309		
9,200.00	9,187.53	9,165.12	9,155.53	23.96	23.62	-136.38	-206.00	1,923.00	2,134.34	2,086.97	47.36	45.033		
9,300.00	9,287.15	9,264.74	9,255.15	24.19	23.80	-136.54	-206.00	1,923.00	2,140.67	2,092.90	47.77	44.813		
9,400.00	9,386.77	9,364.36	9,354.77	24.42	23.99	-136.70	-206.00	1,923.00	2,147.01	2,098.83	48.18	44.561		
9,461.82	9,448.35	9,425.95	9,416.35	24.57	24.11	-136.80	-206.00	1,923.00	2,150.95	2,102.51	48.44	44.405		
9,500.00	9,486.40	9,464.00	9,454.40	24.66	24.19	-136.88	-206.00	1,923.00	2,153.24	2,104.64	48.50	44.305		
9,600.00	9,586.19	9,563.79	9,554.19	24.89	24.38	-137.04	-206.00	1,923.00	2,157.93	2,108.91	49.02	44.019		
9,700.00	9,686.12	9,663.71	9,654.12	25.12	24.58	-137.14	-206.00	1,923.00	2,160.71	2,111.27	49.45	43.696		
9,795.16	9,781.26	9,758.86	9,749.26	25.32	24.78	89.50	-206.00	1,923.00	2,161.58	2,111.74	49.85	43.365		
9,800.00	9,786.11	9,763.70	9,754.11	25.33	24.79	89.50	-206.00	1,923.00	2,161.58	2,111.72	49.87	43.348		
9,900.00	9,886.11	9,863.70	9,854.11	25.54	25.00	89.50	-206.00	1,923.00	2,161.58	2,111.30	50.28	42.991		
10,000.00	9,986.11	9,963.70	9,954.11	25.74	25.21	89.50	-206.00	1,923.00	2,161.58	2,110.88	50.70	42.635		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leslie Fed Com - 217H - OH - Prelim Plan A											Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5-92-MWD - OWSG, 12795-MWD - OWSG											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)	•E/W (usft)				
10,100.00	10,086.11	10,063.70	10,054.11	25.96	25.42	89.50	-206.00	1,923.00	2,161.58	2,110.46	51.13	42.279
10,200.00	10,186.11	10,163.70	10,154.11	26.17	25.64	89.50	-206.00	1,923.00	2,161.58	2,110.02	51.56	41.924
10,300.00	10,286.11	10,263.70	10,254.11	26.39	25.86	89.50	-206.00	1,923.00	2,161.58	2,109.58	52.00	41.570
10,400.00	10,386.11	10,363.70	10,354.11	26.61	26.09	89.50	-206.00	1,923.00	2,161.58	2,109.14	52.44	41.216
10,500.00	10,486.11	10,463.70	10,454.11	26.83	26.32	89.50	-206.00	1,923.00	2,161.58	2,108.69	52.90	40.864
10,600.00	10,586.11	10,563.70	10,554.11	27.05	26.55	89.50	-206.00	1,923.00	2,161.58	2,108.23	53.35	40.514
10,700.00	10,686.11	10,663.70	10,654.11	27.28	26.78	89.50	-206.00	1,923.00	2,161.58	2,107.77	53.82	40.165
10,800.00	10,786.11	10,763.70	10,754.11	27.52	27.02	89.50	-206.00	1,923.00	2,161.58	2,107.30	54.29	39.819
10,900.00	10,886.11	10,863.70	10,854.11	27.75	27.26	89.50	-206.00	1,923.00	2,161.58	2,106.82	54.76	39.474
11,000.00	10,986.11	10,963.70	10,954.11	27.99	27.50	89.50	-206.00	1,923.00	2,161.58	2,106.34	55.24	39.132
11,100.00	11,086.11	11,063.70	11,054.11	28.23	27.74	89.50	-206.00	1,923.00	2,161.58	2,105.86	55.72	38.792
11,200.00	11,186.11	11,163.70	11,154.11	28.47	27.99	89.50	-206.00	1,923.00	2,161.58	2,105.37	56.21	38.454
11,300.00	11,286.11	11,263.70	11,254.11	28.71	28.24	89.50	-206.00	1,923.00	2,161.58	2,104.88	56.71	38.119
11,400.00	11,386.11	11,363.70	11,354.11	28.96	28.49	89.50	-206.00	1,923.00	2,161.58	2,104.38	57.21	37.786
11,500.00	11,486.11	11,463.70	11,454.11	29.21	28.74	89.50	-206.00	1,923.00	2,161.58	2,103.87	57.71	37.457
11,600.00	11,586.11	11,563.70	11,554.11	29.46	28.99	89.50	-206.00	1,923.00	2,161.58	2,103.37	58.22	37.130
11,700.00	11,686.11	11,663.70	11,654.11	29.71	29.25	89.50	-206.00	1,923.00	2,161.58	2,102.85	58.73	36.806
11,800.00	11,786.11	11,763.70	11,754.11	29.97	29.51	89.50	-206.00	1,923.00	2,161.58	2,102.34	59.25	36.485
11,900.00	11,886.11	11,863.70	11,854.11	30.23	29.77	89.50	-206.00	1,923.00	2,161.58	2,101.82	59.77	36.167
12,000.00	11,986.11	11,963.70	11,954.11	30.49	30.04	89.50	-206.00	1,923.00	2,161.58	2,101.29	60.29	35.853
12,013.89	12,000.00	11,977.60	11,968.00	30.52	30.07	89.50	-206.00	1,923.00	2,161.58	2,101.22	60.36	35.809
12,031.16	12,017.27	11,994.86	11,985.27	30.57	30.12	89.99	-206.00	1,923.00	2,161.58	2,101.13	60.45	35.756
12,050.00	12,036.08	12,013.39	12,003.79	30.61	30.17	90.00	-205.51	1,923.00	2,161.59	2,101.03	60.55	35.699
12,100.00	12,085.78	12,062.82	12,053.03	30.74	30.29	90.03	-201.33	1,922.98	2,161.60	2,100.80	60.80	35.553
12,150.00	12,134.83	12,112.34	12,101.81	30.85	30.41	90.06	-192.90	1,922.93	2,161.63	2,100.59	61.03	35.417
12,200.00	12,182.85	12,161.96	12,149.78	30.96	30.52	90.08	-180.27	1,922.87	2,161.67	2,100.42	61.26	35.288
12,250.00	12,229.48	12,211.69	12,196.57	31.06	30.63	90.11	-163.49	1,922.78	2,161.73	2,100.26	61.47	35.168
12,300.00	12,274.37	12,261.52	12,241.83	31.16	30.73	90.14	-142.68	1,922.67	2,161.80	2,100.13	61.67	35.055
12,350.00	12,317.16	12,311.45	12,285.20	31.24	30.83	90.16	-117.95	1,922.54	2,161.89	2,100.02	61.86	34.946
12,400.00	12,357.54	12,361.50	12,326.33	31.32	30.93	90.18	-89.46	1,922.39	2,161.99	2,099.93	62.05	34.841
12,450.00	12,395.20	12,411.65	12,364.91	31.38	31.02	90.20	-57.46	1,922.22	2,162.10	2,099.85	62.24	34.737
12,500.00	12,429.85	12,461.91	12,400.61	31.45	31.12	90.23	-22.10	1,922.04	2,162.22	2,099.78	62.43	34.632
12,550.00	12,461.23	12,512.28	12,433.15	31.50	31.22	90.24	16.33	1,921.84	2,162.35	2,099.72	62.63	34.524
12,600.00	12,489.10	12,562.75	12,462.24	31.56	31.32	90.26	57.55	1,921.62	2,162.49	2,099.64	62.84	34.410
12,650.00	12,513.25	12,613.33	12,487.63	31.64	31.44	90.28	101.27	1,921.39	2,162.64	2,099.57	63.07	34.290
12,700.00	12,533.50	12,664.00	12,509.12	31.75	31.56	90.29	147.14	1,921.15	2,162.79	2,099.48	63.31	34.160
12,750.00	12,549.68	12,714.77	12,526.49	31.88	31.69	90.30	194.83	1,920.90	2,162.95	2,099.38	63.58	34.021
12,800.00	12,561.68	12,765.62	12,539.60	32.03	31.84	90.31	243.94	1,920.64	2,163.12	2,099.26	63.86	33.872
12,813.89	12,564.25	12,779.76	12,542.46	37.24	31.88	90.31	257.79	1,920.57	2,163.16	2,099.23	63.93	33.834
12,838.89	12,568.59	12,804.94	12,546.92	37.26	36.93	90.31	282.57	1,920.44	2,163.25	2,099.21	64.04	33.779
12,850.00	12,570.46	12,816.14	12,548.66	37.26	36.94	90.31	293.60	1,920.38	2,163.28	2,099.20	64.08	33.759
12,900.00	12,577.27	12,869.27	12,556.54	37.29	36.96	90.31	346.16	1,920.08	2,163.42	2,099.12	64.30	33.646
12,950.00	12,581.49	12,922.42	12,561.29	37.32	36.99	90.32	399.09	1,919.70	2,163.50	2,098.94	64.56	33.511
13,000.00	12,583.09	12,975.58	12,563.09	37.35	37.02	90.32	452.21	1,919.27	2,163.52	2,098.85	64.87	33.354
13,005.58	12,583.10	12,981.51	12,563.11	37.35	37.02	90.32	458.14	1,919.22	2,163.51	2,098.61	64.90	33.335
13,100.00	12,583.10	13,075.92	12,563.10	37.40	37.07	90.32	552.55	1,918.38	2,163.48	2,097.89	65.56	32.984
13,200.00	12,583.10	13,175.92	12,563.10	37.47	37.12	90.32	652.54	1,917.49	2,163.45	2,096.98	66.47	32.549
13,300.00	12,583.10	13,275.92	12,563.10	37.54	37.18	90.32	752.54	1,916.60	2,163.42	2,095.92	67.45	32.053
13,400.00	12,583.09	13,375.92	12,563.10	37.62	37.23	90.32	852.54	1,915.71	2,163.38	2,094.71	68.67	31.505
13,500.00	12,583.09	13,475.92	12,563.09	37.72	37.29	90.32	952.53	1,914.82	2,163.35	2,093.37	69.98	30.915
13,600.00	12,583.09	13,575.92	12,563.09	37.84	37.35	90.32	1,052.53	1,913.93	2,163.32	2,091.90	71.42	30.291
13,700.00	12,583.09	13,675.92	12,563.09	38.03	37.42	90.32	1,152.52	1,913.05	2,163.28	2,090.30	72.98	29.641

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leslie Fed Com - 217H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5492-MWD - OWSG, 12755-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)						
13,800.00	12,583.08	13,775.92	12,563.08	38.35	37.54	90.32	1,252.52	1,912.16	2,163.25	2,088.59	74.66	28.975		
13,900.00	12,583.08	13,875.92	12,563.08	38.89	38.19	90.32	1,352.52	1,911.27	2,163.22	2,086.77	76.45	28.298		
14,000.00	12,583.08	13,975.92	12,563.08	39.64	39.11	90.32	1,452.51	1,910.38	2,163.18	2,084.85	78.33	27.616		
14,100.00	12,583.08	14,075.92	12,563.08	40.53	40.10	90.32	1,552.51	1,909.49	2,163.15	2,082.84	80.31	26.935		
14,200.00	12,583.07	14,175.92	12,563.08	41.51	41.13	90.32	1,652.50	1,908.60	2,163.12	2,080.74	82.37	26.260		
14,300.00	12,583.07	14,275.92	12,563.07	42.54	42.20	90.32	1,752.50	1,907.71	2,163.08	2,078.57	84.52	25.593		
14,400.00	12,583.07	14,375.92	12,563.07	43.62	43.31	90.32	1,852.50	1,906.82	2,163.05	2,076.31	86.74	24.938		
14,500.00	12,583.07	14,475.92	12,563.07	44.75	44.45	90.32	1,952.49	1,905.94	2,163.02	2,073.99	89.02	24.297		
14,600.00	12,583.06	14,575.92	12,563.07	45.91	45.62	90.32	2,052.49	1,905.05	2,162.98	2,071.61	91.37	23.672		
14,700.00	12,583.06	14,675.92	12,563.06	47.10	46.83	90.32	2,152.48	1,904.16	2,162.95	2,069.17	93.78	23.064		
14,800.00	12,583.06	14,775.92	12,563.06	48.32	48.06	90.32	2,252.48	1,903.27	2,162.92	2,066.67	96.24	22.473		
14,900.00	12,583.06	14,875.92	12,563.06	49.57	49.32	90.32	2,352.48	1,902.38	2,162.88	2,064.13	98.76	21.901		
15,000.00	12,583.06	14,975.92	12,563.06	50.84	50.60	90.32	2,452.47	1,901.49	2,162.85	2,061.53	101.32	21.346		
15,100.00	12,583.05	15,075.92	12,563.05	52.14	51.90	90.32	2,552.47	1,900.60	2,162.82	2,058.90	103.92	20.813		
15,200.00	12,583.05	15,175.92	12,563.05	53.45	53.22	90.32	2,652.47	1,899.71	2,162.78	2,056.22	106.56	20.297		
15,300.00	12,583.05	15,275.92	12,563.05	54.78	54.56	90.32	2,752.45	1,898.83	2,162.75	2,053.51	109.24	19.798		
15,400.00	12,583.05	15,375.92	12,563.05	56.14	55.92	90.32	2,852.46	1,897.94	2,162.72	2,050.77	111.95	19.318		
15,500.00	12,583.04	15,475.92	12,563.04	57.50	57.29	90.32	2,952.45	1,897.05	2,162.68	2,047.99	114.70	18.856		
15,600.00	12,583.04	15,575.92	12,563.04	58.89	58.66	90.32	3,052.45	1,896.16	2,162.65	2,045.18	117.47	18.410		
15,700.00	12,583.04	15,675.92	12,563.04	60.28	60.08	90.32	3,152.45	1,895.27	2,162.62	2,042.34	120.27	17.981		
15,800.00	12,583.04	15,775.92	12,563.04	61.69	61.49	90.32	3,252.44	1,894.38	2,162.58	2,039.48	123.10	17.568		
15,900.00	12,583.03	15,875.92	12,563.03	63.12	62.92	90.32	3,352.44	1,893.49	2,162.55	2,036.60	125.95	17.170		
16,000.00	12,583.03	15,975.92	12,563.03	64.55	64.36	90.32	3,452.43	1,892.60	2,162.52	2,033.69	128.83	16.786		
16,100.00	12,583.03	16,075.92	12,563.03	66.00	65.81	90.32	3,552.43	1,891.72	2,162.48	2,030.76	131.72	16.417		
16,200.00	12,583.03	16,175.92	12,563.03	67.45	67.26	90.32	3,652.43	1,890.83	2,162.45	2,027.82	134.64	16.062		
16,300.00	12,583.02	16,275.92	12,563.02	68.91	68.73	90.32	3,752.42	1,889.94	2,162.42	2,024.85	137.57	15.719		
16,400.00	12,583.02	16,375.92	12,563.02	70.39	70.21	90.32	3,852.42	1,889.05	2,162.38	2,021.87	140.52	15.389		
16,500.00	12,583.02	16,475.92	12,563.02	71.87	71.69	90.32	3,952.41	1,888.16	2,162.35	2,018.87	143.48	15.070		
16,600.00	12,583.02	16,575.92	12,563.02	73.35	73.18	90.32	4,052.41	1,887.27	2,162.32	2,015.85	146.46	14.763		
16,700.00	12,583.01	16,675.92	12,563.02	74.85	74.68	90.32	4,152.41	1,886.38	2,162.28	2,012.82	149.46	14.467		
16,800.00	12,583.01	16,775.92	12,563.01	76.35	76.18	90.32	4,252.40	1,885.49	2,162.25	2,009.78	152.47	14.182		
16,900.00	12,583.01	16,875.92	12,563.01	77.86	77.70	90.32	4,352.40	1,884.60	2,162.22	2,006.73	155.49	13.906		
17,000.00	12,583.01	16,975.92	12,563.01	79.36	79.21	90.32	4,452.39	1,883.72	2,162.18	2,003.66	158.52	13.640		
17,100.00	12,583.01	17,075.92	12,563.01	80.90	80.73	90.32	4,552.39	1,882.83	2,162.15	2,000.58	161.57	13.382		
17,200.00	12,583.00	17,175.92	12,563.00	82.42	82.26	90.32	4,652.39	1,881.94	2,162.12	1,997.50	164.62	13.134		
17,309.83	12,583.00	17,285.75	12,563.00	84.10	83.95	90.32	4,762.22	1,880.96	2,162.08	1,994.09	167.99	12.870 SF		

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

Pro Directional Anticollision Report

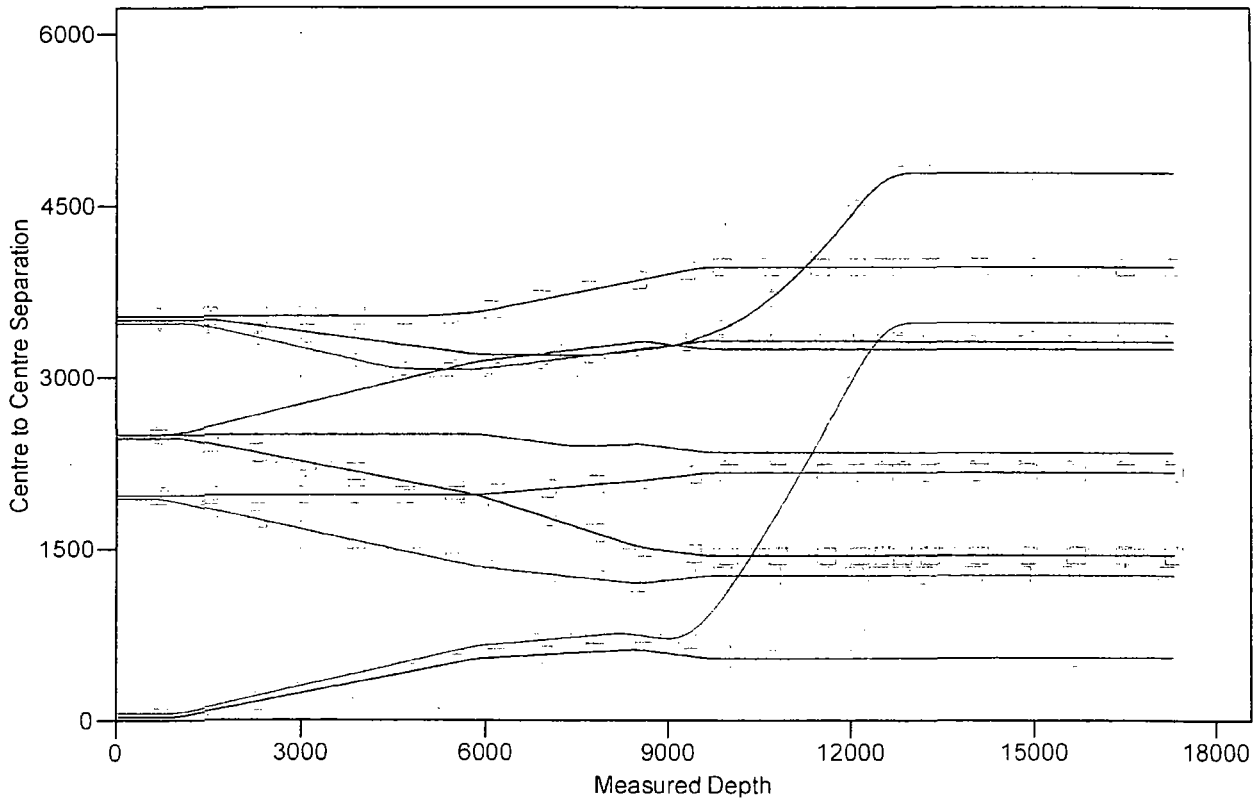
Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Com
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to Rig @ 3340.00usft (GL: 3311' + KB:29)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: 215H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

215H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
217H, OH, Prelim Plan A V0
214H, Prelim Plan A, Prelim Plan A V0
217H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0

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

Pro Directional Anticollision Report

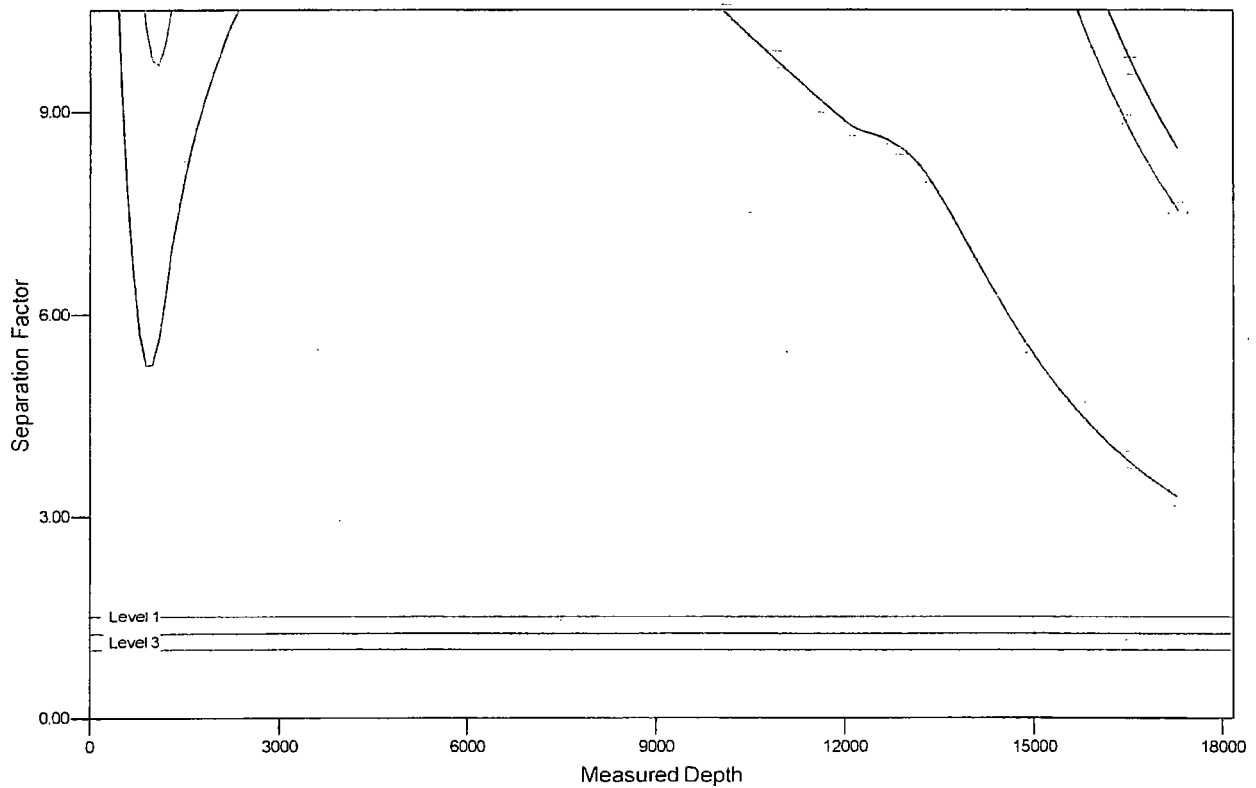
Company: Matador Resources
Project: Lea County, NM
Reference Site: Leslie Fed Corn
Site Error: 0.00 usft
Reference Well: 215H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well 215H
TVD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
MD Reference: Rig @ 3340.00usft (GL:3311' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to Rig @ 3340.00usft (GL:3311' + KB:29')
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: 215H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

214H, OH, Prelim Plan A V0
203H, OH, Prelim Plan A V0
217H, OH, Prelim Plan A V0
214H, Prelim Plan A, Fracture Plan A V0
215H, OH, Prelim Plan A V0
201H, OH, Prelim Plan A V0
202H, OH, Prelim Plan A V0
203H, OH, Prelim Plan B V0
024H, OH, Prelim Plan A V0
021H, OH, Prelim Plan A V0

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SURFACE PLAN PAGE 1

Surface Use Plan

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

From the junction of NM 18 and NM 128 in Jal...
Go West 13.8 miles on NM 128 to the equivalent of Mile Post 38.7
Then turn left and go South 4.3 miles on a caliche road to a T-junction
Then turn left and go Southeast 1.0 mile on a caliche road
Then turn left and go Northeast 0.4 mile on a caliche road
Then turn left and go N 235.58' cross-country to the SE corner of the pad

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

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

Four surface poly pipelines on the north side of the caliche road will be padded or otherwise protected. An 18" x 50' culvert will be installed on the north side of the caliche road. The 235.58' of new resource road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 2%. Maximum cut or fill = 2'. No cattle guard or vehicle turn out is needed. Upgrading will consist of patching potholes with caliche.

3. EXISTING WELLS (See MAP 3)

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

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SURFACE PLAN PAGE 2

4. PROPOSED PRODUCTION FACILITIES (MAP 10)

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

5. WATER SUPPLY (See MAP 2)

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

6. CONSTRUCTION MATERIALS & METHODS (See MAPS 2 & 6-9)

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

7. WASTE DISPOSAL

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

8. ANCILLARY FACILITIES

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

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SURFACE PLAN PAGE 3

9. WELL SITE LAYOUT (See MAPS 6-10)

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

10. RECLAMATION (See MAPS 8-10)

Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the pad $\approx 49\%$ (1.57 acre) by removing caliche and reclaiming 65' area on the north and 150' on the west sides of the pad. This will leave 1.64 acres for the production equipment (e. g., tank battery, heater-treaters, separator), pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM's requirements.

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

$$\begin{aligned} &30' \times 235.58' \text{ road} = 0.16 \text{ acre} \\ &+ \underline{350' \times 400' \text{ pad} = 3.21 \text{ acres}} \\ &\quad 3.37 \text{ acres short term} \\ &- \underline{1.57 \text{ acre pad interim reclamation}} \\ &\quad 1.80 \text{ acres long term} \end{aligned}$$

11. SURFACE OWNER

All construction will be on BLM. Address is 620 E. Greene St., Carlsbad NM 88220. Phone number is (575) 234-5972.

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SURFACE PLAN PAGE 4

12. OTHER INFORMATION

On site inspection was held with Vance Wolf on October 27, 2016.

Lone Mountain inspected and filed archaeology report NMCRIS 138869 on August 31, 2017.

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DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary	000	000	water
Dewey Lake red bed sandstone	389	389	water
Rustler anhydrite	909	909	brine
Salado salt	1431	1431	barren
Castile anhydrite	3724	3724	barren
Base of salt	5451	5451	barren
Bell Canyon Sandstone	5474	5474	hydrocarbons
Cherry Canyon Sandstone	6469	6471	hydrocarbons
Brushy Canyon Sandstone	7917	7924	hydrocarbons
Bone Spring Limestone	9254	9267	hydrocarbons
1 st Bone Spring Carbonate	10323	10337	hydrocarbons
1 st Bone Spring Sand	10397	10411	hydrocarbons
2 nd Bone Spring Carbonate	10605	10619	hydrocarbons
2 nd Bone Spring Sand	10994	11008	hydrocarbons
3 rd Bone Spring Carbonate	11456	11460	hydrocarbons
(KOP	12036	12050	hydrocarbons)
3 rd Bone Spring Sand	12111	12126	hydrocarbons
Wolfcamp A Carbonate	12443	12522	hydrocarbons & goal
TD	12583	17310	hydrocarbons

2. NOTABLE ZONES

Wolfcamp A is the goal. Hole will extend north of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter. Closest water well (C02296) is 4854' northwest. Depth to water is 70' in this 300' deep well.

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DRILL PLAN PAGE 2

3. PRESSURE CONTROL

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

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

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

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

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

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

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

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

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DRILL PLAN PAGE 3

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

4. CASING & CEMENT

All casing will be API and new.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1000'	0' - 1000'	13.375" Surface	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0' - 5600'	0' - 5600'	9.625" Inter. 1	40	J-55	BTC	1.125	1.125	1.8
8.75"	0' - 12811'	0' - 12563'	7" Inter. 2	29	P-110	BTC	1.125	1.125	1.8
6.125"	0' - 17310'	0' - 12583'	4.5" Product.	13.5	P-110	BTC/TXP	1.125	1.125	1.8

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	200	1.82	364	12.8	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	700	1.38	966	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			Centralizers per Onshore Order 2.III.B.1f	
Intermediate 1	Lead	1020	2.13	2172	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	540	1.38	745	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Intermediate 2	Lead	560	2.36	1321	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	320	1.38	441	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 4600'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)	
Production	Tail	600	1.17	702	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 12300'		25% Excess			2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve	

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DRILL PLAN PAGE 4

5. MUD PROGRAM

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

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1000'	8.3	28	NC
brine water	1000' - 5600'	10.0	30-32	NC
fresh water & cut brine	5600' - 12811'	9.0	30-31	NC
OBM	12811' - 17310'	12.5	50-60	<10

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from ≈5600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

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

Matador does not anticipate that there will be enough H₂S from surface to the Bone Spring to meet BLM's minimum requirements for submitting an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas will be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

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DRILL PLAN PAGE 5

8. OTHER INFORMATION

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

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



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

SUPO Data Report

02/27/2018

APD ID: 10400023364

Submission Date: 10/13/2017

Highlighted data
reflects the most
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: LESLIE FED COM

Well Number: 215H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Leslie_215H_Road_Map_20171013130858.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Leslie_215H_New_Road_Map_20171013130914.pdf

New road type: RESOURCE

Length: 235.58 Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched; 18" x 50' culvert will be installed on the north side of the caliche road.

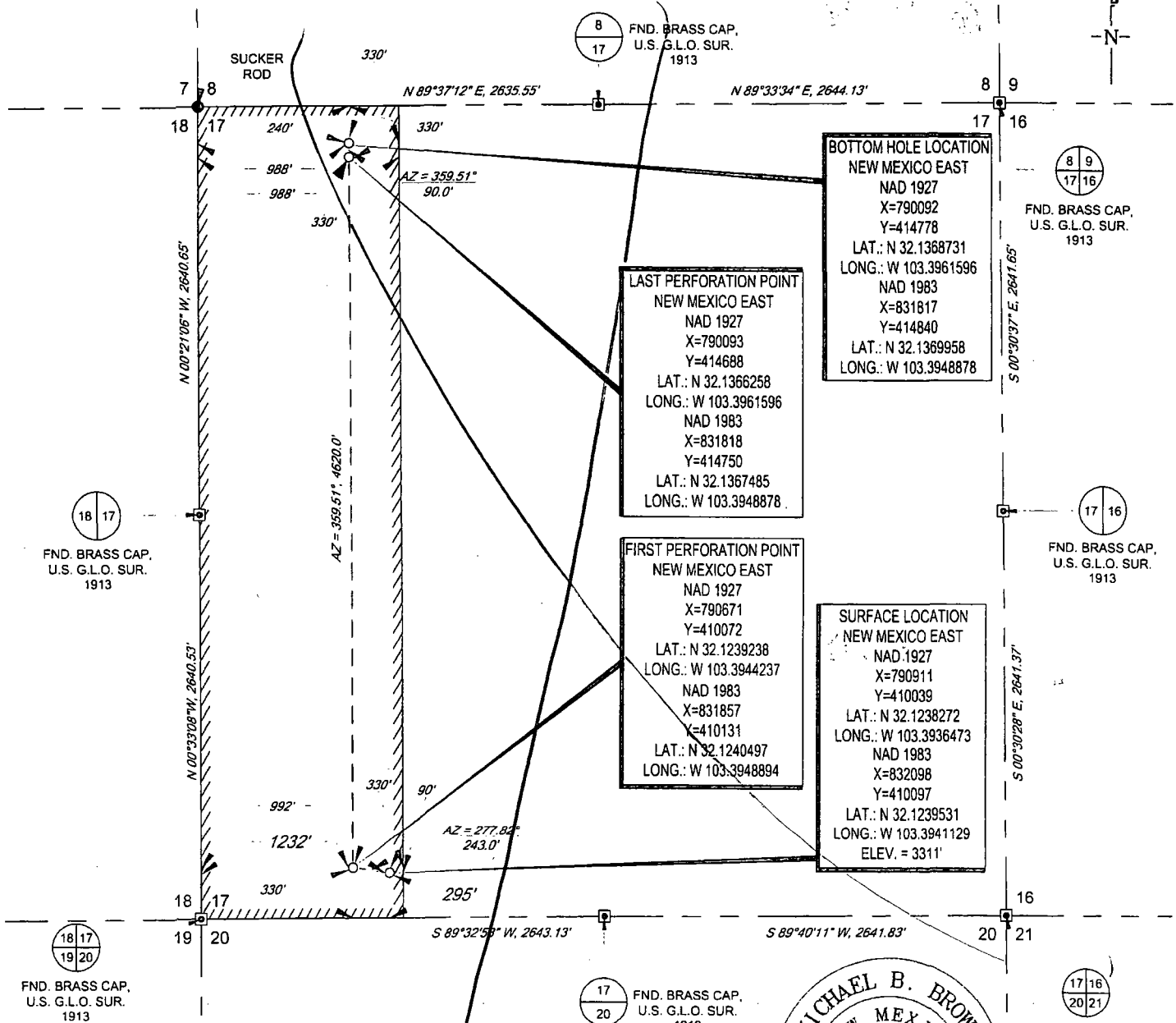
New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

0' 500' 1000'



DISTANCE & DIRECTION

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET. THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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