

HOBBS OCD

FEB 15 2018

RECEIVED

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMMN-136226
WELL NAME & NO.:	Biggers Federal 202H
SURFACE HOLE FOOTAGE:	0390' FSL & 2112' FWL
BOTTOM HOLE FOOTAGE:	0240' FNL & 2130' FWL
LOCATION:	Section 18, T. 25 S., R 35 E., NMPM
COUNTY:	County, New Mexico

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

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

☐ **Lea County**

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

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 **1010** 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 (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.

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, testing to 2,000 psi**).
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 1st intermediate casing shoe shall be psi (**Operator will have a 10M, 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.

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

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

C. DRILLING MUD

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

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

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**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM136226
WELL NAME & NO.:	Biggers Federal - 202H
SURFACE HOLE FOOTAGE:	390'/S & 2112'/W
BOTTOM HOLE FOOTAGE:	240'/N & 2130'/W
LOCATION:	Section 18, T. 25S., 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

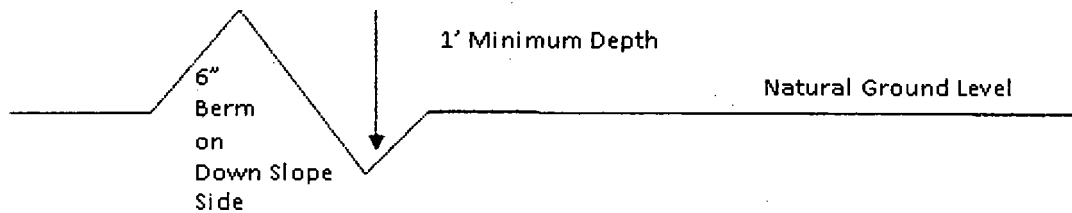
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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:

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

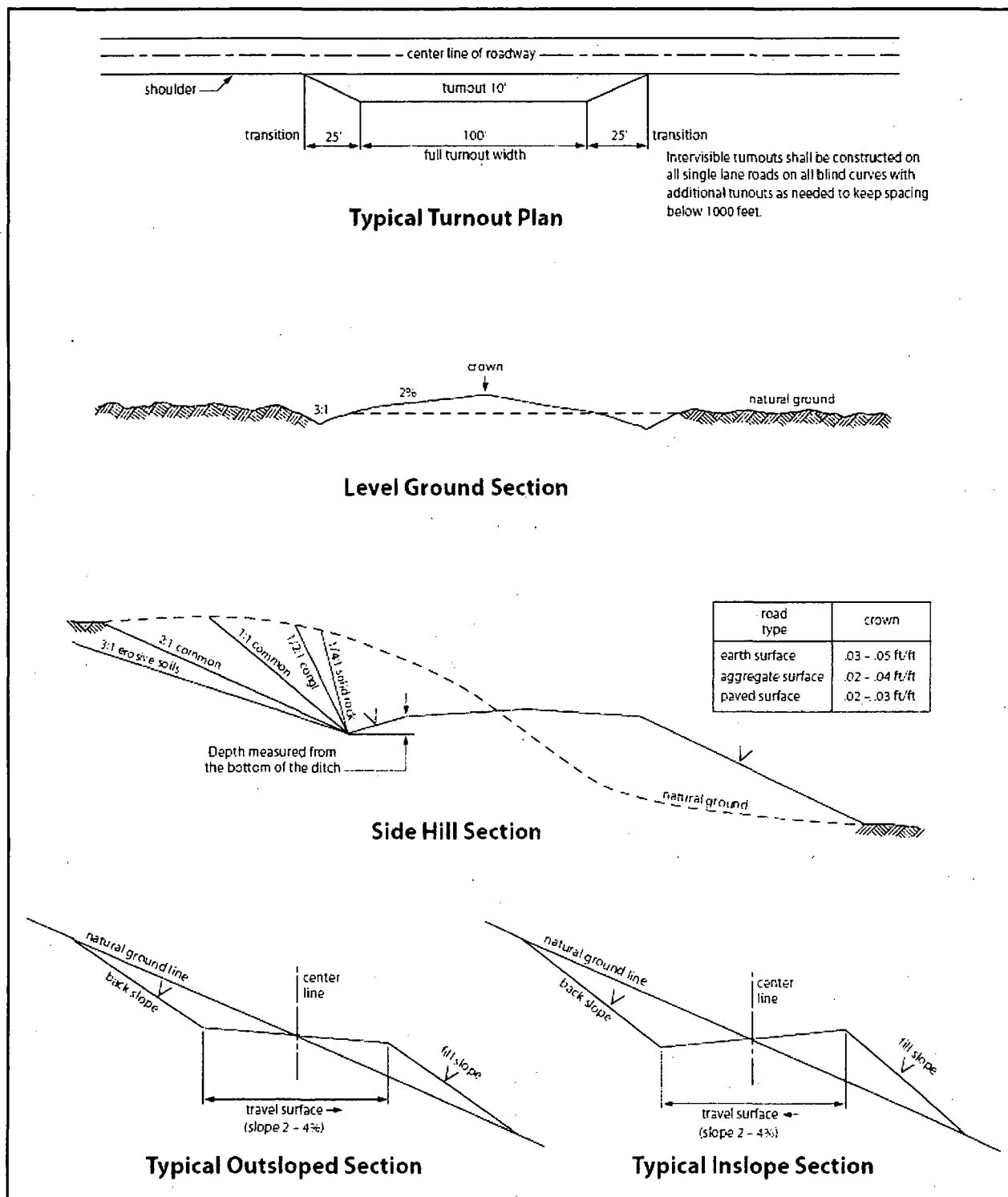


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

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

*Pounds of pure live seed:

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



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

Operator Certification Data Report

02/05/2018

Operator 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.

NAME: Brian Wood

Signed on: 07/25/2017

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

State: NM

Zip: 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See attachments

6 Communication:

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



7 Drilling Stem Testing:

- No DSTs or cores are planned at this time.

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

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

11 Emergency Contacts

- See following page

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

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

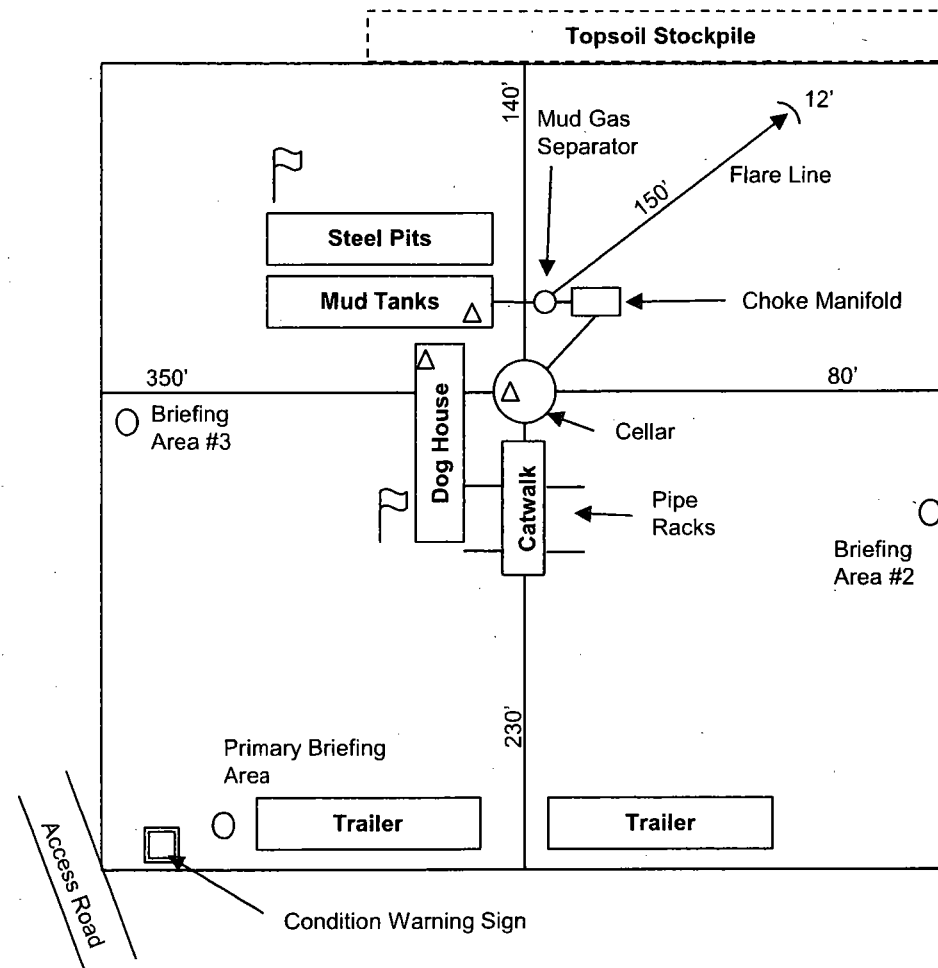
H2S Rig Diagram

Biggers Fed #202H
SHL 390' FSL & 2112' FWL
18-25S-35E Lea County, NM

 Wind Direction Indicator

 H2S Monitors

 Briefing Areas



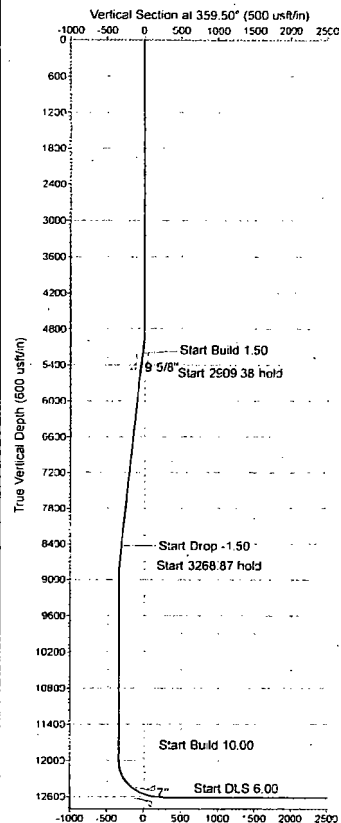
North

Prevailing
Winds Out
of the South



Matador Resources
Lea County, NM
Biggers Fed
202H
Prelim Plan A
GL: 3344 + KB:29

US State Plane 1927 (Exact section)
NAD 1983 (NAD2011 CONUS)
Curve 1986
New Mexico East 3001
Mean Sea Level



RKB Elevation		Rig @ 3373.00' (GL: 3344 + KB 29)				
+N/-S	+E/-W	North	East	Latitude	Longitude	Slot
0.00	0.00	410107.00	786514.00	32° 7' 25.824 N	103° 24' 28.251 W	

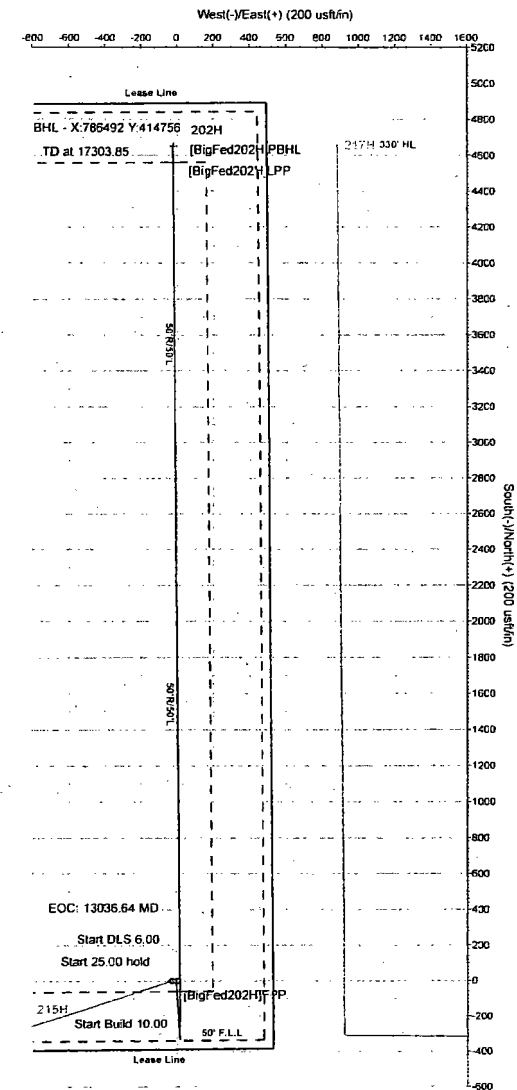
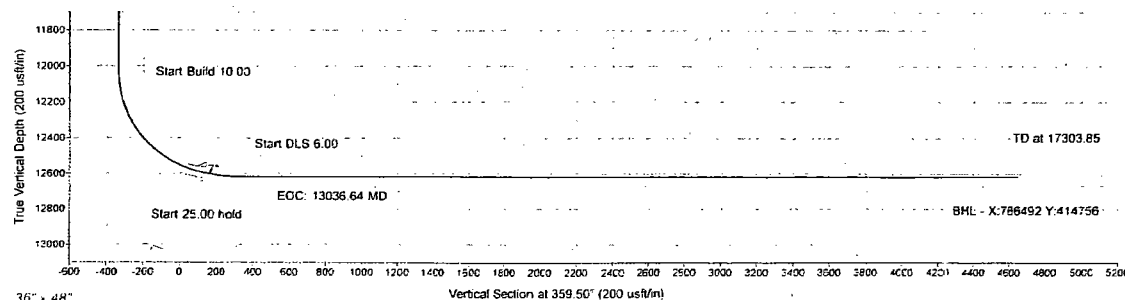
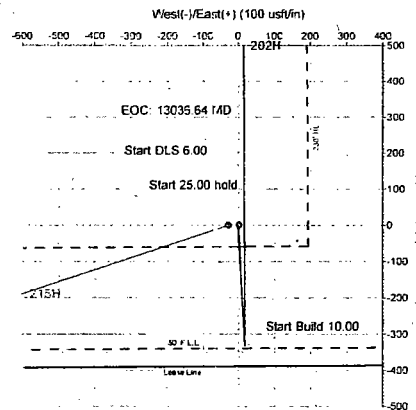
SECTION DETAILS- Lateral

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Deg	V-Sect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00
3	5133.33	5.00	176.72	5132.91	-14.51	0.63	1.50	-14.52
4	8515.26	5.00	176.72	8501.62	-317.45	18.17	0.00	-317.54
5	8948.63	0.00	0.00	8934.53	-332.00	19.00	1.50	-332.15
6	12047.10	0.00	0.00	12033.00	-332.00	19.00	0.00	-332.15
7	12847.10	80.00	359.75	12597.25	141.45	18.93	10.00	141.31
8	12872.10	92.00	359.75	12601.59	169.00	18.93	0.00	155.93
9	13038.84	90.00	359.50	12616.11	331.87	15.74	9.00	331.82
10	17356.03	90.00	359.50	12616.00	4643.00	-22.00	0.00	1649.01



Assume to Grid North
True North - 0.48°
Magnetic North - 6.31°
Magnetic Field
Strength: 48043.00
Old Angle: 58.87°
Date: 3/2/2017
Model: HCGM

Azimuth Corrections
Total Magnetic Cor (M to G): 6.31°
Declination (M to T): 6.50° East



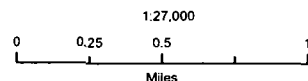
36° ± 48°

Matador Production Company

Biggers Fed #202H
H₂S Contingency Plan:
2 Mile Radius Map

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

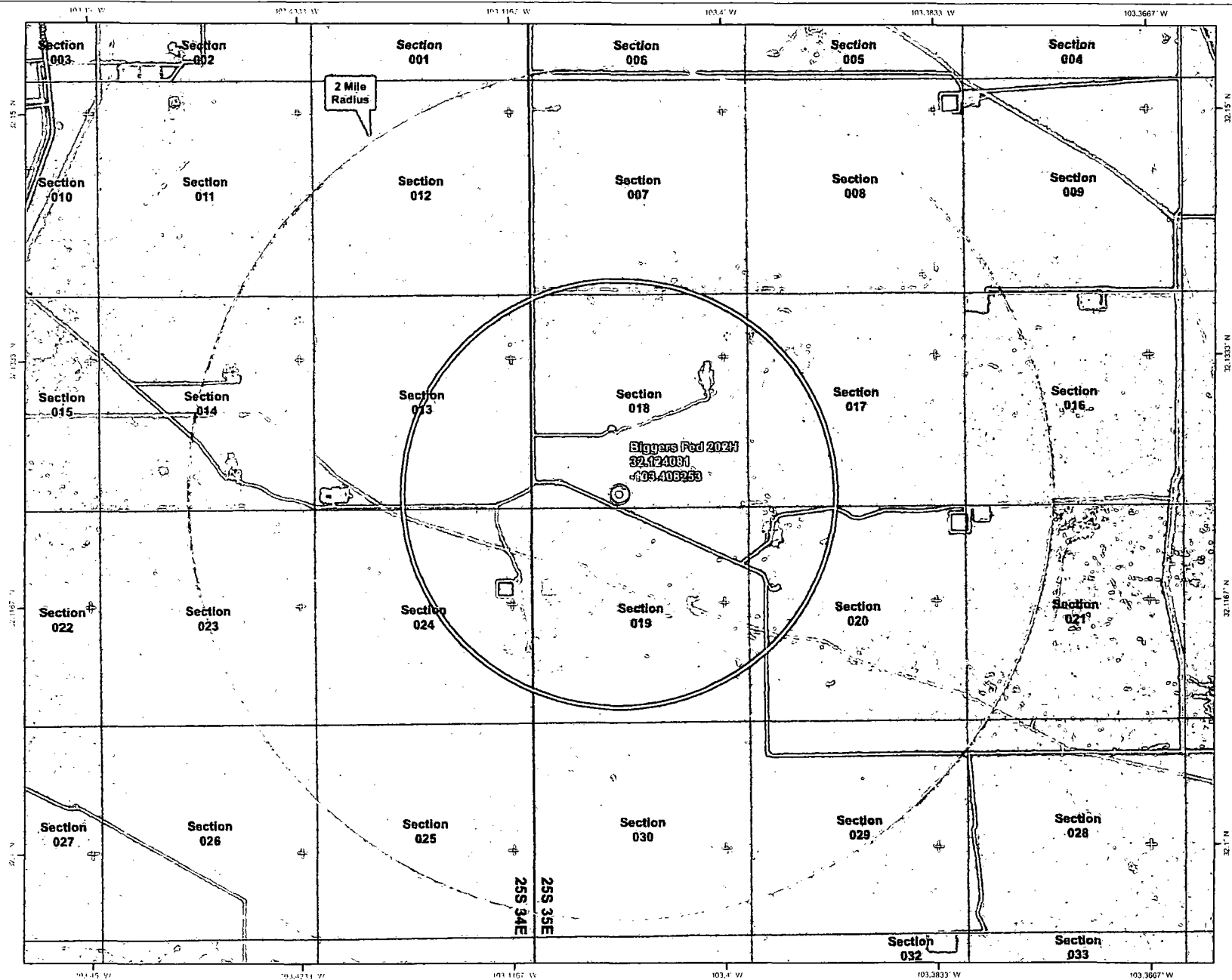
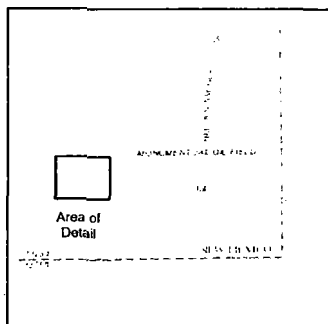
⊙ Surface Hole Location



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

FEB 15 2018

RECEIVED

Company: Matador Resources
 Project: Lea County, NM
 Site: Biggers Fed
 Well: 202H
 Wellbore: OH
 Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
 TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
 MD Reference: Rig @ 3373.00usft (GL: 3344 + 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		
Site Position:		Northing:	410,107.00 usft
From:	Map	Easting:	786,514.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 26.824 N
		Longitude:	103° 24' 28.251 W
		Grid Convergence:	0.49 °

Well	202H		
Well Position	+N/-S	0.00 usft	Northing: 410,107.00 usft
	+E/-W	0.00 usft	Easting: 786,514.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 26.824 N
		Longitude:	103° 24' 28.251 W
		Ground Level:	3,344.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	3/2/2017	6.80
			Dip Angle (°)
			59.87
			Field Strength (nT)
			48,043.00

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)
	0.00	0.00	0.00
			Direction (°)
			359.50

Survey Tool Program Date 3/10/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,356.03	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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00

Pro Directional

Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed
Well: 202H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 202H
Rig @ 3373.00usft (GL: 3344 + KB:29)
Rig @ 3373.00usft (GL: 3344 + KB:29)
Grid
Minimum Curvature
WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	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	1.50	176.72	4,899.99	-1.31	0.07	-1.31	1.50	1.50	0.00
5,000.00	3.00	176.72	4,999.91	-5.23	0.30	-5.23	1.50	1.50	0.00
5,100.00	4.50	176.72	5,099.69	-11.76	0.67	-11.76	1.50	1.50	0.00
5,133.33	5.00	176.72	5,132.91	-14.51	0.83	-14.52	1.50	1.50	0.00
5,200.00	5.00	176.72	5,199.32	-20.31	1.16	-20.32	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed
Well: 202H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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)
5,300.00	5.00	176.72	5,298.94	-29.01	1.66	-29.03	0.00	0.00	0.00
5,400.00	5.00	176.72	5,398.56	-37.72	2.16	-37.73	0.00	0.00	0.00
5,500.00	5.00	176.72	5,498.18	-46.42	2.66	-46.44	0.00	0.00	0.00
5,600.00	5.00	176.72	5,597.80	-55.12	3.15	-55.14	0.00	0.00	0.00
5,700.00	5.00	176.72	5,697.42	-63.82	3.65	-63.85	0.00	0.00	0.00
5,800.00	5.00	176.72	5,797.04	-72.52	4.15	-72.55	0.00	0.00	0.00
5,900.00	5.00	176.72	5,896.66	-81.22	4.65	-81.26	0.00	0.00	0.00
6,000.00	5.00	176.72	5,996.28	-89.92	5.15	-89.96	0.00	0.00	0.00
6,100.00	5.00	176.72	6,095.90	-98.62	5.64	-98.67	0.00	0.00	0.00
6,200.00	5.00	176.72	6,195.52	-107.33	6.14	-107.38	0.00	0.00	0.00
6,300.00	5.00	176.72	6,295.14	-116.03	6.64	-116.08	0.00	0.00	0.00
6,400.00	5.00	176.72	6,394.76	-124.73	7.14	-124.79	0.00	0.00	0.00
6,500.00	5.00	176.72	6,494.38	-133.43	7.64	-133.49	0.00	0.00	0.00
6,600.00	5.00	176.72	6,594.00	-142.13	8.13	-142.20	0.00	0.00	0.00
6,700.00	5.00	176.72	6,693.62	-150.83	8.63	-150.90	0.00	0.00	0.00
6,800.00	5.00	176.72	6,793.24	-159.53	9.13	-159.61	0.00	0.00	0.00
6,900.00	5.00	176.72	6,892.85	-168.24	9.63	-168.31	0.00	0.00	0.00
7,000.00	5.00	176.72	6,992.47	-176.94	10.13	-177.02	0.00	0.00	0.00
7,100.00	5.00	176.72	7,092.09	-185.64	10.62	-185.72	0.00	0.00	0.00
7,200.00	5.00	176.72	7,191.71	-194.34	11.12	-194.43	0.00	0.00	0.00
7,300.00	5.00	176.72	7,291.33	-203.04	11.62	-203.13	0.00	0.00	0.00
7,400.00	5.00	176.72	7,390.95	-211.74	12.12	-211.84	0.00	0.00	0.00
7,500.00	5.00	176.72	7,490.57	-220.44	12.62	-220.54	0.00	0.00	0.00
7,600.00	5.00	176.72	7,590.19	-229.14	13.11	-229.25	0.00	0.00	0.00
7,700.00	5.00	176.72	7,689.81	-237.85	13.61	-237.96	0.00	0.00	0.00
7,800.00	5.00	176.72	7,789.43	-246.55	14.11	-246.66	0.00	0.00	0.00
7,900.00	5.00	176.72	7,889.05	-255.25	14.61	-255.37	0.00	0.00	0.00
8,000.00	5.00	176.72	7,988.67	-263.95	15.11	-264.07	0.00	0.00	0.00
8,100.00	5.00	176.72	8,088.29	-272.65	15.60	-272.78	0.00	0.00	0.00
8,200.00	5.00	176.72	8,187.91	-281.35	16.10	-281.48	0.00	0.00	0.00
8,300.00	5.00	176.72	8,287.53	-290.05	16.60	-290.19	0.00	0.00	0.00
8,400.00	5.00	176.72	8,387.15	-298.76	17.10	-298.89	0.00	0.00	0.00
8,500.00	5.00	176.72	8,486.77	-307.46	17.60	-307.60	0.00	0.00	0.00
8,600.00	5.00	176.72	8,586.39	-316.16	18.09	-316.30	0.00	0.00	0.00
8,615.29	5.00	176.72	8,601.62	-317.49	18.17	-317.64	0.00	0.00	0.00
8,700.00	3.73	176.72	8,686.08	-323.92	18.54	-324.07	1.50	-1.50	0.00
8,800.00	2.23	176.72	8,785.94	-329.11	18.83	-329.27	1.50	-1.50	0.00
8,900.00	0.73	176.72	8,885.91	-331.69	18.98	-331.84	1.50	-1.50	0.00
8,948.63	0.00	0.00	8,934.53	-332.00	19.00	-332.15	1.50	-1.50	0.00
9,000.00	0.00	0.00	8,985.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,100.00	0.00	0.00	9,085.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,200.00	0.00	0.00	9,185.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,300.00	0.00	0.00	9,285.90	-332.00	19.00	-332.15	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed
Well: 202H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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)
9,400.00	0.00	0.00	9,385.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,500.00	0.00	0.00	9,485.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,600.00	0.00	0.00	9,585.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,700.00	0.00	0.00	9,685.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,800.00	0.00	0.00	9,785.90	-332.00	19.00	-332.15	0.00	0.00	0.00
9,900.00	0.00	0.00	9,885.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,000.00	0.00	0.00	9,985.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,100.00	0.00	0.00	10,085.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,200.00	0.00	0.00	10,185.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,300.00	0.00	0.00	10,285.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,400.00	0.00	0.00	10,385.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,500.00	0.00	0.00	10,485.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,600.00	0.00	0.00	10,585.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,700.00	0.00	0.00	10,685.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,800.00	0.00	0.00	10,785.90	-332.00	19.00	-332.15	0.00	0.00	0.00
10,900.00	0.00	0.00	10,885.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,000.00	0.00	0.00	10,985.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,100.00	0.00	0.00	11,085.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,200.00	0.00	0.00	11,185.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,300.00	0.00	0.00	11,285.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,400.00	0.00	0.00	11,385.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,500.00	0.00	0.00	11,485.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,600.00	0.00	0.00	11,585.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,700.00	0.00	0.00	11,685.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,800.00	0.00	0.00	11,785.90	-332.00	19.00	-332.15	0.00	0.00	0.00
11,900.00	0.00	0.00	11,885.90	-332.00	19.00	-332.15	0.00	0.00	0.00
12,000.00	0.00	0.00	11,985.90	-332.00	19.00	-332.15	0.00	0.00	0.00
12,048.10	0.00	0.00	12,034.00	-332.00	19.00	-332.15	0.00	0.00	0.00
12,050.00	0.19	359.75	12,035.90	-332.00	19.00	-332.15	10.00	10.00	0.00
12,100.00	5.19	359.75	12,085.83	-329.65	18.99	-329.80	10.00	10.00	0.00
12,150.00	10.19	359.75	12,135.37	-322.96	18.96	-323.11	10.00	10.00	0.00
12,200.00	15.19	359.75	12,184.13	-311.98	18.91	-312.13	10.00	10.00	0.00
12,250.00	20.19	359.75	12,231.75	-296.79	18.85	-296.95	10.00	10.00	0.00
12,300.00	25.19	359.75	12,277.87	-277.51	18.76	-277.66	10.00	10.00	0.00
12,350.00	30.19	359.75	12,322.13	-254.28	18.66	-254.44	10.00	10.00	0.00
12,400.00	35.19	359.75	12,364.19	-227.29	18.54	-227.44	10.00	10.00	0.00
12,450.00	40.19	359.75	12,403.75	-196.73	18.41	-196.88	10.00	10.00	0.00
12,500.00	45.19	359.75	12,440.49	-162.84	18.26	-162.99	10.00	10.00	0.00
12,550.00	50.19	359.75	12,474.13	-125.87	18.10	-126.03	10.00	10.00	0.00
12,600.00	55.19	359.75	12,504.43	-86.12	17.93	-86.27	10.00	10.00	0.00
12,650.00	60.19	359.75	12,531.15	-43.87	17.74	-44.03	10.00	10.00	0.00
12,700.00	65.19	359.75	12,554.08	0.54	17.55	0.39	10.00	10.00	0.00
12,750.00	70.19	359.75	12,573.05	46.78	17.35	46.63	10.00	10.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed
Well: 202H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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)
12,800.00	75.19	359.75	12,587.92	94.50	17.14	94.35	10.00	10.00	0.00
12,848.10	80.00	359.75	12,598.25	141.46	16.93	141.31	10.00	10.00	0.00
12,873.10	80.00	359.75	12,602.59	166.08	16.83	165.93	0.00	0.00	0.00
12,900.00	81.61	359.71	12,606.89	192.64	16.70	192.48	6.00	6.00	-0.15
12,950.00	84.61	359.63	12,612.89	242.27	16.42	242.12	6.00	6.00	-0.15
13,000.00	87.61	359.56	12,616.28	292.15	16.06	292.00	6.00	6.00	-0.15
13,039.84	90.00	359.50	12,617.11	331.97	15.74	331.82	6.00	6.00	-0.15
13,100.00	90.00	359.50	12,617.11	392.13	15.21	391.99	0.00	0.00	0.00
13,200.00	90.00	359.50	12,617.10	492.13	14.34	491.99	0.00	0.00	0.00
13,300.00	90.00	359.50	12,617.10	592.13	13.46	591.99	0.00	0.00	0.00
13,400.00	90.00	359.50	12,617.10	692.12	12.59	691.99	0.00	0.00	0.00
13,500.00	90.00	359.50	12,617.10	792.12	11.71	791.99	0.00	0.00	0.00
13,600.00	90.00	359.50	12,617.09	892.11	10.84	891.99	0.00	0.00	0.00
13,700.00	90.00	359.50	12,617.09	992.11	9.97	991.99	0.00	0.00	0.00
13,800.00	90.00	359.50	12,617.09	1,092.11	9.09	1,091.99	0.00	0.00	0.00
13,900.00	90.00	359.50	12,617.09	1,192.10	8.22	1,191.99	0.00	0.00	0.00
14,000.00	90.00	359.50	12,617.08	1,292.10	7.34	1,291.99	0.00	0.00	0.00
14,100.00	90.00	359.50	12,617.08	1,392.10	6.47	1,391.99	0.00	0.00	0.00
14,200.00	90.00	359.50	12,617.08	1,492.09	5.60	1,491.99	0.00	0.00	0.00
14,300.00	90.00	359.50	12,617.08	1,592.09	4.72	1,591.99	0.00	0.00	0.00
14,400.00	90.00	359.50	12,617.07	1,692.08	3.85	1,691.99	0.00	0.00	0.00
14,500.00	90.00	359.50	12,617.07	1,792.08	2.97	1,791.99	0.00	0.00	0.00
14,600.00	90.00	359.50	12,617.07	1,892.08	2.10	1,891.99	0.00	0.00	0.00
14,700.00	90.00	359.50	12,617.07	1,992.07	1.23	1,991.99	0.00	0.00	0.00
14,800.00	90.00	359.50	12,617.06	2,092.07	0.35	2,091.99	0.00	0.00	0.00
14,900.00	90.00	359.50	12,617.06	2,192.06	-0.52	2,191.99	0.00	0.00	0.00
15,000.00	90.00	359.50	12,617.06	2,292.06	-1.40	2,291.99	0.00	0.00	0.00
15,100.00	90.00	359.50	12,617.06	2,392.06	-2.27	2,391.99	0.00	0.00	0.00
15,200.00	90.00	359.50	12,617.05	2,492.05	-3.15	2,491.99	0.00	0.00	0.00
15,300.00	90.00	359.50	12,617.05	2,592.05	-4.02	2,591.99	0.00	0.00	0.00
15,400.00	90.00	359.50	12,617.05	2,692.05	-4.89	2,691.99	0.00	0.00	0.00
15,500.00	90.00	359.50	12,617.05	2,792.04	-5.77	2,791.99	0.00	0.00	0.00
15,600.00	90.00	359.50	12,617.04	2,892.04	-6.64	2,891.99	0.00	0.00	0.00
15,700.00	90.00	359.50	12,617.04	2,992.03	-7.52	2,991.99	0.00	0.00	0.00
15,800.00	90.00	359.50	12,617.04	3,092.03	-8.39	3,091.99	0.00	0.00	0.00
15,900.00	90.00	359.50	12,617.04	3,192.03	-9.26	3,191.99	0.00	0.00	0.00
16,000.00	90.00	359.50	12,617.03	3,292.02	-10.14	3,291.99	0.00	0.00	0.00
16,100.00	90.00	359.50	12,617.03	3,392.02	-11.01	3,391.99	0.00	0.00	0.00
16,200.00	90.00	359.50	12,617.03	3,492.01	-11.89	3,491.99	0.00	0.00	0.00
16,300.00	90.00	359.50	12,617.03	3,592.01	-12.76	3,591.99	0.00	0.00	0.00
16,400.00	90.00	359.50	12,617.02	3,692.01	-13.63	3,691.99	0.00	0.00	0.00
16,500.00	90.00	359.50	12,617.02	3,792.00	-14.51	3,791.99	0.00	0.00	0.00
16,600.00	90.00	359.50	12,617.02	3,892.00	-15.38	3,891.99	0.00	0.00	0.00
16,700.00	90.00	359.50	12,617.02	3,992.00	-16.26	3,991.99	0.00	0.00	0.00

Pro Directional Survey Report

Company: Matador Resources
Project: Lea County, NM
Site: Biggers Fed
Well: 202H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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)
16,800.00	90.00	359.50	12,617.01	4,091.99	-17.13	4,091.99	0.00	0.00	0.00
16,900.00	90.00	359.50	12,617.01	4,191.99	-18.01	4,191.99	0.00	0.00	0.00
17,000.00	90.00	359.50	12,617.01	4,291.98	-18.88	4,291.99	0.00	0.00	0.00
17,100.00	90.00	359.50	12,617.01	4,391.98	-19.75	4,391.99	0.00	0.00	0.00
17,200.00	90.00	359.50	12,617.00	4,491.98	-20.63	4,491.99	0.00	0.00	0.00
17,300.00	90.00	359.50	12,617.00	4,591.97	-21.50	4,591.99	0.00	0.00	0.00
17,357.03	90.00	359.50	12,617.00	4,649.00	-22.00	4,649.02	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									
[BigFed202H]FPP	0.00	0.00	0.00	-59.00	19.00	410,048.00	786,533.00	32° 7' 26.239 N	103° 24' 28.036 W
- plan misses target center by 61.98usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[BigFed202H]LPP	0.00	0.00	0.00	4,559.00	-21.00	414,666.00	786,493.00	32° 8' 11.938 N	103° 24' 28.040 W
- plan misses target center by 4559.05usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[BigFed202H]PBHL	0.00	0.00	12,617.00	4,649.00	-22.00	414,756.00	786,492.00	32° 8' 12.829 N	103° 24' 28.042 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4800	4800	0	0	Start Build 1.50
5133	5133	-15	1	Start 3481.96 hold
8615	8602	-317	18	Start Drop -1.50
8949	8935	-332	19	Start 3099.47 hold
12,048	12,034	-332	19	Start Build 10.00
12,848	12,598	141	17	Start 25.00 hold
12,873	12,603	166	17	Start DLS 6.00
13,040	12,617	332	16	EOC: 13039.84 MD
17,356	12,617	4648	-22	BHL - X:786492 Y:414756
17,357	12,617	4649	-22	TD at 17357.03

Checked By: _____ Approved By: _____ Date: _____

**Pro Directional
Anticollision Report**

HOBBS OCD

FEB 15 2018

RECEIVED

Company:	Matador Resources	Local Co-ordinate Reference:	Well 202H
Project:	Lea County, NM	TVD Reference:	Rig @ 3373.00usft (GL: 3344 + KB:29)
Reference Site:	Biggers Fed	MD Reference:	Rig @ 3373.00usft (GL: 3344 + KB:29)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	202H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	3/10/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,356.03	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	4,600.00	4,609.00	1,619.54	1,587.00	49.757	CC, ES
201H - OH - Prelim Plan A	17,357.03	17,242.43	1,802.80	1,630.11	10.440	SF
215H - OH - Prelim Plan A	1,000.00	1,000.00	30.00	23.29	4.473	CC, ES
215H - OH - Prelim Plan A	1,100.00	1,099.25	31.21	23.81	4.214	SF
Biggers Fed Com						
217H - OH - Prelim Plan A	12,196.28	12,232.15	900.09	826.39	12.213	CC
217H - OH - Prelim Plan A	17,357.03	17,493.43	907.08	731.00	5.151	ES, 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	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
0.00	0.00	9.00	9.00	0.00	0.01	-91.49		-42.00	-1,619.00	1,619.54			
100.00	100.00	109.00	109.00	0.13	0.16	-91.49		-42.00	-1,619.00	1,619.54	1,619.26	0.29	5,647.390
200.00	200.00	209.00	209.00	0.49	0.52	-91.49		-42.00	-1,619.00	1,619.54	1,618.54	1.00	1,613.541
300.00	300.00	309.00	309.00	0.84	0.88	-91.49		-42.00	-1,619.00	1,619.54	1,617.82	1.72	941.233
400.00	400.00	409.00	409.00	1.20	1.23	-91.49		-42.00	-1,619.00	1,619.54	1,617.11	2.44	664.399
500.00	500.00	509.00	509.00	1.56	1.59	-91.49		-42.00	-1,619.00	1,619.54	1,616.39	3.15	513.400
600.00	600.00	609.00	609.00	1.92	1.95	-91.49		-42.00	-1,619.00	1,619.54	1,615.67	3.87	418.326
700.00	700.00	709.00	709.00	2.28	2.31	-91.49		-42.00	-1,619.00	1,619.54	1,614.96	4.59	352.962
800.00	800.00	809.00	809.00	2.64	2.67	-91.49		-42.00	-1,619.00	1,619.54	1,614.24	5.31	305.265
900.00	900.00	909.00	909.00	3.00	3.03	-91.49		-42.00	-1,619.00	1,619.54	1,613.52	6.02	268.924
1,000.00	1,000.00	1,009.00	1,009.00	3.35	3.39	-91.49		-42.00	-1,619.00	1,619.54	1,612.81	6.74	240.315
1,100.00	1,100.00	1,109.00	1,109.00	3.71	3.74	-91.49		-42.00	-1,619.00	1,619.54	1,612.09	7.46	217.208
1,200.00	1,200.00	1,209.00	1,209.00	4.07	4.10	-91.49		-42.00	-1,619.00	1,619.54	1,611.37	8.17	198.154
1,300.00	1,300.00	1,309.00	1,309.00	4.43	4.46	-91.49		-42.00	-1,619.00	1,619.54	1,610.65	8.89	182.174
1,400.00	1,400.00	1,409.00	1,409.00	4.79	4.82	-91.49		-42.00	-1,619.00	1,619.54	1,609.94	9.61	168.579
1,500.00	1,500.00	1,509.00	1,509.00	5.15	5.18	-91.49		-42.00	-1,619.00	1,619.54	1,609.22	10.32	156.872
1,600.00	1,600.00	1,609.00	1,609.00	5.50	5.54	-91.49		-42.00	-1,619.00	1,619.54	1,608.50	11.04	146.686
1,700.00	1,700.00	1,709.00	1,709.00	5.86	5.90	-91.49		-42.00	-1,619.00	1,619.54	1,607.79	11.76	137.741
1,800.00	1,800.00	1,809.00	1,809.00	6.22	6.25	-91.49		-42.00	-1,619.00	1,619.54	1,607.07	12.47	129.825
1,900.00	1,900.00	1,909.00	1,909.00	6.58	6.61	-91.49		-42.00	-1,619.00	1,619.54	1,606.35	13.19	122.769

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
2,000.00	2,000.00	2,009.00	2,009.00	6.94	6.97	-91.49	-42.00	-1,619.00	1,619.54	1,605.64	13.91	116.441			
2,100.00	2,100.00	2,109.00	2,109.00	7.30	7.33	-91.49	-42.00	-1,619.00	1,619.54	1,604.92	14.63	110.733			
2,200.00	2,200.00	2,209.00	2,209.00	7.66	7.69	-91.49	-42.00	-1,619.00	1,619.54	1,604.20	15.34	105.559			
2,300.00	2,300.00	2,309.00	2,309.00	8.01	8.05	-91.49	-42.00	-1,619.00	1,619.54	1,603.48	16.06	100.846			
2,400.00	2,400.00	2,409.00	2,409.00	8.37	8.40	-91.49	-42.00	-1,619.00	1,619.54	1,602.77	16.78	96.537			
2,500.00	2,500.00	2,509.00	2,509.00	8.73	8.76	-91.49	-42.00	-1,619.00	1,619.54	1,602.05	17.49	92.580			
2,600.00	2,600.00	2,609.00	2,609.00	9.09	9.12	-91.49	-42.00	-1,619.00	1,619.54	1,601.33	18.21	88.935			
2,700.00	2,700.00	2,709.00	2,709.00	9.45	9.48	-91.49	-42.00	-1,619.00	1,619.54	1,600.62	18.93	85.567			
2,800.00	2,800.00	2,809.00	2,809.00	9.81	9.84	-91.49	-42.00	-1,619.00	1,619.54	1,599.90	19.64	82.444			
2,900.00	2,900.00	2,909.00	2,909.00	10.16	10.20	-91.49	-42.00	-1,619.00	1,619.54	1,599.18	20.36	79.541			
3,000.00	3,000.00	3,009.00	3,009.00	10.52	10.56	-91.49	-42.00	-1,619.00	1,619.54	1,598.47	21.08	76.835			
3,100.00	3,100.00	3,109.00	3,109.00	10.88	10.91	-91.49	-42.00	-1,619.00	1,619.54	1,597.75	21.80	74.308			
3,200.00	3,200.00	3,209.00	3,209.00	11.24	11.27	-91.49	-42.00	-1,619.00	1,619.54	1,597.03	22.51	71.941			
3,300.00	3,300.00	3,309.00	3,309.00	11.60	11.63	-91.49	-42.00	-1,619.00	1,619.54	1,596.32	23.23	69.721			
3,400.00	3,400.00	3,409.00	3,409.00	11.96	11.99	-91.49	-42.00	-1,619.00	1,619.54	1,595.60	23.95	67.633			
3,500.00	3,500.00	3,509.00	3,509.00	12.32	12.35	-91.49	-42.00	-1,619.00	1,619.54	1,594.88	24.66	65.667			
3,600.00	3,600.00	3,609.00	3,609.00	12.67	12.71	-91.49	-42.00	-1,619.00	1,619.54	1,594.16	25.38	63.812			
3,700.00	3,700.00	3,709.00	3,709.00	13.03	13.06	-91.49	-42.00	-1,619.00	1,619.54	1,593.45	26.10	62.050			
3,800.00	3,800.00	3,809.00	3,809.00	13.39	13.42	-91.49	-42.00	-1,619.00	1,619.54	1,592.73	26.81	60.400			
3,900.00	3,900.00	3,909.00	3,909.00	13.75	13.78	-91.49	-42.00	-1,619.00	1,619.54	1,592.01	27.53	58.827			
4,000.00	4,000.00	4,009.00	4,009.00	14.11	14.14	-91.49	-42.00	-1,619.00	1,619.54	1,591.30	28.25	57.334			
4,100.00	4,100.00	4,109.00	4,109.00	14.47	14.50	-91.49	-42.00	-1,619.00	1,619.54	1,590.58	28.96	55.915			
4,200.00	4,200.00	4,209.00	4,209.00	14.82	14.86	-91.49	-42.00	-1,619.00	1,619.54	1,589.86	29.68	54.564			
4,300.00	4,300.00	4,309.00	4,309.00	15.18	15.22	-91.49	-42.00	-1,619.00	1,619.54	1,589.15	30.40	53.277			
4,400.00	4,400.00	4,409.00	4,409.00	15.54	15.57	-91.49	-42.00	-1,619.00	1,619.54	1,588.43	31.12	52.050			
4,500.00	4,500.00	4,509.00	4,509.00	15.90	15.93	-91.49	-42.00	-1,619.00	1,619.54	1,587.71	31.83	50.877			
4,600.00	4,600.00	4,609.00	4,609.00	16.26	16.29	-91.49	-42.00	-1,619.00	1,619.54	1,587.00	32.55	49.757 CC, ES			
4,700.00	4,700.00	4,699.30	4,699.29	16.62	16.56	-91.52	-42.91	-1,619.52	1,620.21	1,587.03	33.18	48.834			
4,800.00	4,800.00	4,771.14	4,771.09	16.98	16.83	-91.60	-45.33	-1,620.91	1,621.98	1,588.19	33.80	47.991			
4,900.00	4,899.99	4,852.88	4,852.69	17.32	17.10	-91.53	-49.26	-1,623.16	1,624.92	1,590.53	34.39	47.245			
5,000.00	4,999.91	4,934.79	4,934.36	17.64	17.37	-91.39	-54.72	-1,626.29	1,629.05	1,594.08	34.97	46.587			
5,100.00	5,099.69	5,034.67	5,033.86	17.96	17.69	-91.29	-62.27	-1,630.62	1,633.79	1,598.18	35.62	45.871			
5,133.33	5,132.91	5,067.96	5,067.03	18.07	17.80	-91.28	-64.79	-1,632.07	1,635.39	1,599.55	35.83	45.637			
5,200.00	5,199.32	5,134.55	5,133.36	18.29	18.02	-91.31	-69.82	-1,634.95	1,638.58	1,602.31	36.27	45.178			
5,300.00	5,298.94	5,234.42	5,232.86	18.61	18.36	-91.35	-77.37	-1,639.28	1,643.37	1,606.45	36.93	44.504			
5,400.00	5,398.56	5,334.30	5,332.35	18.94	18.69	-91.40	-84.92	-1,643.62	1,646.17	1,610.58	37.59	43.848			
5,500.00	5,498.18	5,434.18	5,431.85	19.27	18.97	-91.44	-92.48	-1,647.95	1,652.96	1,614.77	38.20	43.277			
5,600.00	5,597.80	5,534.05	5,531.34	19.60	19.09	-91.49	-100.03	-1,652.28	1,657.76	1,619.11	38.65	42.897			
5,700.00	5,697.42	5,633.93	5,630.84	19.94	19.10	-91.53	-107.58	-1,656.61	1,662.55	1,623.56	39.99	42.636			
5,800.00	5,797.04	5,733.81	5,730.34	20.27	19.13	-91.58	-115.13	-1,660.94	1,667.35	1,628.00	39.35	42.370			
5,900.00	5,896.66	5,833.68	5,829.83	20.61	19.16	-91.62	-122.68	-1,665.27	1,672.15	1,632.43	39.72	42.098			
6,000.00	5,996.28	5,933.56	5,929.33	20.95	19.20	-91.66	-130.23	-1,669.60	1,676.95	1,636.85	40.10	41.823			
6,100.00	6,095.90	6,033.44	6,028.83	21.29	19.24	-91.71	-137.78	-1,673.93	1,681.75	1,641.27	40.48	41.543			
6,200.00	6,195.52	6,133.31	6,128.32	21.64	19.30	-91.75	-145.34	-1,678.26	1,686.55	1,645.67	40.88	41.259			
6,300.00	6,295.14	6,233.19	6,227.82	21.98	19.36	-91.79	-152.89	-1,682.59	1,691.35	1,650.07	41.26	40.972			
6,400.00	6,394.76	6,333.07	6,327.32	22.33	19.43	-91.83	-160.44	-1,686.92	1,696.16	1,654.46	41.69	40.682			
6,500.00	6,494.38	6,432.94	6,426.81	22.67	19.51	-91.88	-167.99	-1,691.25	1,700.96	1,658.85	42.11	40.389			
6,600.00	6,594.00	6,532.82	6,526.31	23.02	19.59	-91.92	-175.54	-1,695.58	1,705.77	1,663.22	42.54	40.095			
6,700.00	6,693.62	6,632.70	6,625.81	23.37	19.68	-91.96	-183.09	-1,699.91	1,710.57	1,667.59	42.98	39.799			
6,800.00	6,793.24	6,732.57	6,725.30	23.72	19.78	-92.00	-190.64	-1,704.24	1,715.38	1,671.95	43.43	39.501			
6,900.00	6,892.85	6,832.45	6,824.80	24.07	19.89	-92.04	-198.19	-1,708.57	1,720.19	1,676.31	43.88	39.202			
7,000.00	6,992.47	6,932.33	6,924.30	24.43	20.00	-92.09	-205.75	-1,712.90	1,724.99	1,680.65	44.34	38.903			

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
7,100.00	7,092.09	7,032.20	7,023.79	24.78	20.12	92.13	-213.30	-1,717.23	1,729.80	1,684.99	44.81	38.603					
7,200.00	7,191.71	7,132.08	7,123.29	25.14	20.25	92.17	-220.85	-1,721.56	1,734.61	1,689.33	45.29	38.303					
7,300.00	7,291.33	7,231.96	7,222.79	25.49	20.38	92.21	-228.40	-1,725.89	1,739.43	1,693.66	45.77	38.003					
7,400.00	7,390.95	7,331.83	7,322.28	25.85	20.52	92.25	-235.95	-1,730.22	1,744.24	1,697.98	46.26	37.704					
7,500.00	7,490.57	7,431.71	7,421.78	26.21	20.66	92.29	-243.50	-1,734.55	1,749.05	1,702.29	46.76	37.405					
7,600.00	7,590.19	7,531.59	7,521.28	26.56	20.81	92.33	-251.05	-1,738.88	1,753.86	1,706.60	47.26	37.108					
7,700.00	7,689.81	7,631.46	7,620.77	26.92	20.97	92.37	-258.61	-1,743.21	1,758.68	1,710.90	47.78	36.811					
7,800.00	7,789.43	7,731.34	7,720.27	27.28	21.13	92.41	-266.16	-1,747.54	1,763.49	1,715.20	48.29	36.516					
7,900.00	7,889.05	7,831.22	7,819.77	27.64	21.30	92.45	-273.71	-1,751.87	1,768.31	1,719.49	48.82	36.222					
8,000.00	7,988.67	7,931.09	7,919.26	28.01	21.48	92.48	-281.26	-1,756.20	1,773.13	1,723.78	49.35	35.930					
8,100.00	8,088.29	8,030.97	8,018.76	28.37	21.66	92.52	-288.81	-1,760.53	1,777.95	1,728.06	49.89	35.640					
8,200.00	8,187.91	8,130.85	8,118.26	28.73	21.84	92.56	-296.36	-1,764.86	1,782.76	1,732.34	50.43	35.352					
8,300.00	8,287.53	8,230.72	8,217.75	29.09	22.03	92.60	-303.91	-1,769.19	1,787.58	1,736.61	50.98	35.066					
8,400.00	8,387.15	8,330.60	8,317.25	29.46	22.23	92.64	-311.46	-1,773.52	1,792.40	1,740.87	51.53	34.783					
8,500.00	8,486.77	8,429.76	8,416.07	29.82	22.48	92.74	-319.50	-1,778.13	1,796.46	1,744.29	52.16	34.438					
8,600.00	8,586.39	8,529.51	8,516.73	30.19	22.73	92.97	-323.79	-1,780.59	1,798.80	1,746.01	52.79	34.076					
8,615.29	8,601.62	8,610.48	8,596.69	30.24	22.77	93.01	-324.10	-1,780.77	1,799.01	1,746.13	52.88	34.020					
8,700.00	8,696.06	8,708.87	8,695.08	30.55	22.93	93.25	-324.50	-1,781.00	1,799.54	1,746.18	53.36	33.725					
8,800.00	8,795.94	8,808.74	8,794.94	30.91	23.10	93.42	-324.50	-1,781.00	1,799.84	1,745.96	53.88	33.403					
8,900.00	8,895.91	8,908.70	8,894.91	31.26	23.27	93.50	-324.50	-1,781.00	1,800.00	1,745.59	54.40	33.085					
8,948.63	8,934.53	8,957.33	8,943.53	31.42	23.35	-89.76	-324.50	-1,781.00	1,800.02	1,745.36	54.66	32.932					
9,000.00	8,985.90	9,008.70	8,994.90	31.60	23.44	-89.76	-324.50	-1,781.00	1,800.02	1,745.09	54.93	32.772					
9,100.00	9,085.90	9,108.70	9,094.90	31.95	23.62	-89.76	-324.50	-1,781.00	1,800.02	1,744.57	55.45	32.462					
9,200.00	9,185.90	9,208.70	9,194.90	32.29	23.80	-89.76	-324.50	-1,781.00	1,800.02	1,744.04	55.98	32.156					
9,300.00	9,285.90	9,308.70	9,294.90	32.64	23.99	-89.76	-324.50	-1,781.00	1,800.02	1,743.51	56.51	31.853					
9,400.00	9,385.90	9,408.70	9,394.90	32.98	24.18	-89.76	-324.50	-1,781.00	1,800.02	1,742.97	57.05	31.553					
9,500.00	9,485.90	9,508.70	9,494.90	33.33	24.38	-89.76	-324.50	-1,781.00	1,800.02	1,742.43	57.59	31.257					
9,600.00	9,585.90	9,608.70	9,594.90	33.67	24.58	-89.76	-324.50	-1,781.00	1,800.02	1,741.88	58.13	30.964					
9,700.00	9,685.90	9,708.70	9,694.90	34.02	24.78	-89.76	-324.50	-1,781.00	1,800.02	1,741.33	58.68	30.674					
9,800.00	9,785.90	9,808.70	9,794.90	34.37	24.98	-89.76	-324.50	-1,781.00	1,800.02	1,740.78	59.23	30.388					
9,900.00	9,885.90	9,908.70	9,894.90	34.71	25.19	-89.76	-324.50	-1,781.00	1,800.02	1,740.23	59.79	30.105					
10,000.00	9,985.90	10,008.70	9,994.90	35.06	25.40	-89.76	-324.50	-1,781.00	1,800.02	1,739.67	60.35	29.826					
10,100.00	10,085.90	10,108.70	10,094.90	35.41	25.62	-89.76	-324.50	-1,781.00	1,800.02	1,739.10	60.91	29.550					
10,200.00	10,185.90	10,208.70	10,194.90	35.76	25.84	-89.76	-324.50	-1,781.00	1,800.02	1,738.54	61.48	29.278					
10,300.00	10,285.90	10,308.70	10,294.90	36.10	26.06	-89.76	-324.50	-1,781.00	1,800.02	1,737.97	62.05	29.009					
10,400.00	10,385.90	10,408.70	10,394.90	36.45	26.28	-89.76	-324.50	-1,781.00	1,800.02	1,737.39	62.62	28.744					
10,500.00	10,485.90	10,508.70	10,494.90	36.80	26.51	-89.76	-324.50	-1,781.00	1,800.02	1,736.82	63.20	28.481					
10,600.00	10,585.90	10,608.70	10,594.90	37.15	26.74	-89.76	-324.50	-1,781.00	1,800.02	1,736.24	63.78	28.223					
10,700.00	10,685.90	10,708.70	10,694.90	37.50	26.98	-89.76	-324.50	-1,781.00	1,800.02	1,735.65	64.38	27.967					
10,800.00	10,785.90	10,808.70	10,794.90	37.84	27.21	-89.76	-324.50	-1,781.00	1,800.02	1,735.07	64.95	27.715					
10,900.00	10,885.90	10,908.70	10,894.90	38.19	27.45	-89.76	-324.50	-1,781.00	1,800.02	1,734.48	65.53	27.466					
11,000.00	10,985.90	11,008.70	10,994.90	38.54	27.69	-89.76	-324.50	-1,781.00	1,800.02	1,733.89	66.13	27.221					
11,100.00	11,085.90	11,108.70	11,094.90	38.89	27.94	-89.76	-324.50	-1,781.00	1,800.02	1,733.30	66.72	26.979					
11,200.00	11,185.90	11,208.70	11,194.90	39.24	28.18	-89.76	-324.50	-1,781.00	1,800.02	1,732.70	67.32	26.740					
11,300.00	11,285.90	11,308.70	11,294.90	39.59	28.43	-89.76	-324.50	-1,781.00	1,800.02	1,732.10	67.91	26.504					
11,400.00	11,385.90	11,408.70	11,394.90	39.94	28.68	-89.76	-324.50	-1,781.00	1,800.02	1,731.50	68.52	26.272					
11,500.00	11,485.90	11,508.70	11,494.90	40.29	28.93	-89.76	-324.50	-1,781.00	1,800.02	1,730.90	69.12	26.042					
11,600.00	11,585.90	11,608.70	11,594.90	40.64	29.19	-89.76	-324.50	-1,781.00	1,800.02	1,730.29	69.73	25.816					
11,700.00	11,685.90	11,708.70	11,694.90	40.99	29.45	-89.76	-324.50	-1,781.00	1,800.02	1,729.68	70.33	25.593					
11,800.00	11,785.90	11,808.70	11,794.90	41.34	29.71	-89.76	-324.50	-1,781.00	1,800.02	1,729.07	70.94	25.372					
11,900.00	11,885.90	11,908.70	11,894.90	41.69	29.97	-89.76	-324.50	-1,781.00	1,800.02	1,728.46	71.56	25.155					
11,905.10	11,891.01	11,913.80	11,900.01	41.71	29.98	-89.76	-324.50	-1,781.00	1,800.02	1,728.43	71.59	25.144					

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Biggers Fed - 201H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: O-MWD - OWSG. 5420-MWD - OWSG. 12755-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,000.00	11,985.90	12,007.21	11,993.35	42.04	30.22	-89.69	-322.28	-1,781.01	1,800.04	1,727.87	72.18	24.944		
12,048.10	12,034.00	12,053.26	12,039.01	42.21	30.33	-89.50	-316.40	-1,781.04	1,800.11	1,727.66	72.44	24.848		
12,050.00	12,035.90	12,055.07	12,040.79	42.22	30.34	-89.24	-316.09	-1,781.04	1,800.11	1,727.66	72.45	24.845		
12,100.00	12,085.83	12,102.06	12,086.72	42.39	30.44	-88.98	-306.18	-1,781.08	1,800.24	1,727.51	72.73	24.752		
12,150.00	12,135.37	12,148.48	12,131.13	42.55	30.54	-88.73	-292.73	-1,781.14	1,800.40	1,727.41	72.99	24.666		
12,200.00	12,184.13	12,194.36	12,173.82	42.71	30.63	-88.49	-275.95	-1,781.21	1,800.59	1,727.35	73.24	24.586		
12,250.00	12,231.75	12,239.74	12,214.59	42.85	30.71	-88.26	-256.04	-1,781.30	1,800.80	1,727.33	73.46	24.513		
12,300.00	12,277.87	12,284.68	12,253.28	42.99	30.78	-88.04	-233.22	-1,781.40	1,801.02	1,727.34	73.68	24.445		
12,350.00	12,322.13	12,329.20	12,289.73	43.12	30.85	-87.84	-207.68	-1,781.51	1,801.25	1,727.37	73.88	24.382		
12,400.00	12,364.19	12,373.35	12,323.81	43.24	30.91	-87.65	-179.63	-1,781.63	1,801.48	1,727.42	74.06	24.323		
12,450.00	12,403.75	12,417.17	12,355.41	43.35	30.97	-87.48	-149.29	-1,781.76	1,801.71	1,727.47	74.25	24.267		
12,500.00	12,440.49	12,460.70	12,384.41	43.46	31.03	-87.32	-116.84	-1,781.91	1,801.93	1,727.51	74.42	24.212		
12,550.00	12,474.13	12,503.97	12,410.72	43.57	31.09	-87.19	-82.49	-1,782.06	1,802.13	1,727.54	74.59	24.159		
12,600.00	12,504.43	12,547.03	12,434.24	43.67	31.15	-87.07	-46.44	-1,782.21	1,802.32	1,727.55	74.77	24.105		
12,650.00	12,531.15	12,589.91	12,454.92	43.76	31.23	-86.97	-8.88	-1,782.38	1,802.48	1,727.53	74.94	24.051		
12,700.00	12,554.08	12,632.64	12,472.67	43.86	31.31	-86.89	29.98	-1,782.55	1,802.61	1,727.48	75.13	23.994		
12,750.00	12,573.05	12,675.27	12,487.44	43.96	31.40	-86.84	69.95	-1,782.72	1,802.70	1,727.39	75.31	23.936		
12,800.00	12,587.92	12,717.81	12,499.18	44.06	31.50	-86.80	110.83	-1,782.90	1,802.76	1,727.25	75.51	23.874		
12,848.10	12,588.25	12,759.04	12,507.64	44.15	36.96	-86.78	151.17	-1,783.08	1,802.79	1,727.09	75.70	23.814		
12,873.10	12,602.59	12,784.04	12,511.98	44.20	36.97	-86.78	175.78	-1,783.18	1,802.79	1,727.00	75.79	23.788		
12,900.00	12,606.89	12,807.06	12,515.65	44.26	36.99	-86.78	198.51	-1,783.29	1,802.79	1,726.91	75.88	23.758		
12,950.00	12,612.89	12,850.40	12,521.07	44.37	37.01	-86.78	241.51	-1,783.53	1,802.77	1,726.70	76.07	23.698		
13,000.00	12,616.28	12,893.75	12,524.54	44.49	37.03	-86.79	284.72	-1,783.82	1,802.72	1,726.43	76.29	23.629		
13,039.84	12,617.11	12,928.31	12,525.89	44.59	37.05	-86.81	319.25	-1,784.09	1,802.66	1,726.18	76.48	23.569		
13,058.12	12,617.11	12,953.56	12,526.11	44.64	37.06	-86.82	334.45	-1,784.22	1,802.64	1,726.04	76.60	23.532		
13,100.00	12,617.11	12,985.40	12,526.11	44.76	37.08	-86.82	376.33	-1,784.59	1,802.65	1,725.83	76.82	23.467		
13,200.00	12,617.10	13,085.40	12,526.10	45.08	37.14	-86.82	476.33	-1,785.47	1,802.65	1,725.15	77.50	23.260		
13,300.00	12,617.10	13,185.40	12,526.10	45.46	37.20	-86.82	576.32	-1,786.35	1,802.65	1,724.33	78.32	23.017		
13,400.00	12,617.10	13,285.40	12,526.10	45.89	37.26	-86.82	676.32	-1,787.22	1,802.66	1,723.39	79.27	22.740		
13,500.00	12,617.10	13,385.40	12,526.10	46.38	37.33	-86.82	776.32	-1,788.10	1,802.66	1,722.31	80.35	22.435		
13,600.00	12,617.09	13,485.40	12,526.09	46.93	37.41	-86.82	876.31	-1,788.98	1,802.66	1,721.11	81.56	22.104		
13,700.00	12,617.09	13,585.40	12,526.09	47.52	37.51	-86.82	976.31	-1,789.86	1,802.67	1,719.79	82.88	21.752		
13,800.00	12,617.09	13,685.40	12,526.09	48.17	37.65	-86.82	1,076.30	-1,790.73	1,802.67	1,718.37	84.31	21.382		
13,900.00	12,617.09	13,785.40	12,526.09	48.87	37.90	-86.82	1,176.30	-1,791.61	1,802.68	1,716.83	85.84	21.000		
14,000.00	12,617.08	13,885.40	12,526.08	49.61	38.40	-86.82	1,276.30	-1,792.49	1,802.68	1,715.20	87.48	20.607		
14,100.00	12,617.08	13,985.40	12,526.08	50.39	39.16	-86.82	1,376.29	-1,793.37	1,802.68	1,713.47	89.21	20.208		
14,200.00	12,617.08	14,085.40	12,526.08	51.21	40.08	-86.82	1,476.29	-1,794.25	1,802.69	1,711.66	91.03	19.804		
14,300.00	12,617.08	14,185.40	12,526.08	52.08	41.08	-86.82	1,576.29	-1,795.12	1,802.69	1,709.76	92.93	19.399		
14,400.00	12,617.07	14,285.40	12,526.07	52.98	42.13	-86.82	1,676.28	-1,796.00	1,802.69	1,707.79	94.90	18.995		
14,500.00	12,617.07	14,385.40	12,526.07	53.92	43.23	-86.82	1,776.28	-1,796.88	1,802.70	1,705.74	96.96	18.593		
14,600.00	12,617.07	14,485.40	12,526.07	54.90	44.37	-86.82	1,876.27	-1,797.76	1,802.70	1,703.63	99.07	18.185		
14,700.00	12,617.07	14,585.40	12,526.07	55.90	45.54	-86.82	1,976.27	-1,798.63	1,802.70	1,701.45	101.26	17.803		
14,800.00	12,617.06	14,685.40	12,526.06	56.94	46.74	-86.82	2,076.27	-1,799.51	1,802.71	1,699.21	103.50	17.417		
14,900.00	12,617.06	14,785.40	12,526.06	58.00	47.97	-86.82	2,176.26	-1,800.39	1,802.71	1,696.91	105.80	17.039		
15,000.00	12,617.06	14,885.40	12,526.06	59.10	49.23	-86.82	2,276.26	-1,801.27	1,802.72	1,694.57	108.15	16.669		
15,100.00	12,617.06	14,985.40	12,526.06	60.21	50.51	-86.82	2,376.25	-1,802.15	1,802.72	1,692.17	110.55	16.307		
15,200.00	12,617.05	15,085.40	12,526.05	61.36	51.81	-86.82	2,476.25	-1,803.02	1,802.72	1,689.73	112.99	15.954		
15,300.00	12,617.05	15,185.40	12,526.05	62.52	53.13	-86.82	2,576.25	-1,803.90	1,802.73	1,687.24	115.48	15.610		
15,400.00	12,617.05	15,285.40	12,526.05	63.71	54.48	-86.82	2,676.24	-1,804.78	1,802.73	1,684.72	118.01	15.276		
15,500.00	12,617.05	15,385.40	12,526.05	64.92	55.83	-86.82	2,776.24	-1,805.66	1,802.73	1,682.16	120.58	14.951		
15,600.00	12,617.04	15,485.40	12,526.04	66.15	57.21	-86.82	2,876.24	-1,806.53	1,802.74	1,679.56	123.18	14.635		
15,700.00	12,617.04	15,585.40	12,526.04	67.39	58.60	-86.82	2,976.23	-1,807.41	1,802.74	1,676.93	125.81	14.329		

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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	
15,800.00	12,617.04	15,685.40	12,526.04	68.66	60.00	-86.82	3,076.23	-1,808.29	1,802.75	1,674.27	128.48	14.032	
15,900.00	12,617.04	15,785.40	12,526.04	69.94	61.42	-86.82	3,176.22	-1,809.17	1,802.75	1,671.58	131.17	13.743	
16,000.00	12,617.03	15,885.40	12,526.03	71.24	62.85	-86.82	3,276.22	-1,810.05	1,802.75	1,668.86	133.89	13.464	
16,100.00	12,617.03	15,985.40	12,526.03	72.55	64.28	-86.82	3,376.22	-1,810.92	1,802.76	1,666.11	136.64	13.193	
16,200.00	12,617.03	16,085.40	12,526.03	73.87	65.73	-86.82	3,476.21	-1,811.80	1,802.76	1,663.35	139.41	12.931	
16,300.00	12,617.03	16,185.40	12,526.03	75.21	67.19	-86.82	3,576.21	-1,812.68	1,802.76	1,660.55	142.21	12.677	
16,400.00	12,617.02	16,285.40	12,526.02	76.56	68.66	-86.82	3,676.20	-1,813.56	1,802.77	1,657.74	145.03	12.431	
16,500.00	12,617.02	16,385.40	12,526.02	77.92	70.14	-86.82	3,776.20	-1,814.43	1,802.77	1,654.91	147.86	12.192	
16,600.00	12,617.02	16,485.40	12,526.02	79.30	71.62	-86.82	3,876.20	-1,815.31	1,802.77	1,652.06	150.72	11.961	
16,700.00	12,617.02	16,585.40	12,526.02	80.68	73.12	-86.82	3,976.19	-1,816.19	1,802.78	1,649.18	153.59	11.737	
16,800.00	12,617.01	16,685.40	12,526.01	82.08	74.62	-86.82	4,076.19	-1,817.07	1,802.78	1,646.30	156.49	11.520	
16,900.00	12,617.01	16,785.40	12,526.01	83.48	76.12	-86.82	4,176.19	-1,817.95	1,802.79	1,643.39	159.39	11.310	
17,000.00	12,617.01	16,885.40	12,526.01	84.90	77.64	-86.82	4,276.18	-1,818.82	1,802.79	1,640.47	162.32	11.107	
17,100.00	12,617.01	16,985.40	12,526.01	86.32	79.15	-86.82	4,376.18	-1,819.70	1,802.79	1,637.54	165.25	10.909	
17,200.00	12,617.00	17,085.40	12,526.00	87.75	80.68	-86.82	4,476.17	-1,820.58	1,802.80	1,634.59	168.21	10.716	
17,300.00	12,617.00	17,185.40	12,526.00	89.19	82.21	-86.82	4,576.17	-1,821.46	1,802.80	1,631.63	171.17	10.532	
17,357.03	12,617.00	17,242.43	12,526.00	89.91	83.01	-86.82	4,633.20	-1,821.96	1,802.80	1,630.11	172.69	10.440 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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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														Offset Well Error: 0.00 usft	
Reference				Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.00	30.00						
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.75	0.25	117.871			
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-30.00	30.00	29.03	0.97	30.881			
300.00	300.00	300.00	300.00	0.84	0.84	-90.00	0.00	-30.00	30.00	28.31	1.69	17.768			
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-30.00	30.00	27.59	2.41	12.472			
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-30.00	30.00	26.88	3.12	9.608			
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-30.00	30.00	26.16	3.84	7.814			
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-30.00	30.00	25.44	4.56	6.584			
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-30.00	30.00	24.73	5.27	5.689			
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-30.00	30.00	24.01	5.99	5.008			
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.00	0.00	-30.00	30.00	23.29	6.71	4.473 CC, ES			
1,100.00	1,100.00	1,099.25	1,099.24	3.71	3.70	-90.86	-0.47	-31.20	31.21	23.81	7.41	4.214 SF			
1,200.00	1,200.00	1,198.37	1,198.28	4.07	4.03	-93.06	-1.86	-34.80	34.89	26.80	8.10	4.310			
1,300.00	1,300.00	1,297.22	1,296.92	4.43	4.37	-95.85	-4.18	-40.78	41.11	32.32	8.78	4.681			
1,400.00	1,400.00	1,395.67	1,394.96	4.79	4.72	-98.58	-7.40	-49.09	49.90	40.44	9.46	5.273			
1,500.00	1,500.00	1,505.98	1,492.66	5.15	5.12	-100.91	-11.50	-59.65	61.19	51.01	10.19	6.007			
1,600.00	1,600.00	1,606.72	1,591.18	5.50	5.49	-102.61	-15.87	-70.93	73.22	62.33	10.89	6.721			
1,700.00	1,700.00	1,707.47	1,689.69	5.86	5.87	-103.83	-20.25	-82.21	85.29	73.69	11.60	7.350			
1,800.00	1,800.00	1,791.79	1,788.20	6.22	6.19	-104.75	-24.62	-93.49	97.39	85.13	12.26	7.945			
1,900.00	1,900.00	1,908.96	1,886.72	6.58	6.63	-105.47	-28.99	-104.77	109.51	96.48	13.03	8.404			
2,000.00	2,000.00	1,990.30	1,985.23	6.94	6.95	-106.04	-33.37	-116.04	121.64	107.97	13.68	8.894			
2,100.00	2,100.00	2,089.55	2,083.75	7.30	7.33	-106.51	-37.74	-127.32	133.79	119.40	14.39	9.298			
2,200.00	2,200.00	2,188.81	2,182.26	7.66	7.72	-106.90	-42.11	-138.60	145.94	130.84	15.10	9.664			
2,300.00	2,300.00	2,288.06	2,280.78	8.01	8.11	-107.23	-46.49	-149.88	158.09	142.28	15.81	9.997			
2,400.00	2,400.00	2,387.32	2,379.29	8.37	8.50	-107.52	-50.86	-161.15	170.25	153.73	16.53	10.301			
2,500.00	2,500.00	2,486.57	2,477.81	8.73	8.89	-107.76	-55.23	-172.43	182.42	165.17	17.24	10.579			
2,600.00	2,600.00	2,585.83	2,576.32	9.09	9.28	-107.98	-59.61	-183.71	194.58	176.63	17.96	10.836			
2,700.00	2,700.00	2,685.08	2,674.84	9.45	9.68	-108.17	-63.98	-194.99	206.75	188.08	18.67	11.072			
2,800.00	2,800.00	2,784.33	2,773.35	9.81	10.07	-108.33	-68.35	-206.27	218.92	199.53	19.39	11.290			
2,900.00	2,900.00	2,883.59	2,871.87	10.16	10.47	-108.48	-72.73	-217.54	231.10	210.99	20.11	11.493			
3,000.00	3,000.00	2,982.84	2,970.38	10.52	10.87	-108.62	-77.10	-228.82	243.27	222.45	20.82	11.682			
3,100.00	3,100.00	3,082.10	3,068.90	10.88	11.26	-108.74	-81.47	-240.10	255.45	233.90	21.54	11.858			
3,200.00	3,200.00	3,181.35	3,167.41	11.24	11.66	-108.86	-85.85	-251.38	267.62	245.36	22.26	12.023			
3,300.00	3,300.00	3,280.61	3,265.93	11.60	12.06	-108.96	-90.22	-262.66	279.80	256.82	22.98	12.177			
3,400.00	3,400.00	3,379.86	3,364.44	11.96	12.46	-109.05	-94.59	-273.93	291.98	268.28	23.70	12.322			
3,500.00	3,500.00	3,479.12	3,462.96	12.32	12.86	-109.14	-98.97	-285.21	304.16	279.74	24.41	12.458			
3,600.00	3,600.00	3,578.37	3,561.47	12.67	13.26	-109.22	-103.34	-296.49	316.34	291.20	25.13	12.586			
3,700.00	3,700.00	3,677.63	3,659.99	13.03	13.66	-109.29	-107.71	-307.77	328.52	302.66	25.85	12.707			
3,800.00	3,800.00	3,776.88	3,758.50	13.39	14.06	-109.36	-112.09	-319.04	340.70	314.13	26.57	12.822			
3,900.00	3,900.00	3,876.14	3,857.02	13.75	14.46	-109.42	-116.46	-330.32	352.88	325.59	27.29	12.930			
4,000.00	4,000.00	3,975.39	3,955.53	14.11	14.86	-109.48	-120.83	-341.60	365.06	337.05	28.01	13.033			
4,100.00	4,100.00	4,074.64	4,054.04	14.47	15.27	-109.54	-125.21	-352.88	377.24	348.51	28.73	13.130			
4,200.00	4,200.00	4,173.90	4,152.56	14.82	15.67	-109.59	-129.58	-364.16	389.42	359.97	29.45	13.223			
4,300.00	4,300.00	4,273.15	4,251.07	15.18	16.07	-109.64	-133.95	-375.43	401.61	371.44	30.17	13.311			
4,400.00	4,400.00	4,372.41	4,349.59	15.54	16.47	-109.68	-138.33	-386.71	413.79	382.90	30.89	13.395			
4,500.00	4,500.00	4,471.66	4,448.10	15.90	16.88	-109.73	-142.70	-397.99	425.97	394.36	31.61	13.475			
4,600.00	4,600.00	4,570.92	4,546.62	16.26	17.28	-109.77	-147.07	-409.27	438.15	405.82	32.33	13.552			
4,700.00	4,700.00	4,670.17	4,645.13	16.62	17.68	-109.80	-151.45	-420.55	450.34	417.29	33.05	13.625			
4,800.00	4,800.00	4,769.43	4,743.65	16.98	18.09	-109.84	-155.82	-431.82	462.52	428.75	33.77	13.695			
4,900.00	4,899.99	4,868.72	4,842.20	17.32	18.49	73.38	-160.19	-443.10	474.33	439.86	34.47	13.759			
5,000.00	4,999.91	4,968.04	4,940.78	17.64	18.89	73.63	-164.57	-454.39	485.42	450.26	35.16	13.806			
5,100.00	5,099.69	5,067.33	5,039.33	17.96	19.30	74.16	-168.94	-465.67	495.81	459.96	35.85	13.831			

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,133.33	5,132.91	5,100.40	5,072.16	18.07	19.43	74.40	-170.40	-469.43	499.14	463.06	36.08	13.835	
5,200.00	5,199.32	5,166.54	5,137.80	18.29	19.70	74.99	-173.32	-476.94	505.75	469.21	36.54	13.841	
5,300.00	5,298.94	5,265.74	5,236.26	18.61	20.10	75.85	-177.69	-488.22	515.76	478.53	37.23	13.852	
5,400.00	5,398.56	5,364.94	5,334.73	18.94	20.51	76.68	-182.06	-499.49	525.89	487.96	37.93	13.864	
5,500.00	5,498.18	5,464.15	5,433.19	19.27	20.91	77.47	-186.43	-510.76	536.12	497.49	38.63	13.878	
5,600.00	5,597.80	5,563.35	5,531.66	19.60	21.32	78.24	-190.80	-522.03	546.45	507.11	39.33	13.892	
5,700.00	5,697.42	5,662.56	5,630.12	19.94	21.72	78.97	-195.17	-533.30	556.87	516.83	40.04	13.908	
5,800.00	5,797.04	5,761.76	5,728.58	20.27	22.12	79.68	-199.54	-544.58	567.38	526.63	40.75	13.924	
5,900.00	5,896.66	5,860.96	5,827.05	20.61	22.53	80.36	-203.91	-555.85	577.98	536.52	41.46	13.941	
6,000.00	5,996.28	5,960.17	5,925.51	20.95	22.93	81.02	-208.28	-567.12	588.65	546.48	42.17	13.959	
6,100.00	6,095.90	6,059.37	6,023.98	21.29	23.34	81.66	-212.66	-578.39	599.40	556.51	42.88	13.977	
6,200.00	6,195.52	6,158.57	6,122.44	21.64	23.74	82.27	-217.03	-589.67	610.21	566.61	43.60	13.995	
6,300.00	6,295.14	6,257.78	6,220.91	21.98	24.15	82.86	-221.40	-600.94	621.10	576.78	44.32	14.014	
6,400.00	6,394.76	6,356.98	6,319.37	22.33	24.55	83.44	-225.77	-612.21	632.05	587.01	45.04	14.033	
6,500.00	6,494.38	6,456.19	6,417.83	22.67	24.96	83.99	-230.14	-623.48	643.06	597.29	45.76	14.052	
6,600.00	6,594.00	6,555.39	6,516.30	23.02	25.36	84.52	-234.51	-634.75	654.12	607.64	46.49	14.071	
6,700.00	6,693.62	6,654.59	6,614.76	23.37	25.77	85.04	-238.88	-646.03	665.24	618.03	47.21	14.091	
6,800.00	6,793.24	6,753.80	6,713.23	23.72	26.17	85.54	-243.25	-657.30	676.41	628.48	47.94	14.110	
6,900.00	6,892.85	6,853.00	6,811.69	24.07	26.58	86.02	-247.62	-668.57	687.64	638.97	48.67	14.130	
7,000.00	6,992.47	6,952.20	6,910.16	24.43	26.98	86.49	-251.99	-679.84	698.90	649.51	49.40	14.149	
7,100.00	7,092.09	7,051.41	7,008.62	24.78	27.39	86.94	-256.37	-691.11	710.22	660.09	50.13	14.168	
7,200.00	7,191.71	7,150.61	7,107.09	25.14	27.79	87.38	-260.74	-702.39	721.57	670.71	50.86	14.188	
7,300.00	7,291.33	7,249.82	7,205.55	25.49	28.20	87.80	-265.11	-713.66	732.97	681.37	51.59	14.207	
7,400.00	7,390.95	7,349.02	7,304.01	25.85	28.60	88.21	-269.48	-724.93	744.40	692.07	52.33	14.226	
7,500.00	7,490.57	7,448.22	7,402.48	26.21	29.01	88.61	-273.85	-736.20	755.87	702.81	53.06	14.245	
7,600.00	7,590.19	7,547.43	7,500.94	26.56	29.41	89.00	-278.22	-747.47	767.38	713.58	53.80	14.264	
7,700.00	7,689.81	7,646.63	7,599.41	26.92	29.82	89.38	-282.59	-758.75	778.92	724.38	54.54	14.282	
7,800.00	7,789.43	7,745.83	7,697.87	27.28	30.22	89.74	-286.96	-770.02	790.49	735.21	55.28	14.301	
7,900.00	7,889.05	7,845.04	7,796.33	27.64	30.63	90.10	-291.33	-781.29	802.09	746.08	56.01	14.319	
8,000.00	7,988.67	7,944.24	7,894.80	28.01	31.03	90.44	-295.71	-792.56	813.72	756.97	56.76	14.337	
8,100.00	8,088.29	8,043.44	7,993.26	28.37	31.44	90.77	-300.08	-803.83	825.38	767.89	57.50	14.355	
8,200.00	8,187.91	8,142.65	8,091.73	28.73	31.84	91.10	-304.45	-815.11	837.07	778.83	58.24	14.373	
8,300.00	8,287.53	8,241.85	8,190.19	29.09	32.25	91.42	-308.82	-826.38	848.79	789.80	58.98	14.391	
8,400.00	8,387.15	8,341.06	8,288.66	29.46	32.65	91.72	-313.19	-837.65	860.52	800.80	59.73	14.408	
8,500.00	8,486.77	8,440.26	8,387.12	29.82	33.06	92.02	-317.56	-848.92	872.29	811.82	60.47	14.425	
8,600.00	8,586.39	8,553.42	8,499.50	30.19	33.52	92.37	-322.35	-861.28	883.67	822.37	61.31	14.414	
8,615.29	8,601.62	8,572.82	8,518.80	30.24	33.59	92.43	-323.07	-863.13	885.20	823.76	61.45	14.406	
8,700.00	8,686.08	8,680.56	8,626.14	30.55	34.01	92.86	-326.42	-871.77	892.33	830.13	62.20	14.347	
8,800.00	8,785.94	8,808.29	8,753.67	30.91	34.47	93.20	-328.97	-878.35	897.77	834.74	63.02	14.245	
8,900.00	8,885.91	8,936.34	8,881.68	31.26	34.90	93.38	-329.98	-880.95	899.95	836.17	63.78	14.110	
8,948.63	8,934.53	8,989.19	8,934.53	31.42	35.06	-89.87	-330.00	-881.00	900.00	835.89	64.11	14.038	
9,000.00	8,985.90	9,040.57	8,985.90	31.60	35.22	-89.87	-330.00	-881.00	900.00	835.55	64.46	13.963	
9,100.00	9,085.90	9,140.57	9,085.90	31.95	35.53	-89.87	-330.00	-881.00	900.00	834.88	65.13	13.819	
9,200.00	9,185.90	9,240.57	9,185.90	32.29	35.84	-89.87	-330.00	-881.00	900.00	834.21	65.80	13.678	
9,300.00	9,285.90	9,340.57	9,285.90	32.64	36.15	-89.87	-330.00	-881.00	900.00	833.53	66.47	13.540	
9,400.00	9,385.90	9,440.57	9,385.90	32.98	36.46	-89.87	-330.00	-881.00	900.00	832.86	67.14	13.404	
9,500.00	9,485.90	9,540.57	9,485.90	33.33	36.77	-89.87	-330.00	-881.00	900.00	832.19	67.82	13.271	
9,600.00	9,585.90	9,640.57	9,585.90	33.67	37.08	-89.87	-330.00	-881.00	900.00	831.51	68.49	13.141	
9,700.00	9,685.90	9,740.57	9,685.90	34.02	37.39	-89.87	-330.00	-881.00	900.00	830.84	69.17	13.012	
9,800.00	9,785.90	9,840.57	9,785.90	34.37	37.71	-89.87	-330.00	-881.00	900.00	830.16	69.84	12.886	
9,900.00	9,885.90	9,940.57	9,885.90	34.71	38.02	-89.87	-330.00	-881.00	900.00	829.48	70.52	12.762	
10,000.00	9,985.90	10,040.57	9,985.90	35.06	38.34	-89.87	-330.00	-881.00	900.00	828.80	71.20	12.641	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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														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	10,085.90	10,140.57	10,085.90	35.41	38.65	-89.87	-330.00	-881.00	900.00	828.13	12.522				
10,200.00	10,185.90	10,240.57	10,185.90	35.76	38.97	-89.87	-330.00	-881.00	900.00	827.45	12.404				
10,300.00	10,285.90	10,340.57	10,285.90	36.10	39.29	-89.87	-330.00	-881.00	900.00	826.77	12.289				
10,400.00	10,385.90	10,440.57	10,385.90	36.45	39.61	-89.87	-330.00	-881.00	900.00	826.09	12.176				
10,500.00	10,485.90	10,540.57	10,485.90	36.80	39.93	-89.87	-330.00	-881.00	900.00	825.40	12.065				
10,600.00	10,585.90	10,640.57	10,585.90	37.15	40.25	-89.87	-330.00	-881.00	900.00	824.72	11.955				
10,700.00	10,685.90	10,740.57	10,685.90	37.50	40.57	-89.87	-330.00	-881.00	900.00	824.04	11.848				
10,800.00	10,785.90	10,840.57	10,785.90	37.84	40.89	-89.87	-330.00	-881.00	900.00	823.36	11.742				
10,900.00	10,885.90	10,940.57	10,885.90	38.19	41.21	-89.87	-330.00	-881.00	900.00	822.67	11.638				
11,000.00	10,985.90	11,040.57	10,985.90	38.54	41.53	-89.87	-330.00	-881.00	900.00	821.99	11.536				
11,100.00	11,085.90	11,140.57	11,085.90	38.89	41.85	-89.87	-330.00	-881.00	900.00	821.30	11.436				
11,200.00	11,185.90	11,240.57	11,185.90	39.24	42.18	-89.87	-330.00	-881.00	900.00	820.62	11.337				
11,300.00	11,285.90	11,340.57	11,285.90	39.59	42.50	-89.87	-330.00	-881.00	900.00	819.93	11.240				
11,400.00	11,385.90	11,440.57	11,385.90	39.94	42.83	-89.87	-330.00	-881.00	900.00	819.24	11.144				
11,500.00	11,485.90	11,540.57	11,485.90	40.29	43.15	-89.87	-330.00	-881.00	900.00	818.56	11.050				
11,600.00	11,585.90	11,640.57	11,585.90	40.64	43.48	-89.87	-330.00	-881.00	900.00	817.87	10.958				
11,700.00	11,685.90	11,740.57	11,685.90	40.99	43.80	-89.87	-330.00	-881.00	900.00	817.18	10.867				
11,800.00	11,785.90	11,840.57	11,785.90	41.34	44.13	-89.87	-330.00	-881.00	900.00	816.49	10.777				
11,900.00	11,885.90	11,940.57	11,885.90	41.69	44.46	-89.87	-330.00	-881.00	900.00	815.80	10.689				
12,000.00	11,985.90	12,040.57	11,985.90	42.04	44.78	-89.87	-330.00	-881.00	900.00	815.11	10.602				
12,048.10	12,034.00	12,088.66	12,034.00	42.21	44.94	-89.87	-330.00	-881.00	900.00	814.78	10.561				
12,050.00	12,035.90	12,109.43	12,035.90	42.22	45.01	-89.62	-330.00	-881.00	900.00	814.70	10.551				
12,100.00	12,085.83	12,140.50	12,085.83	42.39	45.11	-89.77	-330.00	-881.00	899.99	814.42	10.518				
12,130.60	12,116.22	12,170.88	12,116.22	42.49	45.21	-90.00	-330.00	-881.00	899.98	814.22	10.493				
12,150.00	12,135.37	12,190.03	12,135.37	42.55	45.27	-90.19	-330.00	-881.00	899.99	814.10	10.478				
12,200.00	12,184.13	12,239.29	12,184.62	42.71	45.43	-90.85	-329.59	-881.00	900.09	813.89	10.443				
12,250.00	12,231.75	12,289.63	12,234.78	42.85	45.59	-91.55	-325.49	-881.02	900.33	813.85	10.411				
12,300.00	12,277.87	12,341.04	12,285.42	42.99	45.75	-92.24	-316.77	-881.07	900.72	813.97	10.384				
12,350.00	12,322.13	12,393.56	12,336.14	43.12	45.89	-92.92	-303.21	-881.14	901.24	814.25	10.360				
12,400.00	12,364.19	12,447.24	12,386.48	43.24	46.03	-93.59	-284.62	-881.24	901.88	814.66	10.340				
12,450.00	12,403.75	12,502.12	12,435.92	43.35	46.15	-94.24	-260.83	-881.36	902.63	815.20	10.325				
12,500.00	12,440.49	12,558.24	12,483.87	43.46	46.25	-94.86	-231.73	-881.51	903.45	815.84	10.312				
12,550.00	12,474.13	12,615.58	12,529.69	43.57	46.34	-95.45	-197.29	-881.69	904.33	816.56	10.304				
12,600.00	12,504.43	12,674.15	12,572.70	43.67	46.41	-96.00	-157.58	-881.90	905.24	817.33	10.297				
12,650.00	12,531.15	12,733.90	12,612.17	43.76	46.47	-96.50	-112.75	-882.14	906.14	818.11	10.293				
12,700.00	12,554.08	12,794.77	12,647.36	43.86	46.51	-96.95	-63.12	-882.40	907.00	818.85	10.289				
12,750.00	12,573.05	12,856.66	12,677.53	43.96	46.53	-97.34	-9.12	-882.68	907.79	819.53	10.285				
12,800.00	12,587.92	12,919.45	12,702.01	44.06	46.53	-97.66	48.67	-882.98	908.48	820.09	10.278				
12,848.10	12,598.25	12,980.54	12,719.63	44.15	46.54	-97.89	107.13	-883.29	909.02	820.50	10.269				
12,873.10	12,602.59	13,012.52	12,726.34	44.20	46.54	-97.97	138.40	-883.45	909.17	820.57	10.262				
12,900.00	12,606.89	13,040.55	12,731.23	44.26	46.54	-97.98	166.00	-883.60	909.23	820.54	10.251				
12,950.00	12,612.89	13,096.72	12,739.47	44.37	46.56	-98.05	221.55	-883.92	909.43	820.53	10.231				
13,000.00	12,616.28	13,153.25	12,744.46	44.49	46.60	-98.11	277.85	-884.31	909.56	820.46	10.208				
13,039.84	12,617.11	13,198.34	12,746.04	44.59	46.64	-98.15	322.91	-884.67	909.63	820.34	10.187				
13,100.00	12,617.11	13,259.79	12,746.10	44.76	46.73	-98.15	384.36	-885.20	909.63	820.04	10.152				
13,200.00	12,617.10	13,359.79	12,746.10	45.08	46.96	-98.15	484.35	-886.06	909.62	819.43	10.085				
13,300.00	12,617.10	13,459.79	12,746.10	45.46	47.27	-98.15	584.35	-886.93	909.62	818.71	10.006				
13,400.00	12,617.10	13,559.79	12,746.10	45.89	47.66	-98.15	684.34	-887.79	909.61	817.87	9.916				
13,500.00	12,617.10	13,659.79	12,746.09	46.38	48.12	-98.15	784.34	-888.65	909.60	816.93	9.816				
13,600.00	12,617.09	13,759.79	12,746.09	46.93	48.63	-98.15	884.34	-889.52	909.59	815.88	9.707				
13,700.00	12,617.09	13,859.79	12,746.09	47.52	49.20	-98.15	984.33	-890.38	909.58	814.73	9.590				
13,800.00	12,617.09	13,959.79	12,746.09	48.17	49.81	-98.15	1,084.33	-891.25	909.57	813.48	9.466				

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 202H
Project:	Lea County, NM	TVD Reference:	Rig @ 3373.00usft (GL: 3344 + KB:29)
Reference Site:	Biggers Fed	MD Reference:	Rig @ 3373.00usft (GL: 3344 + KB:29)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	202H	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 - 215H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: O-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)				Between Centres (usft)	Between Ellipses (usft)	
13,900.00	12,617.09	14,059.79	12,746.08	48.87	50.48	-98.15	1,184.33	-892.11	909.56	812.13	97.43	9.336		
14,000.00	12,617.08	14,159.79	12,746.08	49.61	51.19	-98.15	1,284.32	-892.97	909.55	810.89	98.86	9.201		
14,100.00	12,617.08	14,259.79	12,746.08	50.39	51.94	-98.15	1,384.32	-893.84	909.54	809.16	100.37	9.062		
14,200.00	12,617.08	14,359.79	12,746.08	51.21	52.73	-98.15	1,484.31	-894.70	909.53	807.55	101.97	8.919		
14,300.00	12,617.08	14,459.79	12,746.07	52.08	53.56	-98.15	1,584.31	-895.57	909.52	805.86	103.65	8.774		
14,400.00	12,617.07	14,559.79	12,746.07	52.98	54.43	-98.15	1,684.31	-896.43	909.51	804.10	105.41	8.628		
14,500.00	12,617.07	14,659.79	12,746.07	53.92	55.34	-98.15	1,784.30	-897.30	909.50	802.26	107.24	8.481		
14,600.00	12,617.07	14,759.79	12,746.07	54.90	56.28	-98.15	1,884.30	-898.16	909.49	800.35	109.14	8.333		
14,700.00	12,617.07	14,859.79	12,746.06	55.90	57.25	-98.15	1,984.30	-899.02	909.48	798.38	111.10	8.186		
14,800.00	12,617.06	14,959.79	12,746.06	56.94	58.25	-98.15	2,084.29	-899.89	909.47	796.34	113.13	8.039		
14,900.00	12,617.06	15,059.79	12,746.06	58.00	59.28	-98.15	2,184.29	-900.75	909.46	794.25	115.21	7.894		
15,000.00	12,617.06	15,159.79	12,746.06	59.10	60.34	-98.15	2,284.28	-901.62	909.45	792.10	117.35	7.750		
15,100.00	12,617.06	15,259.79	12,746.06	60.21	61.42	-98.15	2,384.28	-902.48	909.44	789.90	119.54	7.608		
15,200.00	12,617.05	15,359.79	12,746.05	61.36	62.53	-98.15	2,484.28	-903.34	909.43	787.65	121.78	7.468		
15,300.00	12,617.05	15,459.79	12,746.05	62.52	63.67	-98.15	2,584.27	-904.21	909.42	785.35	124.07	7.330		
15,400.00	12,617.05	15,559.79	12,746.05	63.71	64.82	-98.15	2,684.27	-905.07	909.41	783.01	126.40	7.195		
15,500.00	12,617.05	15,659.79	12,746.05	64.92	66.00	-98.15	2,784.27	-905.94	909.40	780.63	128.77	7.062		
15,600.00	12,617.04	15,759.79	12,746.04	66.15	67.20	-98.16	2,884.26	-906.80	909.39	778.20	131.19	6.932		
15,700.00	12,617.04	15,859.79	12,746.04	67.39	68.41	-98.16	2,984.26	-907.67	909.38	775.74	133.64	6.805		
15,800.00	12,617.04	15,959.79	12,746.04	68.66	69.65	-98.16	3,084.25	-908.53	909.37	773.25	136.12	6.680		
15,900.00	12,617.04	16,059.79	12,746.04	69.94	70.90	-98.16	3,184.25	-909.39	909.36	770.72	138.64	6.559		
16,000.00	12,617.03	16,159.79	12,746.03	71.24	72.17	-98.16	3,284.25	-910.26	909.35	768.15	141.20	6.440		
16,100.00	12,617.03	16,259.79	12,746.03	72.55	73.45	-98.16	3,384.24	-911.12	909.34	765.56	143.78	6.325		
16,200.00	12,617.03	16,359.79	12,746.03	73.87	74.75	-98.16	3,484.24	-911.99	909.33	762.94	146.39	6.212		
16,300.00	12,617.03	16,459.79	12,746.03	75.21	76.06	-98.16	3,584.24	-912.85	909.32	760.29	149.03	6.102		
16,400.00	12,617.02	16,559.79	12,746.02	76.56	77.39	-98.16	3,684.23	-913.71	909.31	757.62	151.69	5.995		
16,500.00	12,617.02	16,659.79	12,746.02	77.92	78.72	-98.16	3,784.23	-914.58	909.30	754.92	154.38	5.890		
16,600.00	12,617.02	16,759.79	12,746.02	79.30	80.07	-98.16	3,884.22	-915.44	909.29	752.20	157.09	5.788		
16,700.00	12,617.02	16,859.79	12,746.02	80.68	81.43	-98.16	3,984.22	-916.31	909.28	749.46	159.82	5.689		
16,800.00	12,617.01	16,959.79	12,746.01	82.08	82.81	-98.16	4,084.22	-917.17	909.27	746.70	162.57	5.593		
16,900.00	12,617.01	17,059.79	12,746.01	83.48	84.19	-98.16	4,184.21	-918.04	909.26	743.91	165.35	5.499		
17,000.00	12,617.01	17,159.79	12,746.01	84.90	85.58	-98.16	4,284.21	-918.90	909.25	741.11	168.14	5.408		
17,100.00	12,617.01	17,259.79	12,746.01	86.32	86.98	-98.16	4,384.21	-919.76	909.24	738.29	170.95	5.319		
17,200.00	12,617.00	17,359.79	12,746.00	87.75	88.39	-98.16	4,484.20	-920.63	909.23	735.46	173.77	5.232		
17,300.00	12,617.00	17,459.79	12,746.00	89.19	89.81	-98.16	4,584.20	-921.49	909.22	732.60	176.62	5.148		
17,357.03	12,617.00	17,516.82	12,746.00	89.91	90.62	-98.16	4,641.23	-921.98	909.22	731.07	178.14	5.104		

Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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 (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	99.51	-320.00	1,911.00	1,937.64					
100.00	100.00	88.00	88.00	0.13	0.11	99.51	-320.00	1,911.00	1,937.61	1,937.37	0.24	8,098.866		
200.00	200.00	188.00	188.00	0.49	0.44	99.51	-320.00	1,911.00	1,937.61	1,936.68	0.93	2,086.945		
300.00	300.00	288.00	288.00	0.84	0.80	99.51	-320.00	1,911.00	1,937.61	1,935.96	1.65	1,177.601		
400.00	400.00	388.00	388.00	1.20	1.16	99.51	-320.00	1,911.00	1,937.61	1,935.24	2.36	620.211		
500.00	500.00	488.00	488.00	1.56	1.52	99.51	-320.00	1,911.00	1,937.61	1,934.53	3.08	629.242		
600.00	600.00	588.00	588.00	1.92	1.88	99.51	-320.00	1,911.00	1,937.61	1,933.81	3.80	510.405		
700.00	700.00	776.27	776.21	2.28	2.53	99.52	-319.96	1,906.93	1,935.60	1,930.79	4.81	402.397		
800.00	800.00	975.63	975.02	2.64	3.24	99.59	-319.81	1,892.55	1,928.47	1,922.61	5.86	329.290		
900.00	900.00	1,136.81	1,135.07	3.00	3.85	99.68	-319.62	1,873.52	1,916.58	1,909.81	6.77	282.944		
1,000.00	1,000.00	1,235.95	1,233.36	3.35	4.23	99.74	-319.49	1,860.58	1,903.69	1,896.21	7.48	254.376		
1,100.00	1,100.00	1,335.10	1,331.66	3.71	4.61	99.81	-319.36	1,847.64	1,890.80	1,882.61	8.20	230.710		
1,200.00	1,200.00	1,434.24	1,429.95	4.07	5.00	99.87	-319.23	1,834.70	1,877.92	1,869.01	8.91	210.760		
1,300.00	1,300.00	1,533.38	1,528.25	4.43	5.40	99.94	-319.10	1,821.76	1,865.03	1,855.41	9.63	193.746		
1,400.00	1,400.00	1,632.53	1,626.55	4.79	5.80	100.00	-318.97	1,808.82	1,852.15	1,841.81	10.34	179.066		
1,500.00	1,500.00	1,731.67	1,724.84	5.15	6.19	100.07	-318.84	1,795.88	1,839.27	1,828.21	11.06	166.276		
1,600.00	1,600.00	1,830.82	1,823.14	5.50	6.59	100.13	-318.71	1,782.94	1,826.40	1,814.62	11.78	155.034		
1,700.00	1,700.00	1,929.96	1,921.44	5.86	7.00	100.20	-318.58	1,770.00	1,813.53	1,801.02	12.50	145.077		
1,800.00	1,800.00	2,029.11	2,019.73	6.22	7.40	100.27	-318.45	1,757.06	1,800.65	1,787.43	13.22	136.199		
1,900.00	1,900.00	2,128.25	2,118.03	6.58	7.80	100.34	-318.32	1,744.12	1,787.79	1,773.85	13.94	128.233		
2,000.00	2,000.00	2,227.40	2,216.32	6.94	8.21	100.41	-318.19	1,731.18	1,774.92	1,760.26	14.66	121.047		
2,100.00	2,100.00	2,326.54	2,314.62	7.30	8.61	100.49	-318.06	1,718.24	1,762.06	1,746.67	15.38	114.532		
2,200.00	2,200.00	2,425.69	2,412.92	7.66	9.02	100.56	-317.93	1,705.30	1,749.20	1,733.09	16.11	108.599		
2,300.00	2,300.00	2,524.83	2,511.21	8.01	9.43	100.64	-317.80	1,692.36	1,736.34	1,719.51	16.83	103.173		
2,400.00	2,400.00	2,623.97	2,609.51	8.37	9.83	100.71	-317.67	1,679.42	1,723.49	1,705.94	17.55	98.192		
2,500.00	2,500.00	2,723.12	2,707.81	8.73	10.24	100.79	-317.54	1,666.47	1,710.64	1,692.36	18.28	93.604		
2,600.00	2,600.00	2,822.26	2,806.10	9.09	10.65	100.87	-317.40	1,653.53	1,697.79	1,678.79	19.00	89.364		
2,700.00	2,700.00	2,921.41	2,904.40	9.45	11.06	100.95	-317.27	1,640.59	1,684.95	1,665.22	19.72	85.434		
2,800.00	2,800.00	3,020.55	3,002.69	9.81	11.47	101.03	-317.14	1,627.65	1,672.10	1,651.66	20.45	81.782		
2,900.00	2,900.00	3,119.70	3,100.99	10.16	11.88	101.11	-317.01	1,614.71	1,659.27	1,638.10	21.17	78.378		
3,000.00	3,000.00	3,218.84	3,199.29	10.52	12.28	101.19	-316.88	1,601.77	1,646.43	1,624.54	21.89	75.200		
3,100.00	3,100.00	3,317.99	3,297.58	10.88	12.69	101.27	-316.75	1,588.83	1,633.60	1,610.98	22.62	72.224		
3,200.00	3,200.00	3,417.13	3,395.88	11.24	13.10	101.36	-316.62	1,575.89	1,620.77	1,597.43	23.34	69.432		
3,300.00	3,300.00	3,516.27	3,494.18	11.60	13.51	101.45	-316.49	1,562.95	1,607.95	1,583.88	24.07	66.809		
3,400.00	3,400.00	3,615.42	3,592.47	11.96	13.92	101.54	-316.36	1,550.01	1,595.13	1,570.33	24.79	64.338		
3,500.00	3,500.00	3,714.56	3,690.77	12.32	14.33	101.63	-316.23	1,537.07	1,582.31	1,556.79	25.52	62.008		
3,600.00	3,600.00	3,813.71	3,789.07	12.67	14.74	101.72	-316.10	1,524.13	1,569.50	1,543.25	26.24	59.806		
3,700.00	3,700.00	3,912.85	3,887.36	13.03	15.15	101.81	-315.97	1,511.19	1,556.69	1,529.72	26.97	57.722		
3,800.00	3,800.00	4,012.00	3,985.66	13.39	15.56	101.90	-315.84	1,498.25	1,543.88	1,516.19	27.69	55.747		
3,900.00	3,900.00	4,111.14	4,083.95	13.75	15.97	102.00	-315.71	1,485.31	1,531.08	1,502.66	28.42	53.873		
4,000.00	4,000.00	4,210.29	4,182.25	14.11	16.39	102.10	-315.58	1,472.37	1,518.29	1,489.14	29.15	52.092		
4,100.00	4,100.00	4,309.43	4,280.55	14.47	16.80	102.20	-315.45	1,459.43	1,505.50	1,475.62	29.87	50.398		
4,200.00	4,200.00	4,408.57	4,378.84	14.82	17.21	102.30	-315.32	1,446.49	1,492.71	1,462.11	30.60	48.784		
4,300.00	4,300.00	4,507.72	4,477.14	15.18	17.62	102.40	-315.19	1,433.55	1,479.93	1,448.60	31.33	47.244		
4,400.00	4,400.00	4,606.86	4,575.44	15.54	18.03	102.50	-315.06	1,420.61	1,467.15	1,435.10	32.05	45.774		
4,500.00	4,500.00	4,706.01	4,673.73	15.90	18.44	102.61	-314.93	1,407.67	1,454.37	1,421.60	32.78	44.370		
4,600.00	4,600.00	4,805.15	4,772.03	16.26	18.85	102.72	-314.80	1,394.73	1,441.61	1,408.10	33.51	43.026		
4,700.00	4,700.00	4,904.30	4,870.32	16.62	19.26	102.83	-314.67	1,381.79	1,428.84	1,394.61	34.23	41.739		
4,800.00	4,800.00	5,003.44	4,968.62	16.98	19.67	102.94	-314.53	1,368.85	1,416.09	1,381.13	34.96	40.505		
4,900.00	4,899.99	5,102.56	5,066.89	17.32	20.08	-73.91	-314.40	1,355.91	1,402.97	1,367.30	35.67	39.334		
5,000.00	4,999.91	5,201.59	5,165.08	17.64	20.50	-74.15	-314.27	1,342.99	1,389.14	1,352.78	36.36	38.209		
5,100.00	5,099.69	5,300.47	5,263.10	17.96	20.91	-74.51	-314.14	1,330.08	1,374.80	1,337.56	37.04	37.109		

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
5,133.33	5,132.91	5,333.38	5,295.73	18.07	21.04	-74.86	-314.10	1,325.79	1,369.81	1,332.34	37.27	36.748			
5,200.00	5,189.32	5,400.83	5,360.96	18.29	21.32	-74.82	-314.01	1,317.20	1,358.54	1,321.81	37.73	36.032			
5,300.00	5,298.94	5,502.14	5,458.81	18.61	21.57	-75.07	-313.88	1,304.32	1,344.47	1,306.23	38.24	35.160			
5,400.00	5,398.56	5,603.45	5,556.66	18.94	21.65	-75.32	-313.75	1,291.44	1,329.42	1,290.85	38.57	34.467			
5,500.00	5,498.18	5,704.76	5,654.50	19.27	21.75	-75.58	-313.62	1,278.55	1,314.40	1,275.49	38.91	33.779			
5,600.00	5,597.80	5,806.07	5,752.35	19.60	21.85	-75.84	-313.49	1,265.67	1,299.40	1,260.14	39.26	33.096			
5,700.00	5,697.42	5,907.38	5,850.20	19.94	21.96	-76.11	-313.36	1,252.79	1,284.44	1,244.82	39.62	32.419			
5,800.00	5,797.04	6,008.69	5,948.04	20.27	22.07	-76.38	-313.23	1,239.91	1,269.50	1,229.51	39.99	31.747			
5,900.00	5,896.66	6,109.99	6,045.89	20.61	22.20	-76.66	-313.11	1,227.03	1,254.58	1,214.22	40.36	31.082			
6,000.00	5,996.28	6,188.70	6,143.74	20.95	22.30	-76.95	-312.98	1,214.15	1,239.70	1,198.97	40.74	30.433			
6,100.00	6,095.90	6,287.39	6,241.58	21.29	22.43	-77.25	-312.85	1,201.27	1,224.86	1,183.73	41.12	29.784			
6,200.00	6,195.52	6,386.08	6,339.43	21.64	22.57	-77.55	-312.72	1,188.39	1,210.04	1,168.52	41.52	29.142			
6,300.00	6,295.14	6,484.77	6,437.27	21.98	22.72	-77.86	-312.59	1,175.51	1,195.26	1,153.33	41.93	28.508			
6,400.00	6,394.76	6,583.46	6,535.12	22.33	22.87	-78.18	-312.46	1,162.62	1,180.51	1,138.17	42.34	27.882			
6,500.00	6,494.38	6,682.15	6,632.97	22.67	23.03	-78.50	-312.33	1,149.74	1,165.80	1,123.04	42.76	27.264			
6,600.00	6,594.00	6,780.84	6,730.81	23.02	23.19	-78.84	-312.20	1,136.86	1,151.13	1,107.94	43.19	26.654			
6,700.00	6,693.62	6,879.53	6,828.66	23.37	23.36	-79.18	-312.07	1,123.98	1,136.50	1,092.87	43.62	26.053			
6,800.00	6,793.24	6,978.22	6,926.51	23.72	23.54	-79.53	-311.94	1,111.10	1,121.90	1,077.84	44.06	25.461			
6,900.00	6,892.85	7,076.91	7,024.35	24.07	23.72	-79.89	-311.81	1,098.22	1,107.36	1,062.84	44.51	24.877			
7,000.00	6,992.47	7,175.60	7,122.20	24.43	23.91	-80.26	-311.68	1,085.34	1,092.85	1,047.88	44.97	24.303			
7,100.00	7,092.09	7,274.30	7,220.05	24.78	24.11	-80.64	-311.55	1,072.46	1,078.39	1,032.96	45.43	23.737			
7,200.00	7,191.71	7,372.99	7,317.89	25.14	24.30	-81.04	-311.42	1,059.58	1,063.98	1,018.08	45.90	23.180			
7,300.00	7,291.33	7,471.68	7,415.74	25.49	24.51	-81.44	-311.29	1,046.70	1,049.62	1,003.25	46.38	22.633			
7,400.00	7,390.95	7,570.37	7,513.59	25.85	24.72	-81.85	-311.16	1,033.81	1,035.31	988.45	46.86	22.094			
7,500.00	7,490.57	7,669.06	7,611.43	26.21	24.93	-82.27	-311.03	1,020.93	1,021.06	973.71	47.35	21.565			
7,600.00	7,590.19	7,767.75	7,709.28	26.56	25.15	-82.71	-310.90	1,008.05	1,006.86	959.02	47.84	21.045			
7,700.00	7,689.81	7,866.44	7,807.13	26.92	25.38	-83.16	-310.77	995.17	992.72	944.38	48.34	20.535			
7,800.00	7,789.43	7,965.13	7,904.97	27.28	25.61	-83.62	-310.64	982.29	978.65	929.79	48.85	20.033			
7,900.00	7,889.05	8,063.82	8,002.82	27.64	25.84	-84.09	-310.51	969.41	964.63	915.27	49.36	19.541			
8,000.00	7,988.67	8,162.51	8,100.66	28.01	26.08	-84.58	-310.38	956.53	950.69	900.80	49.88	19.058			
8,100.00	8,088.29	8,249.09	8,186.54	28.37	26.28	-85.02	-310.27	943.54	937.21	886.78	50.43	18.586			
8,200.00	8,187.91	8,328.67	8,265.66	28.73	26.47	-85.44	-310.18	930.00	925.71	874.74	50.97	18.161			
8,300.00	8,287.53	8,408.60	8,345.29	29.09	26.64	-85.86	-310.11	916.09	916.36	864.86	51.51	17.792			
8,400.00	8,387.15	8,488.80	8,425.31	29.46	26.80	-86.30	-310.06	902.82	900.18	851.15	52.03	17.475			
8,500.00	8,486.77	8,569.21	8,505.64	29.82	26.95	-86.75	-310.02	889.21	884.16	835.63	52.54	17.210			
8,600.00	8,586.39	8,649.75	8,586.16	30.19	27.08	-87.19	-310.00	875.33	869.33	820.30	53.03	16.996			
8,615.29	8,601.62	8,662.08	8,598.49	30.24	27.10	-87.26	-310.00	861.19	854.09	804.98	53.11	16.968			
8,700.00	8,696.08	8,737.67	8,674.08	30.55	27.22	-87.62	-310.00	846.00	838.57	804.04	53.53	16.823			
8,800.00	8,795.94	8,837.53	8,773.94	30.91	27.37	-87.94	-310.00	830.00	820.37	800.37	54.06	16.654			
8,900.00	8,895.91	8,937.50	8,873.91	31.26	27.52	-88.11	-310.00	814.00	802.28	800.28	54.59	16.491			
8,948.63	8,934.53	8,986.12	8,922.53	31.42	27.60	-88.60	-310.00	800.00	800.27	800.27	54.85	16.414			
9,000.00	8,985.90	9,037.50	8,973.90	31.60	27.68	-88.60	-310.00	785.00	800.27	800.27	55.12	16.333			
9,100.00	9,085.90	9,137.50	9,073.90	31.95	27.84	-88.60	-310.00	770.00	800.27	800.27	55.65	16.177			
9,200.00	9,185.90	9,237.50	9,173.90	32.29	28.00	-88.60	-310.00	755.00	800.27	800.27	56.19	16.023			
9,300.00	9,285.90	9,337.50	9,273.90	32.64	28.17	-88.60	-310.00	740.00	800.27	800.27	56.73	15.870			
9,400.00	9,385.90	9,437.50	9,373.90	32.98	28.34	-88.60	-310.00	725.00	800.27	800.27	57.27	15.720			
9,500.00	9,485.90	9,537.50	9,473.90	33.33	28.52	-88.60	-310.00	710.00	800.27	800.27	57.82	15.571			
9,600.00	9,585.90	9,637.50	9,573.90	33.67	28.70	-88.60	-310.00	695.00	800.27	800.27	58.37	15.424			
9,700.00	9,685.90	9,737.50	9,673.90	34.02	28.88	-88.60	-310.00	680.00	800.27	800.27	58.92	15.279			
9,800.00	9,785.90	9,837.50	9,773.90	34.37	29.07	-88.60	-310.00	665.00	800.27	800.27	59.48	15.135			
9,900.00	9,885.90	9,937.50	9,873.90	34.71	29.26	-88.60	-310.00	650.00	800.27	800.27	60.04	14.993			
10,000.00	9,985.90	10,037.50	9,973.90	35.06	29.45	-88.60	-310.00	635.00	800.27	800.27	60.61	14.854			

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

Pro Directional Anticollision Report

Company: Malador Resources
Project: Lea County, NM
Reference Site: Biggers Fed
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + 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		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)							
10,100.00	10,085.90	10,137.50	10,073.90	35.41	29.84	88.60	-310.00	919.00	900.27	839.09	61.18	14.715			
10,200.00	10,185.90	10,237.50	10,173.90	35.76	29.84	88.60	-310.00	919.00	900.27	838.52	61.75	14.579			
10,300.00	10,285.90	10,337.50	10,273.90	36.10	30.04	88.60	-310.00	919.00	900.27	837.94	62.33	14.444			
10,400.00	10,385.90	10,437.50	10,373.90	36.45	30.25	88.60	-310.00	919.00	900.27	837.36	62.90	14.312			
10,500.00	10,485.90	10,537.50	10,473.90	36.80	30.45	88.60	-310.00	919.00	900.27	836.78	63.49	14.181			
10,600.00	10,585.90	10,637.50	10,573.90	37.15	30.66	88.60	-310.00	919.00	900.27	836.20	64.07	14.051			
10,700.00	10,685.90	10,737.50	10,673.90	37.50	30.87	88.60	-310.00	919.00	900.27	835.61	64.66	13.924			
10,800.00	10,785.90	10,837.50	10,773.90	37.84	31.09	88.60	-310.00	919.00	900.27	835.02	65.25	13.798			
10,900.00	10,885.90	10,937.50	10,873.90	38.19	31.31	88.60	-310.00	919.00	900.27	834.43	65.84	13.673			
11,000.00	10,985.90	11,037.50	10,973.90	38.54	31.53	88.60	-310.00	919.00	900.27	833.83	66.44	13.551			
11,100.00	11,085.90	11,137.50	11,073.90	38.89	31.75	88.60	-310.00	919.00	900.27	833.23	67.03	13.430			
11,200.00	11,185.90	11,237.50	11,173.90	39.24	31.97	88.60	-310.00	919.00	900.27	832.63	67.64	13.311			
11,300.00	11,285.90	11,337.50	11,273.90	39.59	32.20	88.60	-310.00	919.00	900.27	832.03	68.24	13.193			
11,400.00	11,385.90	11,437.50	11,373.90	39.94	32.43	88.60	-310.00	919.00	900.27	831.42	68.84	13.077			
11,500.00	11,485.90	11,537.50	11,473.90	40.29	32.66	88.60	-310.00	919.00	900.27	830.82	69.45	12.963			
11,600.00	11,585.90	11,637.50	11,573.90	40.64	32.90	88.60	-310.00	919.00	900.27	830.21	70.06	12.850			
11,700.00	11,685.90	11,737.50	11,673.90	40.99	33.14	88.60	-310.00	919.00	900.27	829.60	70.67	12.738			
11,800.00	11,785.90	11,837.50	11,773.90	41.34	33.37	88.60	-310.00	919.00	900.27	828.98	71.29	12.629			
11,900.00	11,885.90	11,937.50	11,873.90	41.69	33.62	88.60	-310.00	919.00	900.27	828.36	71.90	12.520			
12,000.00	11,985.90	12,037.50	11,973.90	42.04	33.86	88.60	-310.00	919.00	900.27	827.75	72.52	12.414			
12,048.10	12,034.00	12,085.90	12,022.00	42.21	33.98	88.60	-310.00	919.00	900.27	827.45	72.82	12.363			
12,050.00	12,035.90	12,087.50	12,023.90	42.22	33.98	88.85	-310.00	919.00	900.27	827.44	72.83	12.361			
12,100.00	12,085.83	12,137.43	12,073.83	42.39	34.10	88.00	-310.00	919.00	900.22	827.09	73.14	12.308			
12,150.00	12,135.37	12,186.08	12,123.37	42.55	34.23	89.43	-310.00	919.00	900.13	826.70	73.44	12.257			
12,196.28	12,180.53	12,232.15	12,168.53	42.70	34.34	90.00	-309.02	919.00	900.09	826.39	73.70	12.213 CC			
12,200.00	12,184.13	12,235.80	12,172.18	42.71	34.35	90.05	-308.79	918.99	900.09	826.36	73.72	12.209			
12,250.00	12,231.75	12,285.29	12,221.37	42.85	34.47	90.67	-303.45	918.97	900.15	826.15	74.00	12.163			
12,300.00	12,277.87	12,335.67	12,270.77	42.99	34.59	91.29	-293.68	918.93	900.33	826.05	74.28	12.121			
12,350.00	12,322.13	12,386.97	12,320.00	43.12	34.72	91.91	-279.31	918.87	900.61	826.06	74.55	12.081			
12,400.00	12,364.19	12,439.25	12,368.65	43.24	34.84	92.52	-260.20	918.78	900.99	826.19	74.81	12.044			
12,450.00	12,403.75	12,492.54	12,416.22	43.35	34.96	93.11	-236.24	918.68	901.47	826.41	75.06	12.011			
12,500.00	12,440.49	12,546.85	12,462.21	43.46	35.08	93.69	-207.38	918.55	902.02	826.72	75.30	11.979			
12,550.00	12,474.13	12,602.21	12,506.05	43.57	35.20	94.25	-173.62	918.40	902.64	827.10	75.54	11.950			
12,600.00	12,504.43	12,658.61	12,547.16	43.67	35.32	94.77	-135.04	918.24	903.30	827.52	75.77	11.921			
12,650.00	12,531.15	12,716.03	12,584.92	43.76	35.44	95.26	-91.81	918.05	903.98	827.96	76.01	11.893			
12,700.00	12,554.08	12,774.44	12,618.68	43.86	35.57	95.71	-44.18	917.84	904.65	828.39	76.26	11.862			
12,750.00	12,573.05	12,833.78	12,647.84	43.96	35.71	96.11	7.47	917.61	905.30	828.77	76.53	11.830			
12,800.00	12,587.92	12,893.97	12,671.81	44.05	35.85	96.46	62.65	917.37	905.89	829.07	76.82	11.793			
12,848.10	12,598.25	12,952.56	12,689.45	44.15	36.01	96.74	118.50	917.13	906.38	829.26	77.13	11.752			
12,873.10	12,602.59	12,983.29	12,696.39	44.20	36.10	96.84	148.42	917.00	906.54	829.24	77.30	11.727			
12,900.00	12,606.89	13,013.07	12,701.77	44.26	36.80	96.88	177.72	916.87	906.62	829.14	77.48	11.702			
12,950.00	12,612.89	13,069.39	12,710.46	44.37	41.11	97.00	233.36	916.60	906.87	829.09	77.79	11.658			
13,000.00	12,616.28	13,127.52	12,716.04	44.49	41.21	97.09	291.21	916.23	907.08	828.94	78.14	11.608			
13,039.84	12,617.11	13,173.90	12,717.97	44.59	41.30	97.15	337.54	915.87	907.20	828.75	78.45	11.564			
13,100.00	12,617.11	13,236.40	12,718.11	44.76	41.42	97.16	400.03	915.33	907.22	828.30	78.92	11.496			
13,200.00	12,617.10	13,336.40	12,718.10	45.08	41.65	97.16	500.03	914.45	907.22	827.46	79.75	11.375			
13,300.00	12,617.10	13,436.40	12,718.10	45.46	41.82	97.16	600.03	913.58	907.21	826.50	80.71	11.240			
13,400.00	12,617.10	13,536.40	12,718.10	45.89	42.22	97.16	700.02	912.70	907.21	825.41	81.80	11.091			
13,500.00	12,617.10	13,636.40	12,718.10	46.38	42.58	97.16	800.02	911.82	907.21	824.21	83.00	10.930			
13,600.00	12,617.09	13,736.40	12,718.09	46.93	42.99	97.16	900.01	910.94	907.20	822.89	84.31	10.760			
13,700.00	12,617.09	13,836.40	12,718.09	47.52	43.46	97.16	1,000.01	910.07	907.20	821.47	85.73	10.582			
13,800.00	12,617.09	13,936.40	12,718.09	48.17	44.00	97.16	1,100.01	909.18	907.20	819.94	87.25	10.397			

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
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
TVD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
MD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Biggers Fed Com - 217H - OH - Prelim Plan A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD - OWSG. 5500-MWD - OWSG. 13004-MWD - OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,617.09	14,036.40	12,718.09	48.87	44.60	97.16	1,200.00	908.31	907.19	818.32	88.67	10.208		
14,000.00	12,617.08	14,136.40	12,718.08	49.61	45.27	97.16	1,300.00	907.43	907.19	816.61	90.58	10.016		
14,100.00	12,617.08	14,236.40	12,718.08	50.39	46.02	97.16	1,399.99	906.56	907.19	814.82	92.37	9.821		
14,200.00	12,617.08	14,336.40	12,718.08	51.21	46.83	97.16	1,499.99	905.68	907.18	812.94	94.24	9.626		
14,300.00	12,617.08	14,436.40	12,718.08	52.08	47.70	97.16	1,599.99	904.80	907.18	810.99	96.19	9.431		
14,400.00	12,617.07	14,536.40	12,718.07	52.98	48.63	97.16	1,699.98	903.93	907.18	808.96	98.21	9.237		
14,500.00	12,617.07	14,636.40	12,718.07	53.92	49.61	97.16	1,799.98	903.05	907.17	806.87	100.30	9.044		
14,600.00	12,617.07	14,736.40	12,718.07	54.90	50.64	97.16	1,899.98	902.17	907.17	804.72	102.45	8.855		
14,700.00	12,617.07	14,836.40	12,718.07	55.90	51.72	97.16	1,999.97	901.29	907.17	802.51	104.66	8.668		
14,800.00	12,617.06	14,936.40	12,718.06	56.94	52.84	97.16	2,099.97	900.42	907.16	800.24	106.93	8.484		
14,900.00	12,617.06	15,036.40	12,718.06	58.00	53.99	97.16	2,199.96	899.54	907.16	797.92	109.24	8.304		
15,000.00	12,617.06	15,136.40	12,718.06	59.10	55.17	97.16	2,299.96	898.66	907.16	795.55	111.61	8.128		
15,100.00	12,617.06	15,236.40	12,718.06	60.21	56.39	97.16	2,399.96	897.78	907.16	793.14	114.02	7.956		
15,200.00	12,617.05	15,336.40	12,718.05	61.36	57.63	97.16	2,499.95	896.91	907.15	790.68	116.47	7.788		
15,300.00	12,617.05	15,436.40	12,718.05	62.52	58.90	97.16	2,599.95	896.03	907.15	788.18	118.97	7.625		
15,400.00	12,617.05	15,536.40	12,718.05	63.71	60.19	97.16	2,699.94	895.15	907.15	785.65	121.50	7.466		
15,500.00	12,617.05	15,636.40	12,718.05	64.92	61.50	97.16	2,799.94	894.28	907.14	783.07	124.07	7.312		
15,600.00	12,617.04	15,736.40	12,718.04	66.15	62.83	97.16	2,899.94	893.40	907.14	780.47	126.67	7.161		
15,700.00	12,617.04	15,836.40	12,718.04	67.39	64.17	97.16	2,999.93	892.52	907.14	777.83	129.30	7.016		
15,800.00	12,617.04	15,936.40	12,718.04	68.66	65.54	97.16	3,099.93	891.64	907.13	775.17	131.96	6.874		
15,900.00	12,617.04	16,036.40	12,718.04	69.94	66.92	97.16	3,199.93	890.77	907.13	772.48	134.65	6.737		
16,000.00	12,617.03	16,136.40	12,718.03	71.24	68.31	97.16	3,299.92	889.89	907.13	769.76	137.37	6.604		
16,100.00	12,617.03	16,236.40	12,718.03	72.55	69.71	97.16	3,399.92	889.01	907.12	767.01	140.11	6.474		
16,200.00	12,617.03	16,336.40	12,718.03	73.87	71.13	97.16	3,499.91	888.13	907.12	764.25	142.88	6.349		
16,300.00	12,617.03	16,436.40	12,718.03	75.21	72.56	97.16	3,599.91	887.26	907.12	761.46	145.66	6.228		
16,400.00	12,617.02	16,536.40	12,718.02	76.56	74.00	97.16	3,699.91	886.38	907.11	758.65	148.47	6.110		
16,500.00	12,617.02	16,636.40	12,718.02	77.92	75.45	97.16	3,799.90	885.50	907.11	755.82	151.29	5.996		
16,600.00	12,617.02	16,736.40	12,718.02	79.30	76.90	97.16	3,899.90	884.62	907.11	752.97	154.14	5.885		
16,700.00	12,617.02	16,836.40	12,718.02	80.68	78.37	97.16	3,999.89	883.75	907.10	750.10	157.00	5.778		
16,800.00	12,617.01	16,936.40	12,718.01	82.08	79.84	97.16	4,099.89	882.87	907.10	747.22	159.88	5.674		
16,900.00	12,617.01	17,036.40	12,718.01	83.48	81.33	97.16	4,199.89	881.99	907.10	744.32	162.78	5.573		
17,000.00	12,617.01	17,136.40	12,718.01	84.90	82.82	97.16	4,299.88	881.12	907.10	741.41	165.69	5.475		
17,100.00	12,617.01	17,236.40	12,718.01	86.32	84.31	97.16	4,399.88	880.24	907.09	738.48	168.61	5.380		
17,200.00	12,617.00	17,336.40	12,718.00	87.75	85.81	97.16	4,499.88	879.36	907.09	735.54	171.55	5.288		
17,300.00	12,617.00	17,436.40	12,718.00	89.19	87.32	97.16	4,599.87	878.48	907.09	732.59	174.50	5.198		
17,357.03	12,617.00	17,493.43	12,718.00	89.91	88.18	97.16	4,656.90	877.98	907.08	731.00	176.08	5.151 ES, SF		

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

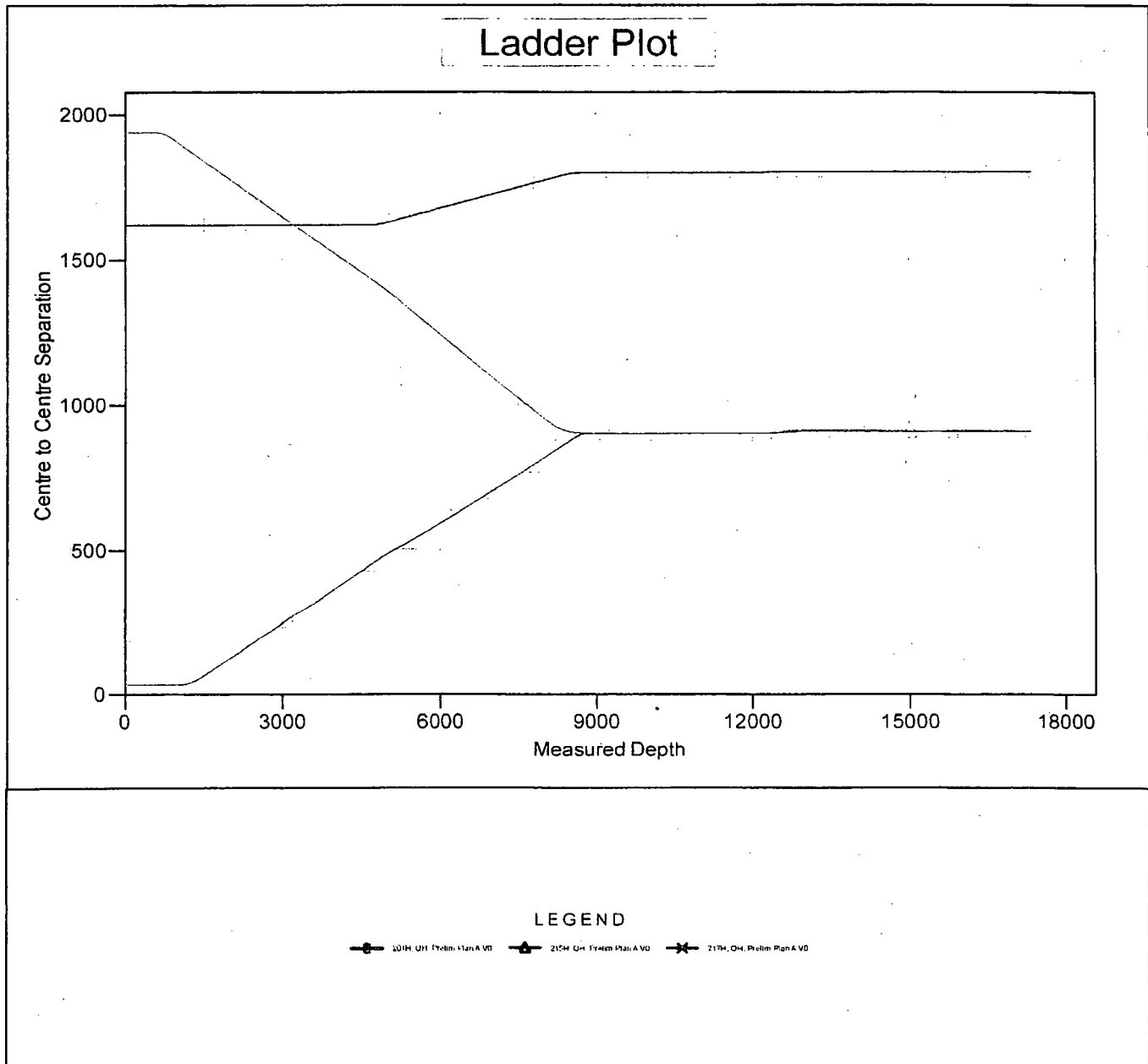
Pro Directional Anticollision Report

Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference: Well 202H
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MD Reference: Rig @ 3373.00usft (GL: 3344 + 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 @ 3373.00usft (GL: 3344 + KB:29)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 202H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.49°



Pro Directional Anticollision Report

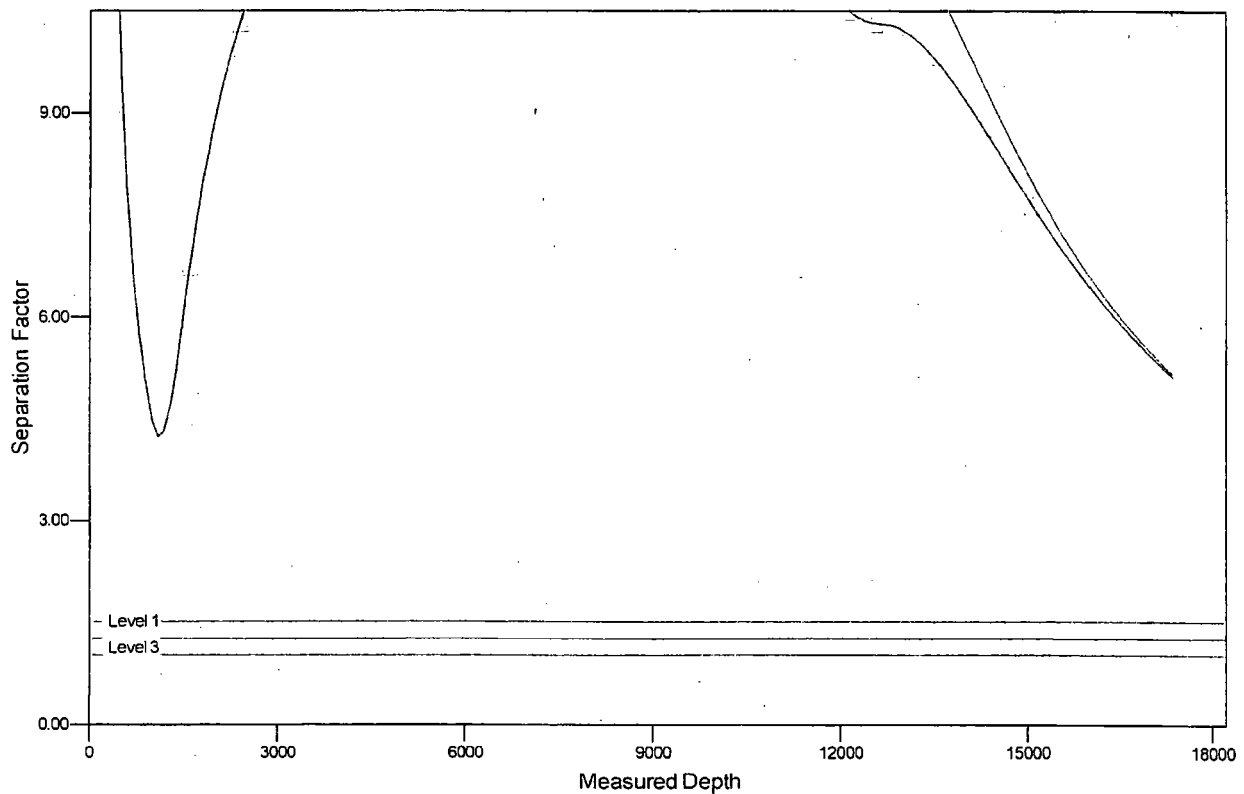
Company: Matador Resources
Project: Lea County, NM
Reference Site: Biggers Fed
Site Error: 0.00 usft
Reference Well: 202H
Well Error: 0.00 usft
Reference Wellbore: OH
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MD Reference: Rig @ 3373.00usft (GL: 3344 + KB:29)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to Rig @ 3373.00usft (GL: 3344 + KB:29)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 202H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.49°

Separation Factor Plot



Matador Production Company
 Biggers Fed 202H
 SHL 390' FSL & 2112' FWL
 BHL 240' FNL & 2130' FWL
 Sec. 18, T. 25 S., R. 35 E., Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary	000	000	water
Dewey Lake red beds	474	474	water
Rustler anhydrite	935	935	brine
Top of Salt	1453	1453	barren
Castile anhydrite	3748	3748	barren
Base of salt	5452	5454	barren
Bell Canyon Sandstone	5494	5496	hydrocarbons
Cherry Canyon Sandstone	6505	6511	hydrocarbons
Brushy Canyon Sandstone	7995	8006	hydrocarbons
Bone Spring Limestone	9335	9349	hydrocarbons
1 st Bone Spring Sand	10457	10471	hydrocarbons
1 st Bone Spring Carbonate	10475	10489	hydrocarbons
2 nd Bone Spring Carbonate	10646	10660	hydrocarbons
2 nd Bone Spring Sand	11067	11081	hydrocarbons
3 rd Bone Spring Carbonate	11498	11512	hydrocarbons
(KOP	12036	12050	hydrocarbons)
3 rd Bone Spring Sand	12151	12166	hydrocarbons
Wolfcamp A Limestone	12516	12623	hydrocarbons
Wolfcamp A Fat Carbonate	12599	12848	hydrocarbons & goal
TD	12616	17356	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 3342' north. Depth to water is 230' in this 300' deep well.

Matador Production Company

DRILL PLAN PAGE 2

Biggers Fed 202H

SHL 390' FSL & 2112' FWL

BHL 240' FNL & 2130' FWL

Sec. 18, T. 25 S., R. 35 E., Lea County, NM

3. PRESSURE CONTROL

A 5K BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. BOP will be used below surface casing to TD. See attached BOP and choke manifold diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

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 minimum 5M BOPE system will be installed and tested to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

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.

Matador Production Company

DRILL PLAN PAGE 3

Biggers Fed 202H

SHL 390' FSL & 2112' FWL

BHL 240' FNL & 2130' FWL

Sec. 18, T. 25 S., R. 35 E., Lea County, NM

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 5M BOPE system will be installed. Pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high. A diagram of the speed head is attached.

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

4. CASING & CEMENT

All casing will be API and new.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1000'	0' - 1000'	13.375"	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0' - 5600'	0' - 5597'	9.625"	40	J-55	BTC	1.125	1.125	1.8
8.75"	0' - 12847'	0' - 12598'	7"	29	P-110	BTC	1.125	1.125	1.8
6.125"	0' - 17357'	0' - 12616'	4.5"	13.5	P-110	BTC/TXP	1.125	1.125	1.8

Matador Production Company

DRILL PLAN PAGE 4

Biggers Fed 202H

SHL 390' FSL & 2112' FWL

BHL 240' FNL & 2130' FWL

Sec. 18, T. 25 S., R. 35 E., Lea County, NM

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	

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' - 12847'	9.0	30-31	NC
OBM	12847' - 17357'	12.5	50-60	<10

Matador Production Company
Biggers Fed 202H
SHL 390' FSL & 2112' FWL
BHL 240' FNL & 2130' FWL
Sec. 18, T. 25 S., R. 35 E., Lea County, NM

DRILL PLAN PAGE 5

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from $\approx 5600'$ 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

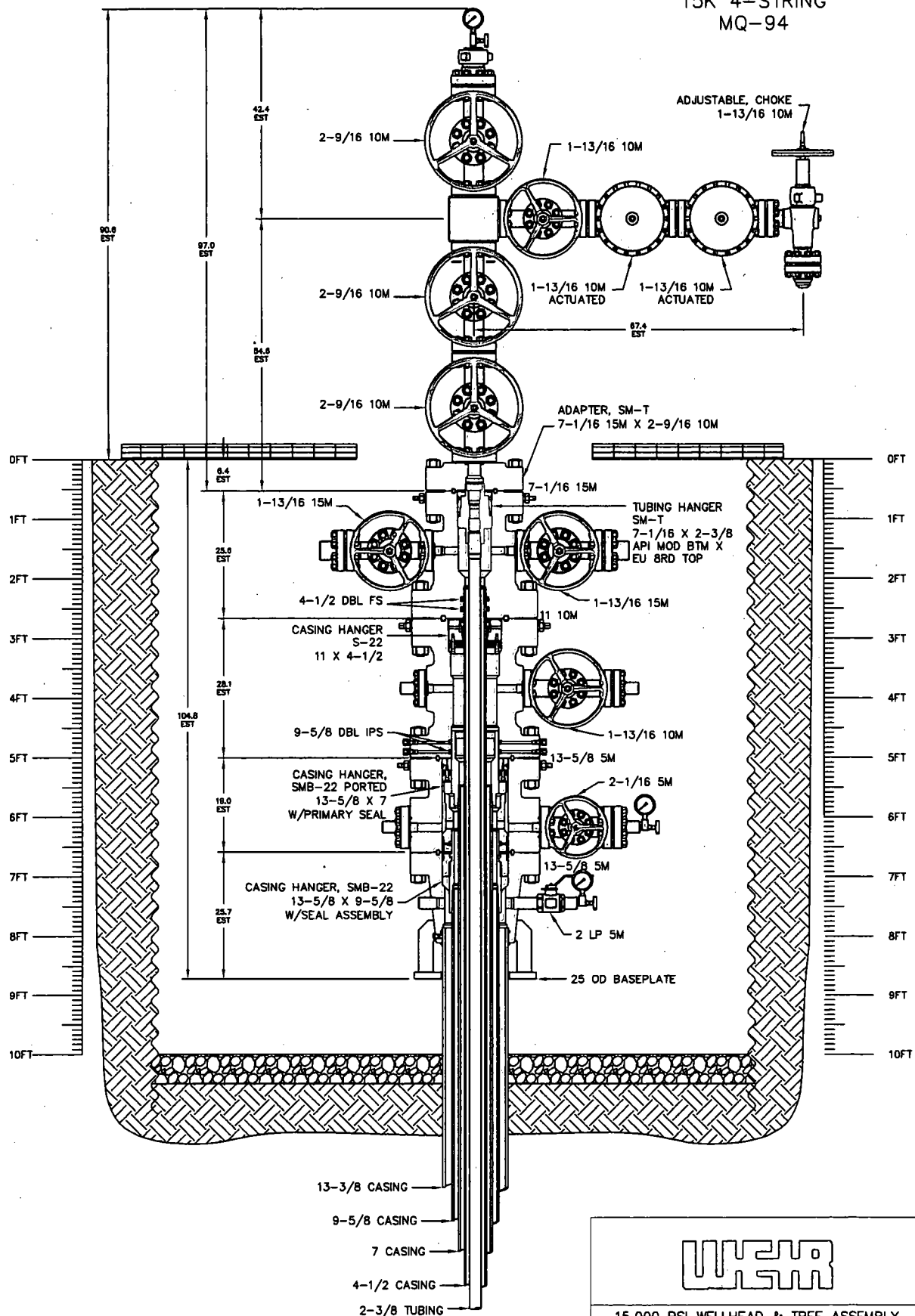
No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 9000 psi. Expected bottom hole temperature is $\approx 170^\circ$ F.

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

8. OTHER INFORMATION

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

MATADOR
15K 4-STRING
MQ-94



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

RESTRICTED CONFIDENTIAL DOCUMENT

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EXCLUSIVE PROPERTY OF SEABOARD INTERNATIONAL INC AND ARE
SUBMITTED ON A CONFIDENTIAL BASIS ONLY. THE RECIPIENT AGREES
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THAT NO DISCLOSURE OF THE DRAWING OR THE INFORMATION SHOWN
HEREON WILL BE MADE TO A THIRD PARTY WITHOUT PRIOR WRITTEN
CONSENT OF SEABOARD INTERNATIONAL INC.

WEIR

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

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

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

December 31 2015



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

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

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3.795 in.
Nominal ID	3.920 in.	Wall Thickness	0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				
Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				
Connection OD	5.000 in.	Coupling Length	9.075 in.	Connection ID	3.908 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in.
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity ⁽²⁾	14100 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	479 x 1000 lbs	Structural Bending ⁽²⁾	127 °/100 ft
External Pressure Capacity	11620 psi				
Minimum	6950 ft-lbs	Optimum	7720 ft-lbs	Maximum	8490 ft-lbs
Operating Torque	10500 ft-lbs	Yield Torque	12200 ft-lbs		
Blanking Dimensions					

TOP OF PAD ELEVATION: 3344.6'

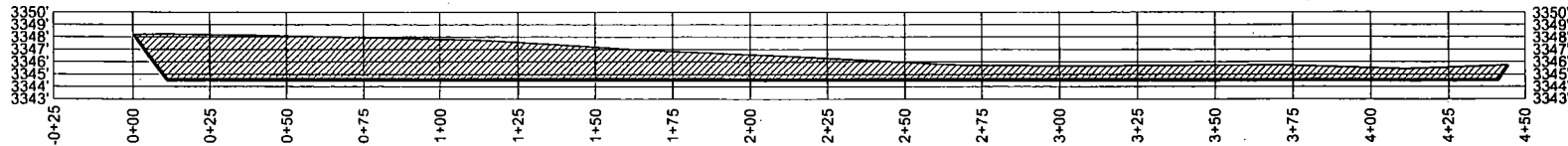
CUT SLOPE: 33.33% 3.00:1 18.43°
FILL SLOPE: 33.33% 3.00:1 18.43°
BALANCE TOLERANCE (C.Y.): 0.00
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT : 88,093.8 C.F., 3,262.73 C.Y.
FILL: 88,093.8 C.F., 3,262.73 C.Y.
BALANCE EXPORT: 0.0 C.F., 0.00 C.Y.
AREA: 168522.6 Sq.Ft., 3.869 Acres

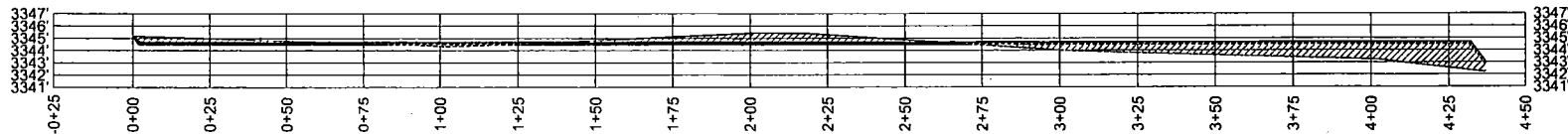
SECTION 18, TOWNSHIP 25-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



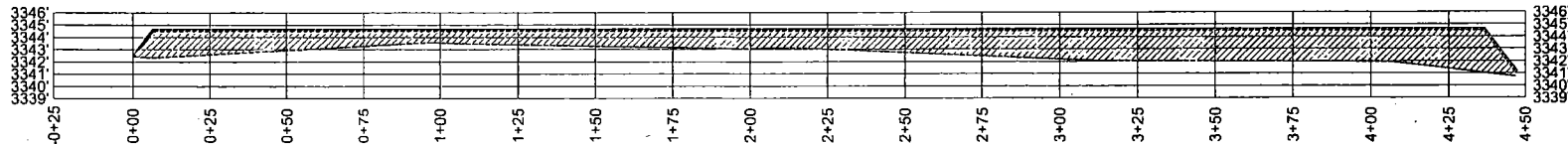
A-A'



B-B'



C-C'



1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

Horizontal Scale = 1:60
Vertical Scale = 1:15

BIGGERS FED COM
#202H
SURFACE PAD SITE
PROFILE

DATE: 09/30/16

FILE: CD_BIGGERS_FED_202H_SURFACE_PAD_SITE_PRO

DRAWN BY: GJU

SHEET: 2 OF 2

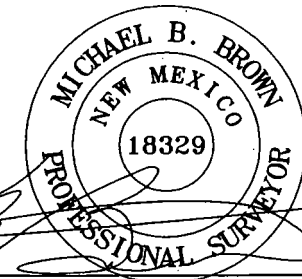
REVISION:

INT	DATE

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

MAP 8



Michael Blake Brown, P.S. No. 18329

OCTOBER 3, 2016

Field note description of even date accompanies this plat.

Matador Production Company

SURFACE PLAN PAGE 1

Biggers Fed 202H

SHL 390' FSL & 2112' FWL

BHL 240' FSL & 2130' FWL

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

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 1/3 mile on a caliche road

Then turn left and go Northeast 36.81' 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 1 - 5)

The 36.81' of new road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 1'. 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.

4. PROPOSED PRODUCTION FACILITIES (See preceding page)

Gas line and power line plans have not been formulated.

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SURFACE PLAN PAGE 2

Biggers Fed 202H

SHL 390' FSL & 2112' FWL

BHL 240' FSL & 2130' FWL

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

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. A fence will be built on the north side of the pad prior to starting construction to protect hackberry bushes. Top ≈ 6 " of soil and brush will be stockpiled west of the pad. V-door will face north. 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 MAP 6)

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 7 & 8)

Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the pad $\approx 26\%$ (0.95 acre) by removing caliche and reclaiming 65' wide swaths on the west and north sides of the pad. This will leave 2.70 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:

36.81' x 30' new road = 0.03 acre
+ 370' x 430' pad = 3.65 acres
3.68 acres short term
- 0.95 acre interim reclamation
2.73 acres long term

11. SURFACE OWNER

All construction will be on BLM.

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SURFACE PLAN PAGE 4

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SHL 390' FSL & 2112' FWL

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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-138157 on June 1, 2017.

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SURFACE PLAN PAGE 5

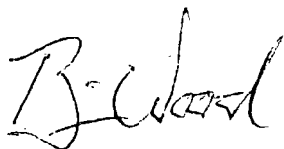
SHL 390' FSL & 2112' FWL

BHL 240' FSL & 2130' FWL

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

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 22nd day of July, 2017.



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