

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM-136226
WELL NAME & NO.:	Biggers Fed Com 203H
SURFACE HOLE FOOTAGE:	0090' FSL & 1256' FEL
BOTTOM HOLE FOOTAGE:	0240' FNL & 1350' FEL
LOCATION:	Section 18, T. 25 S., R 35 E., NMPM
COUNTY:	County, New Mexico

HOBBS OCD
APR 03 2018
RECEIVED

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

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

☐ **Lea County**

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

Communitization Agreement

The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

A. Hydrogen Sulfide

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

Wait on cement (WOC) for Water Basin:

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

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

Possibility of water flows in the Castile and Salado formations

Possibility of lost circulation in the Rustler, Red Beds, and Delaware formations

Abnormal pressure may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

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

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

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

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

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

Centralizers required through the curve and a minimum of one every other joint

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

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

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

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

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

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi (**Operator will have a 10M multibowl, testing to 2,000 psi**).
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 1st intermediate casing shoe shall be psi (**Operator will have a 10M multibowl, testing to 5,000 psi**).

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 2nd intermediate casing shoe shall be psi.

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

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

If BOP used as a multibowl:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. Operator shall perform the 9-5/8" and 7" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
- 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.

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

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

6. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

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

- a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. **DRILLING MUD**

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

D. **DRILL STEM TEST**

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

E. WASTE MATERIAL AND FLUIDS

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

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

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**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM136226
WELL NAME & NO.:	203H – Biggers Fed Com
SURFACE HOLE FOOTAGE:	90'/S & 1256'/E
BOTTOM HOLE FOOTAGE:	240'/N & 1350'/E
LOCATION:	Section 18, T. 25 S., R. 35 E., NMPM
COUNTY:	Lea County, New Mexico

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

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

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

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

Watershed/Water Quality:

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

- 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.)

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

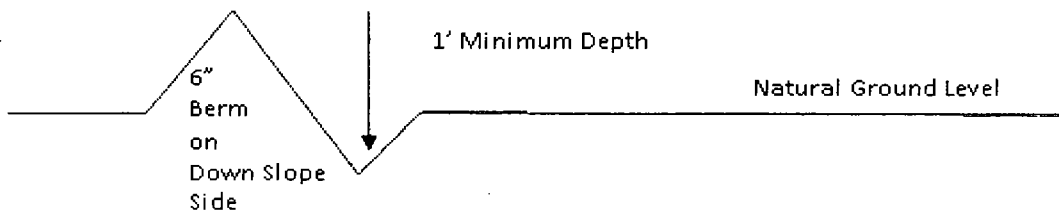
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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:

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

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

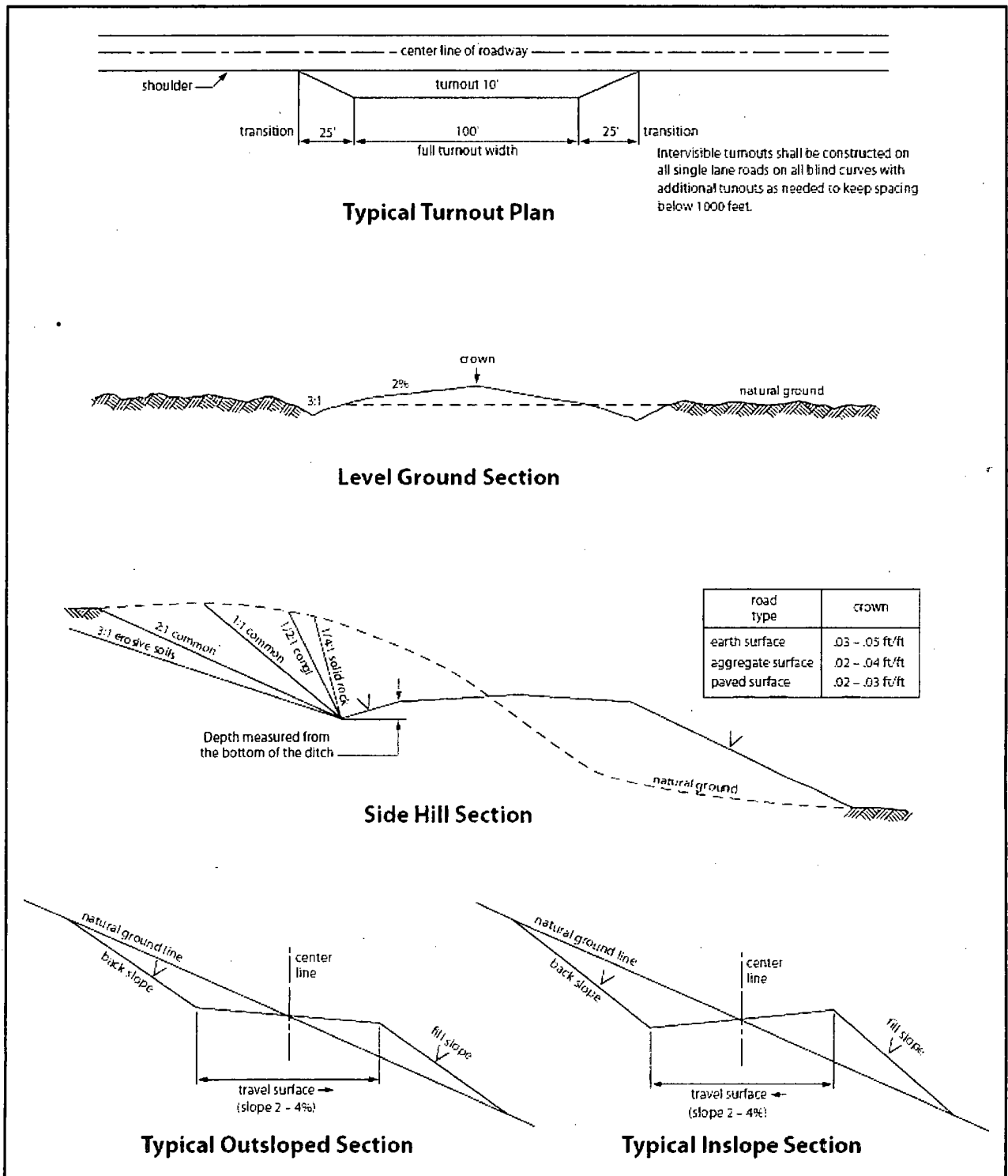


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or F5 local and higher-class roads.

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, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windssocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See attachments

6 Communication:

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

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

Burst: $DF_b=1.125$

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

Tensile: $DF_t=1.8$

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

Production Casing

Collapse: $DF_c=1.125$

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

Burst: $DF_b=1.125$

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

Tensile: $DF_t=1.8$

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



7 Drilling Stem Testing:

- No DSTs or cores are planned at this time.

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

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

11 Emergency Contacts

- See following page

H2S Contingency Plan Emergency Contacts
 Biggers Fed Com wells
 Matador Production Company
 Sec. 18, T25S, R35E Lea County, NM

<u>Company Office</u>			
Matador Production Company	(972)-371-5200		
<u>Key Personnel</u>			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Greg Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659
<u>Lea County</u>			
Ambulance		911	
Nor Lea General Hospital (Hobbs)		575-397-0560	
State Police (Hobbs)		575-392-5580	
City Police (Hobbs)		575-397-9625	
Sheriff's Office (Lovington)		575-396-3611	
Fire Marshall (Lovington)		575-391-2983	
Volunteer Fire Dept. (Jal)		575-395-2221	
Emergency Management (Lovington)		575-391-2983	
New Mexico Oil Conservation Division (Hobbs)		575-393-6161	575-390-3186
BLM (Hobbs)		575-393-3612	
Hobbs Animal Clinic		575-392-5563	
Dal Paso Animal Hospital (Hobbs)		575-397-2286	
Mountain States Equine (Hobbs)		575-392-7488	
<u>Carlsbad</u>			
BLM		575-234-5972	
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
<u>National</u>			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd SE, D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop SE; Albuquerque, NM		505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	
NM Dept. of Transportation (Roswell)		575-637-7200	

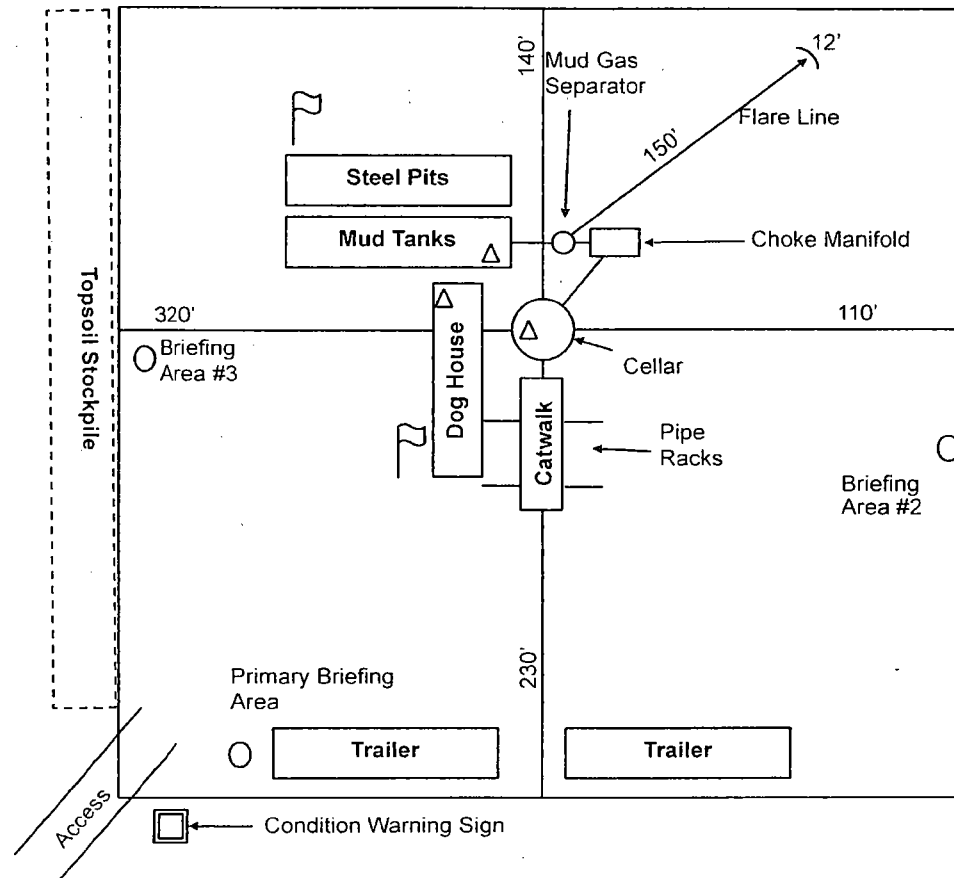
H2S Rig Diagram

Biggers Fed Com 203H
SHL 90' FSL & 1256' FEL
18-25S-35E Lea County, NM

Wind Direction Indicator

H2S Monitors

Briefing Areas



NORTH

Prevailing Winds Out of the South

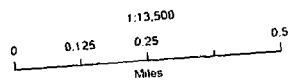


Matador Production Company

Biggers Fed Com #203H
H₂S Contingency Plan:
1 Mile Radius Map

Section 18, Township 25S, Range 35E
Lea County, New Mexico

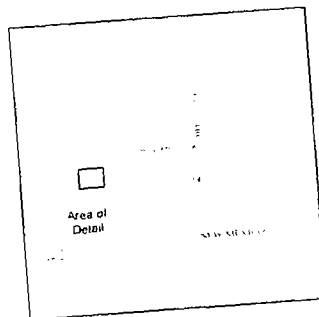
○ Surface Hole Location



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

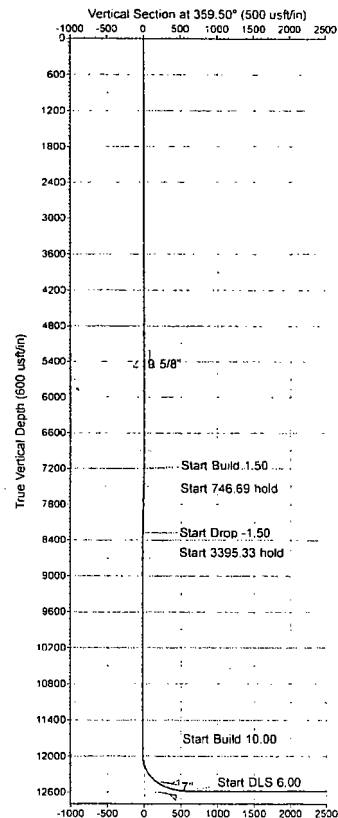
Prepared by Permits West, Inc., June 8, 2017
for Matador Production Company





Matador Resources
Lea County, NM
Biggers Fed Com
203H
Prelim Plan A
GL:3332' + KB:29'

US State Plane 1927 (Exact solution)
NAD 1927 (HADCOM CONUS)
Clarke 1866
New Mexico East 2001
Mean Sea Level



RKB Elevation: Rig @ 3361.02usft (GL:3332' + KB:29')

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	409817.00	788425.00	32° 7' 23.792 N	103° 24' 6.061 W	

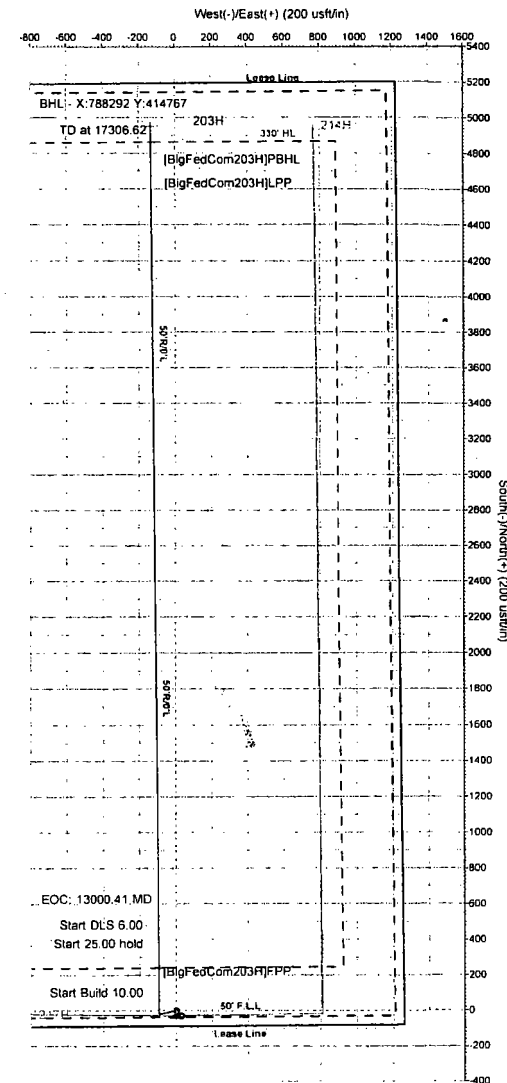
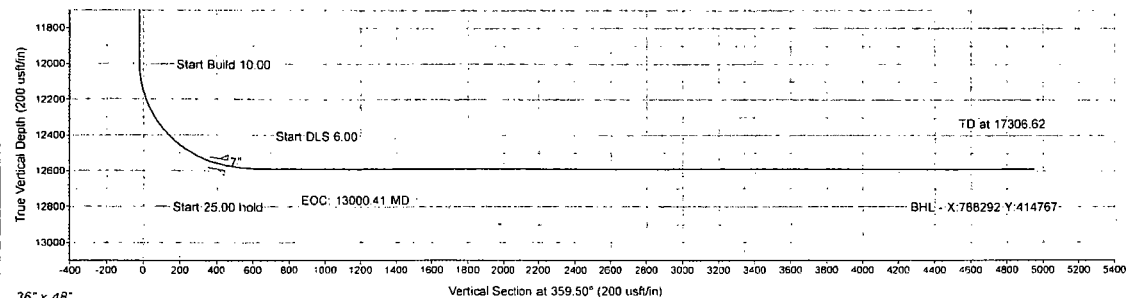
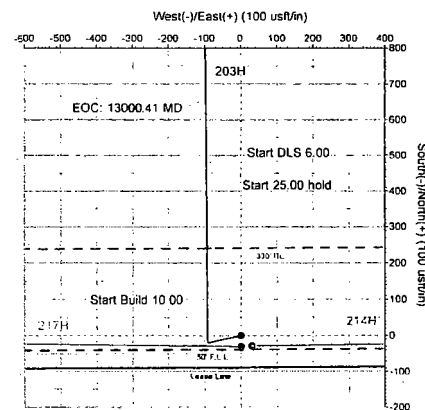
SECTION DETAILS- Lateral

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00
3	7533.33	5.00	257.74	7532.91	-3.09	-14.20	1.50	-2.96
4	8280.02	5.00	257.74	8276.76	-16.91	-77.80	0.00	-16.23
5	8613.36	0.00	0.00	8609.67	-20.00	-92.00	1.50	-19.20
6	12008.69	0.00	0.00	12005.00	-20.00	-92.00	0.00	-19.20
7	12808.69	80.00	359.70	12559.25	453.46	-94.48	10.00	454.27
8	12833.69	80.00	359.70	12573.59	478.08	-94.61	0.00	478.89
9	13000.41	90.00	359.50	12588.10	543.95	-95.76	6.00	644.76
10	17306.62	90.00	359.50	12588.00	4950.00	-133.00	0.00	4950.97



Azimuths to Grid North
True North -0.48°
Magnetic North 6.30°
Magnetic Field
Strength: 48040 Gauss
Dip Angle: 59.87°
Date: 3/6/2017
Model: HDGM

Azimuth Corrections
Total Magnetic Corr: (M to G) 6.30°
Declination (M to T): 6.00° East

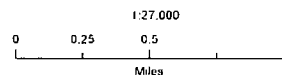


Matador Production Company

Biggers Fed Com #203H
H₂S Contingency Plan:
2 Mile Radius Map

Section 18, Township 25S, Range 35E
Lea County, New Mexico

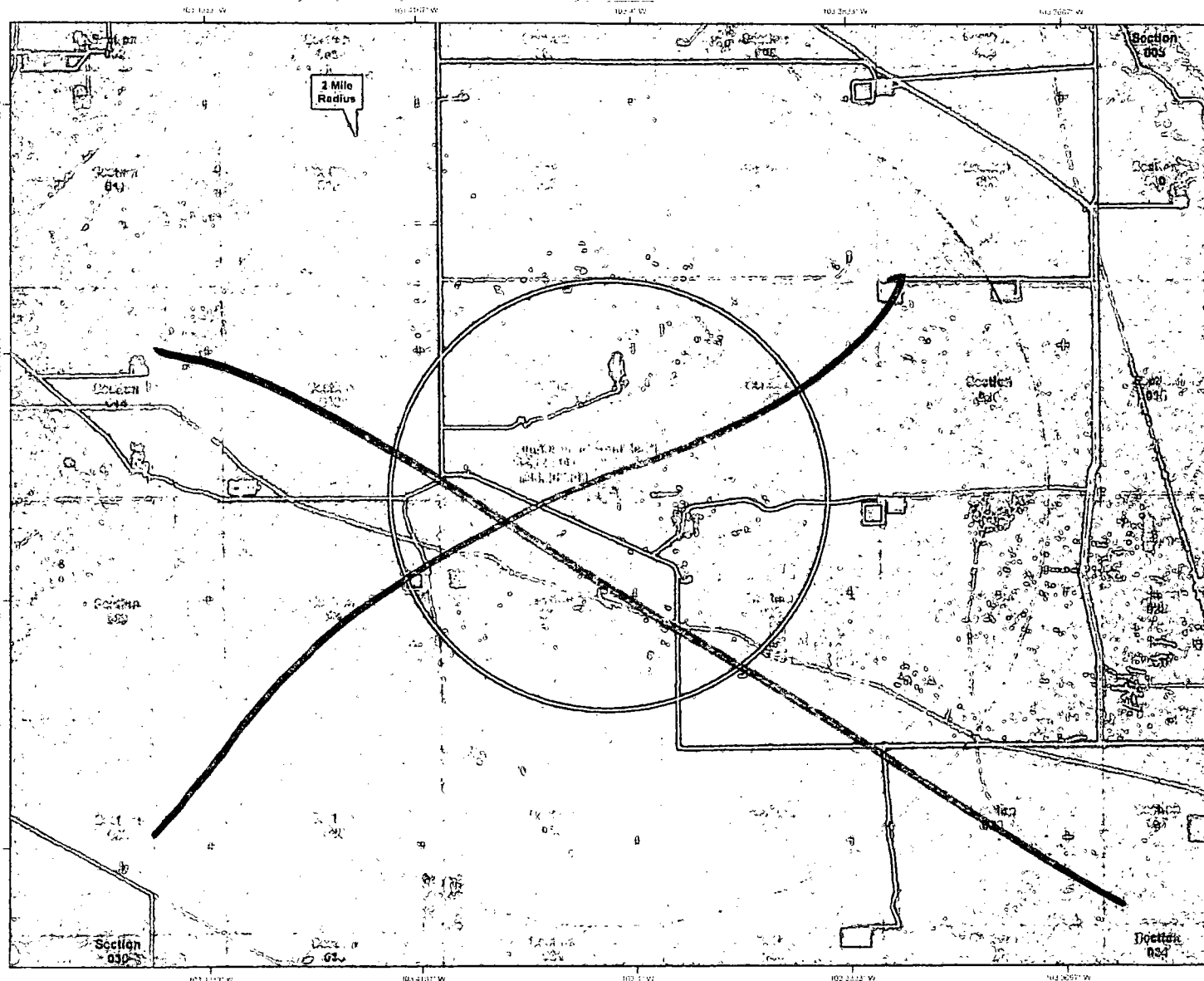
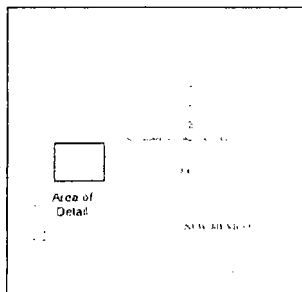
⊙ Surface Hole Location



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., June 8, 2017
for Matador Production Company



Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed Com
Well: 203H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Biggers Fed Com				
Site Position:		Northing:	409,817.00 usft	Latitude:	32° 7' 23.792 N
From:	Map	Easting:	788,425.00 usft	Longitude:	103° 24' 6.061 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	203H					
Well Position	+N/-S	0.00 usft	Northing:	409,817.00 usft	Latitude:	32° 7' 23.792 N
	+E/-W	0.00 usft	Easting:	788,425.00 usft	Longitude:	103° 24' 6.061 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,332.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/6/2017	6.80	59.87	48,040.60

Design	Prelim Plan A				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.50	

Survey Tool Program	Date 3/8/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,500.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
5,500.00	12,808.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
12,808.00	17,306.62	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	

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

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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

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MD Reference: Rig @ 3361.00usft (GL:3332' + 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
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	1.50	257.74	7,299.99	-0.28	-1.28	-0.27	1.50	1.50	0.00
7,400.00	3.00	257.74	7,399.91	-1.11	-5.12	-1.07	1.50	1.50	0.00
7,500.00	4.50	257.74	7,499.69	-2.50	-11.51	-2.40	1.50	1.50	0.00
7,533.33	5.00	257.74	7,532.91	-3.09	-14.20	-2.96	1.50	1.50	0.00
7,600.00	5.00	257.74	7,599.32	-4.32	-19.88	-4.15	0.00	0.00	0.00
7,700.00	5.00	257.74	7,698.94	-6.17	-28.40	-5.93	0.00	0.00	0.00
7,800.00	5.00	257.74	7,798.56	-8.02	-36.91	-7.70	0.00	0.00	0.00
7,900.00	5.00	257.74	7,898.18	-9.88	-45.43	-9.48	0.00	0.00	0.00
8,000.00	5.00	257.74	7,997.80	-11.73	-53.95	-11.26	0.00	0.00	0.00
8,100.00	5.00	257.74	8,097.42	-13.58	-62.46	-13.03	0.00	0.00	0.00
8,200.00	5.00	257.74	8,197.04	-15.43	-70.98	-14.81	0.00	0.00	0.00
8,280.03	5.00	257.74	8,276.76	-16.91	-77.80	-16.23	0.00	0.00	0.00
8,300.00	4.70	257.74	8,296.66	-17.27	-79.45	-16.58	1.50	-1.50	0.00
8,400.00	3.20	257.74	8,396.42	-18.73	-86.18	-17.98	1.50	-1.50	0.00
8,500.00	1.70	257.74	8,496.33	-19.64	-90.36	-18.85	1.50	-1.50	0.00
8,600.00	0.20	257.74	8,596.31	-20.00	-91.98	-19.19	1.50	-1.50	0.00
8,613.36	0.00	0.00	8,609.67	-20.00	-92.00	-19.20	1.50	-1.50	0.00
8,700.00	0.00	0.00	8,696.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
8,800.00	0.00	0.00	8,796.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
8,900.00	0.00	0.00	8,896.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,000.00	0.00	0.00	8,996.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,100.00	0.00	0.00	9,096.31	-20.00	-92.00	-19.20	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed Com
Well: 203H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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)
9,200.00	0.00	0.00	9,196.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,300.00	0.00	0.00	9,296.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,400.00	0.00	0.00	9,396.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,500.00	0.00	0.00	9,496.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,600.00	0.00	0.00	9,596.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,700.00	0.00	0.00	9,696.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,800.00	0.00	0.00	9,796.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
9,900.00	0.00	0.00	9,896.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,000.00	0.00	0.00	9,996.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,100.00	0.00	0.00	10,096.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,200.00	0.00	0.00	10,196.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,300.00	0.00	0.00	10,296.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,400.00	0.00	0.00	10,396.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,500.00	0.00	0.00	10,496.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,600.00	0.00	0.00	10,596.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,700.00	0.00	0.00	10,696.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,800.00	0.00	0.00	10,796.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
10,900.00	0.00	0.00	10,896.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,000.00	0.00	0.00	10,996.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,100.00	0.00	0.00	11,096.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,200.00	0.00	0.00	11,196.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,300.00	0.00	0.00	11,296.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,400.00	0.00	0.00	11,396.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,500.00	0.00	0.00	11,496.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,600.00	0.00	0.00	11,596.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,700.00	0.00	0.00	11,696.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,800.00	0.00	0.00	11,796.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
11,900.00	0.00	0.00	11,896.31	-20.00	-92.00	-19.20	0.00	0.00	0.00
12,006.69	0.00	0.00	12,005.00	-20.00	-92.00	-19.20	0.00	0.00	0.00
12,050.00	4.13	359.70	12,046.28	-18.51	-92.01	-17.71	10.00	10.00	0.00
12,100.00	9.13	359.70	12,095.93	-12.74	-92.04	-11.94	10.00	10.00	0.00
12,150.00	14.13	359.70	12,144.88	-2.66	-92.09	-1.86	10.00	10.00	0.00
12,200.00	19.13	359.70	12,192.78	11.64	-92.17	12.45	10.00	10.00	0.00
12,250.00	24.13	359.70	12,239.24	30.07	-92.26	30.87	10.00	10.00	0.00
12,300.00	29.13	359.70	12,283.92	52.47	-92.38	53.28	10.00	10.00	0.00
12,350.00	34.13	359.70	12,326.48	78.69	-92.52	79.49	10.00	10.00	0.00
12,400.00	39.13	359.70	12,366.59	108.51	-92.67	109.32	10.00	10.00	0.00
12,450.00	44.13	359.70	12,403.95	141.72	-92.85	142.52	10.00	10.00	0.00
12,500.00	49.13	359.70	12,438.28	178.05	-93.04	178.86	10.00	10.00	0.00
12,550.00	54.13	359.70	12,469.30	217.24	-93.24	218.05	10.00	10.00	0.00
12,600.00	59.13	359.70	12,496.80	258.98	-93.46	259.79	10.00	10.00	0.00
12,650.00	64.13	359.70	12,520.55	302.97	-93.69	303.77	10.00	10.00	0.00
12,700.00	69.13	359.70	12,540.37	348.85	-93.93	349.66	10.00	10.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed Com
Well: 203H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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)
12,750.00	74.13	359.70	12,556.12	396.29	-94.18	397.09	10.00	10.00	0.00
12,800.00	79.13	359.70	12,567.68	444.91	-94.43	445.72	10.00	10.00	0.00
12,808.00	79.93	359.70	12,569.13	452.78	-94.48	453.59	10.00	10.00	0.00
7"									
12,808.69	80.00	359.70	12,569.25	453.46	-94.48	454.27	10.00	10.00	0.00
12,833.69	80.00	359.70	12,573.59	478.08	-94.61	478.89	0.00	0.00	0.00
12,850.00	80.98	359.68	12,576.29	494.17	-94.69	494.97	6.00	6.00	-0.12
12,900.00	83.98	359.62	12,582.83	543.73	-95.00	544.54	6.00	6.00	-0.12
12,950.00	86.98	359.56	12,586.78	593.57	-95.35	594.38	6.00	6.00	-0.12
13,000.41	90.00	359.50	12,588.11	643.95	-95.76	644.76	6.00	6.00	-0.12
13,100.00	90.00	359.50	12,588.10	743.54	-96.62	744.35	0.00	0.00	0.00
13,200.00	90.00	359.50	12,588.10	843.53	-97.49	844.35	0.00	0.00	0.00
13,300.00	90.00	359.50	12,588.10	943.53	-98.35	944.35	0.00	0.00	0.00
13,400.00	90.00	359.50	12,588.10	1,043.53	-99.22	1,044.35	0.00	0.00	0.00
13,500.00	90.00	359.50	12,588.09	1,143.52	-100.08	1,144.35	0.00	0.00	0.00
13,600.00	90.00	359.50	12,588.09	1,243.52	-100.95	1,244.35	0.00	0.00	0.00
13,700.00	90.00	359.50	12,588.09	1,343.52	-101.81	1,344.35	0.00	0.00	0.00
13,800.00	90.00	359.50	12,588.09	1,443.51	-102.68	1,444.35	0.00	0.00	0.00
13,900.00	90.00	359.50	12,588.08	1,543.51	-103.54	1,544.35	0.00	0.00	0.00
14,000.00	90.00	359.50	12,588.08	1,643.50	-104.41	1,644.35	0.00	0.00	0.00
14,100.00	90.00	359.50	12,588.08	1,743.50	-105.27	1,744.35	0.00	0.00	0.00
14,200.00	90.00	359.50	12,588.08	1,843.50	-106.14	1,844.35	0.00	0.00	0.00
14,300.00	90.00	359.50	12,588.07	1,943.49	-107.00	1,944.35	0.00	0.00	0.00
14,400.00	90.00	359.50	12,588.07	2,043.49	-107.86	2,044.35	0.00	0.00	0.00
14,500.00	90.00	359.50	12,588.07	2,143.49	-108.73	2,144.35	0.00	0.00	0.00
14,600.00	90.00	359.50	12,588.07	2,243.48	-109.59	2,244.35	0.00	0.00	0.00
14,700.00	90.00	359.50	12,588.06	2,343.48	-110.46	2,344.35	0.00	0.00	0.00
14,800.00	90.00	359.50	12,588.06	2,443.47	-111.32	2,444.35	0.00	0.00	0.00
14,900.00	90.00	359.50	12,588.06	2,543.47	-112.19	2,544.35	0.00	0.00	0.00
15,000.00	90.00	359.50	12,588.06	2,643.47	-113.05	2,644.35	0.00	0.00	0.00
15,100.00	90.00	359.50	12,588.05	2,743.46	-113.92	2,744.35	0.00	0.00	0.00
15,200.00	90.00	359.50	12,588.05	2,843.46	-114.78	2,844.35	0.00	0.00	0.00
15,300.00	90.00	359.50	12,588.05	2,943.46	-115.65	2,944.35	0.00	0.00	0.00
15,400.00	90.00	359.50	12,588.05	3,043.45	-116.51	3,044.35	0.00	0.00	0.00
15,500.00	90.00	359.50	12,588.04	3,143.45	-117.38	3,144.35	0.00	0.00	0.00
15,600.00	90.00	359.50	12,588.04	3,243.44	-118.24	3,244.35	0.00	0.00	0.00
15,700.00	90.00	359.50	12,588.04	3,343.44	-119.11	3,344.35	0.00	0.00	0.00
15,800.00	90.00	359.50	12,588.04	3,443.44	-119.97	3,444.35	0.00	0.00	0.00
15,900.00	90.00	359.50	12,588.03	3,543.43	-120.84	3,544.35	0.00	0.00	0.00
16,000.00	90.00	359.50	12,588.03	3,643.43	-121.70	3,644.35	0.00	0.00	0.00
16,100.00	90.00	359.50	12,588.03	3,743.43	-122.57	3,744.35	0.00	0.00	0.00
16,200.00	90.00	359.50	12,588.03	3,843.42	-123.43	3,844.35	0.00	0.00	0.00
16,300.00	90.00	359.50	12,588.02	3,943.42	-124.30	3,944.35	0.00	0.00	0.00

Pro Directional

Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed Com
Well: 203H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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)
16,400.00	90.00	359.50	12,588.02	4,043.41	-125.16	4,044.35	0.00	0.00	0.00
16,500.00	90.00	359.50	12,588.02	4,143.41	-126.02	4,144.35	0.00	0.00	0.00
16,600.00	90.00	359.50	12,588.02	4,243.41	-126.89	4,244.35	0.00	0.00	0.00
16,700.00	90.00	359.50	12,588.02	4,343.40	-127.75	4,344.35	0.00	0.00	0.00
16,800.00	90.00	359.50	12,588.01	4,443.40	-128.62	4,444.35	0.00	0.00	0.00
16,900.00	90.00	359.50	12,588.01	4,543.40	-129.48	4,544.35	0.00	0.00	0.00
17,000.00	90.00	359.50	12,588.01	4,643.39	-130.35	4,644.35	0.00	0.00	0.00
17,100.00	90.00	359.50	12,588.01	4,743.39	-131.21	4,744.35	0.00	0.00	0.00
17,200.00	90.00	359.50	12,588.00	4,843.38	-132.08	4,844.35	0.00	0.00	0.00
17,306.62	90.00	359.50	12,588.00	4,950.00	-133.00	4,950.97	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
[BigFedCom203H]LPP	0.00	0.00	0.00	4,860.00	-132.00	414,677.00	788,293.00	32° 8' 11.894 N	103° 24' 7.107 W
- plan misses target center by 4861.79usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[BigFedCom203H]FPP	0.00	0.00	0.00	241.00	-92.00	410,058.00	788,333.00	32° 7' 26.184 N	103° 24' 7.106 W
- plan misses target center by 257.96usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[BigFedCom203H]PBHL	0.00	0.00	12,588.00	4,950.00	-133.00	414,767.00	788,292.00	32° 8' 12.784 N	103° 24' 7.109 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,500.00	5,500.00	9 5/8"	9-5/8	12-1/4
12,808.00	12,569.13	7"	7	8-3/4

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
		+N/-S (usft)	+E/-W (usft)
7200	7200	0	0
7533	7533	-3	-14
8280	8277	-17	-78
8613	8610	-20	-92
12,009	12,005	-20	-92
12,809	12,569	453	-94
12,834	12,574	478	-95
13,000	12,588	644	-96
17,305	12,588	4948	-133
17,307	12,588	4950	-133

Pro Directional

Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed Com
Well: 203H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Checked By: _____	Approved By: _____	Date: _____
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Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 A				
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria				
Interpolation Method:	Stations	Error Model:	ISCWSA		
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D		
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Pedal Curve		
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied		

Survey Tool Program	Date 3/7/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,500.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
5,500.00	12,808.00	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	
12,808.00	17,306.62	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Biggers Fed						
201H - OH - Prelim Plan A	4,507.81	4,528.81	3,538.70	3,506.77	110.822	CC
201H - OH - Prelim Plan A	17,306.62	17,237.63	3,601.01	3,431.61	21.257	ES, SF
202H - OH - Prelim Plan A	12,964.39	13,009.90	1,799.70	1,734.50	27.602	CC
202H - OH - Prelim Plan A	17,306.62	17,351.30	1,800.11	1,630.68	10.625	ES, SF
215H - OH - Prelim Plan A	912.55	923.55	1,962.54	1,956.42	320.612	CC
215H - OH - Prelim Plan A	1,000.00	1,000.00	1,962.58	1,955.87	292.540	ES
215H - OH - Prelim Plan A	17,306.62	17,512.27	2,704.04	2,534.62	15.960	SF
Biggers Fed Com						
214H - OH - Prelim Plan A	1,000.00	1,000.00	41.73	35.02	6.221	CC, ES
214H - OH - Prelim Plan A	17,306.62	17,479.86	909.36	737.16	5.281	SF
217H - OH - Prelim Plan A	648.06	648.06	30.00	25.82	7.177	CC
217H - OH - Prelim Plan A	800.00	799.83	30.40	25.15	5.788	ES
217H - OH - Prelim Plan A	17,306.62	17,488.63	909.35	737.13	5.280	SF

Offset Design Biggers Fed - 201H - OH - Prelim Plan A											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD - OWSG, 5420-MWD - OWSG, 12755-MWD - OWSG											Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation		Separation Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)		(usft)	
0.00	0.00	21.00	21.00	0.00	0.03	-85.98	248.00	-3,530.00	3,538.70				
100.00	100.00	121.00	121.00	0.13	0.20	-85.98	248.00	-3,530.00	3,538.70	3,538.37	0.33	N/A	
200.00	200.00	221.00	221.00	0.49	0.56	-85.98	248.00	-3,530.00	3,538.70	3,537.65	1.05	3,380.697	
300.00	300.00	321.00	321.00	0.84	0.92	-85.98	248.00	-3,530.00	3,538.70	3,536.94	1.76	2,006.430	
400.00	400.00	421.00	421.00	1.20	1.28	-85.98	248.00	-3,530.00	3,538.70	3,536.22	2.48	1,426.537	
500.00	500.00	521.00	521.00	1.56	1.64	-85.98	248.00	-3,530.00	3,538.70	3,535.50	3.20	1,106.686	
600.00	600.00	621.00	621.00	1.92	1.99	-85.98	248.00	-3,530.00	3,538.70	3,534.79	3.91	903.996	
700.00	700.00	721.00	721.00	2.28	2.35	-85.98	248.00	-3,530.00	3,538.70	3,534.07	4.63	764.059	
800.00	800.00	821.00	821.00	2.64	2.71	-85.98	248.00	-3,530.00	3,538.70	3,533.35	5.35	661.638	
900.00	900.00	921.00	921.00	3.00	3.07	-85.98	248.00	-3,530.00	3,538.70	3,532.64	6.07	583.430	
1,000.00	1,000.00	1,021.00	1,021.00	3.35	3.43	-85.98	248.00	-3,530.00	3,538.70	3,531.92	6.78	521.757	
1,100.00	1,100.00	1,121.00	1,121.00	3.71	3.79	-85.98	248.00	-3,530.00	3,538.70	3,531.20	7.50	471.876	

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

Pro Directional

Anticollision Report

Company: Malador Resources
 Project: Lea County, NM
 Reference Site: Biggers Fed Com
 Site Error: 0.00 usft
 Reference Well: 203H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
 TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
 MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 201H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5420-MWD - OWSG, 12755-MWD - OWSG												Offset Well Error:	0.00 usft
Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N-S	+E-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
1,200.00	1,200.00	1,221.00	1,221.00	4.07	4.15	-85.98	248.00	-3,530.00	3,538.70	3,530.48	8.22	430.700	
1,300.00	1,300.00	1,321.00	1,321.00	4.43	4.50	-85.98	248.00	-3,530.00	3,538.70	3,529.77	8.93	396.133	
1,400.00	1,400.00	1,421.00	1,421.00	4.79	4.86	-85.98	248.00	-3,530.00	3,538.70	3,529.05	9.65	366.703	
1,500.00	1,500.00	1,521.00	1,521.00	5.15	5.22	-85.98	248.00	-3,530.00	3,538.70	3,528.33	10.37	341.343	
1,600.00	1,600.00	1,621.00	1,621.00	5.50	5.58	-85.98	248.00	-3,530.00	3,538.70	3,527.62	11.08	319.264	
1,700.00	1,700.00	1,721.00	1,721.00	5.86	5.94	-85.98	248.00	-3,530.00	3,538.70	3,526.90	11.80	299.867	
1,800.00	1,800.00	1,821.00	1,821.00	6.22	6.30	-85.98	248.00	-3,530.00	3,538.70	3,526.18	12.52	282.593	
1,900.00	1,900.00	1,921.00	1,921.00	6.58	6.66	-85.98	248.00	-3,530.00	3,538.70	3,525.47	13.23	267.379	
2,000.00	2,000.00	2,021.00	2,021.00	6.94	7.01	-85.98	248.00	-3,530.00	3,538.70	3,524.75	13.95	253.639	
2,100.00	2,100.00	2,121.00	2,121.00	7.30	7.37	-85.98	248.00	-3,530.00	3,538.70	3,524.03	14.67	241.242	
2,200.00	2,200.00	2,221.00	2,221.00	7.66	7.73	-85.98	248.00	-3,530.00	3,538.70	3,523.32	15.39	230.001	
2,300.00	2,300.00	2,321.00	2,321.00	8.01	8.09	-85.98	248.00	-3,530.00	3,538.70	3,522.60	16.10	219.760	
2,400.00	2,400.00	2,421.00	2,421.00	8.37	8.45	-85.98	248.00	-3,530.00	3,538.70	3,521.88	16.82	210.393	
2,500.00	2,500.00	2,521.00	2,521.00	8.73	8.81	-85.98	248.00	-3,530.00	3,538.70	3,521.16	17.54	201.791	
2,600.00	2,600.00	2,621.00	2,621.00	9.09	9.16	-85.98	248.00	-3,530.00	3,538.70	3,520.45	18.25	193.866	
2,700.00	2,700.00	2,721.00	2,721.00	9.45	9.52	-85.98	248.00	-3,530.00	3,538.70	3,519.73	18.97	186.539	
2,800.00	2,800.00	2,821.00	2,821.00	9.81	9.88	-85.98	248.00	-3,530.00	3,538.70	3,519.01	19.69	179.746	
2,900.00	2,900.00	2,921.00	2,921.00	10.16	10.24	-85.98	248.00	-3,530.00	3,538.70	3,518.30	20.40	173.430	
3,000.00	3,000.00	3,021.00	3,021.00	10.52	10.60	-85.98	248.00	-3,530.00	3,538.70	3,517.58	21.12	167.543	
3,100.00	3,100.00	3,121.00	3,121.00	10.88	10.96	-85.98	248.00	-3,530.00	3,538.70	3,516.86	21.84	162.043	
3,200.00	3,200.00	3,221.00	3,221.00	11.24	11.32	-85.98	248.00	-3,530.00	3,538.70	3,516.15	22.56	156.892	
3,300.00	3,300.00	3,321.00	3,321.00	11.60	11.67	-85.98	248.00	-3,530.00	3,538.70	3,515.43	23.27	152.058	
3,400.00	3,400.00	3,421.00	3,421.00	11.96	12.03	-85.98	248.00	-3,530.00	3,538.70	3,514.71	23.99	147.514	
3,500.00	3,500.00	3,521.00	3,521.00	12.32	12.39	-85.98	248.00	-3,530.00	3,538.70	3,514.00	24.71	143.233	
3,600.00	3,600.00	3,621.00	3,621.00	12.67	12.75	-85.98	248.00	-3,530.00	3,538.70	3,513.28	25.42	139.194	
3,700.00	3,700.00	3,721.00	3,721.00	13.03	13.11	-85.98	248.00	-3,530.00	3,538.70	3,512.56	26.14	135.376	
3,800.00	3,800.00	3,821.00	3,821.00	13.39	13.47	-85.98	248.00	-3,530.00	3,538.70	3,511.84	26.86	131.762	
3,900.00	3,900.00	3,921.00	3,921.00	13.75	13.82	-85.98	248.00	-3,530.00	3,538.70	3,511.13	27.57	128.336	
4,000.00	4,000.00	4,021.00	4,021.00	14.11	14.18	-85.98	248.00	-3,530.00	3,538.70	3,510.41	28.29	125.084	
4,100.00	4,100.00	4,121.00	4,121.00	14.47	14.54	-85.98	248.00	-3,530.00	3,538.70	3,509.69	29.01	121.993	
4,200.00	4,200.00	4,221.00	4,221.00	14.82	14.90	-85.98	248.00	-3,530.00	3,538.70	3,508.98	29.72	119.050	
4,300.00	4,300.00	4,321.00	4,321.00	15.18	15.26	-85.98	248.00	-3,530.00	3,538.70	3,508.26	30.44	116.246	
4,400.00	4,400.00	4,421.00	4,421.00	15.54	15.62	-85.98	248.00	-3,530.00	3,538.70	3,507.54	31.16	113.572	
4,500.00	4,500.00	4,521.00	4,521.00	15.90	15.98	-85.98	248.00	-3,530.00	3,538.70	3,506.83	31.88	111.017	
4,507.81	4,507.81	4,528.81	4,528.81	15.93	16.00	-85.98	248.00	-3,530.00	3,538.70	3,506.77	31.93	110.822 CC	
4,600.00	4,600.00	4,614.96	4,614.96	16.26	16.31	-85.98	247.97	-3,530.01	3,538.72	3,506.15	32.57	108.657	
4,700.00	4,700.00	4,686.20	4,686.20	16.62	16.55	-86.00	247.16	-3,530.48	3,539.30	3,506.13	33.17	106.708	
4,800.00	4,800.00	4,757.38	4,757.34	16.98	16.79	-86.03	245.19	-3,531.61	3,540.69	3,506.93	33.76	104.890	
4,900.00	4,900.00	4,828.46	4,828.32	17.33	17.02	-86.08	242.08	-3,533.40	3,542.89	3,508.55	34.34	103.171	
5,000.00	5,000.00	4,899.69	4,899.69	17.69	17.25	-86.15	237.79	-3,535.86	3,545.92	3,511.00	34.92	101.532	
5,100.00	5,100.00	4,985.14	4,984.52	18.05	17.53	-86.26	231.47	-3,539.48	3,549.66	3,514.11	35.56	99.834	
5,200.00	5,200.00	5,084.76	5,083.76	18.41	17.86	-86.38	223.94	-3,543.80	3,553.52	3,517.27	36.24	98.052	
5,300.00	5,300.00	5,184.38	5,183.00	18.77	18.19	-86.51	216.41	-3,548.12	3,557.39	3,520.46	36.93	96.332	
5,400.00	5,400.00	5,284.00	5,282.24	19.13	18.52	-86.63	208.88	-3,552.43	3,561.27	3,523.66	37.62	94.671	
5,500.00	5,500.00	5,383.62	5,381.48	19.31	18.86	-86.76	201.35	-3,556.75	3,565.18	3,527.05	38.13	93.500	
5,600.00	5,600.00	5,483.24	5,480.72	19.31	19.06	-86.88	193.81	-3,561.07	3,569.10	3,530.77	38.33	93.105	
5,700.00	5,700.00	5,582.86	5,579.96	19.33	19.09	-87.01	186.28	-3,565.39	3,573.04	3,534.65	38.39	93.081	
5,800.00	5,800.00	5,682.48	5,679.20	19.35	19.11	-87.13	178.75	-3,569.71	3,577.00	3,538.57	38.42	93.092	
5,900.00	5,900.00	5,782.10	5,778.45	19.37	19.14	-87.26	171.22	-3,574.03	3,580.97	3,542.49	38.48	93.068	
6,000.00	6,000.00	5,881.72	5,877.69	19.41	19.18	-87.38	163.69	-3,578.35	3,584.96	3,546.41	38.54	93.011	
6,100.00	6,100.00	5,981.34	5,976.93	19.45	19.22	-87.50	156.16	-3,582.67	3,588.96	3,550.34	38.62	92.921	
6,200.00	6,200.00	6,080.96	6,076.17	19.49	19.27	-87.63	148.62	-3,586.99	3,592.99	3,554.27	38.72	92.798	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 201H - OH - Prelim Plan A													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD - OWSG, 5420-MWD - OWSG, 12755-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		
6,300.00	6,300.00	6,180.58	6,175.41	19.54	19.33	-87.75	141.09	-3,591.31	3,597.03	3,558.20	38.83	92.643		
6,400.00	6,400.00	6,280.20	6,274.65	19.60	19.39	-87.87	133.56	-3,595.63	3,601.08	3,562.13	38.95	92.457		
6,500.00	6,500.00	6,379.81	6,373.89	19.67	19.47	-87.99	126.03	-3,599.95	3,605.15	3,566.07	39.08	92.241		
6,600.00	6,600.00	6,479.43	6,473.13	19.74	19.55	-88.12	118.50	-3,604.26	3,609.24	3,570.01	39.23	91.995		
6,700.00	6,700.00	6,579.05	6,572.37	19.82	19.63	-88.24	110.96	-3,608.58	3,613.35	3,573.95	39.40	91.720		
6,800.00	6,800.00	6,678.67	6,671.61	19.90	19.73	-88.36	103.43	-3,612.90	3,617.47	3,577.90	39.57	91.418		
6,900.00	6,900.00	6,778.29	6,770.85	19.99	19.83	-88.48	95.90	-3,617.22	3,621.61	3,581.85	39.76	91.089		
7,000.00	7,000.00	6,877.91	6,870.09	20.09	19.94	-88.60	88.37	-3,621.54	3,625.76	3,585.80	39.96	90.735		
7,100.00	7,100.00	6,977.53	6,969.33	20.19	20.05	-88.72	80.84	-3,625.86	3,629.93	3,589.76	40.17	90.357		
7,200.00	7,200.00	7,077.15	7,068.57	20.30	20.18	-88.84	73.30	-3,630.18	3,634.12	3,593.72	40.40	89.955		
7,300.00	7,299.99	7,176.84	7,167.68	20.41	20.30	13.30	65.77	-3,634.50	3,637.05	3,596.41	40.63	89.509		
7,400.00	7,399.91	7,276.60	7,267.26	20.52	20.44	13.19	58.22	-3,638.83	3,637.44	3,596.57	40.88	88.987		
7,500.00	7,499.69	7,376.39	7,366.67	20.64	20.58	13.10	50.68	-3,643.15	3,635.30	3,594.17	41.13	88.384		
7,533.33	7,532.91	7,409.64	7,399.80	20.68	20.63	13.07	48.17	-3,644.60	3,634.02	3,592.80	41.22	88.165		
7,600.00	7,599.32	7,476.14	7,466.04	20.77	20.73	13.01	43.14	-3,647.48	3,631.19	3,589.79	41.40	87.716		
7,700.00	7,698.94	7,575.89	7,565.41	20.90	20.88	12.93	35.60	-3,651.80	3,626.94	3,585.26	41.67	87.030		
7,800.00	7,798.56	7,675.64	7,664.78	21.04	21.04	12.84	28.05	-3,656.13	3,622.70	3,580.74	41.96	86.329		
7,900.00	7,898.18	7,775.39	7,764.15	21.18	21.21	12.75	20.51	-3,660.45	3,618.47	3,576.21	42.26	85.616		
8,000.00	7,997.80	7,875.14	7,863.52	21.33	21.38	12.66	12.97	-3,664.78	3,614.25	3,571.68	42.57	84.892		
8,100.00	8,097.42	7,974.89	7,962.89	21.49	21.56	12.57	5.43	-3,669.10	3,610.04	3,567.14	42.90	84.157		
8,200.00	8,197.04	8,074.64	8,062.26	21.65	21.74	12.48	-2.11	-3,673.43	3,605.84	3,562.61	43.23	83.414		
8,280.03	8,276.76	8,154.47	8,141.79	21.78	21.89	12.40	-8.15	-3,676.89	3,602.48	3,558.98	43.50	82.813		
8,300.00	8,296.66	8,174.39	8,161.64	21.82	21.93	12.38	-9.65	-3,677.75	3,601.69	3,558.12	43.57	82.664		
8,400.00	8,396.42	8,274.17	8,261.04	21.99	22.12	12.28	-17.20	-3,682.08	3,599.30	3,555.38	43.92	81.947		
8,443.25	8,439.62	8,317.34	8,304.04	22.06	22.20	12.23	-20.46	-3,683.95	3,599.06	3,554.98	44.08	81.653		
8,500.00	8,496.33	8,407.55	8,393.96	22.16	22.38	12.15	-26.71	-3,687.53	3,599.30	3,554.94	44.36	81.146		
8,600.00	8,596.31	8,596.71	8,582.92	22.33	22.74	12.04	-33.90	-3,691.65	3,599.87	3,554.97	44.90	80.179		
8,613.36	8,609.67	8,622.01	8,608.21	22.36	22.79	-90.23	-34.24	-3,691.85	3,599.95	3,554.98	44.97	80.058		
8,700.00	8,696.31	8,731.11	8,717.31	22.51	22.97	-90.23	-34.50	-3,692.00	3,600.03	3,554.72	45.31	79.460		
8,800.00	8,796.31	8,831.11	8,817.31	22.69	23.14	-90.23	-34.50	-3,692.00	3,600.03	3,554.37	45.66	78.850		
8,900.00	8,896.31	8,931.11	8,917.31	22.88	23.31	-90.23	-34.50	-3,692.00	3,600.03	3,554.01	46.02	78.235		
9,000.00	8,996.31	9,031.11	9,017.31	23.07	23.48	-90.23	-34.50	-3,692.00	3,600.03	3,553.65	46.38	77.616		
9,100.00	9,096.31	9,131.11	9,117.31	23.27	23.66	-90.23	-34.50	-3,692.00	3,600.03	3,553.27	46.76	76.993		
9,200.00	9,196.31	9,231.11	9,217.31	23.47	23.85	-90.23	-34.50	-3,692.00	3,600.03	3,552.89	47.14	76.367		
9,300.00	9,296.31	9,331.11	9,317.31	23.67	24.03	-90.23	-34.50	-3,692.00	3,600.03	3,552.50	47.53	75.739		
9,400.00	9,396.31	9,431.11	9,417.31	23.88	24.23	-90.23	-34.50	-3,692.00	3,600.03	3,552.10	47.93	75.110		
9,500.00	9,496.31	9,531.11	9,517.31	24.09	24.42	-90.23	-34.50	-3,692.00	3,600.03	3,551.69	48.34	74.479		
9,600.00	9,596.31	9,631.11	9,617.31	24.30	24.62	-90.23	-34.50	-3,692.00	3,600.03	3,551.28	48.75	73.848		
9,700.00	9,696.31	9,731.11	9,717.31	24.52	24.82	-90.23	-34.50	-3,692.00	3,600.03	3,550.86	49.17	73.217		
9,800.00	9,796.31	9,831.11	9,817.31	24.74	25.03	-90.23	-34.50	-3,692.00	3,600.03	3,550.43	49.60	72.587		
9,900.00	9,896.31	9,931.11	9,917.31	24.96	25.24	-90.23	-34.50	-3,692.00	3,600.03	3,550.00	50.03	71.959		
10,000.00	9,996.31	10,031.11	10,017.31	25.19	25.45	-90.23	-34.50	-3,692.00	3,600.03	3,549.56	50.47	71.331		
10,100.00	10,096.31	10,131.11	10,117.31	25.42	25.67	-90.23	-34.50	-3,692.00	3,600.03	3,549.11	50.92	70.706		
10,200.00	10,196.31	10,231.11	10,217.31	25.65	25.89	-90.23	-34.50	-3,692.00	3,600.03	3,548.66	51.37	70.084		
10,300.00	10,296.31	10,331.11	10,317.31	25.88	26.11	-90.23	-34.50	-3,692.00	3,600.03	3,548.20	51.83	69.464		
10,400.00	10,396.31	10,431.11	10,417.31	26.12	26.33	-90.23	-34.50	-3,692.00	3,600.03	3,547.74	52.29	68.848		
10,500.00	10,496.31	10,531.11	10,517.31	26.36	26.56	-90.23	-34.50	-3,692.00	3,600.03	3,547.27	52.76	68.235		
10,600.00	10,596.31	10,631.11	10,617.31	26.61	26.79	-90.23	-34.50	-3,692.00	3,600.03	3,546.79	53.23	67.626		
10,700.00	10,696.31	10,731.11	10,717.31	26.85	27.03	-90.23	-34.50	-3,692.00	3,600.03	3,546.31	53.72	67.021		
10,800.00	10,796.31	10,831.11	10,817.31	27.10	27.26	-90.23	-34.50	-3,692.00	3,600.03	3,545.83	54.20	66.420		
10,900.00	10,896.31	10,931.11	10,917.31	27.35	27.50	-90.23	-34.50	-3,692.00	3,600.03	3,545.34	54.69	65.824		
11,000.00	10,996.31	11,031.11	11,017.31	27.61	27.75	-90.23	-34.50	-3,692.00	3,600.03	3,544.84	55.19	65.233		

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 201H - OH - Prelim Plan A

Survey Program: 0-MWD - OWSG, 5420-MWD - OWSG, 12755-MWD - OWSG

Offset Site Error: 0.00 usft

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)			
11,100.00	11,096.31	11,131.11	11,117.31	27.86	27.99	-90.23	-34.50	-3,692.00	3,600.03	3,544.34	64.646
11,200.00	11,196.31	11,231.11	11,217.31	28.12	28.24	-90.23	-34.50	-3,692.00	3,600.03	3,543.84	64.065
11,300.00	11,296.31	11,331.11	11,317.31	28.38	28.49	-90.23	-34.50	-3,692.00	3,600.03	3,543.33	63.489
11,400.00	11,396.31	11,431.11	11,417.31	28.64	28.74	-90.23	-34.50	-3,692.00	3,600.03	3,542.81	62.918
11,500.00	11,496.31	11,531.11	11,517.31	28.91	28.99	-90.23	-34.50	-3,692.00	3,600.03	3,542.29	62.353
11,600.00	11,596.31	11,631.11	11,617.31	29.17	29.25	-90.23	-34.50	-3,692.00	3,600.03	3,541.77	61.793
11,700.00	11,696.31	11,731.11	11,717.31	29.44	29.51	-90.23	-34.50	-3,692.00	3,600.03	3,541.24	61.240
11,800.00	11,796.31	11,831.11	11,817.31	29.71	29.77	-90.23	-34.50	-3,692.00	3,600.03	3,540.71	60.691
11,900.00	11,896.31	11,931.11	11,917.31	29.98	30.03	-90.23	-34.50	-3,692.00	3,600.03	3,540.18	60.149
11,910.40	11,906.71	11,941.51	11,927.71	30.01	30.05	-90.23	-34.50	-3,692.00	3,600.03	3,540.12	60.093
12,008.69	12,005.00	12,039.05	12,024.97	30.28	30.30	-90.14	-28.61	-3,692.03	3,600.04	3,539.61	59.580
12,050.00	12,046.28	12,079.23	12,064.51	30.39	30.39	-89.74	-21.47	-3,692.06	3,600.05	3,539.42	59.378
12,100.00	12,095.93	12,127.36	12,111.05	30.53	30.50	-89.63	-9.30	-3,692.11	3,600.08	3,539.21	59.145
12,150.00	12,144.88	12,174.95	12,155.92	30.67	30.59	-89.53	6.53	-3,692.18	3,600.11	3,539.02	58.924
12,200.00	12,192.78	12,222.04	12,198.87	30.80	30.68	-89.43	25.81	-3,692.26	3,600.16	3,538.84	58.713
12,250.00	12,239.24	12,268.67	12,239.70	30.92	30.76	-89.33	48.30	-3,692.36	3,600.20	3,538.67	58.511
12,300.00	12,283.92	12,314.86	12,278.21	31.04	30.83	-89.23	73.79	-3,692.47	3,600.26	3,538.52	58.316
12,350.00	12,326.48	12,360.67	12,314.25	31.16	30.90	-89.15	102.05	-3,692.60	3,600.31	3,538.37	58.124
12,400.00	12,366.59	12,405.11	12,347.66	31.28	30.96	-89.07	132.83	-3,692.73	3,600.36	3,538.21	57.934
12,450.00	12,403.95	12,451.23	12,378.32	31.40	31.02	-88.99	165.92	-3,692.87	3,600.41	3,538.06	57.741
12,500.00	12,438.28	12,496.06	12,406.10	31.54	31.08	-88.92	201.08	-3,693.03	3,600.46	3,537.89	57.544
12,550.00	12,469.30	12,540.63	12,430.92	31.68	31.14	-88.86	238.09	-3,693.19	3,600.50	3,537.70	57.338
12,600.00	12,496.80	12,584.97	12,452.68	31.84	31.22	-88.81	276.72	-3,693.36	3,600.53	3,537.50	57.123
12,650.00	12,520.55	12,629.13	12,471.32	32.00	31.30	-88.77	316.73	-3,693.53	3,600.55	3,537.27	56.895
12,700.00	12,540.37	12,673.12	12,486.77	32.17	31.40	-88.73	357.91	-3,693.71	3,600.57	3,537.01	56.654
12,750.00	12,556.12	12,716.99	12,498.99	32.35	31.50	-88.71	400.03	-3,693.90	3,600.57	3,536.73	56.399
12,800.00	12,567.68	12,761.33	12,508.04	32.54	36.96	-88.69	443.43	-3,694.09	3,600.55	3,536.42	56.139
12,808.69	12,569.25	12,770.02	12,509.55	37.28	36.97	-88.69	451.98	-3,694.12	3,600.55	3,536.37	56.103
12,833.69	12,573.59	12,792.99	12,513.47	37.29	36.98	-88.69	474.61	-3,694.22	3,600.53	3,536.25	56.008
12,850.00	12,576.29	12,806.79	12,515.61	37.30	36.99	-88.68	488.25	-3,694.29	3,600.53	3,536.17	55.943
12,900.00	12,582.83	12,849.09	12,520.94	37.33	37.01	-88.67	530.21	-3,694.52	3,600.51	3,535.90	55.726
12,950.00	12,586.78	12,891.39	12,524.40	37.36	37.03	-88.67	572.36	-3,694.81	3,600.48	3,535.58	55.478
13,000.41	12,588.11	12,934.04	12,526.00	37.38	37.05	-88.68	614.98	-3,695.14	3,600.46	3,535.23	55.199
13,012.79	12,588.10	12,953.28	12,526.11	37.39	37.06	-88.68	624.73	-3,695.22	3,600.45	3,535.11	55.103
13,100.00	12,588.10	13,031.01	12,526.10	37.44	37.11	-88.68	711.94	-3,695.99	3,600.46	3,534.44	54.534
13,200.00	12,588.10	13,131.01	12,526.10	37.50	37.16	-88.68	811.94	-3,696.87	3,600.48	3,533.50	53.758
13,300.00	12,588.10	13,231.01	12,526.10	37.56	37.23	-88.68	911.93	-3,697.75	3,600.49	3,532.41	52.887
13,400.00	12,588.10	13,331.01	12,526.10	37.63	37.29	-88.68	1,011.93	-3,698.62	3,600.50	3,531.18	51.939
13,500.00	12,588.09	13,431.01	12,526.09	37.72	37.37	-88.68	1,111.92	-3,699.50	3,600.51	3,529.82	70.70
13,600.00	12,588.09	13,531.01	12,526.09	37.86	37.45	-88.68	1,211.92	-3,700.38	3,600.53	3,528.33	49.867
13,700.00	12,588.09	13,631.01	12,526.09	38.28	37.56	-88.68	1,311.92	-3,701.26	3,600.54	3,526.72	48.772
13,800.00	12,588.09	13,731.01	12,526.09	39.08	37.74	-88.68	1,411.91	-3,702.13	3,600.55	3,525.00	47.653
13,900.00	12,588.08	13,831.01	12,526.09	40.01	38.09	-88.68	1,511.91	-3,703.01	3,600.57	3,523.17	46.522
14,000.00	12,588.08	13,931.01	12,526.08	41.01	38.72	-88.68	1,611.90	-3,703.89	3,600.58	3,521.25	45.389
14,100.00	12,588.08	14,031.01	12,526.08	42.05	39.57	-88.68	1,711.90	-3,704.77	3,600.59	3,519.24	44.260
14,200.00	12,588.08	14,131.01	12,526.08	43.14	40.53	-88.68	1,811.90	-3,705.65	3,600.61	3,517.15	43.143
14,300.00	12,588.07	14,231.01	12,526.08	44.26	41.55	-88.68	1,911.89	-3,706.52	3,600.62	3,514.98	42.044
14,400.00	12,588.07	14,331.01	12,526.07	45.42	42.63	-88.68	2,011.89	-3,707.40	3,600.63	3,512.74	40.966
14,500.00	12,588.07	14,431.01	12,526.07	46.60	43.74	-88.68	2,111.89	-3,708.28	3,600.65	3,510.43	39.913
14,600.00	12,588.07	14,531.01	12,526.07	47.82	44.90	-88.68	2,211.88	-3,709.16	3,600.66	3,508.06	38.887
14,700.00	12,588.06	14,631.01	12,526.07	49.06	46.08	-88.68	2,311.88	-3,710.03	3,600.67	3,505.64	37.889
14,800.00	12,588.06	14,731.01	12,526.06	50.33	47.30	-88.68	2,411.87	-3,710.91	3,600.68	3,503.16	36.922

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 201H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5420-MWD - OWSG, 12755-MWD - OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.00	12,588.06	14,831.01	12,526.06	51.62	48.54	-88.68	2,511.87	-3,711.79	3,600.70	3,500.64	100.06	35.986	
15,000.00	12,588.06	14,931.01	12,526.06	52.93	49.81	-88.68	2,611.87	-3,712.67	3,600.71	3,498.07	102.64	35.081	
15,100.00	12,588.05	15,031.01	12,526.06	54.26	51.10	-88.68	2,711.86	-3,713.55	3,600.72	3,495.46	105.26	34.207	
15,200.00	12,588.05	15,131.01	12,526.05	55.60	52.41	-88.68	2,811.86	-3,714.42	3,600.74	3,492.81	107.92	33.363	
15,300.00	12,588.05	15,231.01	12,526.05	56.96	53.74	-88.68	2,911.85	-3,715.30	3,600.75	3,490.13	110.62	32.550	
15,400.00	12,588.05	15,331.01	12,526.05	58.34	55.09	-88.68	3,011.85	-3,716.18	3,600.76	3,487.41	113.35	31.766	
15,500.00	12,588.04	15,431.01	12,526.05	59.74	56.46	-88.68	3,111.85	-3,717.06	3,600.78	3,484.66	116.11	31.011	
15,600.00	12,588.04	15,531.01	12,526.04	61.14	57.84	-88.68	3,211.84	-3,717.94	3,600.79	3,481.89	118.90	30.284	
15,700.00	12,588.04	15,631.01	12,526.04	62.56	59.24	-88.68	3,311.84	-3,718.81	3,600.80	3,479.08	121.72	29.583	
15,800.00	12,588.04	15,731.01	12,526.04	63.99	60.65	-88.68	3,411.84	-3,719.69	3,600.81	3,476.26	124.56	28.909	
15,900.00	12,588.03	15,831.01	12,526.04	65.43	62.07	-88.68	3,511.83	-3,720.57	3,600.83	3,473.41	127.42	28.259	
16,000.00	12,588.03	15,931.01	12,526.03	66.88	63.50	-88.68	3,611.83	-3,721.45	3,600.84	3,470.53	130.31	27.633	
16,100.00	12,588.03	16,031.01	12,526.03	68.34	64.95	-88.68	3,711.82	-3,722.32	3,600.85	3,467.64	133.21	27.031	
16,200.00	12,588.03	16,131.01	12,526.03	69.81	66.40	-88.68	3,811.82	-3,723.20	3,600.87	3,464.73	136.14	26.450	
16,300.00	12,588.02	16,231.01	12,526.03	71.29	67.86	-88.68	3,911.82	-3,724.06	3,600.88	3,461.80	139.08	25.891	
16,400.00	12,588.02	16,331.01	12,526.02	72.78	69.34	-88.68	4,011.81	-3,724.96	3,600.89	3,458.85	142.04	25.352	
16,500.00	12,588.02	16,431.01	12,526.02	74.27	70.82	-88.68	4,111.81	-3,725.84	3,600.91	3,455.89	145.01	24.832	
16,600.00	12,588.02	16,531.01	12,526.02	75.77	72.30	-88.68	4,211.80	-3,726.71	3,600.92	3,452.92	148.00	24.330	
16,700.00	12,588.02	16,631.01	12,526.02	77.27	73.80	-88.68	4,311.80	-3,727.59	3,600.93	3,449.93	151.00	23.847	
16,800.00	12,588.01	16,731.01	12,526.01	78.79	75.30	-88.68	4,411.80	-3,728.47	3,600.95	3,446.93	154.02	23.380	
16,900.00	12,588.01	16,831.01	12,526.01	80.31	76.81	-88.68	4,511.79	-3,729.35	3,600.96	3,443.91	157.05	22.929	
17,000.00	12,588.01	16,931.01	12,526.01	81.83	78.33	-88.68	4,611.79	-3,730.22	3,600.97	3,440.88	160.09	22.494	
17,100.00	12,588.01	17,031.01	12,526.01	83.36	79.85	-88.68	4,711.79	-3,731.10	3,600.98	3,437.85	163.14	22.073	
17,200.00	12,588.00	17,131.01	12,526.00	84.89	81.38	-88.68	4,811.78	-3,731.98	3,601.00	3,434.80	166.20	21.667	
17,306.62	12,588.00	17,237.63	12,526.00	86.53	82.94	-88.68	4,918.40	-3,732.92	3,601.01	3,431.61	169.40	21.257 ES, SF	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 202H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: O-MWD - OWSG, 5500-MWD - OWSG, 12835-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre -N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	11.00	11.00	0.00	0.01	-81.37	290.00	-1,911.00	1,932.88				
100.00	100.00	111.00	111.00	0.13	0.17	-81.37	290.00	-1,911.00	1,932.88	1,932.58	0.30	6,535.751	
200.00	200.00	211.00	211.00	0.49	0.53	-81.37	290.00	-1,911.00	1,932.88	1,931.87	1.01	1,908.672	
300.00	300.00	311.00	311.00	0.84	0.89	-81.37	290.00	-1,911.00	1,932.88	1,931.15	1.73	1,117.513	
400.00	400.00	411.00	411.00	1.20	1.24	-81.37	290.00	-1,911.00	1,932.88	1,930.43	2.45	790.037	
500.00	500.00	511.00	511.00	1.56	1.60	-81.37	290.00	-1,911.00	1,932.88	1,929.72	3.16	610.992	
600.00	600.00	611.00	611.00	1.92	1.96	-81.37	290.00	-1,911.00	1,932.88	1,929.00	3.88	498.106	
700.00	700.00	711.00	711.00	2.28	2.32	-81.37	290.00	-1,911.00	1,932.88	1,928.28	4.60	420.429	
800.00	800.00	811.00	811.00	2.64	2.68	-81.37	290.00	-1,911.00	1,932.88	1,927.56	5.31	363.710	
900.00	900.00	911.00	911.00	3.00	3.04	-81.37	290.00	-1,911.00	1,932.88	1,926.85	6.03	320.476	
1,000.00	1,000.00	1,011.00	1,011.00	3.35	3.39	-81.37	290.00	-1,911.00	1,932.88	1,926.13	6.75	286.428	
1,100.00	1,100.00	1,111.00	1,111.00	3.71	3.75	-81.37	290.00	-1,911.00	1,932.88	1,925.41	7.47	258.920	
1,200.00	1,200.00	1,211.00	1,211.00	4.07	4.11	-81.37	290.00	-1,911.00	1,932.88	1,924.70	8.18	236.232	
1,300.00	1,300.00	1,311.00	1,311.00	4.43	4.47	-81.37	290.00	-1,911.00	1,932.88	1,923.98	8.90	217.200	
1,400.00	1,400.00	1,411.00	1,411.00	4.79	4.83	-81.37	290.00	-1,911.00	1,932.88	1,923.26	9.62	201.007	
1,500.00	1,500.00	1,511.00	1,511.00	5.15	5.19	-81.37	290.00	-1,911.00	1,932.88	1,922.55	10.33	187.060	
1,600.00	1,600.00	1,611.00	1,611.00	5.50	5.55	-81.37	290.00	-1,911.00	1,932.88	1,921.83	11.05	174.923	
1,700.00	1,700.00	1,711.00	1,711.00	5.86	5.90	-81.37	290.00	-1,911.00	1,932.88	1,921.11	11.77	164.265	
1,800.00	1,800.00	1,811.00	1,811.00	6.22	6.26	-81.37	290.00	-1,911.00	1,932.88	1,920.40	12.48	154.831	
1,900.00	1,900.00	1,911.00	1,911.00	6.58	6.62	-81.37	290.00	-1,911.00	1,932.88	1,919.68	13.20	146.422	
2,000.00	2,000.00	2,011.00	2,011.00	6.94	6.98	-81.37	290.00	-1,911.00	1,932.88	1,918.96	13.92	138.880	
2,100.00	2,100.00	2,111.00	2,111.00	7.30	7.34	-81.37	290.00	-1,911.00	1,932.88	1,918.24	14.63	132.076	
2,200.00	2,200.00	2,211.00	2,211.00	7.66	7.70	-81.37	290.00	-1,911.00	1,932.88	1,917.53	15.35	125.908	
2,300.00	2,300.00	2,311.00	2,311.00	8.01	8.05	-81.37	290.00	-1,911.00	1,932.88	1,916.81	16.07	120.290	
2,400.00	2,400.00	2,411.00	2,411.00	8.37	8.41	-81.37	290.00	-1,911.00	1,932.88	1,916.09	16.79	115.152	
2,500.00	2,500.00	2,511.00	2,511.00	8.73	8.77	-81.37	290.00	-1,911.00	1,932.88	1,915.38	17.50	110.435	
2,600.00	2,600.00	2,611.00	2,611.00	9.09	9.13	-81.37	290.00	-1,911.00	1,932.88	1,914.66	18.22	106.090	
2,700.00	2,700.00	2,711.00	2,711.00	9.45	9.49	-81.37	290.00	-1,911.00	1,932.88	1,913.94	18.94	102.073	
2,800.00	2,800.00	2,811.00	2,811.00	9.81	9.85	-81.37	290.00	-1,911.00	1,932.88	1,913.23	19.65	98.349	
2,900.00	2,900.00	2,911.00	2,911.00	10.16	10.21	-81.37	290.00	-1,911.00	1,932.88	1,912.51	20.37	94.888	
3,000.00	3,000.00	3,011.00	3,011.00	10.52	10.56	-81.37	290.00	-1,911.00	1,932.88	1,911.79	21.09	91.662	
3,100.00	3,100.00	3,111.00	3,111.00	10.88	10.92	-81.37	290.00	-1,911.00	1,932.88	1,911.07	21.80	88.648	
3,200.00	3,200.00	3,211.00	3,211.00	11.24	11.28	-81.37	290.00	-1,911.00	1,932.88	1,910.36	22.52	85.826	
3,300.00	3,300.00	3,311.00	3,311.00	11.60	11.64	-81.37	290.00	-1,911.00	1,932.88	1,909.64	23.24	83.178	
3,400.00	3,400.00	3,411.00	3,411.00	11.96	12.00	-81.37	290.00	-1,911.00	1,932.88	1,908.92	23.95	80.688	
3,500.00	3,500.00	3,511.00	3,511.00	12.32	12.36	-81.37	290.00	-1,911.00	1,932.88	1,908.21	24.67	78.344	
3,600.00	3,600.00	3,611.00	3,611.00	12.67	12.71	-81.37	290.00	-1,911.00	1,932.88	1,907.49	25.39	76.131	
3,700.00	3,700.00	3,711.00	3,711.00	13.03	13.07	-81.37	290.00	-1,911.00	1,932.88	1,906.77	26.11	74.041	
3,800.00	3,800.00	3,811.00	3,811.00	13.39	13.43	-81.37	290.00	-1,911.00	1,932.88	1,906.06	26.82	72.061	
3,900.00	3,900.00	3,911.00	3,911.00	13.75	13.79	-81.37	290.00	-1,911.00	1,932.88	1,905.34	27.54	70.186	
4,000.00	4,000.00	4,011.00	4,011.00	14.11	14.15	-81.37	290.00	-1,911.00	1,932.88	1,904.62	28.26	68.405	
4,100.00	4,100.00	4,111.00	4,111.00	14.47	14.51	-81.37	290.00	-1,911.00	1,932.88	1,903.91	28.97	66.712	
4,200.00	4,200.00	4,211.00	4,211.00	14.82	14.87	-81.37	290.00	-1,911.00	1,932.88	1,903.19	29.69	65.101	
4,300.00	4,300.00	4,311.00	4,311.00	15.18	15.22	-81.37	290.00	-1,911.00	1,932.88	1,902.47	30.41	63.566	
4,400.00	4,400.00	4,411.00	4,411.00	15.54	15.58	-81.37	290.00	-1,911.00	1,932.88	1,901.75	31.12	62.102	
4,500.00	4,500.00	4,511.00	4,511.00	15.90	15.94	-81.37	290.00	-1,911.00	1,932.88	1,901.04	31.84	60.704	
4,600.00	4,600.00	4,611.00	4,611.00	16.26	16.30	-81.37	290.00	-1,911.00	1,932.88	1,900.32	32.56	59.367	
4,700.00	4,700.00	4,711.00	4,711.00	16.62	16.66	-81.37	290.00	-1,911.00	1,932.88	1,899.60	33.28	58.088	
4,800.00	4,800.00	4,812.28	4,812.28	16.98	17.02	-81.37	289.96	-1,911.00	1,932.88	1,898.88	33.99	56.859	
4,900.00	4,900.00	4,923.89	4,923.87	17.33	17.39	-81.43	287.99	-1,910.89	1,932.51	1,897.78	34.73	55.649	
5,000.00	5,000.00	5,035.29	5,035.14	17.69	17.75	-81.58	282.77	-1,910.59	1,931.55	1,896.11	35.44	54.498	
5,100.00	5,100.00	5,144.99	5,144.52	18.05	18.11	-81.82	274.47	-1,910.11	1,930.02	1,893.87	36.15	53.385	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 202H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12835-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	5,244.61	5,243.76	18.41	18.43	-82.08	265.81	-1,909.62	1,928.30	1,891.47	36.84	52.349	
5,300.00	5,300.00	5,344.23	5,343.00	18.77	18.76	-82.33	257.14	-1,909.12	1,926.82	1,889.10	37.52	51.349	
5,400.00	5,400.00	5,443.85	5,442.24	19.13	19.02	-82.58	248.47	-1,908.62	1,924.98	1,886.85	38.14	50.478	
5,500.00	5,500.00	5,543.47	5,541.48	19.31	19.12	-82.84	239.80	-1,908.13	1,923.38	1,884.96	38.41	50.068	
5,600.00	5,600.00	5,643.09	5,640.72	19.31	19.13	-83.09	231.13	-1,907.63	1,921.81	1,883.38	38.44	49.999	
5,700.00	5,700.00	5,742.71	5,739.96	19.33	19.15	-83.35	222.46	-1,907.14	1,920.28	1,881.81	38.47	49.912	
5,800.00	5,800.00	5,842.33	5,839.21	19.35	19.18	-83.60	213.80	-1,906.64	1,918.80	1,880.27	38.52	49.808	
5,900.00	5,900.00	5,941.95	5,938.45	19.37	19.22	-83.86	205.13	-1,906.14	1,917.35	1,878.76	38.59	49.687	
6,000.00	6,000.00	6,041.56	6,037.69	19.41	19.27	-84.11	196.46	-1,905.65	1,915.93	1,877.27	38.67	49.549	
6,100.00	6,100.00	6,141.18	6,136.93	19.45	19.32	-84.37	187.79	-1,905.15	1,914.56	1,875.80	38.76	49.394	
6,200.00	6,200.00	6,240.80	6,236.17	19.49	19.38	-84.63	179.12	-1,904.65	1,913.22	1,874.36	38.87	49.224	
6,300.00	6,300.00	6,340.42	6,335.41	19.54	19.45	-84.88	170.46	-1,904.16	1,911.93	1,872.94	38.99	49.038	
6,400.00	6,400.00	6,440.04	6,434.65	19.60	19.52	-85.14	161.79	-1,903.66	1,910.67	1,871.55	39.12	48.836	
6,500.00	6,500.00	6,539.66	6,533.89	19.67	19.61	-85.40	153.12	-1,903.17	1,909.45	1,870.18	39.27	48.621	
6,600.00	6,600.00	6,639.28	6,633.13	19.74	19.70	-85.66	144.45	-1,902.67	1,908.27	1,868.84	39.43	48.391	
6,700.00	6,700.00	6,738.90	6,732.37	19.82	19.79	-85.92	135.78	-1,902.17	1,907.13	1,867.52	39.61	48.148	
6,800.00	6,800.00	6,838.52	6,831.61	19.90	19.90	-86.18	127.11	-1,901.68	1,906.03	1,866.24	39.80	47.893	
6,900.00	6,900.00	6,938.14	6,930.85	19.99	20.01	-86.44	118.45	-1,901.18	1,904.97	1,864.97	40.00	47.625	
7,000.00	7,000.00	7,037.76	7,030.09	20.09	20.13	-86.69	109.78	-1,900.69	1,903.95	1,863.74	40.21	47.346	
7,100.00	7,100.00	7,137.38	7,129.33	20.19	20.25	-86.95	101.11	-1,900.19	1,902.97	1,862.53	40.44	47.056	
7,200.00	7,200.00	7,237.00	7,228.57	20.30	20.38	-87.21	92.44	-1,899.69	1,902.02	1,861.34	40.68	46.756	
7,300.00	7,299.99	7,336.62	7,327.82	20.41	20.52	14.81	83.77	-1,899.20	1,899.85	1,858.93	40.93	46.421	
7,400.00	7,399.91	7,436.22	7,427.03	20.52	20.66	14.60	75.11	-1,898.70	1,895.19	1,854.01	41.18	46.019	
7,500.00	7,499.69	7,535.71	7,526.15	20.64	20.81	14.41	66.45	-1,898.21	1,888.02	1,846.57	41.45	45.549	
7,533.33	7,532.91	7,568.84	7,559.15	20.68	20.87	14.35	63.57	-1,898.04	1,885.08	1,843.54	41.54	45.377	
7,600.00	7,599.32	7,635.08	7,625.14	20.77	20.97	14.22	57.80	-1,897.71	1,878.92	1,837.19	41.73	45.026	
7,700.00	7,698.94	7,734.44	7,724.12	20.90	21.13	14.02	49.16	-1,897.22	1,869.69	1,827.67	42.02	44.496	
7,800.00	7,798.56	7,833.80	7,823.10	21.04	21.30	13.82	40.51	-1,896.72	1,860.49	1,818.17	42.32	43.962	
7,900.00	7,898.18	7,933.16	7,922.08	21.18	21.47	13.61	31.87	-1,896.23	1,851.31	1,808.68	42.63	43.425	
8,000.00	7,997.80	8,032.52	8,021.06	21.33	21.65	13.41	23.22	-1,895.73	1,842.16	1,799.20	42.95	42.885	
8,100.00	8,097.42	8,131.87	8,120.04	21.49	21.83	13.20	14.58	-1,895.24	1,833.03	1,789.74	43.29	42.344	
8,200.00	8,197.04	8,231.23	8,219.02	21.65	22.02	12.99	5.93	-1,894.74	1,823.92	1,780.29	43.63	41.801	
8,280.03	8,276.76	8,310.75	8,298.23	21.78	22.17	12.82	-0.99	-1,894.35	1,816.65	1,772.74	43.91	41.368	
8,300.00	8,296.66	8,330.60	8,318.01	21.82	22.21	12.77	-2.72	-1,894.25	1,814.89	1,770.90	43.99	41.260	
8,400.00	8,396.42	8,430.07	8,417.10	21.99	22.41	12.52	-11.37	-1,893.75	1,807.62	1,763.27	44.35	40.758	
8,500.00	8,496.33	8,529.65	8,516.31	22.16	22.62	12.26	-20.04	-1,893.26	1,802.92	1,758.20	44.72	40.313	
8,600.00	8,596.31	8,628.94	8,615.22	22.33	22.82	11.99	-28.65	-1,892.76	1,800.82	1,755.72	45.10	39.927	
8,613.36	8,609.67	8,641.94	8,628.17	22.36	22.85	-90.31	-29.71	-1,892.70	1,800.74	1,755.59	45.15	39.881	
8,700.00	8,696.31	8,726.37	8,712.40	22.51	23.02	-90.49	-35.55	-1,892.37	1,800.44	1,754.96	45.48	39.585	
8,800.00	8,796.31	8,824.09	8,810.02	22.69	23.22	-90.64	-39.97	-1,892.12	1,800.23	1,754.36	45.86	39.252	
8,900.00	8,896.31	8,921.97	8,907.88	22.88	23.41	-90.70	-41.91	-1,892.01	1,800.14	1,753.90	46.24	38.929	
8,945.79	8,942.10	8,967.20	8,953.10	22.97	23.49	-90.70	-42.00	-1,892.00	1,800.13	1,753.73	46.41	38.788	
9,000.00	8,996.31	9,021.41	9,007.31	23.07	23.59	-90.70	-42.00	-1,892.00	1,800.13	1,753.53	46.61	38.624	
9,100.00	9,096.31	9,121.41	9,107.31	23.27	23.76	-90.70	-42.00	-1,892.00	1,800.13	1,753.16	46.98	38.320	
9,200.00	9,196.31	9,221.41	9,207.31	23.47	23.94	-90.70	-42.00	-1,892.00	1,800.13	1,752.78	47.35	38.014	
9,300.00	9,296.31	9,321.41	9,307.31	23.67	24.12	-90.70	-42.00	-1,892.00	1,800.13	1,752.39	47.74	37.707	
9,400.00	9,396.31	9,421.41	9,407.31	23.88	24.31	-90.70	-42.00	-1,892.00	1,800.13	1,752.00	48.13	37.399	
9,500.00	9,496.31	9,521.41	9,507.31	24.09	24.50	-90.70	-42.00	-1,892.00	1,800.13	1,751.60	48.53	37.090	
9,600.00	9,596.31	9,621.41	9,607.31	24.30	24.70	-90.70	-42.00	-1,892.00	1,800.13	1,751.19	48.94	36.781	
9,700.00	9,696.31	9,721.41	9,707.31	24.52	24.89	-90.70	-42.00	-1,892.00	1,800.13	1,750.78	49.36	36.472	
9,800.00	9,796.31	9,821.41	9,807.31	24.74	25.10	-90.70	-42.00	-1,892.00	1,800.13	1,750.36	49.78	36.163	
9,900.00	9,896.31	9,921.41	9,907.31	24.96	25.30	-90.70	-42.00	-1,892.00	1,800.13	1,749.93	50.21	35.854	

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

Pro Directional Anticollision Report

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Project: Lea County, NM
Reference Site: Biggers Fed Com
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Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
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Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 202H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12835-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)				Between Centres (usft)	Between Ellipses (usft)	
10,000.00	9,996.31	10,021.41	10,007.31	25.19	25.51	-90.70	-42.00	-1,892.00	1,800.13	1,749.49		50.64	35.546	
10,100.00	10,096.31	10,121.41	10,107.31	25.42	25.72	-90.70	-42.00	-1,892.00	1,800.13	1,749.05		51.08	35.239	
10,200.00	10,196.31	10,221.41	10,207.31	25.65	25.94	-90.70	-42.00	-1,892.00	1,800.13	1,748.60		51.53	34.933	
10,300.00	10,296.31	10,321.41	10,307.31	25.88	26.16	-90.70	-42.00	-1,892.00	1,800.13	1,748.15		51.98	34.628	
10,400.00	10,396.31	10,421.41	10,407.31	26.12	26.38	-90.70	-42.00	-1,892.00	1,800.13	1,747.69		52.44	34.325	
10,500.00	10,496.31	10,521.41	10,507.31	26.36	26.60	-90.70	-42.00	-1,892.00	1,800.13	1,747.23		52.91	34.023	
10,600.00	10,596.31	10,621.41	10,607.31	26.61	26.83	-90.70	-42.00	-1,892.00	1,800.13	1,746.75		53.38	33.723	
10,700.00	10,696.31	10,721.41	10,707.31	26.85	27.06	-90.70	-42.00	-1,892.00	1,800.13	1,746.28		53.86	33.425	
10,800.00	10,796.31	10,821.41	10,807.31	27.10	27.29	-90.70	-42.00	-1,892.00	1,800.13	1,745.80		54.34	33.129	
10,900.00	10,896.31	10,921.41	10,907.31	27.35	27.53	-90.70	-42.00	-1,892.00	1,800.13	1,745.31		54.82	32.835	
11,000.00	10,996.31	11,021.41	11,007.31	27.61	27.77	-90.70	-42.00	-1,892.00	1,800.13	1,744.82		55.32	32.543	
11,100.00	11,096.31	11,121.41	11,107.31	27.86	28.01	-90.70	-42.00	-1,892.00	1,800.13	1,744.32		55.81	32.253	
11,200.00	11,196.31	11,221.41	11,207.31	28.12	28.25	-90.70	-42.00	-1,892.00	1,800.13	1,743.82		56.31	31.966	
11,300.00	11,296.31	11,321.41	11,307.31	28.38	28.50	-90.70	-42.00	-1,892.00	1,800.13	1,743.32		56.82	31.682	
11,400.00	11,396.31	11,421.41	11,407.31	28.64	28.74	-90.70	-42.00	-1,892.00	1,800.13	1,742.80		57.33	31.400	
11,500.00	11,496.31	11,521.41	11,507.31	28.91	28.99	-90.70	-42.00	-1,892.00	1,800.13	1,742.29		57.84	31.120	
11,600.00	11,596.31	11,621.41	11,607.31	29.17	29.25	-90.70	-42.00	-1,892.00	1,800.13	1,741.77		58.36	30.844	
11,700.00	11,696.31	11,721.41	11,707.31	29.44	29.50	-90.70	-42.00	-1,892.00	1,800.13	1,741.25		58.89	30.570	
11,800.00	11,796.31	11,821.41	11,807.31	29.71	29.76	-90.70	-42.00	-1,892.00	1,800.13	1,740.72		59.41	30.298	
11,900.00	11,896.31	11,921.41	11,907.31	29.98	30.02	-90.70	-42.00	-1,892.00	1,800.13	1,740.19		59.94	30.030	
12,008.69	12,005.00	12,030.10	12,016.00	30.28	30.30	-90.70	-42.00	-1,892.00	1,800.13	1,739.61		60.53	29.741	
12,050.00	12,046.28	12,072.04	12,057.93	30.39	30.41	-90.43	-41.46	-1,892.00	1,800.14	1,739.39		60.75	29.633	
12,100.00	12,095.93	12,123.44	12,109.12	30.53	30.53	-90.47	-36.92	-1,892.02	1,800.15	1,739.14		61.01	29.507	
12,150.00	12,144.88	12,174.96	12,159.81	30.67	30.65	-90.52	-27.79	-1,892.06	1,800.15	1,738.89		61.26	29.387	
12,200.00	12,192.78	12,226.59	12,209.58	30.80	30.76	-90.55	-14.11	-1,892.12	1,800.15	1,738.65		61.49	29.273	
12,250.00	12,239.24	12,278.33	12,258.01	30.92	30.86	-90.58	4.03	-1,892.20	1,800.14	1,738.42		61.72	29.165	
12,300.00	12,283.92	12,330.15	12,304.68	31.04	30.95	-90.61	26.51	-1,892.30	1,800.13	1,738.19		61.94	29.062	
12,350.00	12,326.48	12,382.04	12,349.19	31.16	31.03	-90.63	53.14	-1,892.42	1,800.12	1,737.96		62.15	28.962	
12,400.00	12,366.59	12,433.98	12,391.15	31.28	31.11	-90.65	83.73	-1,892.55	1,800.10	1,737.73		62.36	28.864	
12,450.00	12,403.95	12,485.96	12,430.19	31.40	31.19	-90.66	118.02	-1,892.70	1,800.07	1,737.50		62.58	28.766	
12,500.00	12,438.28	12,537.97	12,465.99	31.54	31.27	-90.67	155.72	-1,892.86	1,800.04	1,737.25		62.79	28.666	
12,550.00	12,469.30	12,589.97	12,498.22	31.68	31.35	-90.67	196.51	-1,893.04	1,800.01	1,736.99		63.02	28.563	
12,600.00	12,496.80	12,641.96	12,526.61	31.84	31.43	-90.67	240.04	-1,893.23	1,799.97	1,736.71		63.26	28.455	
12,650.00	12,520.55	12,693.93	12,550.93	32.00	31.53	-90.66	285.94	-1,893.43	1,799.92	1,736.41		63.51	28.341	
12,700.00	12,540.37	12,745.84	12,570.97	32.17	31.63	-90.65	333.81	-1,893.64	1,799.88	1,736.10		63.78	28.219	
12,750.00	12,556.12	12,797.69	12,586.59	32.35	31.74	-90.63	383.24	-1,893.86	1,799.83	1,735.75		64.08	28.089	
12,800.00	12,567.68	12,849.47	12,597.66	32.54	31.78	-90.60	433.80	-1,894.08	1,799.78	1,735.42		64.35	27.967	
12,808.69	12,569.25	12,858.07	12,599.16	32.78	31.79	-90.60	442.27	-1,894.11	1,799.77	1,735.38		64.39	27.951	
12,833.69	12,573.59	12,882.78	12,603.39	32.79	31.70	-90.60	466.61	-1,894.22	1,799.75	1,735.25		64.49	27.906	
12,850.00	12,576.29	12,898.66	12,605.84	32.30	31.11	-90.59	482.30	-1,894.30	1,799.74	1,735.17		64.57	27.874	
12,900.00	12,582.83	12,947.30	12,611.73	32.33	31.14	-90.57	530.57	-1,894.57	1,799.71	1,734.90		64.82	27.766	
12,950.00	12,586.78	12,995.91	12,615.14	32.36	31.16	-90.55	579.06	-1,894.91	1,799.70	1,734.59		65.11	27.642	
12,964.39	12,587.43	13,009.90	12,615.67	32.36	31.17	-90.55	593.04	-1,895.02	1,799.70	1,734.50		65.20	27.602 CC	
13,000.41	12,588.11	13,045.09	12,616.11	32.38	31.18	-90.54	628.22	-1,895.32	1,799.71	1,734.26		65.44	27.500	
13,100.00	12,588.10	13,144.68	12,616.10	32.44	31.23	-90.54	727.81	-1,895.19	1,799.71	1,733.48		66.24	27.171	
13,200.00	12,588.10	13,244.68	12,616.10	32.50	31.28	-90.54	827.80	-1,897.06	1,799.72	1,732.54		67.18	26.790	
13,300.00	12,588.10	13,344.68	12,616.10	32.56	31.34	-90.54	927.80	-1,897.94	1,799.73	1,731.46		68.27	26.362	
13,400.00	12,588.10	13,444.68	12,616.10	32.63	31.39	-90.54	1,027.80	-1,898.81	1,799.74	1,730.24		69.50	25.895	
13,500.00	12,588.09	13,544.68	12,616.09	32.72	31.44	-90.54	1,127.79	-1,899.68	1,799.75	1,728.89		70.87	25.396	
13,600.00	12,588.09	13,644.68	12,616.09	32.86	31.50	-90.54	1,227.79	-1,900.56	1,799.76	1,727.40		72.36	24.873	
13,700.00	12,588.09	13,744.68	12,616.09	32.88	31.56	-90.54	1,327.78	-1,901.43	1,799.77	1,725.80		73.97	24.331	
13,800.00	12,588.09	13,844.68	12,616.09	32.98	31.62	-90.54	1,427.78	-1,902.31	1,799.78	1,724.09		75.69	23.778	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 202H - OH - Prelim Plan A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 12835-MWD - OWSG													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.00	12,588.08	13,944.68	12,616.08	40.01	37.69	-90.54	1,527.78	-1,903.18	1,799.79	1,722.27	77.52	23.218	
14,000.00	12,588.08	14,044.68	12,616.08	41.01	38.49	-90.54	1,627.77	-1,904.06	1,799.80	1,720.36	79.44	22.656	
14,100.00	12,588.08	14,144.68	12,616.08	42.05	39.45	-90.54	1,727.77	-1,904.93	1,799.81	1,718.35	81.45	22.096	
14,200.00	12,588.08	14,244.68	12,616.08	43.14	40.45	-90.54	1,827.77	-1,905.80	1,799.82	1,716.27	83.55	21.542	
14,300.00	12,588.07	14,344.68	12,616.07	44.26	41.50	-90.54	1,927.76	-1,906.68	1,799.83	1,714.10	85.72	20.995	
14,400.00	12,588.07	14,444.68	12,616.07	45.42	42.58	-90.54	2,027.76	-1,907.55	1,799.84	1,711.87	87.97	20.460	
14,500.00	12,588.07	14,544.68	12,616.07	46.60	43.71	-90.54	2,127.75	-1,908.43	1,799.85	1,709.56	90.28	19.936	
14,600.00	12,588.07	14,644.68	12,616.07	47.82	44.86	-90.54	2,227.75	-1,909.30	1,799.85	1,707.20	92.65	19.425	
14,700.00	12,588.06	14,744.68	12,616.06	49.06	46.05	-90.54	2,327.75	-1,910.17	1,799.86	1,704.78	95.08	18.929	
14,800.00	12,588.06	14,844.68	12,616.06	50.33	47.26	-90.54	2,427.74	-1,911.05	1,799.87	1,702.31	97.57	18.448	
14,900.00	12,588.06	14,944.68	12,616.06	51.62	48.50	-90.54	2,527.74	-1,911.92	1,799.88	1,699.79	100.10	17.981	
15,000.00	12,588.06	15,044.68	12,616.06	52.93	49.77	-90.54	2,627.74	-1,912.80	1,799.89	1,697.22	102.67	17.530	
15,100.00	12,588.05	15,144.68	12,616.05	54.26	51.06	-90.54	2,727.73	-1,913.67	1,799.90	1,694.61	105.29	17.095	
15,200.00	12,588.05	15,244.68	12,616.05	55.60	52.37	-90.54	2,827.73	-1,914.54	1,799.91	1,691.96	107.95	16.674	
15,300.00	12,588.05	15,344.68	12,616.05	56.96	53.69	-90.54	2,927.72	-1,915.42	1,799.92	1,689.28	110.64	16.268	
15,400.00	12,588.05	15,444.68	12,616.05	58.34	55.04	-90.54	3,027.72	-1,916.29	1,799.93	1,686.57	113.36	15.877	
15,500.00	12,588.04	15,544.68	12,616.04	59.74	56.40	-90.54	3,127.72	-1,917.17	1,799.94	1,683.82	116.12	15.501	
15,600.00	12,588.04	15,644.68	12,616.04	61.14	57.78	-90.54	3,227.71	-1,918.04	1,799.95	1,681.04	118.91	15.138	
15,700.00	12,588.04	15,744.68	12,616.04	62.56	59.17	-90.54	3,327.71	-1,918.92	1,799.96	1,678.24	121.72	14.788	
15,800.00	12,588.04	15,844.68	12,616.04	63.99	60.58	-90.54	3,427.70	-1,919.79	1,799.97	1,675.41	124.55	14.451	
15,900.00	12,588.03	15,944.68	12,616.04	65.43	62.00	-90.54	3,527.70	-1,920.66	1,799.98	1,672.56	127.41	14.127	
16,000.00	12,588.03	16,044.68	12,616.03	66.88	63.43	-90.54	3,627.70	-1,921.54	1,799.99	1,669.69	130.30	13.815	
16,100.00	12,588.03	16,144.68	12,616.03	68.34	64.87	-90.54	3,727.69	-1,922.41	1,799.99	1,666.80	133.20	13.514	
16,200.00	12,588.03	16,244.68	12,616.03	69.81	66.32	-90.54	3,827.69	-1,923.29	1,800.00	1,663.89	136.12	13.224	
16,300.00	12,588.02	16,344.68	12,616.03	71.29	67.78	-90.54	3,927.69	-1,924.16	1,800.01	1,660.96	139.06	12.944	
16,400.00	12,588.02	16,444.68	12,616.02	72.78	69.25	-90.54	4,027.68	-1,925.03	1,800.02	1,658.01	142.01	12.675	
16,500.00	12,588.02	16,544.68	12,616.02	74.27	70.73	-90.54	4,127.68	-1,925.91	1,800.03	1,655.05	144.99	12.415	
16,600.00	12,588.02	16,644.68	12,616.02	75.77	72.22	-90.54	4,227.67	-1,926.78	1,800.04	1,652.07	147.97	12.165	
16,700.00	12,588.02	16,744.68	12,616.02	77.27	73.71	-90.54	4,327.67	-1,927.66	1,800.05	1,649.08	150.97	11.923	
16,800.00	12,588.01	16,844.68	12,616.01	78.79	75.21	-90.54	4,427.67	-1,928.53	1,800.06	1,646.08	153.98	11.690	
16,900.00	12,588.01	16,944.68	12,616.01	80.31	76.72	-90.54	4,527.66	-1,929.40	1,800.07	1,643.03	157.01	11.465	
17,000.00	12,588.01	17,044.68	12,616.01	81.83	78.23	-90.54	4,627.66	-1,930.28	1,800.08	1,640.03	160.05	11.247	
17,100.00	12,588.01	17,144.68	12,616.01	83.36	79.75	-90.54	4,727.65	-1,931.15	1,800.09	1,636.99	163.10	11.037	
17,200.00	12,588.00	17,244.68	12,616.00	84.89	81.28	-90.54	4,827.65	-1,932.03	1,800.10	1,633.94	166.15	10.834	
17,306.62	12,588.00	17,351.30	12,616.00	86.53	82.91	-90.54	4,934.27	-1,932.96	1,800.11	1,630.68	169.43	10.625 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: Biggers Fed Com
 Site Error: 0.00 usft
 Reference Well: 203H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
 TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
 MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 215H - OH - Prelim Plan A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD - CWSG, 5500-MWD - CWSG, 13016-MWD - CWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	11.00	11.00	0.00	0.01	-81.50	290.00	-1,941.00	1,962.54				
100.00	100.00	111.00	111.00	0.13	0.17	-81.50	290.00	-1,941.00	1,962.54	1,962.25	0.30	6,636.061	
200.00	200.00	211.00	211.00	0.49	0.53	-81.50	290.00	-1,941.00	1,962.54	1,961.53	1.01	1,937.966	
300.00	300.00	311.00	311.00	0.84	0.89	-81.50	290.00	-1,941.00	1,962.54	1,960.81	1.73	1,134.664	
400.00	400.00	411.00	411.00	1.20	1.24	-81.50	290.00	-1,941.00	1,962.54	1,960.10	2.45	802.162	
500.00	500.00	511.00	511.00	1.56	1.60	-81.50	290.00	-1,941.00	1,962.54	1,959.38	3.16	620.369	
600.00	600.00	611.00	611.00	1.92	1.96	-81.50	290.00	-1,941.00	1,962.54	1,958.66	3.88	505.751	
700.00	700.00	711.00	711.00	2.28	2.32	-81.50	290.00	-1,941.00	1,962.54	1,957.95	4.60	426.882	
800.00	800.00	811.00	811.00	2.64	2.68	-81.50	290.00	-1,941.00	1,962.54	1,957.23	5.31	369.292	
900.00	900.00	911.00	911.00	3.00	3.04	-81.50	290.00	-1,941.00	1,962.54	1,956.51	6.03	325.394	
912.55	912.55	923.55	923.55	3.04	3.08	-81.50	290.00	-1,941.00	1,962.54	1,956.42	6.12	320.612 CC	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.36	-81.50	290.00	-1,941.00	1,962.58	1,955.87	6.71	292.540 ES	
1,100.00	1,100.00	1,076.74	1,076.73	3.71	3.62	-81.51	289.72	-1,941.72	1,963.51	1,956.18	7.33	267.784	
1,200.00	1,200.00	1,145.82	1,145.78	4.07	3.86	-81.54	288.99	-1,943.59	1,966.04	1,958.12	7.92	248.109	
1,300.00	1,300.00	1,214.80	1,214.69	4.43	4.09	-81.59	287.82	-1,946.63	1,970.15	1,961.64	8.51	231.455	
1,400.00	1,400.00	1,283.65	1,283.38	4.79	4.33	-81.65	286.19	-1,950.81	1,975.82	1,966.72	9.10	217.138	
1,500.00	1,500.00	1,352.31	1,351.81	5.15	4.57	-81.74	284.13	-1,956.14	1,983.06	1,973.38	9.69	204.740	
1,600.00	1,600.00	1,420.74	1,419.89	5.50	4.81	-81.83	281.63	-1,962.58	1,991.88	1,981.61	10.27	193.952	
1,700.00	1,700.00	1,500.91	1,497.69	5.86	5.10	-81.96	278.28	-1,971.23	2,002.17	1,991.27	10.90	183.704	
1,800.00	1,800.00	1,601.65	1,596.20	6.22	5.47	-82.13	273.90	-1,982.51	2,012.83	2,001.22	11.61	173.346	
1,900.00	1,900.00	1,702.40	1,694.72	6.58	5.85	-82.30	269.53	-1,993.79	2,023.51	2,011.19	12.33	164.143	
2,000.00	2,000.00	1,803.14	1,793.23	6.94	6.23	-82.47	265.16	-2,005.06	2,034.21	2,021.16	13.05	155.920	
2,100.00	2,100.00	1,903.89	1,891.75	7.30	6.61	-82.63	260.78	-2,016.34	2,044.92	2,031.16	13.77	148.533	
2,200.00	2,200.00	2,004.64	1,990.26	7.66	7.00	-82.79	256.41	-2,027.62	2,055.65	2,041.16	14.49	141.864	
2,300.00	2,300.00	2,105.38	2,088.78	8.01	7.39	-82.95	252.04	-2,038.90	2,066.40	2,051.18	15.21	135.817	
2,400.00	2,400.00	2,206.13	2,187.29	8.37	7.79	-83.11	247.66	-2,050.17	2,077.16	2,061.22	15.94	130.310	
2,500.00	2,500.00	2,306.87	2,285.81	8.73	8.18	-83.27	243.29	-2,061.45	2,087.94	2,071.27	16.67	125.276	
2,600.00	2,600.00	2,407.62	2,384.32	9.09	8.58	-83.42	238.92	-2,072.73	2,098.73	2,081.34	17.39	120.657	
2,700.00	2,700.00	2,491.64	2,482.84	9.45	8.91	-83.58	234.54	-2,084.01	2,109.54	2,091.48	18.06	116.803	
2,800.00	2,800.00	2,609.11	2,581.35	9.81	9.38	-83.73	230.17	-2,095.29	2,120.36	2,101.51	18.85	112.478	
2,900.00	2,900.00	2,690.15	2,679.87	10.16	9.70	-83.88	225.80	-2,106.56	2,131.20	2,111.69	19.51	109.249	
3,000.00	3,000.00	2,789.40	2,778.38	10.52	10.09	-84.03	221.42	-2,117.84	2,142.05	2,121.82	20.23	105.874	
3,100.00	3,100.00	2,888.66	2,876.90	10.88	10.49	-84.18	217.05	-2,129.12	2,152.92	2,131.96	20.96	102.732	
3,200.00	3,200.00	2,987.91	2,975.41	11.24	10.89	-84.33	212.68	-2,140.40	2,163.80	2,142.12	21.68	99.798	
3,300.00	3,300.00	3,087.17	3,073.93	11.60	11.28	-84.47	208.30	-2,151.68	2,174.70	2,152.29	22.41	97.054	
3,400.00	3,400.00	3,186.42	3,172.44	11.96	11.68	-84.61	203.93	-2,162.95	2,185.60	2,162.47	23.13	94.481	
3,500.00	3,500.00	3,285.67	3,270.96	12.32	12.08	-84.76	199.56	-2,174.23	2,196.53	2,172.67	23.86	92.064	
3,600.00	3,600.00	3,384.93	3,369.47	12.67	12.48	-84.90	195.18	-2,185.51	2,207.46	2,182.88	24.58	89.790	
3,700.00	3,700.00	3,484.18	3,467.99	13.03	12.88	-85.04	190.81	-2,196.79	2,218.41	2,193.10	25.31	87.647	
3,800.00	3,800.00	3,583.44	3,566.50	13.39	13.28	-85.17	186.44	-2,208.06	2,229.37	2,203.33	26.04	85.623	
3,900.00	3,900.00	3,682.69	3,665.02	13.75	13.68	-85.31	182.06	-2,219.34	2,240.34	2,213.58	26.76	83.709	
4,000.00	4,000.00	3,781.95	3,763.53	14.11	14.08	-85.45	177.69	-2,230.62	2,251.33	2,223.84	27.49	81.896	
4,100.00	4,100.00	3,881.20	3,862.04	14.47	14.48	-85.58	173.32	-2,241.90	2,262.33	2,234.11	28.22	80.177	
4,200.00	4,200.00	3,980.46	3,960.56	14.82	14.89	-85.71	168.94	-2,253.18	2,273.34	2,244.39	28.94	78.545	
4,300.00	4,300.00	4,079.71	4,059.07	15.18	15.29	-85.84	164.57	-2,264.45	2,284.36	2,254.69	29.67	76.992	
4,400.00	4,400.00	4,178.97	4,157.59	15.54	15.69	-85.97	160.20	-2,275.73	2,295.39	2,265.00	30.40	75.515	
4,500.00	4,500.00	4,278.22	4,256.10	15.90	16.09	-86.10	155.82	-2,287.01	2,306.44	2,275.32	31.12	74.106	
4,600.00	4,600.00	4,377.48	4,354.62	16.26	16.50	-86.23	151.45	-2,298.29	2,317.50	2,285.65	31.85	72.762	
4,700.00	4,700.00	4,476.73	4,453.13	16.62	16.90	-86.36	147.08	-2,309.57	2,328.57	2,295.99	32.58	71.479	
4,800.00	4,800.00	4,575.98	4,551.65	16.98	17.30	-86.48	142.70	-2,320.84	2,339.65	2,306.34	33.30	70.251	
4,900.00	4,900.00	4,675.24	4,650.16	17.33	17.70	-86.61	138.33	-2,332.12	2,350.74	2,316.71	34.03	69.077	
5,000.00	5,000.00	4,774.49	4,748.68	17.69	18.11	-86.73	133.96	-2,343.40	2,361.84	2,327.08	34.76	67.952	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 215H - OH - Prelim Plan A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 13016-MWD - OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,100.00	4,873.75	4,847.19	18.05	18.51	-86.85	129.58	-2,354.68	2,372.95	2,337.46	35.48	66.873			
5,200.00	5,200.00	4,973.00	4,945.71	18.41	18.91	-86.97	125.21	-2,365.95	2,384.07	2,347.86	36.21	65.838			
5,300.00	5,300.00	5,072.26	5,044.22	18.77	19.32	-87.09	120.84	-2,377.23	2,395.20	2,358.27	36.94	64.844			
5,400.00	5,400.00	5,171.51	5,142.74	19.13	19.72	-87.21	116.47	-2,388.51	2,406.35	2,368.68	37.66	63.889			
5,500.00	5,500.00	5,270.77	5,241.25	19.31	20.13	-87.33	112.09	-2,399.79	2,417.50	2,379.29	38.21	63.262			
5,600.00	5,600.00	5,370.02	5,339.77	19.31	20.53	-87.44	107.72	-2,411.07	2,428.66	2,390.07	38.59	62.932			
5,700.00	5,700.00	5,469.28	5,438.28	19.33	20.82	-87.56	103.35	-2,422.34	2,439.84	2,400.99	38.85	62.801			
5,800.00	5,800.00	5,568.53	5,536.80	19.35	20.94	-87.67	98.97	-2,433.62	2,451.02	2,412.08	38.94	62.943			
5,900.00	5,900.00	5,667.79	5,635.31	19.37	21.01	-87.78	94.60	-2,444.90	2,462.21	2,423.22	38.99	63.154			
6,000.00	6,000.00	5,767.04	5,733.83	19.41	21.10	-87.90	90.23	-2,456.18	2,473.41	2,434.36	39.05	63.342			
6,100.00	6,100.00	5,866.29	5,832.34	19.45	21.19	-88.01	85.85	-2,467.45	2,484.62	2,445.50	39.12	63.509			
6,200.00	6,200.00	5,965.55	5,930.86	19.49	21.28	-88.12	81.48	-2,478.73	2,495.84	2,456.63	39.21	63.653			
6,300.00	6,300.00	6,064.80	6,029.37	19.54	21.39	-88.23	77.11	-2,490.01	2,507.07	2,467.76	39.31	63.776			
6,400.00	6,400.00	6,164.06	6,127.88	19.60	21.50	-88.33	72.73	-2,501.29	2,518.31	2,478.89	39.42	63.877			
6,500.00	6,500.00	6,263.31	6,226.40	19.67	21.62	-88.44	68.36	-2,512.57	2,529.56	2,490.01	39.55	63.956			
6,600.00	6,600.00	6,362.57	6,324.91	19.74	21.75	-88.55	63.99	-2,523.84	2,540.81	2,501.12	39.69	64.015			
6,700.00	6,700.00	6,461.82	6,423.43	19.82	21.88	-88.65	59.61	-2,535.12	2,552.08	2,512.23	39.84	64.052			
6,800.00	6,800.00	6,561.08	6,521.94	19.90	22.02	-88.76	55.24	-2,546.40	2,563.35	2,523.34	40.01	64.070			
6,900.00	6,900.00	6,660.33	6,620.46	19.99	22.17	-88.86	50.87	-2,557.68	2,574.63	2,534.44	40.19	64.057			
7,000.00	7,000.00	6,759.59	6,718.97	20.09	22.32	-88.96	46.49	-2,568.96	2,585.92	2,545.54	40.38	64.046			
7,100.00	7,100.00	6,858.84	6,817.49	20.19	22.48	-89.06	42.12	-2,580.23	2,597.22	2,556.64	40.58	64.005			
7,200.00	7,200.00	6,958.10	6,916.00	20.30	22.65	-89.17	37.75	-2,591.51	2,608.52	2,567.73	40.79	63.947			
7,300.00	7,299.99	7,057.50	7,014.66	20.41	22.82	12.97	33.37	-2,602.81	2,618.56	2,577.55	41.01	63.846			
7,400.00	7,399.91	7,157.14	7,113.57	20.52	23.00	12.87	28.98	-2,614.13	2,626.07	2,584.83	41.24	63.671			
7,500.00	7,499.69	7,256.97	7,212.65	20.64	23.18	12.78	24.58	-2,625.47	2,631.04	2,589.55	41.49	63.418			
7,533.33	7,532.91	7,309.73	7,245.71	20.68	23.28	12.76	23.11	-2,629.26	2,632.13	2,590.53	41.60	63.278			
7,600.00	7,599.32	7,356.89	7,311.83	20.77	23.37	12.72	20.17	-2,636.82	2,634.03	2,592.28	41.74	63.103			
7,700.00	7,698.94	7,456.82	7,411.01	20.90	23.57	12.67	15.77	-2,648.18	2,636.87	2,594.86	42.01	62.771			
7,800.00	7,798.56	7,556.74	7,510.19	21.04	23.77	12.61	11.37	-2,659.53	2,639.72	2,597.44	42.29	62.426			
7,900.00	7,898.18	7,656.67	7,609.37	21.18	23.98	12.55	6.97	-2,670.89	2,642.57	2,600.00	42.57	62.071			
8,000.00	7,997.80	7,756.60	7,708.55	21.33	24.19	12.50	2.56	-2,682.24	2,645.43	2,602.55	42.87	61.704			
8,100.00	8,097.42	7,856.52	7,807.73	21.49	24.40	12.44	-1.84	-2,693.60	2,648.28	2,605.10	43.18	61.328			
8,200.00	8,197.04	7,956.45	7,906.92	21.65	24.63	12.39	-6.24	-2,704.95	2,651.14	2,607.64	43.50	60.943			
8,280.03	8,276.76	8,036.41	7,986.28	21.78	24.81	12.34	-9.77	-2,714.04	2,653.43	2,609.67	43.77	60.629			
8,300.00	8,296.66	8,056.37	8,006.09	21.82	24.85	12.33	-10.65	-2,716.30	2,654.05	2,610.22	43.83	60.551			
8,400.00	8,396.42	8,156.22	8,105.20	21.99	25.08	12.29	-15.05	-2,727.65	2,658.71	2,614.53	44.17	60.191			
8,500.00	8,496.33	8,255.89	8,204.13	22.16	25.32	12.23	-19.44	-2,738.97	2,665.92	2,621.40	44.52	59.883			
8,600.00	8,596.31	8,355.33	8,302.83	22.33	25.56	12.18	-23.82	-2,750.27	2,675.68	2,630.81	44.87	59.626			
8,613.36	8,609.67	8,368.59	8,315.99	22.36	25.59	-90.09	-24.40	-2,751.78	2,677.18	2,632.25	44.92	59.595			
8,700.00	8,696.31	8,454.59	8,401.34	22.51	25.80	-90.18	-28.19	-2,761.55	2,687.04	2,641.80	45.24	59.397			
8,800.00	8,796.31	8,679.93	8,625.51	22.69	26.33	-90.35	-36.40	-2,782.73	2,696.91	2,651.01	45.91	58.747			
8,900.00	8,896.31	8,900.00	8,888.94	22.88	26.76	-90.42	-39.97	-2,791.92	2,700.05	2,653.55	46.50	58.064			
9,000.00	8,996.31	9,061.98	9,007.31	23.07	27.02	-90.42	-40.00	-2,792.00	2,700.07	2,653.10	46.97	57.480			
9,100.00	9,096.31	9,161.98	9,107.31	23.27	27.18	-90.42	-40.00	-2,792.00	2,700.07	2,652.72	47.35	57.025			
9,200.00	9,196.31	9,261.98	9,207.31	23.47	27.35	-90.42	-40.00	-2,792.00	2,700.07	2,652.34	47.73	56.567			
9,300.00	9,296.31	9,361.98	9,307.31	23.67	27.52	-90.42	-40.00	-2,792.00	2,700.07	2,651.95	48.12	56.108			
9,400.00	9,396.31	9,461.98	9,407.31	23.88	27.69	-90.42	-40.00	-2,792.00	2,700.07	2,651.55	48.52	55.648			
9,500.00	9,496.31	9,561.98	9,507.31	24.09	27.87	-90.42	-40.00	-2,792.00	2,700.07	2,651.15	48.93	55.187			
9,600.00	9,596.31	9,661.98	9,607.31	24.30	28.05	-90.42	-40.00	-2,792.00	2,700.07	2,650.74	49.34	54.726			
9,700.00	9,696.31	9,761.98	9,707.31	24.52	28.23	-90.42	-40.00	-2,792.00	2,700.07	2,650.32	49.76	54.265			
9,800.00	9,796.31	9,861.98	9,807.31	24.74	28.42	-90.42	-40.00	-2,792.00	2,700.07	2,649.89	50.18	53.805			
9,900.00	9,896.31	9,961.98	9,907.31	24.96	28.61	-90.42	-40.00	-2,792.00	2,700.07	2,649.46	50.62	53.345			

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 215H - OH - Preim Plan A		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD - OWSG, 5590-MWD - OWSG, 13016-MWD - OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,000.00	9,996.31	10,061.98	10,007.31	25.19	28.80	-90.42	-40.00	-2,792.00	2,700.07	2,649.02	51.05	52.886				
10,100.00	10,096.31	10,161.98	10,107.31	25.42	29.00	-90.42	-40.00	-2,792.00	2,700.07	2,648.57	51.50	52.429				
10,200.00	10,196.31	10,261.98	10,207.31	25.65	29.20	-90.42	-40.00	-2,792.00	2,700.07	2,648.12	51.95	51.974				
10,300.00	10,296.31	10,361.98	10,307.31	25.88	29.40	-90.42	-40.00	-2,792.00	2,700.07	2,647.67	52.41	51.521				
10,400.00	10,396.31	10,461.98	10,407.31	26.12	29.60	-90.42	-40.00	-2,792.00	2,700.07	2,647.20	52.87	51.070				
10,500.00	10,496.31	10,561.98	10,507.31	26.36	29.81	-90.42	-40.00	-2,792.00	2,700.07	2,646.74	53.34	50.621				
10,600.00	10,596.31	10,661.98	10,607.31	26.61	30.02	-90.42	-40.00	-2,792.00	2,700.07	2,646.26	53.81	50.175				
10,700.00	10,696.31	10,761.98	10,707.31	26.85	30.24	-90.42	-40.00	-2,792.00	2,700.07	2,645.78	54.29	49.732				
10,800.00	10,796.31	10,861.98	10,807.31	27.10	30.46	-90.42	-40.00	-2,792.00	2,700.07	2,645.30	54.78	49.293				
10,900.00	10,896.31	10,961.98	10,907.31	27.35	30.67	-90.42	-40.00	-2,792.00	2,700.07	2,644.81	55.27	48.856				
11,000.00	10,996.31	11,061.98	11,007.31	27.61	30.90	-90.42	-40.00	-2,792.00	2,700.07	2,644.31	55.76	48.423				
11,100.00	11,096.31	11,161.98	11,107.31	27.86	31.12	-90.42	-40.00	-2,792.00	2,700.07	2,643.81	56.26	47.993				
11,200.00	11,196.31	11,261.98	11,207.31	28.12	31.35	-90.42	-40.00	-2,792.00	2,700.07	2,643.31	56.76	47.567				
11,300.00	11,296.31	11,361.98	11,307.31	28.38	31.58	-90.42	-40.00	-2,792.00	2,700.07	2,642.80	57.27	47.145				
11,400.00	11,396.31	11,461.98	11,407.31	28.64	31.81	-90.42	-40.00	-2,792.00	2,700.07	2,642.29	57.78	46.726				
11,500.00	11,496.31	11,561.98	11,507.31	28.91	32.04	-90.42	-40.00	-2,792.00	2,700.07	2,641.77	58.30	46.312				
11,600.00	11,596.31	11,661.98	11,607.31	29.17	32.28	-90.42	-40.00	-2,792.00	2,700.07	2,641.25	58.82	45.901				
11,700.00	11,696.31	11,761.98	11,707.31	29.44	32.52	-90.42	-40.00	-2,792.00	2,700.07	2,640.73	59.35	45.495				
11,800.00	11,796.31	11,861.98	11,807.31	29.71	32.76	-90.42	-40.00	-2,792.00	2,700.07	2,640.20	59.88	45.093				
11,900.00	11,896.31	11,961.98	11,907.31	29.98	33.00	-90.42	-40.00	-2,792.00	2,700.07	2,639.66	60.41	44.695				
12,008.69	12,005.00	12,070.66	12,016.00	30.28	33.27	-90.42	-40.00	-2,792.00	2,700.07	2,639.08	60.99	44.267				
12,050.00	12,046.28	12,111.94	12,057.28	30.39	33.37	-90.16	-40.00	-2,792.00	2,700.08	2,638.86	61.22	44.107				
12,100.00	12,095.93	12,161.59	12,106.93	30.53	33.49	-90.27	-40.00	-2,792.00	2,700.10	2,638.62	61.48	43.919				
12,150.00	12,144.88	12,210.55	12,155.88	30.67	33.61	-90.48	-40.00	-2,792.00	2,700.17	2,638.43	61.73	43.738				
12,200.00	12,192.78	12,261.21	12,206.51	30.80	33.74	-90.74	-38.35	-2,792.01	2,700.31	2,638.32	61.99	43.563				
12,250.00	12,239.24	12,313.44	12,258.33	30.92	33.85	-91.00	-32.01	-2,792.04	2,700.51	2,638.27	62.23	43.394				
12,300.00	12,283.92	12,367.00	12,310.66	31.04	33.96	-91.26	-20.65	-2,792.10	2,700.76	2,638.29	62.47	43.234				
12,350.00	12,326.48	12,421.97	12,363.00	31.16	34.06	-91.51	-3.96	-2,792.19	2,701.06	2,638.36	62.70	43.081				
12,400.00	12,366.59	12,478.38	12,414.82	31.28	34.15	-91.75	18.30	-2,792.31	2,701.40	2,638.47	62.92	42.933				
12,450.00	12,403.95	12,536.29	12,465.45	31.40	34.23	-91.98	46.33	-2,792.45	2,701.76	2,638.62	63.14	42.788				
12,500.00	12,438.28	12,595.68	12,514.19	31.54	34.29	-92.20	80.24	-2,792.63	2,702.14	2,638.78	63.36	42.644				
12,550.00	12,469.30	12,656.56	12,560.21	31.68	34.34	-92.41	120.04	-2,792.84	2,702.53	2,638.94	63.59	42.499				
12,600.00	12,496.80	12,718.85	12,602.67	31.84	34.38	-92.59	165.57	-2,793.08	2,702.90	2,639.07	63.83	42.348				
12,650.00	12,520.55	12,782.46	12,640.67	32.00	34.41	-92.75	216.55	-2,793.34	2,703.24	2,639.16	64.07	42.189				
12,700.00	12,540.37	12,847.25	12,673.32	32.17	34.43	-92.89	272.46	-2,793.64	2,703.54	2,639.20	64.34	42.020				
12,750.00	12,556.12	12,913.03	12,699.80	32.35	34.45	-92.99	332.64	-2,793.95	2,703.78	2,639.15	64.63	41.836				
12,800.00	12,567.68	12,979.57	12,719.40	32.54	34.48	-93.07	396.19	-2,794.28	2,703.95	2,639.02	64.94	41.640				
12,808.69	12,569.25	12,991.19	12,722.06	32.78	34.49	-93.08	407.50	-2,794.34	2,703.98	2,638.99	64.99	41.606				
12,833.69	12,573.59	13,022.91	12,728.16	32.79	39.98	-93.09	438.63	-2,794.51	2,704.00	2,638.89	65.11	41.529				
12,850.00	12,576.29	13,039.22	12,731.00	37.30	39.99	-93.09	454.69	-2,794.59	2,704.01	2,638.82	65.18	41.485				
12,900.00	12,582.83	13,094.26	12,739.18	37.33	40.03	-93.10	509.11	-2,794.90	2,704.04	2,638.61	65.43	41.330				
12,950.00	12,586.78	13,149.73	12,744.24	37.36	40.08	-93.11	564.34	-2,795.28	2,704.06	2,638.34	65.71	41.149				
13,000.41	12,588.11	13,205.69	12,746.10	37.38	40.14	-93.12	620.25	-2,795.73	2,704.07	2,638.02	66.05	40.939				
13,100.00	12,588.10	13,305.65	12,746.10	37.44	40.25	-93.12	720.21	-2,796.59	2,704.07	2,637.24	66.83	40.464				
13,200.00	12,588.10	13,405.65	12,746.10	37.50	40.38	-93.12	820.20	-2,797.46	2,704.07	2,636.31	67.76	39.909				
13,300.00	12,588.10	13,505.65	12,746.10	37.56	40.53	-93.12	920.20	-2,798.32	2,704.07	2,635.24	68.83	39.285				
13,400.00	12,588.10	13,605.65	12,746.10	37.63	40.72	-93.12	1,020.20	-2,799.19	2,704.07	2,634.02	70.04	38.606				
13,500.00	12,588.09	13,705.65	12,746.09	37.72	40.93	-93.12	1,120.19	-2,800.05	2,704.07	2,632.67	71.46	37.874				
13,600.00	12,588.09	13,805.65	12,746.09	37.86	41.19	-93.12	1,220.19	-2,800.91	2,704.07	2,631.20	72.87	37.108				
13,700.00	12,588.09	13,905.65	12,746.09	38.28	41.50	-93.12	1,320.19	-2,801.78	2,704.07	2,629.60	74.46	36.314				
13,800.00	12,588.09	14,005.65	12,746.09	39.08	41.86	-93.12	1,420.18	-2,802.64	2,704.07	2,627.90	76.17	35.501				
13,900.00	12,588.08	14,105.65	12,746.08	40.01	42.29	-93.12	1,520.18	-2,803.51	2,704.06	2,626.09	77.98	34.678				

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - 215H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG, 5500-MWD - OWSG, 13016-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,588.08	14,205.65	12,746.08	41.01	42.80	-93.12	1,620.17	-2,804.37	2,704.06	2,624.18	79.88	33.852		
14,100.00	12,588.08	14,305.65	12,746.08	42.05	43.39	-93.12	1,720.17	-2,805.23	2,704.06	2,622.19	81.87	33.027		
14,200.00	12,588.08	14,405.65	12,746.08	43.14	44.07	-93.12	1,820.17	-2,806.10	2,704.06	2,620.11	83.95	32.210		
14,300.00	12,588.07	14,505.65	12,746.07	44.26	44.82	-93.12	1,920.16	-2,806.96	2,704.06	2,617.96	86.11	31.403		
14,400.00	12,588.07	14,605.65	12,746.07	45.42	45.65	-93.12	2,020.16	-2,807.83	2,704.06	2,615.73	88.33	30.612		
14,500.00	12,588.07	14,705.65	12,746.07	46.60	46.56	-93.12	2,120.16	-2,808.69	2,704.06	2,613.43	90.63	29.837		
14,600.00	12,588.07	14,805.65	12,746.07	47.82	47.52	-93.12	2,220.15	-2,809.56	2,704.06	2,611.08	92.98	29.081		
14,700.00	12,588.06	14,905.65	12,746.06	49.06	48.54	-93.12	2,320.15	-2,810.42	2,704.06	2,608.67	95.39	28.346		
14,800.00	12,588.06	15,005.65	12,746.06	50.33	49.61	-93.12	2,420.14	-2,811.28	2,704.06	2,606.20	97.86	27.631		
14,900.00	12,588.06	15,105.65	12,746.06	51.62	50.72	-93.12	2,520.14	-2,812.15	2,704.06	2,603.68	100.38	26.939		
15,000.00	12,588.06	15,205.65	12,746.06	52.93	51.87	-93.12	2,620.14	-2,813.01	2,704.06	2,601.12	102.94	26.269		
15,100.00	12,588.05	15,305.65	12,746.05	54.26	53.06	-93.12	2,720.13	-2,813.88	2,704.06	2,598.52	105.54	25.621		
15,200.00	12,588.05	15,405.65	12,746.05	55.60	54.27	-93.12	2,820.13	-2,814.74	2,704.06	2,595.88	108.18	24.986		
15,300.00	12,588.05	15,505.65	12,746.05	56.96	55.52	-93.12	2,920.13	-2,815.60	2,704.06	2,593.20	110.86	24.392		
15,400.00	12,588.05	15,605.65	12,746.05	58.34	56.79	-93.12	3,020.12	-2,816.47	2,704.06	2,590.49	113.57	23.810		
15,500.00	12,588.04	15,705.65	12,746.04	59.74	58.08	-93.12	3,120.12	-2,817.33	2,704.06	2,587.74	116.31	23.249		
15,600.00	12,588.04	15,805.65	12,746.04	61.14	59.40	-93.12	3,220.12	-2,818.20	2,704.05	2,584.97	119.08	22.707		
15,700.00	12,588.04	15,905.65	12,746.04	62.56	60.73	-93.12	3,320.11	-2,819.06	2,704.05	2,582.17	121.88	22.186		
15,800.00	12,588.04	16,005.65	12,746.04	63.99	62.08	-93.12	3,420.11	-2,819.93	2,704.05	2,579.35	124.71	21.684		
15,900.00	12,588.03	16,105.65	12,746.03	65.43	63.45	-93.12	3,520.10	-2,820.79	2,704.05	2,576.50	127.55	21.199		
16,000.00	12,588.03	16,205.65	12,746.03	66.88	64.83	-93.12	3,620.10	-2,821.65	2,704.05	2,573.63	130.42	20.733		
16,100.00	12,588.03	16,305.65	12,746.03	68.34	66.23	-93.12	3,720.10	-2,822.52	2,704.05	2,570.74	133.31	20.283		
16,200.00	12,588.03	16,405.65	12,746.03	69.81	67.64	-93.12	3,820.09	-2,823.38	2,704.05	2,567.83	136.22	19.850		
16,300.00	12,588.02	16,505.65	12,746.02	71.29	69.06	-93.12	3,920.09	-2,824.25	2,704.05	2,564.90	139.15	19.432		
16,400.00	12,588.02	16,605.65	12,746.02	72.78	70.49	-93.12	4,020.09	-2,825.11	2,704.05	2,561.95	142.10	19.030		
16,500.00	12,588.02	16,705.65	12,746.02	74.27	71.94	-93.12	4,120.08	-2,825.97	2,704.05	2,558.99	145.06	18.641		
16,600.00	12,588.02	16,805.65	12,746.02	75.77	73.39	-93.12	4,220.08	-2,826.84	2,704.05	2,556.02	148.03	18.267		
16,700.00	12,588.02	16,905.65	12,746.02	77.27	74.85	-93.12	4,320.07	-2,827.70	2,704.05	2,553.03	151.02	17.905		
16,800.00	12,588.01	17,005.65	12,746.01	78.79	76.32	-93.12	4,420.07	-2,828.57	2,704.05	2,550.02	154.03	17.556		
16,900.00	12,588.01	17,105.65	12,746.01	80.31	77.80	-93.12	4,520.07	-2,829.43	2,704.05	2,547.00	157.04	17.219		
17,000.00	12,588.01	17,205.65	12,746.01	81.83	79.29	-93.12	4,620.06	-2,830.30	2,704.05	2,543.98	160.07	16.893		
17,100.00	12,588.01	17,305.65	12,746.01	83.36	80.78	-93.12	4,720.06	-2,831.16	2,704.05	2,540.94	163.11	16.578		
17,200.00	12,588.00	17,405.65	12,746.00	84.89	82.28	-93.12	4,820.06	-2,832.02	2,704.05	2,537.89	166.16	16.274		
17,306.62	12,588.00	17,512.27	12,746.00	86.53	83.88	-93.12	4,926.67	-2,832.95	2,704.04	2,534.62	169.42	15.960 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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.03	-29.00	30.00	41.73					
100.00	100.00	100.00	100.00	0.13	0.13	134.03	-29.00	30.00	41.73	41.47	0.25	163.940		
200.00	200.00	200.00	200.00	0.49	0.49	134.03	-29.00	30.00	41.73	40.75	0.97	42.951		
300.00	300.00	300.00	300.00	0.84	0.84	134.03	-29.00	30.00	41.73	40.04	1.69	24.713		
400.00	400.00	400.00	400.00	1.20	1.20	134.03	-29.00	30.00	41.73	39.32	2.41	17.347		
500.00	500.00	500.00	500.00	1.56	1.56	134.03	-29.00	30.00	41.73	38.60	3.12	13.364		
600.00	600.00	600.00	600.00	1.92	1.92	134.03	-29.00	30.00	41.73	37.89	3.84	10.868		
700.00	700.00	700.00	700.00	2.28	2.28	134.03	-29.00	30.00	41.73	37.17	4.56	9.158		
800.00	800.00	800.00	800.00	2.64	2.64	134.03	-29.00	30.00	41.73	36.45	5.27	7.913		
900.00	900.00	900.00	900.00	3.00	3.00	134.03	-29.00	30.00	41.73	35.74	5.99	6.966		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	134.03	-29.00	30.00	41.73	35.02	6.71	6.221 CC, ES		
1,100.00	1,100.00	1,099.21	1,099.20	3.71	3.70	132.81	-28.98	31.29	42.66	35.25	7.41	5.755		
1,200.00	1,200.00	1,198.28	1,198.19	4.07	4.04	129.46	-28.93	35.14	45.56	37.45	8.11	5.619		
1,300.00	1,300.00	1,297.09	1,296.79	4.43	4.39	124.78	-28.85	41.55	50.68	41.88	8.80	5.759		
1,400.00	1,400.00	1,404.56	1,394.74	4.79	4.77	119.67	-28.74	50.45	58.30	48.78	9.52	6.123		
1,500.00	1,500.00	1,505.11	1,493.64	5.15	5.14	115.18	-28.60	60.84	67.53	57.30	10.23	6.603		
1,600.00	1,600.00	1,594.35	1,592.55	5.50	5.46	111.78	-28.47	71.24	77.08	66.18	10.90	7.073		
1,700.00	1,700.00	1,706.20	1,691.46	5.86	5.88	109.14	-28.34	81.63	86.83	75.18	11.65	7.454		
1,800.00	1,800.00	1,806.75	1,790.37	6.22	6.25	107.04	-28.20	92.03	96.73	84.37	12.36	7.825		
1,900.00	1,900.00	1,907.30	1,889.27	6.58	6.63	105.33	-28.07	102.42	106.74	93.66	13.08	8.162		
2,000.00	2,000.00	2,007.84	1,988.18	6.94	7.01	103.91	-27.94	112.82	116.82	103.03	13.79	8.470		
2,100.00	2,100.00	2,108.39	2,087.09	7.30	7.39	102.72	-27.80	123.21	126.97	112.46	14.51	8.751		
2,200.00	2,200.00	2,208.94	2,186.00	7.66	7.78	101.70	-27.67	133.60	137.16	121.93	15.23	9.008		
2,300.00	2,300.00	2,309.49	2,284.90	8.01	8.16	100.83	-27.53	144.00	147.38	131.44	15.94	9.244		
2,400.00	2,400.00	2,389.96	2,383.81	8.37	8.47	100.06	-27.40	154.39	157.64	141.05	16.59	9.502		
2,500.00	2,500.00	2,489.42	2,482.72	8.73	8.85	99.40	-27.27	164.79	167.92	150.62	17.30	9.704		
2,600.00	2,600.00	2,588.87	2,581.63	9.09	9.24	98.80	-27.13	175.18	178.22	160.20	18.02	9.890		
2,700.00	2,700.00	2,688.32	2,680.53	9.45	9.62	98.28	-27.00	185.58	188.54	169.80	18.74	10.063		
2,800.00	2,800.00	2,787.77	2,779.44	9.81	10.01	97.81	-26.87	195.97	198.87	179.42	19.45	10.224		
2,900.00	2,900.00	2,887.23	2,878.35	10.16	10.39	97.38	-26.73	206.37	209.22	189.05	20.17	10.373		
3,000.00	3,000.00	2,986.68	2,977.26	10.52	10.78	97.00	-26.60	216.76	219.57	198.68	20.89	10.513		
3,100.00	3,100.00	3,086.13	3,076.16	10.88	11.17	96.65	-26.47	227.16	229.93	208.33	21.60	10.644		
3,200.00	3,200.00	3,185.58	3,175.07	11.24	11.55	96.33	-26.33	237.55	240.30	217.98	22.32	10.766		
3,300.00	3,300.00	3,285.03	3,273.98	11.60	11.94	96.03	-26.20	247.95	250.68	227.64	23.04	10.881		
3,400.00	3,400.00	3,384.49	3,372.88	11.96	12.33	95.76	-26.07	258.34	261.06	237.31	23.76	10.990		
3,500.00	3,500.00	3,483.94	3,471.79	12.32	12.72	95.51	-25.93	268.74	271.45	246.98	24.47	11.092		
3,600.00	3,600.00	3,583.39	3,570.70	12.67	13.11	95.28	-25.80	279.13	281.85	256.66	25.19	11.188		
3,700.00	3,700.00	3,682.84	3,669.61	13.03	13.49	95.07	-25.66	289.53	292.25	266.34	25.91	11.279		
3,800.00	3,800.00	3,782.30	3,768.51	13.39	13.88	94.87	-25.53	299.92	302.65	276.02	26.63	11.366		
3,900.00	3,900.00	3,881.75	3,867.42	13.75	14.27	94.68	-25.40	310.31	313.05	285.71	27.35	11.447		
4,000.00	4,000.00	3,981.20	3,966.33	14.11	14.66	94.50	-25.26	320.71	323.46	295.39	28.07	11.525		
4,100.00	4,100.00	4,080.65	4,065.24	14.47	15.05	94.34	-25.13	331.10	333.87	305.09	28.78	11.599		
4,200.00	4,200.00	4,180.10	4,164.14	14.82	15.44	94.19	-25.00	341.50	344.28	314.78	29.50	11.669		
4,300.00	4,300.00	4,279.56	4,263.05	15.18	15.83	94.04	-24.86	351.89	354.70	324.48	30.22	11.736		
4,400.00	4,400.00	4,379.01	4,361.96	15.54	16.22	93.90	-24.73	362.29	365.12	334.18	30.94	11.800		
4,500.00	4,500.00	4,478.46	4,460.87	15.90	16.61	93.78	-24.60	372.68	375.54	343.88	31.66	11.861		
4,600.00	4,600.00	4,577.91	4,559.77	16.26	17.00	93.65	-24.46	383.08	385.96	353.58	32.38	11.920		
4,700.00	4,700.00	4,677.37	4,658.68	16.62	17.39	93.54	-24.33	393.47	396.38	363.28	33.10	11.975		
4,800.00	4,800.00	4,776.82	4,757.59	16.98	17.78	93.43	-24.19	403.87	406.81	372.99	33.82	12.029		
4,900.00	4,900.00	4,876.27	4,856.50	17.33	18.17	93.32	-24.06	414.26	417.23	382.70	34.54	12.080		
5,000.00	5,000.00	4,975.72	4,955.40	17.69	18.56	93.22	-23.93	424.66	427.66	392.40	35.26	12.129		
5,100.00	5,100.00	5,075.17	5,054.31	18.05	18.95	93.13	-23.79	435.05	438.09	402.11	35.98	12.177		

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 - CWSG, 12981-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,200.00	5,174.63	5,153.22	18.41	19.35	93.04	-23.66	445.45	448.52	411.82	36.70	12.222		
5,300.00	5,300.00	5,274.08	5,252.13	18.77	19.74	92.95	-23.53	455.84	458.95	421.53	37.42	12.266		
5,400.00	5,400.00	5,373.53	5,351.03	19.13	20.13	92.87	-23.39	466.24	469.38	431.25	38.14	12.308		
5,500.00	5,500.00	5,472.98	5,449.94	19.31	20.39	92.79	-23.26	476.63	479.82	441.27	38.55	12.447		
5,600.00	5,600.00	5,572.43	5,548.85	19.31	20.49	92.72	-23.13	487.03	490.25	451.64	38.61	12.697		
5,700.00	5,700.00	5,671.89	5,647.75	19.33	20.55	92.65	-22.99	497.42	500.68	462.05	38.64	12.959		
5,800.00	5,800.00	5,771.34	5,746.66	19.35	20.62	92.58	-22.86	507.81	511.12	472.44	38.68	13.216		
5,900.00	5,900.00	5,870.79	5,845.57	19.37	20.70	92.51	-22.72	518.21	521.56	482.83	38.73	13.467		
6,000.00	6,000.00	5,970.24	5,944.48	19.41	20.78	92.45	-22.59	528.60	531.99	493.20	38.79	13.713		
6,100.00	6,100.00	6,069.70	6,043.38	19.45	20.87	92.39	-22.46	539.00	542.43	503.55	38.87	13.953		
6,200.00	6,200.00	6,169.15	6,142.29	19.49	20.96	92.33	-22.32	549.39	552.87	513.90	38.97	14.188		
6,300.00	6,300.00	6,268.60	6,241.20	19.54	21.07	92.27	-22.19	559.79	563.31	524.23	39.07	14.417		
6,400.00	6,400.00	6,368.05	6,340.11	19.60	21.18	92.22	-22.06	570.18	573.74	534.55	39.19	14.639		
6,500.00	6,500.00	6,467.50	6,439.01	19.67	21.29	92.16	-21.92	580.58	584.18	544.86	39.32	14.856		
6,600.00	6,600.00	6,566.96	6,537.92	19.74	21.41	92.11	-21.79	590.97	594.62	555.16	39.47	15.066		
6,700.00	6,700.00	6,666.41	6,636.83	19.82	21.54	92.06	-21.66	601.37	605.06	565.44	39.62	15.270		
6,800.00	6,800.00	6,765.86	6,735.74	19.90	21.68	92.01	-21.52	611.76	615.50	575.71	39.79	15.467		
6,900.00	6,900.00	6,865.31	6,834.64	19.99	21.82	91.97	-21.39	622.16	625.95	585.97	39.98	15.658		
7,000.00	7,000.00	6,964.77	6,933.55	20.09	21.97	91.92	-21.26	632.55	636.39	596.22	40.17	15.842		
7,100.00	7,100.00	7,064.22	7,032.46	20.19	22.12	91.88	-21.12	642.95	646.83	606.45	40.38	16.020		
7,200.00	7,200.00	7,163.67	7,131.37	20.30	22.28	91.84	-20.99	653.34	657.27	616.68	40.59	16.192		
7,300.00	7,299.99	7,262.96	7,230.13	20.41	22.45	-165.92	-20.85	663.72	668.98	628.16	40.82	16.389		
7,400.00	7,399.91	7,361.95	7,328.56	20.52	22.62	-165.99	-20.72	674.06	680.20	642.15	41.05	16.642		
7,500.00	7,499.69	7,460.51	7,426.58	20.64	22.80	-166.09	-20.59	684.37	690.94	656.64	41.30	16.948		
7,533.33	7,532.91	7,506.73	7,459.16	20.68	22.88	-166.13	-20.55	687.79	705.07	664.67	41.40	17.055		
7,600.00	7,599.32	7,558.72	7,524.25	20.77	22.98	-166.27	-20.46	694.63	718.63	677.07	41.55	17.294		
7,700.00	7,698.94	7,656.90	7,621.90	20.90	23.16	-166.46	-20.33	704.89	737.46	695.65	41.82	17.635		
7,800.00	7,798.56	7,755.08	7,719.54	21.04	23.35	-166.64	-20.19	715.16	756.31	714.21	42.09	17.967		
7,900.00	7,898.18	7,853.27	7,817.18	21.18	23.55	-166.81	-20.06	725.42	775.16	732.78	42.38	18.291		
8,000.00	7,997.80	7,951.45	7,914.83	21.33	23.75	-166.97	-19.93	735.68	794.02	751.34	42.68	18.606		
8,100.00	8,097.42	8,049.63	8,012.47	21.49	23.95	-167.13	-19.80	745.94	812.88	769.90	42.98	18.912		
8,200.00	8,197.04	8,147.81	8,110.11	21.65	24.16	-167.28	-19.67	756.20	831.75	788.45	43.30	19.209		
8,280.03	8,276.76	8,226.38	8,188.25	21.78	24.33	-167.39	-19.56	764.41	846.85	803.29	43.56	19.441		
8,300.00	8,296.66	8,246.00	8,207.77	21.82	24.37	-167.43	-19.53	766.47	850.57	806.95	43.63	19.497		
8,400.00	8,396.42	8,344.51	8,305.73	21.99	24.59	-167.60	-19.40	776.76	867.69	823.73	43.95	19.738		
8,500.00	8,496.33	8,443.50	8,404.18	22.16	24.81	-167.72	-19.27	787.11	882.29	837.98	44.31	19.914		
8,600.00	8,596.31	8,573.06	8,533.24	22.33	25.09	-167.79	-19.12	798.45	892.66	847.91	44.75	19.946		
8,613.36	8,609.67	8,590.45	8,550.59	22.36	25.13	89.94	-19.11	799.64	893.60	848.79	44.81	19.941		
8,700.00	8,696.31	8,703.49	8,663.48	22.51	25.35	89.94	-19.03	805.45	898.05	852.86	45.18	19.875		
8,800.00	8,796.31	8,834.25	8,794.20	22.69	25.59	89.94	-19.00	807.99	899.99	854.40	45.59	19.740		
8,900.00	8,896.31	8,936.36	8,896.31	22.88	25.76	89.94	-19.00	808.00	900.00	854.04	45.96	19.581		
9,000.00	8,996.31	9,036.36	8,996.31	23.07	25.93	89.94	-19.00	808.00	900.00	853.66	46.34	19.423		
9,100.00	9,096.31	9,136.36	9,096.31	23.27	26.10	89.94	-19.00	808.00	900.00	853.28	46.72	19.263		
9,200.00	9,196.31	9,236.36	9,196.31	23.47	26.27	89.94	-19.00	808.00	900.00	852.89	47.11	19.103		
9,300.00	9,296.31	9,336.36	9,296.31	23.67	26.45	89.94	-19.00	808.00	900.00	852.49	47.51	18.943		
9,400.00	9,396.31	9,436.36	9,396.31	23.88	26.63	89.94	-19.00	808.00	900.00	852.08	47.92	18.783		
9,500.00	9,496.31	9,536.36	9,496.31	24.09	26.82	89.94	-19.00	808.00	900.00	851.67	48.33	18.622		
9,600.00	9,596.31	9,636.36	9,596.31	24.30	27.01	89.94	-19.00	808.00	900.00	851.25	48.75	18.461		
9,700.00	9,696.31	9,736.36	9,696.31	24.52	27.20	89.94	-19.00	808.00	900.00	850.82	49.18	18.301		
9,800.00	9,796.31	9,836.36	9,796.31	24.74	27.40	89.94	-19.00	808.00	900.00	850.39	49.61	18.141		
9,900.00	9,896.31	9,936.36	9,896.31	24.96	27.60	89.94	-19.00	808.00	900.00	849.95	50.05	17.981		
10,000.00	9,996.31	10,036.36	9,996.31	25.19	27.80	89.94	-19.00	808.00	900.00	849.50	50.50	17.822		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Lea County, NM	TVD Reference:	Rig @ 3361.00usft (GL:3332' + KB:29')
Reference Site:	Biggers Fed Com	MD Reference:	Rig @ 3361.00usft (GL:3332' + KB:29')
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan A	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)						
10,100.00	10,095.31	10,136.36	10,096.31	25.42	28.01	89.94	-19.00	808.00	900.00	849.05	50.95	17.664		
10,200.00	10,196.31	10,236.36	10,196.31	25.65	28.22	89.94	-19.00	808.00	900.00	848.59	51.41	17.506		
10,300.00	10,295.31	10,336.36	10,296.31	25.88	28.43	89.94	-19.00	808.00	900.00	848.13	51.88	17.349		
10,400.00	10,396.31	10,436.36	10,396.31	26.12	28.65	89.94	-19.00	808.00	900.00	847.65	52.35	17.193		
10,500.00	10,496.31	10,536.36	10,496.31	26.36	28.86	89.94	-19.00	808.00	900.00	847.18	52.82	17.038		
10,600.00	10,596.31	10,636.36	10,596.31	26.61	29.08	89.94	-19.00	808.00	900.00	846.70	53.30	16.885		
10,700.00	10,696.31	10,736.36	10,696.31	26.85	29.31	89.94	-19.00	808.00	900.00	846.21	53.79	16.732		
10,800.00	10,796.31	10,836.36	10,796.31	27.10	29.53	89.94	-19.00	808.00	900.00	845.72	54.28	16.580		
10,900.00	10,896.31	10,936.36	10,896.31	27.35	29.76	89.94	-19.00	808.00	900.00	845.22	54.78	16.430		
11,000.00	10,996.31	11,036.36	10,996.31	27.61	29.98	89.94	-19.00	808.00	900.00	844.72	55.28	16.281		
11,100.00	11,096.31	11,136.36	11,096.31	27.86	30.23	89.94	-19.00	808.00	900.00	844.21	55.79	16.133		
11,200.00	11,196.31	11,236.36	11,196.31	28.12	30.46	89.94	-19.00	808.00	900.00	843.70	56.30	15.987		
11,300.00	11,296.31	11,336.36	11,296.31	28.38	30.70	89.94	-19.00	808.00	900.00	843.19	56.81	15.842		
11,400.00	11,396.31	11,436.36	11,396.31	28.64	30.94	89.94	-19.00	808.00	900.00	842.67	57.33	15.698		
11,500.00	11,496.31	11,536.36	11,496.31	28.91	31.19	89.94	-19.00	808.00	900.00	842.14	57.86	15.556		
11,600.00	11,596.31	11,636.36	11,596.31	29.17	31.43	89.94	-19.00	808.00	900.00	841.62	58.38	15.415		
11,700.00	11,696.31	11,736.36	11,696.31	29.44	31.68	89.94	-19.00	808.00	900.00	841.09	58.92	15.276		
11,800.00	11,796.31	11,836.36	11,796.31	29.71	31.93	89.94	-19.00	808.00	900.00	840.55	59.45	15.138		
11,900.00	11,896.31	11,936.36	11,896.31	29.98	32.18	89.94	-19.00	808.00	900.00	840.01	59.99	15.002		
12,008.69	12,005.00	12,045.05	12,005.00	30.28	32.46	89.94	-19.00	808.00	900.00	839.42	60.58	14.856		
12,050.00	12,046.28	12,086.32	12,046.28	30.39	32.56	90.33	-19.00	808.00	900.01	839.20	60.81	14.801		
12,100.00	12,095.93	12,135.97	12,095.93	30.53	32.69	90.69	-19.00	808.00	900.06	838.98	61.08	14.737		
12,150.00	12,144.88	12,185.29	12,145.25	30.67	32.82	91.30	-18.91	808.00	900.24	838.89	61.34	14.675		
12,200.00	12,192.78	12,236.30	12,196.14	30.80	32.95	92.00	-15.73	807.99	900.57	838.96	61.61	14.617		
12,250.00	12,239.24	12,288.41	12,247.63	30.92	33.08	92.69	-7.82	807.95	901.05	839.17	61.88	14.561		
12,300.00	12,283.92	12,341.67	12,299.29	31.04	33.21	93.37	5.06	807.90	901.65	839.50	62.15	14.507		
12,350.00	12,326.48	12,396.14	12,350.65	31.16	33.35	94.03	23.13	807.82	902.37	839.95	62.42	14.456		
12,400.00	12,366.59	12,451.83	12,401.15	31.28	33.48	94.67	46.57	807.71	903.18	840.48	62.70	14.405		
12,450.00	12,403.95	12,508.77	12,450.17	31.40	33.61	95.28	75.47	807.59	904.05	841.07	62.98	14.355		
12,500.00	12,438.28	12,566.95	12,497.06	31.54	33.74	95.84	109.89	807.44	904.96	841.70	63.27	14.304		
12,550.00	12,469.30	12,626.35	12,541.06	31.68	33.86	96.37	149.74	807.26	905.88	842.32	63.56	14.251		
12,600.00	12,496.80	12,686.90	12,581.44	31.84	34.00	96.84	194.83	807.07	906.77	842.90	63.87	14.196		
12,650.00	12,520.55	12,748.52	12,617.41	32.00	34.13	97.25	244.82	806.85	907.60	843.40	64.20	14.137		
12,700.00	12,540.37	12,811.10	12,648.23	32.17	34.28	97.60	299.25	806.61	908.33	843.78	64.55	14.072		
12,750.00	12,556.12	12,874.49	12,673.21	32.35	34.44	97.88	357.47	806.36	908.95	844.02	64.92	14.001		
12,800.00	12,567.68	12,938.50	12,691.77	32.54	34.62	98.07	418.70	806.09	909.41	844.09	65.32	13.923		
12,808.69	12,569.25	12,949.67	12,694.30	32.78	34.66	98.10	429.58	806.04	909.48	844.09	65.39	13.908		
12,833.69	12,573.59	12,980.35	12,700.18	32.79	35.69	98.13	459.69	805.91	909.56	843.99	65.56	13.873		
12,850.00	12,576.29	12,996.67	12,703.01	32.70	39.00	98.14	475.75	805.84	909.59	843.92	65.67	13.850		
12,900.00	12,582.83	13,055.47	12,711.63	32.33	39.78	98.20	533.91	805.55	909.76	843.76	66.00	13.784		
12,950.00	12,586.78	13,114.97	12,716.70	32.36	39.87	98.22	593.18	805.15	909.83	843.45	66.38	13.707		
13,000.41	12,588.11	13,173.65	12,718.11	32.38	39.96	98.22	651.84	804.68	909.81	843.00	66.80	13.619		
13,100.00	12,588.10	13,273.24	12,718.10	32.44	40.14	98.22	751.42	803.80	909.80	842.03	67.77	13.426		
13,200.00	12,588.10	13,373.24	12,718.10	32.50	40.35	98.22	851.42	802.93	909.79	840.92	68.87	13.210		
13,300.00	12,588.10	13,473.24	12,718.10	32.56	40.60	98.22	951.42	802.05	909.78	839.67	70.11	12.977		
13,400.00	12,588.10	13,573.24	12,718.10	32.63	40.89	98.22	1,051.41	801.18	909.77	838.29	71.48	12.728		
13,500.00	12,588.09	13,673.24	12,718.09	32.72	41.25	98.22	1,151.41	800.30	909.76	836.78	72.97	12.467		
13,600.00	12,588.09	13,773.24	12,718.09	32.86	41.67	98.22	1,251.40	799.43	909.75	835.16	74.58	12.198		
13,700.00	12,588.09	13,873.24	12,718.09	32.88	42.18	98.22	1,351.40	798.55	909.73	833.43	76.30	11.923		
13,800.00	12,588.09	13,973.24	12,718.09	32.98	42.76	98.22	1,451.40	797.68	909.72	831.61	78.12	11.646		
13,900.00	12,588.08	14,073.24	12,718.08	40.01	43.42	98.22	1,551.39	796.80	909.71	829.68	80.03	11.367		
14,000.00	12,588.08	14,173.24	12,718.08	41.01	44.17	98.22	1,651.39	795.93	909.70	827.67	82.03	11.090		

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.00	12,588.08	14,273.24	12,718.08	42.05	45.00	98.22	1,751.38	795.05	909.69	825.58	84.11	10.815	
14,200.00	12,588.08	14,373.24	12,718.08	43.14	45.89	98.22	1,851.38	794.18	909.68	823.41	86.27	10.545	
14,300.00	12,588.07	14,473.24	12,718.07	44.26	46.85	98.22	1,951.38	793.30	909.67	821.18	88.49	10.279	
14,400.00	12,588.07	14,573.24	12,718.07	45.42	47.87	98.22	2,051.37	792.43	909.66	818.88	90.79	10.020	
14,500.00	12,588.07	14,673.24	12,718.07	46.60	48.93	98.22	2,151.37	791.55	909.65	816.51	93.14	9.767	
14,600.00	12,588.07	14,773.24	12,718.07	47.82	50.04	98.22	2,251.37	790.67	909.64	814.10	95.54	9.521	
14,700.00	12,588.06	14,873.24	12,718.06	49.06	51.18	98.22	2,351.36	789.80	909.63	811.63	98.00	9.282	
14,800.00	12,588.06	14,973.24	12,718.06	50.33	52.36	98.22	2,451.36	788.92	909.62	809.11	100.51	9.050	
14,900.00	12,588.06	15,073.24	12,718.06	51.62	53.58	98.22	2,551.35	788.05	909.61	806.55	103.06	8.826	
15,000.00	12,588.06	15,173.24	12,718.06	52.93	54.82	98.22	2,651.35	787.17	909.60	803.95	105.65	8.609	
15,100.00	12,588.05	15,273.24	12,718.05	54.26	56.08	98.22	2,751.35	786.30	909.59	801.31	108.28	8.400	
15,200.00	12,588.05	15,373.24	12,718.05	55.60	57.37	98.22	2,851.34	785.42	909.58	798.63	110.95	8.198	
15,300.00	12,588.05	15,473.24	12,718.05	56.96	58.68	98.22	2,951.34	784.55	909.57	795.93	113.64	8.004	
15,400.00	12,588.05	15,573.24	12,718.05	58.34	60.01	98.22	3,051.33	783.67	909.56	793.19	116.37	7.816	
15,500.00	12,588.04	15,673.24	12,718.04	59.74	61.36	98.22	3,151.33	782.80	909.55	790.42	119.13	7.635	
15,600.00	12,588.04	15,773.24	12,718.04	61.14	62.72	98.22	3,251.33	781.92	909.54	787.63	121.91	7.461	
15,700.00	12,588.04	15,873.24	12,718.04	62.56	64.10	98.22	3,351.32	781.05	909.53	784.81	124.72	7.293	
15,800.00	12,588.04	15,973.24	12,718.04	63.99	65.50	98.22	3,451.32	780.17	909.52	781.97	127.55	7.131	
15,900.00	12,588.03	16,073.24	12,718.03	65.43	66.90	98.22	3,551.32	779.30	909.51	779.10	130.40	6.975	
16,000.00	12,588.03	16,173.24	12,718.03	66.88	68.32	98.22	3,651.31	778.42	909.49	776.22	133.28	6.824	
16,100.00	12,588.03	16,273.24	12,718.03	68.34	69.75	98.22	3,751.31	777.55	909.48	773.32	136.17	6.679	
16,200.00	12,588.03	16,373.24	12,718.03	69.81	71.19	98.22	3,851.30	776.67	909.47	770.40	139.08	6.539	
16,300.00	12,588.02	16,473.24	12,718.03	71.29	72.64	98.22	3,951.30	775.79	909.46	767.46	142.00	6.404	
16,400.00	12,588.02	16,573.24	12,718.02	72.78	74.10	98.22	4,051.30	774.92	909.45	764.51	144.95	6.274	
16,500.00	12,588.02	16,673.24	12,718.02	74.27	75.57	98.22	4,151.29	774.04	909.44	761.54	147.90	6.149	
16,600.00	12,588.02	16,773.24	12,718.02	75.77	77.05	98.22	4,251.29	773.17	909.43	758.56	150.87	6.028	
16,700.00	12,588.02	16,873.24	12,718.02	77.27	78.53	98.22	4,351.29	772.29	909.42	755.56	153.86	5.911	
16,800.00	12,588.01	16,973.24	12,718.01	78.79	80.03	98.22	4,451.28	771.42	909.41	752.56	156.85	5.798	
16,900.00	12,588.01	17,073.24	12,718.01	80.31	81.52	98.22	4,551.28	770.54	909.40	749.54	159.86	5.689	
17,000.00	12,588.01	17,173.24	12,718.01	81.83	83.03	98.22	4,651.27	769.67	909.39	746.51	162.88	5.583	
17,100.00	12,588.01	17,273.24	12,718.01	83.35	84.54	98.22	4,751.27	768.79	909.38	743.47	165.91	5.481	
17,200.00	12,588.00	17,373.24	12,718.00	84.89	86.06	98.22	4,851.27	767.92	909.37	740.42	168.95	5.383	
17,306.62	12,588.00	17,479.86	12,718.00	86.53	87.68	98.22	4,957.88	766.98	909.36	737.16	172.20	5.281 SF	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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		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	180.00	-30.00	0.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.75	0.25	117.871	
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.03	0.97	30.881	
300.00	300.00	300.00	300.00	0.84	0.84	180.00	-30.00	0.00	30.00	28.31	1.69	17.768	
400.00	400.00	400.00	400.00	1.20	1.20	180.00	-30.00	0.00	30.00	27.59	2.41	12.472	
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-30.00	0.00	30.00	26.88	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.814	
648.06	648.06	648.06	648.06	2.09	2.09	-179.42	-30.00	-0.30	30.00	25.82	4.18	7.177	CC
700.00	700.00	699.99	699.97	2.28	2.27	-177.50	-29.99	-1.31	30.02	25.47	4.55	6.600	
800.00	800.00	799.83	799.74	2.64	2.62	-170.10	-29.95	-5.23	30.40	25.15	5.25	5.788	ES
900.00	900.00	899.41	899.10	3.00	2.97	-158.57	-29.88	-11.73	32.11	26.15	5.96	5.387	
1,000.00	1,000.00	998.56	997.85	3.35	3.33	-145.11	-29.79	-20.78	36.38	29.71	6.67	5.456	
1,100.00	1,100.00	1,102.81	1,095.79	3.71	3.72	-132.57	-29.67	-32.31	44.07	36.68	7.39	5.965	
1,200.00	1,200.00	1,196.33	1,194.08	4.07	4.07	-123.14	-29.54	-45.25	54.36	46.29	8.07	6.734	
1,300.00	1,300.00	1,304.52	1,292.38	4.43	4.49	-116.82	-29.41	-58.19	65.65	56.83	8.81	7.448	
1,400.00	1,400.00	1,405.38	1,390.67	4.79	4.89	-112.38	-29.28	-71.13	77.49	67.96	9.53	8.131	
1,500.00	1,500.00	1,493.77	1,488.97	5.15	5.24	-109.12	-29.15	-84.07	89.66	79.46	10.20	8.789	
1,600.00	1,600.00	1,607.09	1,587.27	5.50	5.69	-106.65	-29.02	-97.01	102.06	91.09	10.97	9.306	
1,700.00	1,700.00	1,707.94	1,685.56	5.85	6.10	-104.72	-28.89	-109.95	114.60	102.91	11.69	9.805	
1,800.00	1,800.00	1,808.80	1,783.86	6.22	6.51	-103.17	-28.76	-122.89	127.24	114.83	12.41	10.253	
1,900.00	1,900.00	1,909.66	1,882.16	6.58	6.91	-101.90	-28.63	-135.83	139.96	126.83	13.13	10.658	
2,000.00	2,000.00	1,989.49	1,980.45	6.94	7.24	-100.84	-28.50	-148.77	152.73	138.96	13.78	11.085	
2,100.00	2,100.00	2,088.63	2,078.75	7.30	7.64	-99.95	-28.37	-161.71	165.55	151.06	14.50	11.421	
2,200.00	2,200.00	2,187.78	2,177.05	7.66	8.05	-99.18	-28.24	-174.65	178.40	163.19	15.21	11.726	
2,300.00	2,300.00	2,286.92	2,275.34	8.01	8.45	-98.52	-28.11	-187.59	191.28	175.35	15.93	12.006	
2,400.00	2,400.00	2,386.07	2,373.64	8.37	8.86	-97.94	-27.98	-200.53	204.18	187.53	16.65	12.262	
2,500.00	2,500.00	2,485.21	2,471.93	8.73	9.26	-97.43	-27.85	-213.47	217.10	199.73	17.37	12.498	
2,600.00	2,600.00	2,584.36	2,570.23	9.09	9.67	-96.98	-27.72	-226.41	230.04	211.95	18.09	12.716	
2,700.00	2,700.00	2,683.50	2,668.53	9.45	10.08	-96.57	-27.59	-239.35	242.99	224.18	18.81	12.917	
2,800.00	2,800.00	2,782.64	2,766.82	9.81	10.49	-96.21	-27.46	-252.29	255.94	236.41	19.53	13.105	
2,900.00	2,900.00	2,881.79	2,865.12	10.16	10.89	-95.88	-27.33	-265.23	268.91	248.66	20.25	13.279	
3,000.00	3,000.00	2,980.93	2,963.42	10.52	11.30	-95.58	-27.20	-278.18	281.89	260.91	20.97	13.441	
3,100.00	3,100.00	3,080.08	3,061.71	10.88	11.71	-95.31	-27.07	-291.12	294.87	273.17	21.69	13.593	
3,200.00	3,200.00	3,179.22	3,160.01	11.24	12.12	-95.06	-26.93	-304.06	307.86	285.44	22.41	13.735	
3,300.00	3,300.00	3,278.37	3,258.30	11.60	12.53	-94.83	-26.80	-317.00	320.85	297.71	23.13	13.869	
3,400.00	3,400.00	3,377.51	3,356.60	11.96	12.94	-94.62	-26.67	-329.94	333.85	309.99	23.86	13.994	
3,500.00	3,500.00	3,476.66	3,454.90	12.32	13.35	-94.43	-26.54	-342.88	346.85	322.27	24.58	14.113	
3,600.00	3,600.00	3,575.80	3,553.19	12.67	13.76	-94.25	-26.41	-355.82	359.85	334.55	25.30	14.224	
3,700.00	3,700.00	3,674.95	3,651.49	13.03	14.17	-94.08	-26.28	-368.76	372.86	346.84	26.02	14.330	
3,800.00	3,800.00	3,774.09	3,749.79	13.39	14.58	-93.92	-26.15	-381.70	385.87	359.13	26.74	14.430	
3,900.00	3,900.00	3,873.23	3,848.08	13.75	14.99	-93.77	-26.02	-394.64	398.89	371.43	27.46	14.525	
4,000.00	4,000.00	3,972.38	3,946.38	14.11	15.40	-93.63	-25.89	-407.58	411.90	383.72	28.18	14.614	
4,100.00	4,100.00	4,071.52	4,044.67	14.47	15.81	-93.51	-25.76	-420.52	424.92	396.02	28.91	14.700	
4,200.00	4,200.00	4,170.67	4,142.97	14.82	16.22	-93.38	-25.63	-433.46	437.94	408.32	29.63	14.781	
4,300.00	4,300.00	4,269.81	4,241.27	15.18	16.63	-93.27	-25.50	-446.40	450.97	420.62	30.35	14.859	
4,400.00	4,400.00	4,368.96	4,339.56	15.54	17.04	-93.16	-25.37	-459.34	463.99	432.92	31.07	14.933	
4,500.00	4,500.00	4,468.10	4,437.86	15.90	17.45	-93.06	-25.24	-472.28	477.02	445.22	31.79	15.003	
4,600.00	4,600.00	4,567.25	4,536.16	16.26	17.86	-92.96	-25.11	-485.22	490.05	457.53	32.52	15.070	
4,700.00	4,700.00	4,666.39	4,634.45	16.62	18.28	-92.87	-24.98	-498.16	503.07	469.84	33.24	15.135	
4,800.00	4,800.00	4,765.53	4,732.75	16.98	18.69	-92.78	-24.85	-511.10	516.10	482.14	33.96	15.197	
4,900.00	4,900.00	4,864.68	4,831.05	17.33	19.10	-92.70	-24.72	-524.04	529.14	494.45	34.68	15.256	
5,000.00	5,000.00	4,963.82	4,929.34	17.69	19.51	-92.62	-24.59	-536.98	542.17	506.76	35.41	15.313	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
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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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,100.00	5,062.97	5,027.64	18.05	19.92	-92.55	-24.46	-549.92	555.20	519.07	36.13	15.367	
5,200.00	5,200.00	5,162.11	5,125.93	18.41	20.33	-92.47	-24.33	-562.86	568.23	531.38	36.85	15.420	
5,300.00	5,300.00	5,261.26	5,224.23	18.77	20.74	-92.41	-24.20	-575.80	581.27	543.70	37.57	15.470	
5,400.00	5,400.00	5,360.40	5,322.53	19.13	21.15	-92.34	-24.07	-588.74	594.31	556.01	38.30	15.519	
5,500.00	5,500.00	5,459.55	5,420.82	19.31	21.47	-92.28	-23.93	-601.68	607.34	568.61	38.73	15.680	
5,600.00	5,600.00	5,558.69	5,519.12	19.31	21.61	-92.22	-23.80	-614.62	620.38	581.56	38.82	15.981	
5,700.00	5,700.00	5,657.84	5,617.42	19.33	21.70	-92.16	-23.67	-627.56	633.42	594.57	38.85	16.306	
5,800.00	5,800.00	5,756.98	5,715.71	19.35	21.80	-92.11	-23.54	-640.50	646.45	607.57	38.88	16.625	
5,900.00	5,900.00	5,856.12	5,814.01	19.37	21.90	-92.05	-23.41	-653.44	659.49	620.56	38.94	16.937	
6,000.00	6,000.00	5,955.27	5,912.30	19.41	22.01	-92.00	-23.28	-666.38	672.53	633.53	39.00	17.243	
6,100.00	6,100.00	6,054.41	6,010.60	19.45	22.13	-91.95	-23.15	-679.32	685.57	646.49	39.08	17.542	
6,200.00	6,200.00	6,153.56	6,108.90	19.49	22.25	-91.90	-23.02	-692.26	698.61	659.44	39.17	17.833	
6,300.00	6,300.00	6,252.70	6,207.19	19.54	22.38	-91.86	-22.89	-705.20	711.65	672.37	39.28	18.117	
6,400.00	6,400.00	6,351.85	6,305.49	19.60	22.52	-91.82	-22.76	-718.15	724.70	685.30	39.40	18.394	
6,500.00	6,500.00	6,450.99	6,403.79	19.67	22.67	-91.77	-22.63	-731.09	737.74	698.21	39.53	18.663	
6,600.00	6,600.00	6,550.14	6,502.08	19.74	22.82	-91.73	-22.50	-744.03	750.78	711.10	39.67	18.924	
6,700.00	6,700.00	6,649.28	6,600.38	19.82	22.97	-91.69	-22.37	-756.97	763.82	723.99	39.83	19.177	
6,800.00	6,800.00	6,748.42	6,698.67	19.90	23.14	-91.65	-22.24	-769.91	776.86	736.86	40.00	19.421	
6,900.00	6,900.00	6,847.57	6,796.97	19.99	23.31	-91.62	-22.11	-782.85	789.91	749.72	40.18	19.658	
7,000.00	7,000.00	6,946.71	6,895.27	20.09	23.48	-91.58	-21.98	-795.79	802.95	762.57	40.38	19.887	
7,100.00	7,100.00	7,045.86	6,993.56	20.19	23.66	-91.55	-21.85	-808.73	815.99	775.41	40.58	20.107	
7,200.00	7,200.00	7,145.00	7,091.86	20.30	23.85	-91.51	-21.72	-821.67	829.04	788.24	40.80	20.320	
7,300.00	7,299.99	7,244.30	7,190.31	20.41	24.05	10.77	-21.59	-834.63	840.81	799.78	41.02	20.495	
7,400.00	7,399.91	7,343.87	7,289.02	20.52	24.25	10.82	-21.46	-847.62	850.02	808.76	41.26	20.602	
7,500.00	7,499.69	7,443.63	7,387.93	20.64	24.45	10.92	-21.32	-860.64	856.67	815.16	41.50	20.641	
7,533.33	7,532.91	7,476.91	7,420.93	20.68	24.52	10.96	-21.28	-864.99	858.32	816.73	41.59	20.639	
7,600.00	7,599.32	7,543.50	7,486.95	20.77	24.66	11.05	-21.19	-873.68	861.33	819.57	41.76	20.626	
7,700.00	7,698.94	7,643.38	7,585.97	20.90	24.88	11.19	-21.06	-886.72	865.85	823.82	42.03	20.602	
7,800.00	7,798.56	7,743.25	7,684.99	21.04	25.10	11.32	-20.93	-899.75	870.37	828.07	42.31	20.573	
7,900.00	7,898.18	7,843.13	7,784.01	21.18	25.32	11.46	-20.80	-912.79	874.91	832.31	42.60	20.540	
8,000.00	7,997.80	7,943.00	7,883.03	21.33	25.56	11.59	-20.67	-925.82	879.44	836.54	42.90	20.501	
8,100.00	8,097.42	8,042.88	7,982.06	21.49	25.79	11.72	-20.54	-938.86	883.98	840.77	43.21	20.459	
8,200.00	8,197.04	8,142.76	8,081.08	21.65	26.03	11.85	-20.40	-951.89	888.53	845.00	43.53	20.412	
8,280.03	8,276.76	8,229.69	8,167.28	21.78	26.24	11.96	-20.29	-963.12	892.08	848.26	43.82	20.358	
8,300.00	8,296.66	8,255.73	8,193.14	21.82	26.30	12.00	-20.26	-966.23	892.81	848.90	43.91	20.334	
8,400.00	8,396.42	8,366.23	8,322.99	21.99	26.59	12.14	-20.13	-979.15	895.98	851.65	44.34	20.208	
8,500.00	8,496.33	8,516.88	8,453.36	22.16	26.85	12.23	-20.04	-987.63	898.30	853.55	44.75	20.076	
8,600.00	8,596.31	8,647.65	8,584.06	22.33	27.08	12.26	-20.00	-991.65	899.75	854.62	45.13	19.938	
8,613.36	8,609.67	8,665.12	8,601.53	22.36	27.10	-90.00	-20.00	-991.84	899.88	854.70	45.18	19.919	
8,700.00	8,696.31	8,759.91	8,696.31	22.51	27.25	-90.00	-20.00	-992.00	900.00	854.52	45.48	19.788	
8,800.00	8,796.31	8,859.91	8,796.31	22.69	27.40	-90.00	-20.00	-992.00	900.00	854.16	45.84	19.633	
8,900.00	8,896.31	8,959.91	8,896.31	22.88	27.55	-90.00	-20.00	-992.00	900.00	853.79	46.21	19.477	
9,000.00	8,996.31	9,059.91	8,996.31	23.07	27.71	-90.00	-20.00	-992.00	900.00	853.42	46.58	19.321	
9,100.00	9,096.31	9,159.91	9,096.31	23.27	27.88	-90.00	-20.00	-992.00	900.00	853.04	46.96	19.164	
9,200.00	9,196.31	9,259.91	9,196.31	23.47	28.04	-90.00	-20.00	-992.00	900.00	852.65	47.35	19.006	
9,300.00	9,296.31	9,359.91	9,296.31	23.67	28.21	-90.00	-20.00	-992.00	900.00	852.25	47.75	18.848	
9,400.00	9,396.31	9,459.91	9,396.31	23.88	28.38	-90.00	-20.00	-992.00	900.00	851.84	48.16	18.689	
9,500.00	9,496.31	9,559.91	9,496.31	24.09	28.56	-90.00	-20.00	-992.00	900.00	851.43	48.57	18.530	
9,600.00	9,596.31	9,659.91	9,596.31	24.30	28.74	-90.00	-20.00	-992.00	900.00	851.01	48.99	18.372	
9,700.00	9,696.31	9,759.91	9,696.31	24.52	28.92	-90.00	-20.00	-992.00	900.00	850.59	49.41	18.213	
9,800.00	9,796.31	9,859.91	9,796.31	24.74	29.11	-90.00	-20.00	-992.00	900.00	850.15	49.85	18.055	
9,900.00	9,896.31	9,959.91	9,896.31	24.96	29.30	-90.00	-20.00	-992.00	900.00	849.71	50.29	17.898	

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: Biggers Fed Com
 Site Error: 0.00 usft
 Reference Well: 203H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
 TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
 MD Reference: Rig @ 3361.00usft (GL:3332' + 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: G-MWD - OWSG, 5500-MWD - OWSG, 13004-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)					
10,000.00	9,996.31	10,059.91	9,996.31	25.19	29.49	-90.00	-20.00	-992.00	900.00	849.27	50.73	17.740	
10,100.00	10,096.31	10,159.91	10,096.31	25.42	29.69	-90.00	-20.00	-992.00	900.00	848.82	51.18	17.584	
10,200.00	10,196.31	10,259.91	10,196.31	25.65	29.88	-90.00	-20.00	-992.00	900.00	848.36	51.64	17.428	
10,300.00	10,296.31	10,359.91	10,296.31	25.88	30.09	-90.00	-20.00	-992.00	900.00	847.90	52.10	17.273	
10,400.00	10,396.31	10,459.91	10,396.31	26.12	30.29	-90.00	-20.00	-992.00	900.00	847.43	52.57	17.119	
10,500.00	10,496.31	10,559.91	10,496.31	26.36	30.50	-90.00	-20.00	-992.00	900.00	846.95	53.05	16.965	
10,600.00	10,596.31	10,659.91	10,596.31	26.61	30.71	-90.00	-20.00	-992.00	900.00	846.47	53.53	16.813	
10,700.00	10,696.31	10,759.91	10,696.31	26.85	30.92	-90.00	-20.00	-992.00	900.00	845.99	54.01	16.662	
10,800.00	10,796.31	10,859.91	10,796.31	27.10	31.14	-90.00	-20.00	-992.00	900.00	845.49	54.51	16.512	
10,900.00	10,896.31	10,959.91	10,896.31	27.35	31.36	-90.00	-20.00	-992.00	900.00	845.00	55.00	16.363	
11,000.00	10,996.31	11,059.91	10,996.31	27.61	31.58	-90.00	-20.00	-992.00	900.00	844.50	55.50	16.216	
11,100.00	11,096.31	11,159.91	11,096.31	27.86	31.80	-90.00	-20.00	-992.00	900.00	843.99	56.01	16.070	
11,200.00	11,196.31	11,259.91	11,196.31	28.12	32.03	-90.00	-20.00	-992.00	900.00	843.48	56.52	15.925	
11,300.00	11,296.31	11,359.91	11,296.31	28.38	32.25	-90.00	-20.00	-992.00	900.00	842.97	57.03	15.781	
11,400.00	11,396.31	11,459.91	11,396.31	28.64	32.48	-90.00	-20.00	-992.00	900.00	842.45	57.55	15.639	
11,500.00	11,496.31	11,559.91	11,496.31	28.91	32.72	-90.00	-20.00	-992.00	900.00	841.93	58.07	15.498	
11,600.00	11,596.31	11,659.91	11,596.31	29.17	32.95	-90.00	-20.00	-992.00	900.00	841.40	58.60	15.359	
11,700.00	11,696.31	11,759.91	11,696.31	29.44	33.19	-90.00	-20.00	-992.00	900.00	840.87	59.13	15.221	
11,800.00	11,796.31	11,859.91	11,796.31	29.71	33.43	-90.00	-20.00	-992.00	900.00	840.34	59.66	15.085	
11,900.00	11,896.31	11,959.91	11,896.31	29.98	33.67	-90.00	-20.00	-992.00	900.00	839.80	60.20	14.950	
12,008.69	12,005.00	12,068.59	12,005.00	30.28	33.94	-90.00	-20.00	-992.00	900.00	839.21	60.79	14.805	
12,050.00	12,046.28	12,109.87	12,046.28	30.39	34.04	-89.80	-20.00	-992.00	899.99	838.98	61.02	14.750	
12,082.22	12,078.33	12,141.93	12,078.33	30.48	34.12	-90.00	-20.00	-992.00	899.99	838.80	61.19	14.708	
12,100.00	12,095.93	12,159.52	12,095.93	30.53	34.16	-90.16	-20.00	-992.00	899.99	838.71	61.28	14.685	
12,150.00	12,144.88	12,208.71	12,145.12	30.67	34.28	-90.78	-19.91	-992.00	900.07	838.52	61.55	14.623	
12,200.00	12,192.78	12,259.08	12,195.38	30.80	34.40	-91.48	-16.81	-992.01	900.30	838.48	61.82	14.564	
12,250.00	12,239.24	12,310.52	12,246.22	30.92	34.53	-92.18	-9.10	-992.05	900.66	838.58	62.09	14.507	
12,300.00	12,283.92	12,363.08	12,297.24	31.04	34.66	-92.87	3.45	-992.10	901.16	838.80	62.35	14.452	
12,350.00	12,326.48	12,416.82	12,347.99	31.16	34.79	-93.55	21.06	-992.18	901.76	839.14	62.63	14.399	
12,400.00	12,366.59	12,471.77	12,397.94	31.28	34.91	-94.21	43.90	-992.28	902.47	839.57	62.90	14.347	
12,450.00	12,403.95	12,527.95	12,446.52	31.40	35.04	-94.84	72.09	-992.40	903.25	840.07	63.18	14.296	
12,500.00	12,438.28	12,585.39	12,493.08	31.54	35.17	-95.44	105.67	-992.55	904.08	840.61	63.47	14.244	
12,550.00	12,469.30	12,644.05	12,536.92	31.68	35.29	-96.00	144.62	-992.72	904.93	841.17	63.77	14.191	
12,600.00	12,496.80	12,703.92	12,577.32	31.84	35.42	-96.51	188.76	-992.91	905.77	841.70	64.07	14.136	
12,650.00	12,520.55	12,764.91	12,613.51	32.00	35.55	-96.97	237.82	-993.12	906.57	842.17	64.40	14.078	
12,700.00	12,540.37	12,826.93	12,644.75	32.17	35.69	-97.37	291.36	-993.36	907.29	842.55	64.73	14.016	
12,750.00	12,556.12	12,889.85	12,670.35	32.35	35.84	-97.70	348.80	-993.61	907.90	842.81	65.09	13.948	
12,800.00	12,567.68	12,953.51	12,689.69	32.54	36.02	-97.95	409.42	-993.87	908.37	842.90	65.47	13.875	
12,808.59	12,569.25	12,964.63	12,692.37	32.28	36.05	-97.99	420.21	-993.92	908.44	842.90	65.54	13.851	
12,833.69	12,573.59	12,996.74	12,698.93	32.29	36.14	-98.05	451.64	-994.06	908.53	842.82	65.71	13.827	
12,840.43	12,574.74	13,003.89	12,700.17	32.30	36.91	-98.05	458.68	-994.09	908.52	842.77	65.75	13.817	
12,850.00	12,579.29	13,013.46	12,701.84	32.30	36.88	-98.05	468.10	-994.13	908.53	842.71	65.81	13.804	
12,900.00	12,582.83	13,068.39	12,710.34	32.33	41.11	-98.12	522.36	-994.39	908.64	842.49	66.15	13.736	
12,950.00	12,586.78	13,124.65	12,715.85	32.36	41.20	-98.18	578.34	-994.75	908.74	842.23	66.51	13.663	
13,000.41	12,588.11	13,181.42	12,718.07	32.38	41.31	-98.22	635.06	-995.19	908.81	841.90	66.92	13.581	
13,100.00	12,588.10	13,282.01	12,718.10	32.44	41.52	-98.22	735.65	-996.07	908.83	840.96	67.87	13.391	
13,200.00	12,589.10	13,382.01	12,718.10	32.50	41.77	-98.22	835.65	-996.95	908.84	839.87	68.97	13.177	
13,300.00	12,588.10	13,482.01	12,718.10	32.56	42.05	-98.22	935.64	-997.82	908.85	838.65	70.21	12.946	
13,400.00	12,588.10	13,582.01	12,718.10	32.63	42.38	-98.22	1,035.64	-998.70	908.87	837.29	71.57	12.699	
13,500.00	12,588.09	13,682.01	12,718.09	32.72	42.76	-98.22	1,135.63	-999.58	908.88	835.82	73.06	12.440	
13,600.00	12,588.09	13,782.01	12,718.09	32.86	43.20	-98.22	1,235.63	-1,000.46	908.89	834.22	74.67	12.173	
13,700.00	12,588.09	13,882.01	12,718.09	32.88	43.70	-98.22	1,335.63	-1,001.33	908.90	832.52	76.38	11.900	

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: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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: O-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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	12,588.09	13,982.01	12,718.09	39.08	44.26	-98.22	1,435.62	-1,002.21	908.91	830.72	78.20	11.624	
13,900.00	12,588.08	14,082.01	12,718.08	40.01	44.90	-98.22	1,535.62	-1,003.09	908.93	828.82	80.10	11.347	
14,000.00	12,588.08	14,182.01	12,718.08	41.01	45.60	-98.22	1,635.62	-1,003.97	908.94	826.84	82.10	11.071	
14,100.00	12,588.08	14,282.01	12,718.08	42.05	46.38	-98.22	1,735.61	-1,004.84	908.95	824.77	84.18	10.798	
14,200.00	12,588.08	14,382.01	12,718.08	43.14	47.22	-98.22	1,835.61	-1,005.72	908.96	822.63	86.33	10.529	
14,300.00	12,588.07	14,482.01	12,718.07	44.26	48.12	-98.22	1,935.60	-1,006.60	908.98	820.42	88.56	10.264	
14,400.00	12,588.07	14,582.01	12,718.07	45.42	49.07	-98.22	2,035.60	-1,007.47	908.99	818.14	90.84	10.006	
14,500.00	12,588.07	14,682.01	12,718.07	46.60	50.08	-98.22	2,135.60	-1,008.35	909.00	815.81	93.19	9.754	
14,600.00	12,588.07	14,782.01	12,718.07	47.82	51.13	-98.22	2,235.59	-1,009.23	909.01	813.42	95.60	9.509	
14,700.00	12,588.06	14,882.01	12,718.06	49.06	52.22	-98.22	2,335.59	-1,010.11	909.03	810.97	98.05	9.271	
14,800.00	12,588.06	14,982.01	12,718.06	50.33	53.36	-98.22	2,435.58	-1,010.98	909.04	808.48	100.56	9.040	
14,900.00	12,588.06	15,082.01	12,718.06	51.62	54.53	-98.22	2,535.58	-1,011.86	909.05	805.95	103.11	8.817	
15,000.00	12,588.06	15,182.01	12,718.06	52.93	55.72	-98.22	2,635.58	-1,012.74	909.06	803.37	105.69	8.601	
15,100.00	12,588.05	15,282.01	12,718.05	54.26	56.95	-98.22	2,735.57	-1,013.62	909.08	800.75	108.32	8.392	
15,200.00	12,588.05	15,382.01	12,718.05	55.60	58.21	-98.22	2,835.57	-1,014.49	909.09	798.10	110.99	8.191	
15,300.00	12,588.05	15,482.01	12,718.05	56.96	59.48	-98.22	2,935.57	-1,015.37	909.10	795.42	113.68	7.997	
15,400.00	12,588.05	15,582.01	12,718.05	58.34	60.78	-98.22	3,035.56	-1,016.25	909.11	792.71	116.41	7.810	
15,500.00	12,588.04	15,682.01	12,718.05	59.74	62.10	-98.22	3,135.56	-1,017.13	909.13	789.96	119.16	7.629	
15,600.00	12,588.04	15,782.01	12,718.04	61.14	63.44	-98.22	3,235.55	-1,018.00	909.14	787.19	121.94	7.455	
15,700.00	12,588.04	15,882.01	12,718.04	62.56	64.79	-98.22	3,335.55	-1,018.88	909.15	784.40	124.75	7.288	
15,800.00	12,588.04	15,982.01	12,718.04	63.99	66.16	-98.22	3,435.55	-1,019.76	909.16	781.58	127.58	7.126	
15,900.00	12,588.03	16,082.01	12,718.04	65.43	67.55	-98.22	3,535.54	-1,020.63	909.18	778.74	130.43	6.970	
16,000.00	12,588.03	16,182.01	12,718.03	66.88	68.95	-98.22	3,635.54	-1,021.51	909.19	775.88	133.30	6.820	
16,100.00	12,588.03	16,282.01	12,718.03	68.34	70.36	-98.22	3,735.53	-1,022.39	909.20	773.00	136.20	6.676	
16,200.00	12,588.03	16,382.01	12,718.03	69.81	71.78	-98.22	3,835.53	-1,023.27	909.21	770.11	139.10	6.536	
16,300.00	12,588.02	16,482.01	12,718.03	71.29	73.21	-98.22	3,935.53	-1,024.14	909.22	767.19	142.03	6.402	
16,400.00	12,588.02	16,582.01	12,718.02	72.78	74.66	-98.22	4,035.52	-1,025.02	909.24	764.27	144.97	6.272	
16,500.00	12,588.02	16,682.01	12,718.02	74.27	76.11	-98.22	4,135.52	-1,025.90	909.25	761.32	147.93	6.147	
16,600.00	12,588.02	16,782.01	12,718.02	75.77	77.57	-98.22	4,235.52	-1,026.78	909.26	758.36	150.90	6.026	
16,700.00	12,588.02	16,882.01	12,718.02	77.27	79.04	-98.22	4,335.51	-1,027.65	909.27	755.39	153.88	5.909	
16,800.00	12,588.01	16,982.01	12,718.01	78.79	80.52	-98.22	4,435.51	-1,028.53	909.29	752.41	156.88	5.796	
16,900.00	12,588.01	17,082.01	12,718.01	80.31	82.00	-98.22	4,535.50	-1,029.41	909.30	749.42	159.88	5.687	
17,000.00	12,588.01	17,182.01	12,718.01	81.83	83.50	-98.22	4,635.50	-1,030.28	909.31	746.41	162.90	5.582	
17,100.00	12,588.01	17,282.01	12,718.01	83.36	85.00	-98.22	4,735.50	-1,031.16	909.32	743.39	165.93	5.480	
17,200.00	12,588.00	17,382.01	12,718.00	84.89	86.50	-98.22	4,835.49	-1,032.04	909.34	740.37	168.97	5.382	
17,306.62	12,588.00	17,488.63	12,718.00	86.53	88.11	-98.22	4,942.11	-1,032.97	909.35	737.13	172.22	5.280 SF	

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

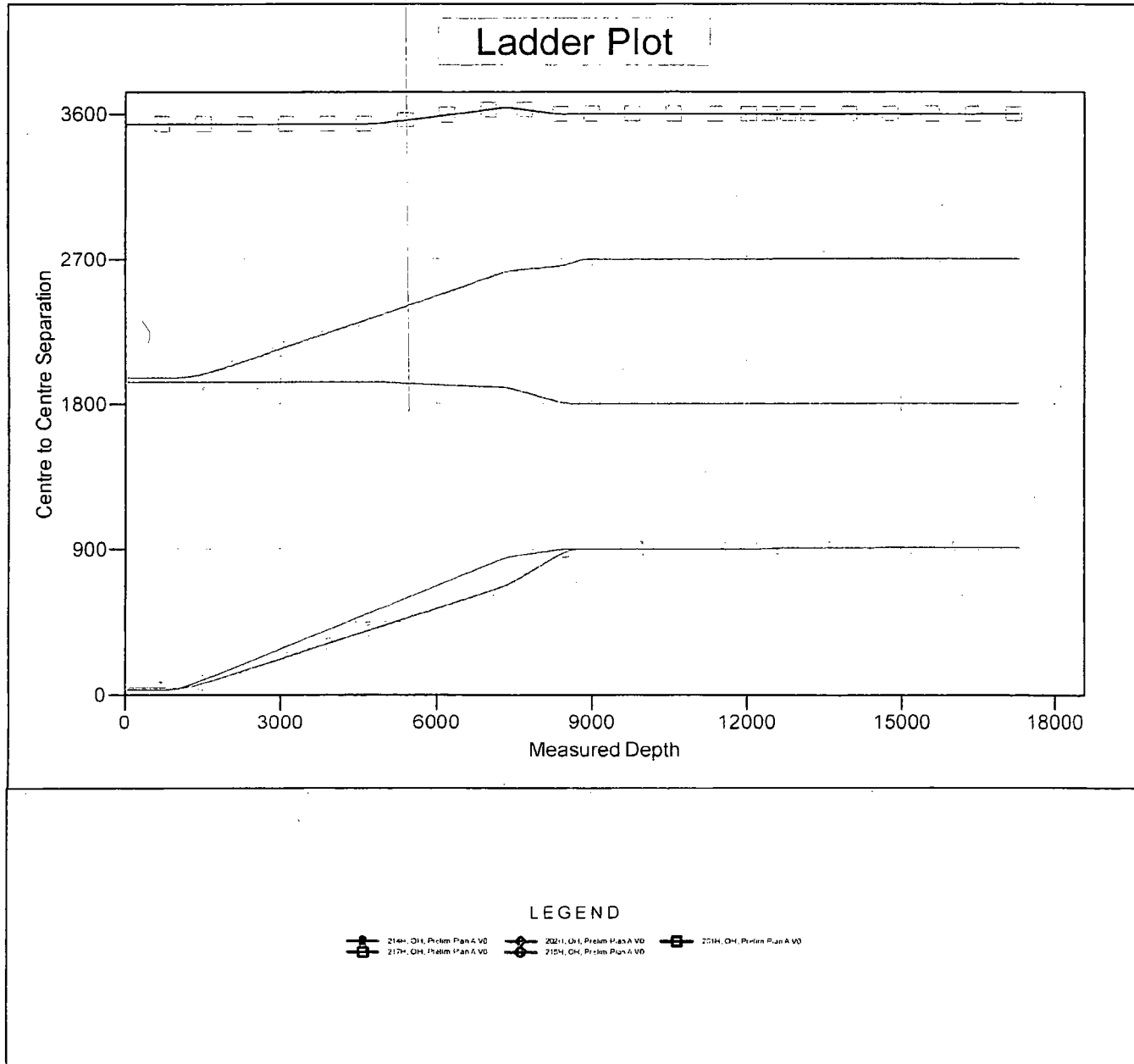
Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 @ 3361.00usft (GL:3332' + KB:29')
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 203H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°



Pro Directional Anticollision Report

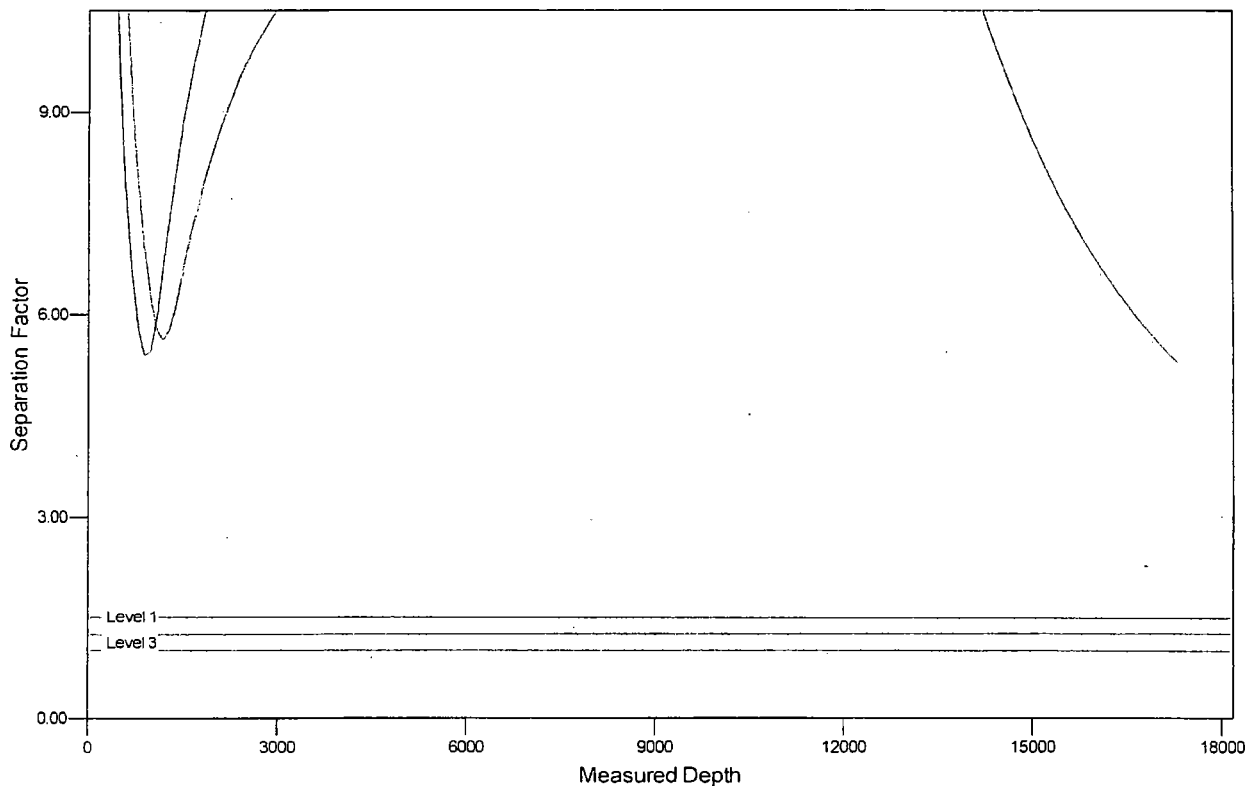
Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed Com
Site Error: 0.00 usft
Reference Well: 203H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 203H
TVD Reference: Rig @ 3361.00usft (GL:3332' + KB:29')
MD Reference: Rig @ 3361.00usft (GL:3332' + 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 @ 3361.00usft (GL:3332' + KB:29)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 203H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

2141, OH, Prelim Plan A VO 202H, OH, Prelim Plan A VO 2011, OH, Prelim Plan A VO
217H, OH, Prelim Plan A VO 215H, OH, Prelim Plan A VO

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

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DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary	000	000	water
Dewey Lake red beds	441	441	water
Rustler anhydrite	930	930	brine
Top salt	1447	1447	barren
Castile anhydrite	3737	3737	barren
Base salt	5448	5448	barren
Bell Canyon Sandstone	5488	5488	hydrocarbons
Cherry Canyon Sandstone	6491	6491	hydrocarbons
Brushy Canyon Sandstone	7962	7964	hydrocarbons
Bone Spring Limestone	9306	9310	hydrocarbons
1 st Bone Spring Sand	10398	10402	hydrocarbons
1 st Bone Spring Carbonate	10445	10449	hydrocarbons
2 nd Bone Spring Carbonate	10636	10640	hydrocarbons
2 nd Bone Spring Sand	11040	11044	hydrocarbons
3 rd Bone Spring Carbonate	11467	11471	hydrocarbons
(KOP	12046	12051	hydrocarbons)
3 rd Bone Spring Sand	12120	12125	hydrocarbons
Wolfcamp A Limestone	12488	12586	hydrocarbons
Wolfcamp A Fat Carbonate	12580	12875	hydrocarbons & goal
TD	12588	17307	hydrocarbons

2. NOTABLE ZONES

Wolfcamp A Fat 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 (C 02296) is 3686' north. Depth to water is 230' in this 300' deep well.

3. PRESSURE CONTROL

A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. Also present will be an

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DRILL PLAN PAGE 2

accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

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

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

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

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

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

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

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

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DRILL PLAN PAGE 3

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"	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0' - 5600'	0' - 5600'	9.625"	40	J-55	BTC	1.125	1.125	1.8
8.75"	0' - 12809'	0' - 12569'	7"	29	P-110	BTC	1.125	1.125	1.8
6.125"	0' - 17307'	0' - 12588'	4.5"	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	550	2.36	1298	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	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' - 12809'	9.0	30-31	NC
OBM	12809' - 17307'	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.

8. OTHER INFORMATION

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

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SURFACE PLAN PAGE 1

Surface Use Plan

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

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 $2/3$ mile on a caliche road
Then turn left and go Northeast 579.65' cross-country to the SW pad corner

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)

The 579.65' of new resource road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 2'. No culvert, cattle guard, or vehicle turn out is needed. Upgrading will consist of patching potholes with caliche.

3. EXISTING WELLS (See MAP 3)

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

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SURFACE PLAN PAGE 2

4. PROPOSED PRODUCTION FACILITIES

Tank battery and related production equipment will be on the south and east sides of the pad. Gas line and power line plans have not been formulated.

5. WATER SUPPLY (See MAP 2)

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

6. CONSTRUCTION MATERIALS & METHODS (See MAP 2)

NM One Call (811) will be notified before construction starts. Top ≈ 6 " of soil and brush will be stockpiled west of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land (Destiny pit in NENE 4-25s-35e and 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 & 7)

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

10. RECLAMATION (See MAPS 8 & 9)

Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the pad $\approx 33\%$ (1.22 acre) by removing caliche and reclaiming swaths on the west and north sides of the pad. This will leave 2.43 acres for the production equipment (e. g., tank battery, heater-treaters, flare), 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 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:

579.65' x 30' new road = 0.40 acre
+ 370' x 430' pad = 3.65 acres
4.05 acres short term
- 1.22 acre interim pad reclamation
2.83 acres long term

11. SURFACE OWNER

All construction will be on BLM.

Matador Production Company

SURFACE PLAN PAGE 4

Biggers Fed Com 203H

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BHL 240' FSL & 1350' FEL

Sec. 18, T. 20 S., R. 35 E., Lea County, NM

12. OTHER INFORMATION

On site inspection was held with Vance Wolf on October 27, 2016 and with Vance Wolf, Kelly Reid, and Stan Allison (all BLM) on November 30, 2016.

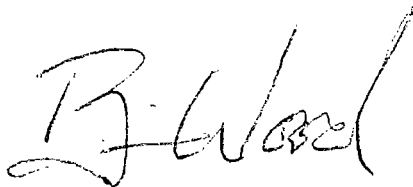
Lone Mountain filed archaeology report NMCRIS-138616 on July 28, 2017.

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SURFACE PLAN PAGE 5

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 10th day of September, 2017.



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

Field representative will be:

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



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

PWD Data Report

03/26/2018

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

106