

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

|                       |                                     |
|-----------------------|-------------------------------------|
| OPERATOR'S NAME:      | Matador Production Company          |
| LEASE NO.:            | NMLC-0063798                        |
| WELL NAME & NO.:      | Charles Ling Fed Com 212H           |
| SURFACE HOLE FOOTAGE: | 0360' FNL & 1845' FWL               |
| BOTTOM HOLE FOOTAGE:  | 0240' FSL & 1649' FWL               |
| LOCATION:             | Section 11, T. 24 S., R 33 E., NMPM |
| COUNTY:               | County, New Mexico                  |

**HOBBS OCD**  
**AUG 06 2018**  
**RECEIVED**

Submit NMODC Gas Capture Plan via Sundry Notice.

### Communitization Agreement

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

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

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

### **A. DRILLING OPERATIONS REQUIREMENTS**

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

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

☐ **Lea County**

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

1. A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public**

**protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**

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.

#### **B. 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 Salado and Castile.**

**Possibility of lost circulation in the Rustler, Red Beds, Delaware.**

**Abnormal pressure maybe encountered when penetrating the 3<sup>rd</sup> Bone Spring and all subsequent formations.**

1. The 13-3/8 inch surface casing shall be set at approximately 1340 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) 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.

**Formation below the 13-3/8" 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.**

**1<sup>st</sup> 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 1<sup>st</sup> 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.**

3. The minimum required fill of cement behind the 7-5/8 X 7 inch 2<sup>nd</sup> intermediate casing is:

☐ Cement should tie-back at least 200 feet into previous casing string. 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.**

**Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.**

4. The minimum required fill of cement behind the 5-1/2 X 4-1/2 inch production casing 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.

## **C. 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.
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 X 7 intermediate casing shoe shall be 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.**

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

If multibowl option is utilized:

5. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing.**
  - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
  - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
  - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
  - d. **Operator shall perform the 9-5/8" and 7-5/8 X 7" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.**
  - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**
6. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.

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

#### D. 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.

#### E. DRILL STEM TEST

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

**F. 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.

**JAM 062718**

**PECOS DISTRICT  
SURFACE USE  
CONDITIONS OF APPROVAL**

|                       |                            |
|-----------------------|----------------------------|
| OPERATOR'S NAME:      | Matador Production Company |
| LEASE NO.:            | NMLC0063798                |
| WELL NAME & NO.:      | 211H-Charles Ling Fed Com  |
| SURFACE HOLE FOOTAGE: | 360'/N & 526'/W            |
| BOTTOM HOLE FOOTAGE   | 240'/S & 330'/W            |
| LOCATION:             | T-24S, R-33E, S-11. NMPM   |
| COUNTY:               | LEA, NM                    |

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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)**

### **Cattle Guard Requirement**

Any new or existing cattle guards on the access 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. Once the road is abandoned, the fence would be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

### **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction, throughout the life of the project, and caused by its operation, must be immediately corrected by Matador. Matador must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

Production facilities on the well pads would be bermed to prevent oil, salt, and other chemical contaminants from leaving the pads. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control.

Roads will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Turnout ditches and drainage leadoffs will not be constructed in such a manner as to increase or decrease the natural flow of water into or out of cave or karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.

All spills or leaks should be reported to the BLM immediately for their immediate and proper treatment.

To avoid or lessen the potential of subsidence or collapse of karst features, toxic or combustible gas buildup, or other possible impacts to cave and karst resources from buried pipelines or cables, alignments may be rerouted to avoid karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required at such intersections, if any. Leak detection systems, back flow eliminators, and differential pressure shut-off valves may be required to minimize the impacts of leaking or ruptured pipelines. To eliminate these extreme possibilities, good record keeping is needed to quickly identify leaks for their immediate and proper treatment.



## **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**

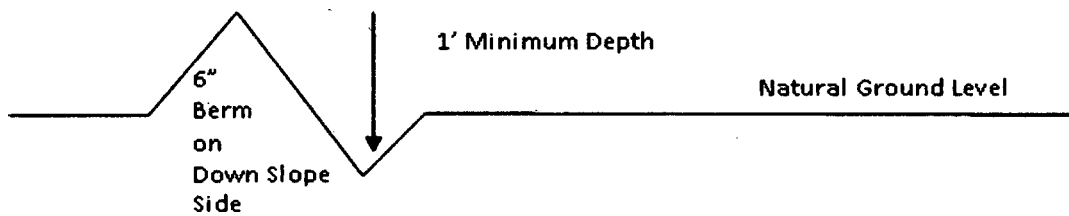
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

**Drainage**

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

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

#### **Cross Section of a Typical Lead-off Ditch**



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

#### **Formula for Spacing Interval of Lead-off Ditches**

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

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

#### **Cattle guards**

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

#### **Fence Requirement**

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

#### **Public Access**

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

### Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

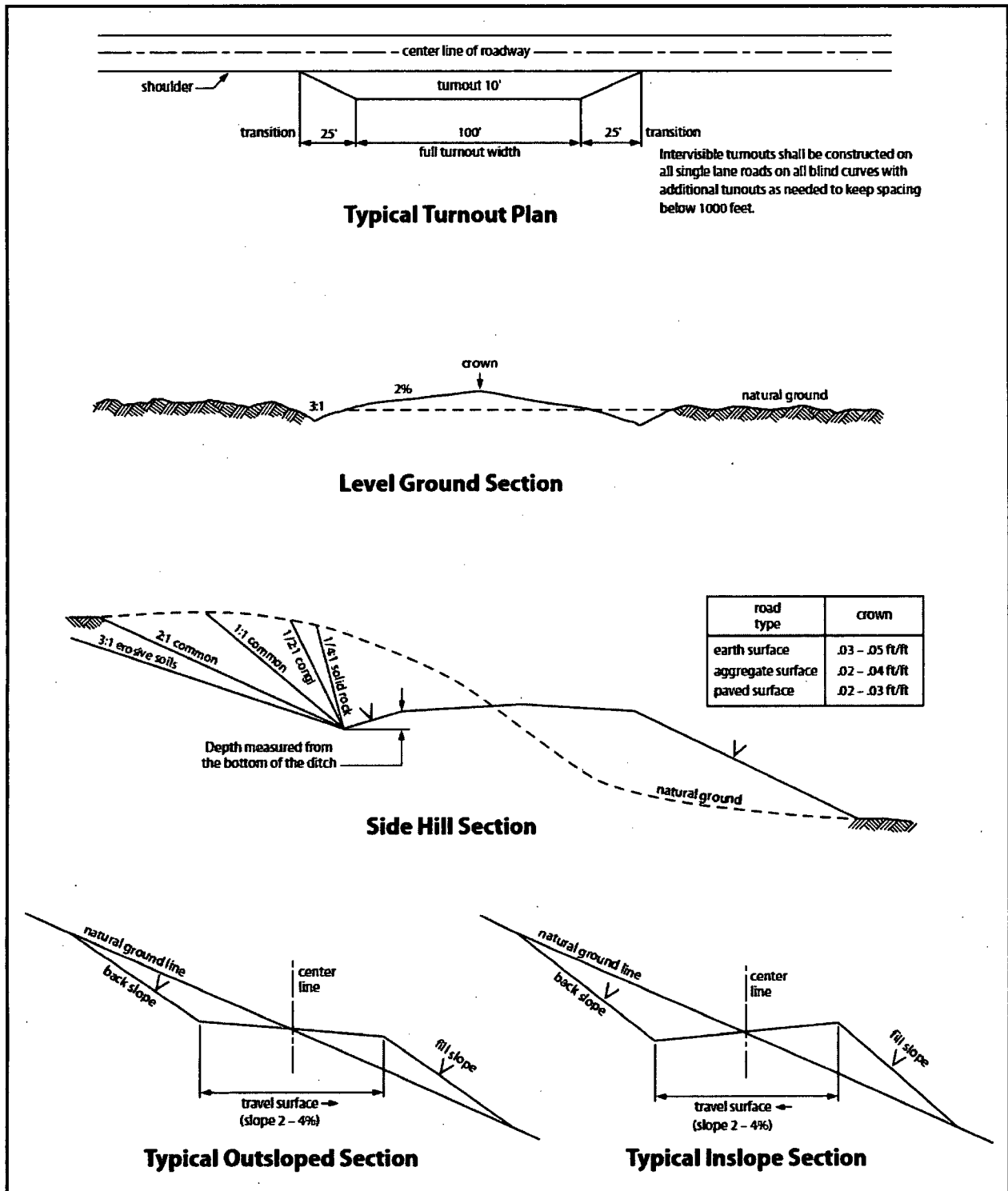


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## **VII. PRODUCTION (POST DRILLING)**

### **A. WELL STRUCTURES & FACILITIES**

#### **Placement of Production Facilities**

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

#### **Exclosure Netting (Open-top Tanks)**

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

#### **Chemical and Fuel Secondary Containment and Exclosure Screening**

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

#### **Open-Vent Exhaust Stack Exclosures**

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

#### **Containment Structures**

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

#### **Painting Requirement**

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

### **B. PIPELINES**

#### **BURIED PIPELINE STIPULATIONS**

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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

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

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
  - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
  - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- |                                                    |                                                  |
|----------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> seed mixture 1            | <input type="checkbox"/> seed mixture 3          |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4          |
| <input type="checkbox"/> seed mixture 2/LPC        | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. 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 associated roads, 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.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

### **C. ELECTRIC LINES**

#### **STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES**

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

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

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

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the

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

11. Special Stipulations:

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

## **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).

#### Seed Mixture 2, for Sandy Sites

The 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 will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will 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). The 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. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will 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:

| Species                                             | lb/acre |
|-----------------------------------------------------|---------|
| Sand dropseed ( <i>Sporobolus cryptandrus</i> )     | 1.0     |
| Sand love grass ( <i>Eragrostis trichodes</i> )     | 1.0     |
| Plains bristlegrass ( <i>Setaria macrostachya</i> ) | 2.0     |

\*Pounds of pure live seed:

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



## 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 30min pressure demand air packs

##### 2 H2S Detection and Alarm Systems:

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

##### 3 Windssocks and / Wind Streamers:

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

##### 4 Condition Flags and Signs:

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

##### 5 Well Control Equipment:

- See Exhibit E-1

##### 6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board 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 most drilling foreman's trailer or living quarters.



**7 Drilling Stem Testing:**

- No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubulars good and other mechanical equipment

9 If H<sub>2</sub>S 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 H<sub>2</sub>S scavengers if necessary

**11 Emergency Contacts**

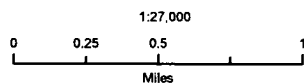
- See exhibit E-6

Exhibit E-6: H2S Contingency Plan Emergency Contacts  
 Charles Ling Fed Com Slot 2  
 Wells 132H, 202H, & 212H  
 Matador Resources Company  
 Sec. 11, 24S, 33E  
 Lea County, NM

|                                                                |                             |               |                 |
|----------------------------------------------------------------|-----------------------------|---------------|-----------------|
| <b><u>Company Office</u></b>                                   |                             |               |                 |
| Matador Resources Company                                      | (972)-371-5200              |               |                 |
| <b><u>Key Personnel</u></b>                                    |                             |               |                 |
| <b>Name</b>                                                    | <b>Title</b>                | <b>Office</b> | <b>Mobile</b>   |
| Billy Goodwin                                                  | Vice President Drilling     | 972-371-5210  | 817-522-2928    |
| Dee Smith                                                      | Drilling Superintendent     | 972-371-5447  | 972-822-1010    |
| Blake Hermes                                                   | Drilling Engineer           | 972-371-5485  | 713-876-8558    |
|                                                                | Construction Superintendent |               |                 |
|                                                                | Construction Superintendent |               |                 |
| <b><u>Artesia</u></b>                                          |                             |               |                 |
| Ambulance                                                      |                             |               | 911             |
| State Police                                                   |                             | 575-746-2703  |                 |
| City Police                                                    |                             | 575-746-2703  |                 |
| Sheriff's Office                                               |                             | 575-746-9888  |                 |
| Fire Department                                                |                             | 575-746-2701  |                 |
| Local Emergency Planning Committee                             |                             | 575-746-2122  |                 |
| New Mexico Oil Conservation Division                           |                             | 575-748-1283  |                 |
| <b><u>Carlsbad</u></b>                                         |                             |               |                 |
| Ambulance                                                      |                             |               | 911             |
| State Police                                                   |                             | 575-885-3137  |                 |
| City Police                                                    |                             | 575-885-2111  |                 |
| Sheriff's Office                                               |                             | 575-887-7551  |                 |
| Fire Department                                                |                             | 575-887-3798  |                 |
| Local Emergency Planning Committee                             |                             | 575-887-6544  |                 |
| New Mexico Oil Conservation Division                           |                             | 575-887-6544  |                 |
| <b><u>Santa Fe</u></b>                                         |                             |               |                 |
| New Mexico Emergency Response Comission (Santa Fe)             |                             | 505-476-9600  |                 |
| New Mexico Emergency Response Comission (Santa Fe) 24 hrs      |                             | 505-827-9126  |                 |
| New Mexico State Emergency Operations Center                   |                             | 505-476-9635  |                 |
| <b><u>National</u></b>                                         |                             |               |                 |
| National Emegency Response Center (Washington, D.C.)           |                             | 800-424-8802  |                 |
| <b><u>Medical</u></b>                                          |                             |               |                 |
| 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 S.E., D3; Albuquerque, NM   |                             | 505-842-4433  |                 |
| SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM |                             | 505-842-4949  |                 |
| <b><u>Other</u></b>                                            |                             |               |                 |
| Boots & Coots IWC                                              |                             | 800-256-9688  | or 281-931-8884 |
| Cudd Pressure Control                                          |                             | 432-699-0139  | or 432-563-3356 |
| Haliburton                                                     |                             | 575-746-2757  |                 |
| B.J. Services                                                  |                             | 575-746-3569  |                 |

**Charles Ling Fed Com #132H  
H<sub>2</sub>S Contingency Plan:  
2 Mile Radius Map**

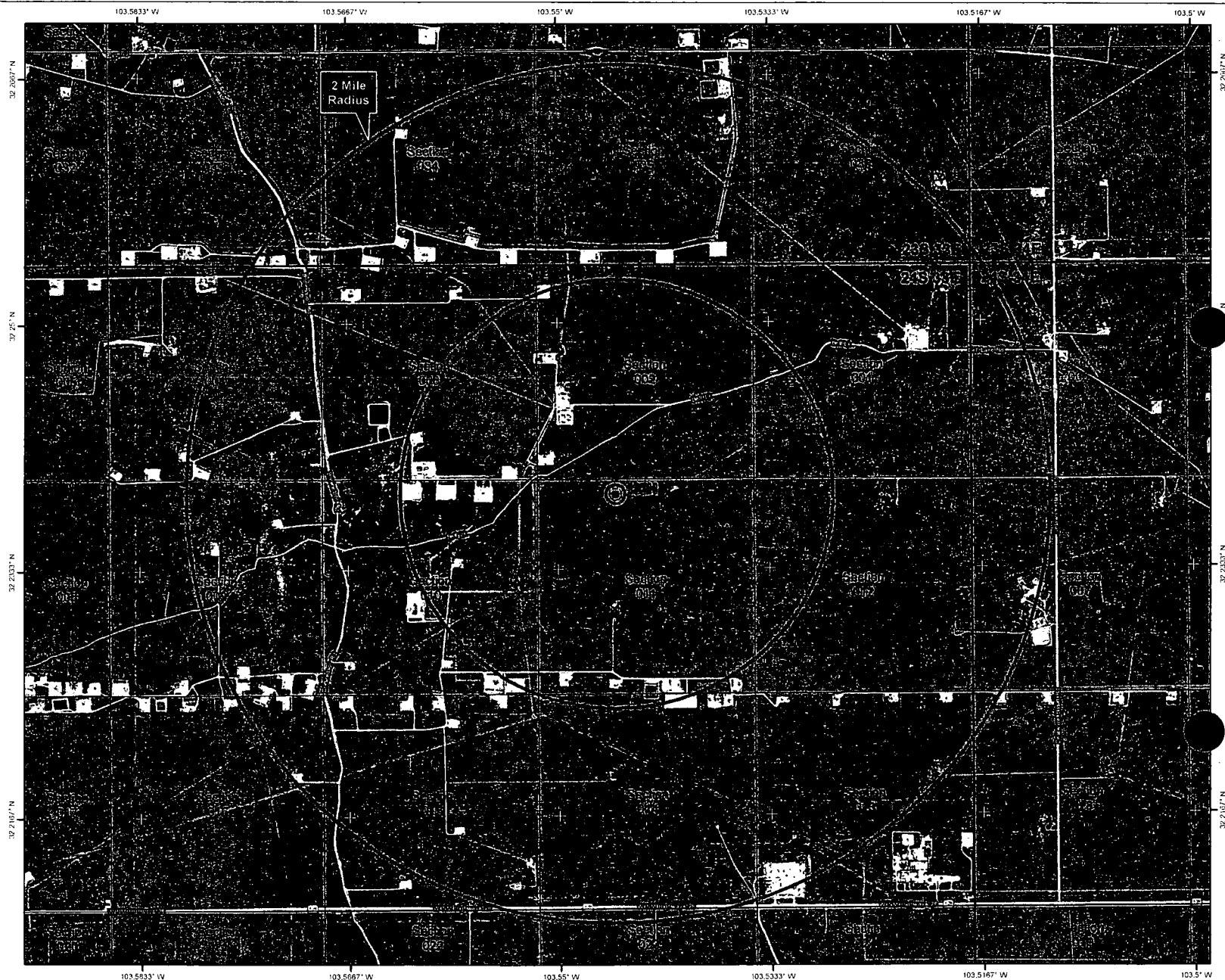
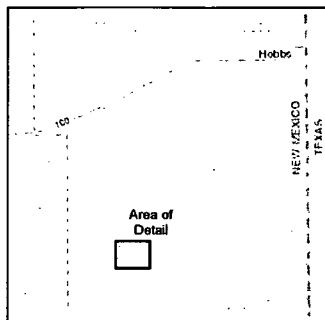
Section 11, T.23S R.33E  
Lea County, New Mexico



NAD 1983 New Mexico State Plane East  
FIPS 3001 Feet



Prepared by Permits West, Inc., May 15, 2018  
for Matador Production Company



**HYDROGEN SULFIDE CONTINGENCY PLAN**  
**Drilling, Testing, & Completion**

**MRC ENERGY CO.**

**Charles Ling Fed Com Slot 2 Wells**

**Reviewers**

----- Operations Manager  
----- Operations Supt.  
----- Staff RES  
----- Field Supv.  
Blake Hermes---Engineering

**Latitude: 32.2383" N**  
**Longitude: 103.5452" W**

**Charles Ling Fed Com #132**  
**SHL 360' FNL & 1905' FWL, Sec. 11**  
**BHL 240' FSL & 1649' FWL, Sec. 11**

**Charles Ling Fed Com #202**  
**SHL 360' FNL & 1875' FWL, Sec. 11**  
**BHL 240' FSL & 2307' FWL, Sec. 11**

**Charles Ling Fed Com #212**  
**SHL 360' FNL & 1845' FWL, Sec. 11**  
**BHL 240' FSL & 1649' FWL, Sec. 11**

**H2S Contingency Plan # 0165**

**Revision# 0**

**This H2S Contingency Plan is subject to updating**

**Effective date: July 8, 2015**

# Rig Diagram

Wind Direction Indicator

H2S Monitors

Briefing Areas

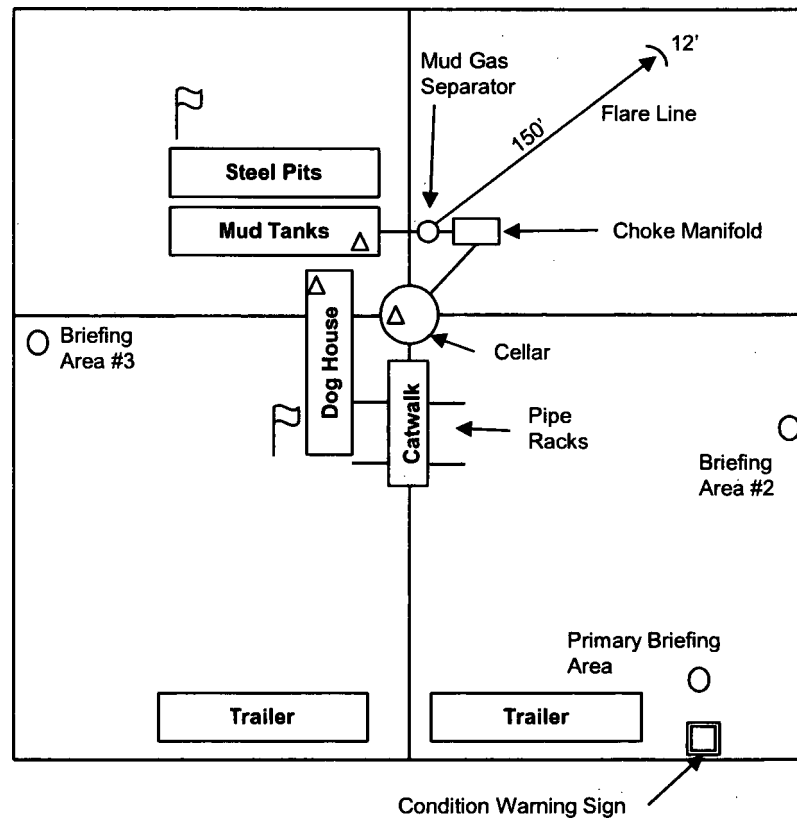


Exhibit E-3: Rig Diagram  
Charles Ling Fed Com  
Slots 1, 2, 3, & 4 Well Pads  
Matador Resources Company  
11-24S-33E  
Lea County, NM



**Figure 3:**  
Drilling Rig Layout



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## **INTRODUCTION**

**The H2S equipment will be rigged up 2 days prior to reaching a potential H2S containing zone. Drilling into any potential H2S zone shall not commence until the on-site MRC Drilling Supervisor has confirmed this plan in place.**

**The onsite Drilling Foreman will give Total Safety one week (7 days) notice to prepare for rig up of H2S equipment)**

To be effective, the plan requires the cooperation and effort of each person participating in the drilling of an H<sub>2</sub>S well. Each person must know his/her responsibilities and all emergency and safety procedures. He/she should thoroughly understand and be able to use with accuracy, all safety equipment while performing his/her normal duties, if the circumstance should arise. He/she should therefore familiarize himself/herself with the location of all safety equipment and check to see that it is properly stored, easily accessible at all times, and routinely maintained.

It is the intention of MRC ENERGY CO. and the Drilling Contractor to make every effort to provide adequate safeguards against harm to persons on the rig and in the immediate vicinity from the effects of hydrogen sulfide, which may be released into the atmosphere under emergency conditions. However, the initiative rests with the individual in utilizing the safeguards provided. The ideas and suggestions of the individuals involved in the drilling of this well are highly welcomed and act as a fundamental tool for providing the safest working conditions possible.

The drilling representative is required to enforce these procedures. They are set up for your safety and the safety of all others.

## **II. PURPOSE**

It is MRC Energy Co.'s intent to provide a safe working place, not only for its employees, but also for other contractors who are aiding in the drilling of this well. The safety of the general public is of utmost concern. All precautions will be taken to keep a safe working environment and protect the public.

There is a possibility of encountering toxic hydrogen sulfide gas. Safety procedures must be adhered to in order to protect all personnel connected with the operations as well as people living within the area.

The MRC Energy Co. representative will enforce all aspects of the H2S Contingency Plan. This job will become easier by a careful study of the following pages and training and informing all personnel that will be working on the well, their duties and responsibilities.

**A. OPERATING PROCEDURES**

**DEFINITIONS:**

**For purpose of this plan, on-site personnel shall be referred to as “In Scope Personnel” or “Out of Scope Personnel”, per the following definitions:**

**In Scope Personnel** – Personnel who will be working or otherwise present in potential H<sub>2</sub>S release areas, including the rig floor, cellar, pits, and shaker areas.

**Out of Scope Personnel** – Personnel who will not be working or Otherwise present in potential H<sub>2</sub>S areas. Such personnel include rig Site visitor, delivery and camp services personnel.

**GENERAL:**

Before this H<sub>2</sub>S contingency plan becomes operational, all regularly assigned In Scope Personnel (primarily the MRC, drilling contractor, and certain service personnel,) shall be thoroughly trained in the use of breathing equipment, emergency procedures, and responsibilities. Total Safety Technician or a designee assigned by the MRC Drilling Foreman shall keep a list of all personnel who have been through the on-site H<sub>2</sub>S training program at the drill site.

All In Scope Personnel shall be given H<sub>2</sub>S training and the steps to be taken during H<sub>2</sub>S conditions under which the well may be drilled. General information will be explained about toxic gases, as well as the physiological effects of H<sub>2</sub>S and the various classified operating conditions. In addition, the reader will be informed his/her general responsibility concerning safety equipment and emergency procedures.

The Total Safety H<sub>2</sub>S Safety Technician or MRC on-site RSE Technician shall make available the H<sub>2</sub>S Contingency Plan for all personnel to review.

Without exception, all personnel that arrive on location must proceed directly to and sign-in with the on-site MRC RSE Technician. In Scope Personnel will be required to complete an on-site H<sub>2</sub>S training and respirator fit testing before starting work, or produce evidence that they have received equivalent training. Out of Scope Personnel will be required to complete a site H<sub>2</sub>S awareness and general safety briefing. This briefing will consist of a H<sub>2</sub>S hazard overview, alarm review and required response to alarms.

**B. PROCEDURES TO BE INITIATED PRIOR TO H<sub>2</sub>S  
CONTINGENCY PLAN COMPLIANCE:**

A list of emergency phone numbers and contacts will be on location and posted at the following locations:

1. MRC ENERGY CO.'S Representative's Office
2. Drilling Contractor's, Toolpusher Office
3. Living Quarters Area

All safety equipment and H<sub>2</sub>S related hardware must be set up as required by MRC Energy Co. with regard to location of briefing areas, breathing equipment, etc. All safety equipment must be inspected periodically (at least weekly) with particular attention to resuscitators and breathing equipment.

In Scope Personnel working in the well site area will be assigned breathing apparatus. Operator and drilling contractor personnel required to work in the following areas will be provided with Self Contained Breathing Apparatus:

1. Rig Floor
2. Mud Pits
3. Derrick
4. Shale Shaker
5. Cellar

The Total Safety H<sub>2</sub>S Safety Technician will be responsible for rigging up all H<sub>2</sub>S continuous monitoring-type detectors. The Total Safety Technician will monitor and bump test the detector units periodically (at least at least once a week to test alarm function during drilling conditions. In the event H<sub>2</sub>S is detected, or when drilling in a zone confirmed to contain H<sub>2</sub>S, the units shall be bump tested at least once every 24 hours. A bump test/calibration log will be kept on location. All results will be reported to the MRC on-site Drilling Foreman.

All Total Safety H<sub>2</sub>S equipment will be maintained and inspected by a Total Safety Technician on at least a Weekly basis.

**C. DRILLING BELOW CONTINGENCY PLAN DEPTH**

H<sub>2</sub>S response drills will be held at least once per week if possible or as often as necessary to acquaint the crews and service company personnel of their responsibilities and the proper procedures to shut-in a well. Initial drills will be performed until crews demonstrate competency donning and working under mask. After the MRC Energy Co.'s representative is satisfied with initial blowout drill procedures, a drill will be conducted weekly with each crew, as necessary. The H<sub>2</sub>S Safety Technician or designee will conduct safety talks and maintain the safety equipment, consult and carry out the instructions of the drilling supervisor. All personnel allowed in the well work area during drilling or testing operations will be instructed in the use of breathing equipment until supervisory personnel are satisfied that they are capable of using it.

After familiarization, each person must perform a drill with breathing equipment. The drill should include getting the breathing equipment, donning the breathing apparatus, and performing expected duties for a short period. A record shall be kept of all personnel drilled and the date of the drill. H<sub>2</sub>S training records will be kept on location for all personnel.

Rig crews and service company personnel shall be made aware of the location of spare air bottles, resuscitation equipment, portable fire extinguishers, H<sub>2</sub>S monitors and detectors. Knowledge of the location of the H<sub>2</sub>S monitors and detectors are vital in determining as our gas location and the severity of the emergency conditions.

After any device has initially detected H<sub>2</sub>S, all areas of poor ventilation shall be inspected periodically by means of a portable H<sub>2</sub>S detector instrument. The buddy system will be utilized. (When an alarm sounds, personnel will don an SCBA, shut the well in, and proceed to SBA for roll call. The H<sub>2</sub>S Technician or designee will mask up, with a buddy and will verify source of H<sub>2</sub>S and report back to the on-site MRC Foreman.)

**D. PROCEDURES PROGRAM**

**1. Drill Site**

- a. The drilling rig will be located to allow prevailing winds to blow across the reserve pit.
- b. A Safe Briefing Area will be provided with a breathing air cascade trailer and or 30-minute SCBA's at the Primary Area. Personnel will assemble at the most up-wind station under alarm conditions, or when so ordered by the MRC Energy Co. representative, the Contractor representative, or

the Total Safety H<sub>2</sub>S Safety Technician. Windssocks or streamers will be anchored to various strategic places on a pole about 10 feet high, so it is in easy view from the rig floor at all times.

- c. Warning signs will be posted on the perimeters. "No Smoking" signs will be posted by MRC Energy Co. as well.
- d. One multi-channel automatic H<sub>2</sub>S monitor will be provided by Total Safety and the detector heads will be at the shale shaker, bell nipple, mud pits, rig floor, and quarter's area. The monitor will be located inside HSE or Company man trailer. Should the alarm be shut off to silence the sirens, the blinker light must continue to warn of H<sub>2</sub>S presence. The Total Safety H<sub>2</sub>S Safety Technician or designee will continuously monitor the detectors and will reactivate the alarm if H<sub>2</sub>S concentrations increase to a dangerous level.
- e. A method of escape will be open at all times.
- f. If available, land line telephone service will be provided or cell phones provided. (Primary communications provided)
- g. A rig communication system will be provided, as needed.
- h. A gas trap, choke manifold, and degasser will be installed.
- i. A kill line, securely anchored and of ample strength, will be laid to the well-head from a safe location. This line is to be used only in an emergency.

#### General

- a. The MRC Energy Co. representative and/or the Contractor's Toolpusher will be available at all times. The drilling supervisor, while on duty, will have complete charge of the rig and location operations and will take whatever action is deemed necessary to insure personnel safety, to protect the well, and to prevent damage.
- b. A Mud Engineer will be on location at all times when drilling takes place at the depth H<sub>2</sub>S may be expected. The mud engineer will be able to verify the presence or absence of H<sub>2</sub>S.

### III. CONDITIONS AND EMERGENCY PROCEDURES

#### A. DEFINITION OF OPERATIONAL "CONDITIONS"

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDITION I</b>  | <b>"POSSIBLE DANGER"</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Warning Flags       | Green                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alarms              | No Alarm. Less than 10 ppm                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Characterized By:   | Drilling operations in zones that may contain hydrogen sulfide. This condition remains in effect unless H <sub>2</sub> S is detected and it becomes necessary to go to Condition II.                                                                                                                                                                                                                                                            |
| General Action:     | <ul style="list-style-type: none"><li>a. Be alert for a condition change</li><li>b. Check all safety equipment for availability and proper functioning.</li><li>c. Perform all drills for familiarization and proficiency.</li></ul>                                                                                                                                                                                                            |
| <b>CONDITION II</b> | <b>"MODERATE DANGER"</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Warning Flags       | Yellow                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alarms:             | Actuates at 10 ppm. Continuous flashing light.                                                                                                                                                                                                                                                                                                                                                                                                  |
| Characterized By:   | Drilling operations in zones containing hydrogen sulfide. This condition will remain in effect until adding chemicals to the mud system neutralizes the hydrogen sulfide or it becomes necessary to go to Condition III.                                                                                                                                                                                                                        |
| General Action:     | <ul style="list-style-type: none"><li>a. Be alert for a condition change</li><li>b. <b>WHEN DRILLING AHEAD -</b><br/>Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.<br/><br/><b>WHEN TRIPPING -</b> Driller and two designated crewmembers will don 30 min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will</li></ul> |

don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.

- c. All In Scope Personnel will proceed directly to the appropriate Safe Briefing Area.
- d. Remain in safe briefing area, take roll call and wait for instructions
- e. Contact the Total H<sub>2</sub>S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H<sub>2</sub>S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases.
- g. All Out of Scope Personnel will report to the appropriate Safe Briefing Area.

### **CONDITION III "EXTREME DANGER"**

Warning Flags

Red

Alarms

Actuate at 15 ppm. Continuous Sirens and Flashing Lights

Characterized by:

Critical well operations which pose an immediate threat of H<sub>2</sub>S exposure to on-site personnel and a potential threat to the public.

General Action:

- a. **WHEN DRILLING AHEAD -**  
Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.

**WHEN TRIPPING –** Driller and two designated crewmembers will don 30

min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.

- b. All In Scope Personnel should don SCBA if nearby and immediately proceed to Safe Briefing Area. If SCBA is not nearby at time of alarm, DO NOT GO TOWARDS RIG AREA, but proceed directly to the Safe Briefing Area
- c. All out of Scope Personnel shall evacuate the location.
- d. Remain in the Safe Briefing Area, take roll call and wait for instructions.
- e. Contact the Total H<sub>2</sub>S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H<sub>2</sub>S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases. Use the buddy system.
- g. Remain in safe briefing area, take roll call and wait for instructions.
- h. A cascade breathing air system shall be mobilized and utilized to conduct any additional on rig work required to correct the H<sub>2</sub>S release condition.
- i. If well is ignited do not assume area is safe. SO<sub>2</sub> is hazardous and not all H<sub>2</sub>S will burn.

## **H<sub>2</sub>S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL**

### **A. Day To Day Drilling Operations**

1. Upon discovering a release of H<sub>2</sub>S gas in the ambient air by warning alarms or in any other way **Do Not Panic**.
2. Hold your breath donning the nearest Self Contained Breathing Apparatus and rapidly move up or across-wind away from the areas where H<sub>2</sub>S sensing devices are in place, to the closest available safe briefing area. Continue to use breathing apparatus until it has been determined that the exposure of H<sub>2</sub>S gas in the ambient air no longer exists. **Do Not Panic!**
3. Utilize the "Buddy System", i.e.; select and pair up each person participating in the drilling of an H<sub>2</sub>S well prior to an emergency situation.
4. Help anyone who is overcome or affected by the H<sub>2</sub>S gas by taking him/her up-wind out of the contaminated area. (This should be done utilizing an SCBA and with a buddy.)
5. Take necessary steps to confirm the release of the H<sub>2</sub>S gas into the ambient air.
  - When an H<sub>2</sub>S alarm activates, two designated personnel using the buddy system, while wearing their self contained breathing apparatus, will determine by the read-out on the fixed monitor which sensing device has detected the release of the H<sub>2</sub>S gas.
  - They will utilize the hand-held sniffer type device at the particular sensing point disclosed on the fixed monitor to corroborate the fact that H<sub>2</sub>S gas has actually been released. This will rule out the possibility of a false alarm. This will be done with a buddy and under mask after reporting to the Safe Briefing Area for roll call and instructions by on-site MRC Foreman.
6. Refer to the Emergency Phone Numbers and call emergency personnel.
7. Take the necessary steps to suppress the release of H<sub>2</sub>S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H<sub>2</sub>S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gas-monitoring activities with the portable hand-operated H<sub>2</sub>S and gas detector units.

**Do Not Panic!**

The MRC Energy Co. representative will assess the situation and with assistance of the Contractor's Representative and Total Safety's H<sub>2</sub>S Safety Technician or on site designee, will assign duties to each person to bring the situation under control.

**B. RESPONSIBILITIES OF WELL-SITE PERSONNEL**

In the event of a release of potentially hazardous amounts of H<sub>2</sub>S, all personnel will immediately don their protective breathing apparatus, the well will be shut in and personnel will proceed upwind to the nearest designated safe briefing area for roll call and instructions by MRC Foreman. Consideration will be given to evacuating Out of Scope Personnel, as situation warrants.

**1. MRC ENERGY CO.'S Well-site Representatives**

- a. If MRC Energy Co.'s well-site representative is incapacitated or not on location, this responsibility will fall to the Toolpusher/Driller.
- b. Immediately upon assessing the situation, set this plan into Action by initiating the proper procedures to contain the gas and notify the appropriate people and agencies.
- c. Ensure that the alarm area indicated by the fixed H<sub>2</sub>S Monitor is checked and verified with a portable H<sub>2</sub>S detector. (Safety Technician if on location or MRC assigned designee with a buddy utilizing SCBA's)
- d. Consult Pusher/driller of remedial actions as needed.
- e. Ensure that non-essential personnel proceed to the safe briefing area.
- f. Ensure location entrance barricades are positioned. Keep the number of persons on location to a minimum during hazardous operations.

- g. Consult each contractor, Service Company and all others allowed to enter the site, that H<sub>2</sub>S gas may be encountered and the potential hazards that may exist.
- h. Authorize the evacuation of local residents if H<sub>2</sub>S threatens Their safety.
- i. Non essential personnel should be evacuated from location if Situation warrants.

## **2. Toolpusher**

- a. Toolpusher/Driller will assume responsibilities of MRC Energy Co.'s well-site representative if that person is incapacitated or not on location.
- b. Ensure that the alarm area indicated by the fixed H<sub>2</sub>S monitor is checked and verified with a portable H<sub>2</sub>S gas detector. (Alarm area indicated by the monitor will be Checked by the H<sub>2</sub>S Technician and a buddy, under mask.) This will be done after checking in and roll call at the Upwind Safe Briefing Area.
- c. Confer with MRC Energy Co.'s well-site representative or superintendent and direct remedial action to suppress the H<sub>2</sub>S and control the well.
- d. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- e. Ensure that personnel at the drill floor area are instructed on emergency actions required.
- f. Ensure that all personnel observe the appropriate safety and emergency procedures.
- g. Ensure that all persons are accounted for and provided emergency assistance as necessary.

**3. Mud Engineer**

- a. Run a sulfide check on the flowline mud.
- b. Take steps to determine the source of the H<sub>2</sub>S and suppress it. Lime and H<sub>2</sub>S scavenger shall be added to the mud as necessary.

**4. Total H<sub>2</sub>S Safety Technician, if on location, or MRC Designee**

- a. H<sub>2</sub>S Safety Technician or designee don nearest SCBA and report to Safe Briefing Area for roll call, take a buddy masked up and check monitor and verify with a portable H<sub>2</sub>S detector the alarm area indicated by the fixed H<sub>2</sub>S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.
- b. If H<sub>2</sub>S is flared, check for sulfur dioxide (SO<sub>2</sub>) near the flare as necessary. Take hourly readings at different perimeters, log readings and record on location.
- c. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- d. Ensure that the appropriate warning flags are displayed.
- e. Ensure that all personnel are in S.C.B.A. as necessary.
- f. Ensure that all persons are accounted for and provide emergency assistance as necessary.
- g. Be prepared to evacuate rig if order is issued.

**5. General Personnel & Visitors**

- a. All In Scope Personnel, if not specifically designated to shut the well in or control the well, shall proceed to the (upwind) safe briefing area. All Out of Scope Personnel shall immediately proceed to the appropriate (upwind) safe briefing area or evacuate the site as conditions warrant.

- b. During any emergency, use the "buddy" system to prevent anyone from entering or being left in a gas area alone, even wearing breathing apparatus.
- c. Provide assistance to anyone who may be injured or overcome by toxic gases. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering a potentially H<sub>2</sub>S contaminated area.
- d. Remain in safe briefing area and wait for instructions.

### **C. INSTRUCTIONS FOR IGNITING THE WELL**

- 1. The Toolpusher/Driller will confer with MRC Energy Co.'s well-site representative who will secure the approval of the "Texas Wells Delivery Manager, prior to igniting the well, if at all possible.

The Toolpusher/Driller will be responsible for igniting the well in the event of severe well control problems. This decision should be made only as a last resort in situations where it is clear that:

- a. Human life and property are endangered, or
  - b. There is no hope of controlling the well under current conditions.
- 2. Once the decision has been made, the following procedures should be followed:
    - a. Two people wearing self-contained breathing apparatus will be needed for the actual lighting of the well. They must first establish the flammable perimeter by using an explosimeter. This should be established at 30% to 40% of the lower flammable limits.
    - b. After the flammable perimeter has been established and everyone removed from the area, the ignition team should select a site upwind of the well from which to ignite the well. This site should offer the maximum protection and have a clear path for retreat from the area.

- c. The ignition team should have safety belts and lifeline attached and manned before attempting ignition. If the leak is not ignited on the first attempt, move in 20 to 30 feet and fire again. Continue to monitor with the explosimeter and NEVER fire from an area with over 75% of the Lower Explosive Limit (LEL). If having trouble igniting the well, try firing 40 degrees to 90 degrees on either side of the well.
- d. If ignition is not possible due to the makeup of the gas, the toxic perimeter must be established and evacuation continued until the well is contained.
- e. All personnel must act only as directed by the person in charge of the operations.

NOTE: After the well is ignited, burning hydrogen sulfide ( $H_2S$ ) will convert to sulfur dioxide ( $SO_2$ ), which is also a highly toxic gas.

**DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED**

#### **D. CORING PROCEDURES**

Only essential personnel shall be on the rig floor. Ten (10) stands prior to retrieving core barrel; all personnel on drill floor and in derrick shall confirm self-Contained breathing apparatus available and ready for use.

A Total H<sub>2</sub>S Technician will don a SCBA with a buddy assigned from the rig crew, and continuously monitor for H<sub>2</sub>S at each connection. Any levels detected will require operations to be shut down and all involved personnel to don SCBAs. Precautions will remain in place until barrel is laid down.

All involved personnel will don SCBAs when removing the inner barrel from the outer barrel. SCBAs can be removed once the absence of H<sub>2</sub>S is confirmed by the Total H<sub>2</sub>S Technician.

Cores will be appropriately marked and sealed for transportation.

## **Normal Operations**

### **1. Responsibilities of well-site personnel**

#### **a. Well-site Representative**

1. Notify H<sub>2</sub>S Technician of expected date to reach Contingency Plan implementation depth (Two (2) days prior to reaching suspected H<sub>2</sub>S bearing zone) or prior to starting well work.
2. Ensure H<sub>2</sub>S Safety Technician completes rig-up procedures prior to reaching Contingency Plan effective depth.
3. Restrict the number of personnel at the drilling rig or well site to a minimum while drilling, starting well work, testing or coring.
4. Ensure weekly H<sub>2</sub>S drills/training are performed, if possible.

#### **B. Toolpusher**

1. Ensure that necessary H<sub>2</sub>S safety equipment is provided on the rig, and that it is properly inspected and maintained.
2. Ensure that all personnel that work in the well area, are thoroughly trained in the use of H<sub>2</sub>S safety equipment and periodic drills are held to maintain an adequate level of proficiency.

#### **C. In Scope Personnel**

1. Remain clean-shaven. Beards and long sideburns do not allow a proper facepiece seal.
2. Receive H<sub>2</sub>S safety training on location, or confirm prior training by certification that is one year within date.
3. Familiarize yourself with the rig's Contingency Plan.
4. Inspect and practice putting on your breathing apparatus.

5. Know the location of the "safe briefing areas".
6. Keep yourself "wind conscious". Be prepared to quickly move upwind and away in the event of any emergency involving release of H<sub>2</sub>S.

**D. Total Safety H<sub>2</sub>S Safety Technician or MRC Designee**

1. Conduct training as necessary to ensure all personnel working in well area are familiar with the contingency procedures and the operation of emergency equipment.
2. Check all H<sub>2</sub>S safety equipment to ensure that it is ready for emergency use:
  - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hip-packs) to make sure they are charged to full volume.
  - Check pressure on cascade air bottles, if on location, to see that they are capable of recharging breathing apparatus.
  - Check oxygen resuscitator, if on location, to ensure that it is charged to full volume.
  - Check H<sub>2</sub>S detectors weekly for each shift (fixed and portable), and explosimeter, to ensure they are working properly.
3. Provide a weekly report to MRC Energy Co.'s well-site representative documenting:
  - Calibrations performed on H<sub>2</sub>S detectors.
  - Proper location and working order of H<sub>2</sub>S safety equipment.
  - Attendance of all personnel, trained or retrained, and their company.
  - Weekly drills, if held and a list of personnel participating and summary of actions.

**OUT OF SCOPE PERSONNEL**

MRC Energy Co. policy will not require Out of Scope Personnel to be clean shaven, have processed medical questionnaires, fit testing, or have certified H2S Training.

## **SAFETY EQUIPMENT**

**All respirators will be designed, selected, used and maintained in conformance with ANSI Z88.2, American National Standard for respiratory protection.**

Personal protective equipment must be provided and used. Those who are expected to use respiratory equipment in case of an emergency will be carefully instructed in the proper use and told why the equipment is being used. Careful attention will be given to the minute details in order to avoid possible misuse of the equipment during periods of extreme stress.

Self-contained breathing apparatus provides complete respiratory and eye protection in any concentration of toxic gases and under any condition of oxygen deficiency. The wearer is independent of the surrounding atmosphere because he/she is breathing with a system admitting no outside air. It consists of a full face mask, breathing tube, pressure demand regulator, air supply cylinder, and harness. Pure breathing air from the supply cylinder flows to the mask automatically through the pressure demand regulator which reduces the pressure to a breathing level. Upon inhalation, air flows into the mask at a rate precisely regulated to the user's demand. Upon exhalation, the flow to the mask stops and the exhaled breath passes through a valve in the face piece to the surrounding atmosphere. The apparatus includes an alarm & gauge which warns the wearer to leave the contaminated area for a new cylinder of air or cylinder refill.

The derrickman is provided with a full face piece unit attached to a 5-minute escape cylinder. He will also have his own self-contained 30-minute unit breathing apparatus located on the drilling floor. He will use the 5-minute unit to exit the derrick to the floor, donning the 30-minute unit located on the floor, if needed.

All respiratory protective equipment, when not in use, should be stored in a clean, cool, dry place, and out of direct sunlight to retard the deterioration of rubber parts. After each use, the mask assembly will be scrubbed with soap and water, rinsed thoroughly, and dried. Air cylinders can be recharged to a full condition from a cascade system.

Personnel in each crew will be trained in the proper techniques of bottle filling.

The primary piece of equipment to be utilized, should anyone be overcome by hydrogen sulfide, is the oxygen resuscitator, if on location.

When asphyxiation occurs, the victim must be moved to fresh air and immediately given artificial respiration. In order to assure readiness, the bottles of oxygen will be checked at regular intervals and an extra tank kept on hand.

Hand-operated pump-type detectors incorporating detector tubes will give more accurate readings of hydrogen sulfide. The pump-type draws air to be tested through the detector tube containing lead acetate-silica gel granules. Presence of hydrogen sulfide in the air sample is shown by the development of a dark brown stain on the granules, which is the

scale reading of the concentration of hydrogen sulfide. By changing the type of detector tube used, this detector may also be used for sulfur dioxide (SO<sub>2</sub>) detection when hydrogen sulfide (H<sub>2</sub>S) is being burned in the flare area.

Provisions must be made for the storage of all safety equipment as is evident from the foregoing discussion. All equipment must be stored in an available location so that anyone engaged in normal work situations is no more than "one breath away" from a mask.

## V – TOXICITY OF VARIOUS GASES

| <b>Lethal<br/>Common Name<br/>ppm<sup>4</sup></b>                                                              | <b>Chemical<br/>Formula</b> | <b>Specific<br/>Gravity<sup>1</sup></b> | <b>PEL (OSHA)<sup>2</sup></b> | <b>STEL<sup>3</sup></b> |
|----------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|-------------------------------|-------------------------|
| Hydrogen Cyanide<br>300                                                                                        | HCN                         | 0.94                                    | 10                            | 150                     |
| Hydrogen Sulfide<br>600                                                                                        | H <sub>2</sub> S            | 1.18                                    | 20                            | Peak- 50ppm             |
| Note: The ACGIH(7) recommends a TWA(6) value of 10ppm as the TLV(5) for H <sub>2</sub> S and an STEL of 15ppm. |                             |                                         |                               |                         |
| Sulfur Dioxide<br>1000                                                                                         | SO <sub>2</sub>             | 2.21                                    | 2                             | 5 ppm                   |
| Chlorine                                                                                                       | CL <sub>2</sub>             | 2.45                                    | 1                             |                         |
| Carbon Monoxide<br>1000                                                                                        | CO                          | 0.97                                    | 35                            | 200/1 Hour              |
| Carbon Dioxide<br>10%                                                                                          | CO <sub>2</sub>             | 1.52                                    | 5000                          | 5%                      |
| Methane                                                                                                        | CH <sub>4</sub>             | 0.55                                    | 90000                         |                         |

<sup>1</sup> Air = 1.0

<sup>2</sup> **Permissible** - Concentration at which is believed that all workers may repeatedly be exposed, day after day, without adverse effect.

<sup>3</sup> **STEL** - Short Term Exposure Limit. A 15-minute time weighted average.

<sup>4</sup> **Lethal** - Concentration that will cause death with short-term exposure.

**TLV** – Threshold Limit Value; a concentration recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

**TWA** – Time Weighted Average; the average concentration of contaminant one can be exposed to over a given eight-hour period.

**ACGIH** – (American Conference of Governmental Industrial Hygienists) is an organization comprised of Occupational Health Professionals believed by many to be the top experts in the field of Industrial Hygiene. They are recognized as an expert resource by OSHA. The ACGIH releases a bi-annual publication "Threshold Limit Values and Biological Indices" that many safety professionals consider to be the authoritative document on airborne contaminants.

Reference: API RP-49, September 1974 - Reissued August 1978

## VI. PROPERTIES OF GASES

### A. CARBON DIOXIDE

1. Carbon Dioxide (CO<sub>2</sub>) is usually considered inert and is commonly used to extinguish fires. It is 1.52 times heavier than air and will concentrate in low areas of still air. Humans cannot breathe air containing more than 10% CO<sub>2</sub> without losing conscience or becoming disorientation in a few minutes. Continued exposure to CO<sub>2</sub> after being affected will cause convulsions, coma, and respiratory failure.
2. The threshold limit of CO<sub>2</sub> is 5000 ppm. Short-term exposure to 50,000 ppm (5%) is reasonable. This gas is colorless, odorless, and can be tolerated in relatively high concentrations.

### B. HYDROGEN SULFIDE

1. Hydrogen Sulfide (H<sub>2</sub>S) is a colorless, transparent, flammable gas. It is heavier than air and, hence, may accumulate in low places.
2. Although the slightest presence of H<sub>2</sub>S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of H<sub>2</sub>S.

| CONCENTRATION      |      |                         | EFFECTS                                                                           |
|--------------------|------|-------------------------|-----------------------------------------------------------------------------------|
| % H <sub>2</sub> S | PPM  | GR/100 SCF <sup>1</sup> |                                                                                   |
| 0.001              | 10   | .65                     | Safe for 8 hours without respirator. Obvious and unpleasant odor.                 |
| 0.0015             | 15   | 0.975                   | Safe for 15 minutes of exposure without respirator.                               |
| 0.01               | 100  | 6.48                    | Kills smell in 3-15 minutes; may sting eyes and throat.                           |
| 0.02               | 200  | 12.96                   | Kills smell quickly; stings eyes and throat.                                      |
| 0.05               | 500  | 32.96                   | Dizziness; breathing ceases in a few minutes; need prompt artificial respiration. |
| 0.07               | 700  | 45.92                   | Rapid Unconsciousness; death will result if not rescued promptly.                 |
| 0.1                | 1000 | 64.80                   | Instant unconsciousness, followed by death within minutes.                        |

<sup>1</sup> Grains per 100 Cubic Feet**VII. Treatment Procedures for Hydrogen Sulfide Poisoning**

- A. Remove the victim to fresh air.
- B. If breathing has ceased or is labored, begin resuscitation immediately.  
Note: This is the quickest and preferred method of clearing victim's lungs of contaminated air; however, under disaster conditions, it may not be practical to move the victim to fresh air. In such instances, where those rendering first aid must continue to wear masks, a resuscitator should be used.
- C. Apply resuscitator to help purge H<sub>2</sub>S from the blood stream.
- D. Keep the victim at rest and prevent chilling.
- E. Get victim under physician's care as soon as possible.

**C. SULPHUR DIOXIDE**

- 1. Sulfur Dioxide (SO<sub>2</sub>) is a colorless, non-flammable, transparent gas.
- 2. SO<sub>2</sub> is produced during the burning of H<sub>2</sub>S. Although SO<sub>2</sub> is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO<sub>2</sub> is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of SO<sub>2</sub>:

| CONCENTRATION     |        | EFFECTS                                                                               |
|-------------------|--------|---------------------------------------------------------------------------------------|
| % SO <sub>2</sub> | PPM    |                                                                                       |
| 0.0005            | 3 to 5 | Pungent odor, normally a person can detect SO <sub>2</sub> in this range.             |
| 0.0012            | 12     | Throat irritation, coughing, constriction of the chest, tearing and smarting of eyes. |
| 0.015             | 150    | So irritating that it can only be endured for a few minutes.                          |
| .05               | 500    | Causes a sense of suffocation, event with the                                         |

|  |  |               |
|--|--|---------------|
|  |  | first breath. |
|--|--|---------------|

### **VIII. BREATHING AIR EQUIPMENT DRILLS FOR ON & OFF DUTY PERSONNEL**

**An H<sub>2</sub>S Drill and Training Session must be given once a week to ALL on-duty personnel with off duty personnel. On-duty and Off-duty personnel will reverse roles on alternate drills.**

**An H<sub>2</sub>S drill and training session must be given once a week to all off-duty personnel in coincidence with on-duty personnel reversing roles on alternate drills.**

The purpose of this drill is to instruct the crews in the operation and use of breathing air and H<sub>2</sub>S related emergency equipment and to allow the personnel to become acquainted with using the equipment under working conditions. The crews should be trained to put on the breathing air equipment within one minute when required or requested to do so.

The following procedure should be used for weekly drills. The MRC supervisor must be satisfied that the crews are proficient with the equipment.

1. All personnel should be informed that a drill will be held.
2. The Total H<sub>2</sub>S Safety Technician or a designee assigned by the MRC Drilling Foreman should initiate the drill by signaling as he/she would if H<sub>2</sub>S was detected.
3. Personnel should don their breathing apparatus.
4. Once the breathing air equipment is on, the H<sub>2</sub>S Technician should check all personnel to insure proper operation.

A training and information session will be conducted after each drill to answer any H<sub>2</sub>S related questions and to cover any gaps identified from one of the following topics:

- Condition II, and III alerts and steps to be taken by all personnel.
- The importance of wind direction when dealing with H<sub>2</sub>S.
- Proper use and storage of all types of breathing equipment.
- Proper use and storage of oxygen resuscitators.
- Proper use and storage of H<sub>2</sub>S detectors (Mini Checks or equivalent).
- The "buddy system" and the procedure for rescuing a person overcome by H<sub>2</sub>S.
- Responsibilities and duties.
- Location of H<sub>2</sub>S safety equipment.
- Other parts of the "H<sub>2</sub>S Contingency Plan" that should be reviewed.

NOTE: A record of attendance must be kept for weekly drills and training sessions.

## **IX. HYDROGEN SULFIDE TRAINING CURRICULUM**

(FOR EMPLOYERS, VISITORS, AND CONTRACTORS)

EACH PERSON WILL BE INFORMED ON THE RESTRICTIONS OF HAVING BEARDS AND CONTACT LENS. THEY WILL ALSO BE INFORMED OF THE AVAILABILITY OF SPECTACLE KITS.

AFTER THE H2S EQUIPMENT IS RIGGED UP, ALL IN SCOPE PERSONNEL WILL BE H2S TRAINED AND PUT THROUGH A DRILL. ANY DEFICIENCIES WILL BE CORRECTED.

Training Completion cards are good for one year and will indicate date of completion or expiration. Personnel previously trained on another facility and visiting, must attend a "supplemental briefing" on H2S equipment and procedures before beginning duty. Visitors who remain on the location more than 24 hours must receive full H2S training given all crew members. A "supplemental briefing" will include but not be limited to: Location of respirators, familiarization with safe briefing areas, alarms with instruction on responsibilities in the event of a release and hazards of H2S and (SO2, if applicable). A training and drill log will be kept.

Topics for full H2S training shall include the following equipment if on location, but not be limited to the following:

1. **Brief Introduction on H2S**
  - A. Slide or Computer presentation (If Available)
  - B. H2S material will be distributed
  - C. Re-emphasize the properties, toxicity, and hazards of H2S
  - D. Source of SO2 (if applicable)
2. **H2S Detection**
  - A. Description of H2S sensors
  - B. Description of warning system (how it works & it's location)
  - C. Actual location of H2S sensors
  - D. Instruction on use of pump type detector (Gastec)
  - E. Use of card detectors, ampoules, or dosimeters
  - F. Use of combustible gas detector
  - G. Other personnel detectors used
  - H. Alarm conditions I & II,
  - I. SO2 alarms (if applicable)

3. **H2S Protection**
  - A. Types of breathing apparatus provided (30-minute SCBA & 5-minute SCBA (with voice diaphragms for communication if supplied)
  - B. Principle of how breathing apparatus works
  - C. Demonstration on how to use breathing apparatus
  - D. Location of breathing apparatus
4. **Cascade System**
  - A. Description of cascade system
  - B. How system works
  - C. Cascade location of rig with reference to briefing areas
  - D. How to use cascade system (with 5-minute hose work line units & refill, if supplied)
  - E. Importance of wind direction and actual location of Windssocks
  - F. Purpose of compressor/function (if one is on site)
5. **H2S Rescue and First Aid**
  - A. Importance of wind direction
  - B. Safe briefing area
  - C. Buddy system
  - D. H2S symptoms
  - E. Methods of rescue
6. **Hands on Training**
  - A. Donning/familiarization of SCBA 30-minute unit
  - B. Donning/familiarization of SKADA 5- MIN. Packs
  - C. Familiarization of cascades
  - D. Use of O2 resuscitator
  - E. Alarm conditions - upwind briefing areas, etc...
  - F. Duties and responsibilities of all personnel
  - G. Procedures for evacuation
  - H. Search and Rescue teams
7. **Certification**
  - A. Testing on material covered

## TOTAL SAFETY US INC., FIT TEST

### *X. EMPLOYEE INFORMATION*

Employee Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date of Employee Medical Evaluation: \_\_\_\_\_

Medical Status (circle):      Unrestricted      Limitations on Use      Use Not  
Authorized

### RESPIRATOR INFORMATION

Respirator Type (Dustmask, SCBA, etc): \_\_\_\_\_

Brand: \_\_\_\_\_

Size: (circle):      XS      S      M      L      XL

### FIT TEST INFORMATION

Type of Fit Test Performed:

**Quantitative**

Porta Count

Fittester 3000

Fit Factor: \_\_\_\_\_

Fit Factor: \_\_\_\_\_

**Qualitative**

Irritant Smoke

Isoamyl Acetate (Banana Oil)

Saccharin

Bitrex

Passed / Failed

Passed / Failed

Passed / Failed

Passed / Failed

I hereby certify that this fittest was conducted in accordance with the OSHA Fit Testing Protocols found in Appendix A of 1910.134.

Fit Tester Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## **XI. H<sub>2</sub>S SAFETY SERVICES**

**HYDROGEN SULFIDE SAFETY PACKAGE** – Contained on location in Total Safety H<sub>2</sub>S Equipment Trailer, unless otherwise noted:

### **RESPIRATORY SAFETY SYSTEMS**

#### **QTY DESCRIPTION**

- |    |                                                                                                                                             |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | 30-Minute Pressure Demand SCBA<br>(4-Primary Safe Briefing Area, 4-Secondary Safe Briefing Area, 4-floor with one of these for derrick man) |
| 9  | Hose Line 5-minute Work Unit w/EscapE Cylinder (1 in derrick, 6 on drill floor, 1 in mud pit wt area, 1 in shaker area)                     |

The following shall be part of the package if requested by the MRC Foremen (at least one trailer with cascade system is required to be located in the MRC Magnolia asset for use as needed)

- |     |                                                                       |
|-----|-----------------------------------------------------------------------|
| 1   | Breathing air cascade of 10 bottles w/regulator                       |
| 2   | Refill lines to refill 30-minute units on location                    |
| 1   | 6-Man manifold that can be rigged up to work area on floor, if needed |
| 6   | 25 foot hose lines                                                    |
| 2   | 50 foot hose lines                                                    |
| 100 | Feet of hose line to rig cascade up to 12 man manifold on floor       |
| 12  | 30-minute Self Contained Breathing apparatus                          |

### **DETECTION AND ALARM SAFETY SYSTEM**

- |   |                                                                                                                                                                           |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | H <sub>2</sub> S Fixed Monitor w/8Channels (Loc determined at rig up) suggested.<br>(Mud pit area, shaker area, bell nipple area, floor/driller area, & outside quarters) |
| 5 | H <sub>2</sub> S Sensors                                                                                                                                                  |
| 3 | Explosion Proof Alarms (Light and Siren)<br>(1 on floor, 1 in work area, 1 in trailer area where quarters are located)                                                    |
| 2 | Personal H <sub>2</sub> S monitors                                                                                                                                        |
| 1 | Portable Tri-Gas Hand Held Meter (O <sub>2</sub> , LEL, H <sub>2</sub> S)                                                                                                 |
| 1 | Sensidyne/Gastech Manual Pump Type Detector                                                                                                                               |
| 8 | Boxes H <sub>2</sub> S Tubes Various Ranges                                                                                                                               |
| 2 | Boxes SO <sub>2</sub> Tubes Various Ranges                                                                                                                                |
| 1 | Calibration Gas                                                                                                                                                           |
| 1 | Set Paper Work for Records: Training, Cal, Inspection, other                                                                                                              |

**ADDITIONAL SAFETY RELATED EQUIPMENT**

**QTY DESCRIPTION**

- |   |                                                            |
|---|------------------------------------------------------------|
| 2 | Windssocks with Pole and Bracket                           |
| 1 | Set Well Condition Sign w/Green, Yellow, Red Flags         |
| 1 | Primary Safe Briefing Area Sign                            |
| 1 | Secondary Safe Briefing Area Sign                          |
| 6 | Operating Condition Signs for Work Areas & Living Quarters |

**TRAILER WITH BREATHING AIR CASCADE WILL  
ALSO INCLUDE THE FOLLOWING:**

This equipment will be part of the H2S equipment stored in the trailer, when on location

- |   |                                   |
|---|-----------------------------------|
| 1 | First aid kit                     |
| 1 | Fire Blanket                      |
| 1 | Eye wash station                  |
| 2 | Safety Harness w/150' safety line |

**XII. EMERGENCY PHONE NUMBERS (Updated March 18, 2009)****EMERGENCY PHONE NUMBERS**

MRC Energy Co. Emergency Phone #

MRC Energy Co. Permian Operations Phone-----

**MRC Energy Co. Production**

113 Daw Rd

Mansfield LA 71052

| <b>Title</b>          | <b>Names</b> | <b>Phone</b> | <b>Cell</b> |
|-----------------------|--------------|--------------|-------------|
| Operations Manager    |              |              |             |
| Operation Supt.       |              |              |             |
| Operations Supervisor |              |              |             |
| Operations Supervisor |              |              |             |
| Office Supervisor     |              |              |             |
| HSE                   |              |              |             |
| Scheduler Planner     |              |              |             |

**Hydrogen Sulfide Safety Consultants**

|                                           |              |                                                             |
|-------------------------------------------|--------------|-------------------------------------------------------------|
| Total Safety W. Bender<br>Blvd. Hobbs, NM | 575-392-2973 | After Hours 24 Hour Call<br>Center Through Office<br>Number |
| Tommy Throckmorton<br>Operations Manager  | 575-392-2973 | 940-268-9614                                                |
| Rodney Jourdan Sales<br>Contact           | 575-392-2973 | 432-349-3928                                                |

**MRC Energy Co. MEDICAL RESPONSE PLAN AND IT'S MEDICAL PROTOCOLS WILL BE FOLLOWED**

**MEDICAL COORDINATOR # -----**

Emergency Numbers & Directions

**Hospitals (911)**

|                                                                                       |                          |                     |
|---------------------------------------------------------------------------------------|--------------------------|---------------------|
| <b>Artesia General Hospital<br/>702 N. 13<sup>th</sup> St.<br/>Artesia, NM 88210</b>  | <b>Main Phone Number</b> | <b>575-748-3333</b> |
| <b>Nor-Lea General Hospital<br/>1600 N. Main Ave.<br/>Lovington, NM 88260</b>         | <b>Main Phone Number</b> | <b>575-396-6611</b> |
| <b>Lea Regional Medical<br/>Center<br/>5419 N. Lovington Hwy<br/>Hobbs, NM 88240</b>  | <b>Main Phone Number</b> | <b>575-492-5260</b> |
| <b>Carlsbad General Hospital<br/>2430 W. Pierce St.<br/>Carlsbad, NM</b>              | <b>Main Phone Number</b> | <b>575-887-4100</b> |
| <b>Lovelace Regional Hospital<br/>117 E. 19<sup>th</sup> St<br/>Roswell, NM 88201</b> | <b>Main Phone Number</b> | <b>575-627-7000</b> |
| <b>Winkler Co. Memorial<br/>Hospital<br/>821 Jeffee Dr.<br/>Kermit, Texas 79745</b>   | <b>Main Phone Number</b> | <b>432-586-8299</b> |
| <b>Reeves County Hospital<br/>2323 Texas St.<br/>Pecos, Texas 79772</b>               | <b>Main Phone Number</b> | <b>432-447-3551</b> |

**State Police (911)**

|                                                                              |                      |                     |
|------------------------------------------------------------------------------|----------------------|---------------------|
| <b>Texas DPS Loving co.<br/>225 N.Pecos<br/>Mentone, Texas 79754</b>         | <b>Office Number</b> | <b>432-377-2411</b> |
| <b>Texas DPS Winkler Co.<br/>100 E Winkler<br/>Kermit, Texas 79745</b>       | <b>Office Number</b> | <b>432-586-3465</b> |
| <b>Texas DPS Pecos Co.<br/>148 N I-20 Frontage RD<br/>Pecos, Texas 79772</b> | <b>Office Number</b> | <b>432-447-3532</b> |
| <b>New Mexico State Police<br/>3300 W. Main St<br/>Artesia, NM</b>           | <b>Office Number</b> | <b>575-748-9718</b> |
| <b>New Mexico State Police<br/>304 N. Canyon St<br/>Carlsbad, NM 88220</b>   | <b>Office Number</b> | <b>575-885-3137</b> |
| <b>New Mexico State Police<br/>5100 Jack Gomez Blvd.<br/>Hobbs, NM 88240</b> | <b>Office Number</b> | <b>575-392-5588</b> |

**Local Law Enforcement (911) (Sheriff)**

|                                                                           |                      |                     |
|---------------------------------------------------------------------------|----------------------|---------------------|
| <b>Reeves Co. Sheriff<br/>500 N. Oak ST<br/>Pecos, Texas 79722</b>        | <b>Office Number</b> | <b>432-445-4901</b> |
| <b>Winkler Co. Sheriff<br/>1300 Bellaire St.<br/>Kermit, Texas 79745</b>  | <b>Office Number</b> | <b>432-586-3461</b> |
| <b>Loving Co. Sheriff<br/>Courthouse<br/>Mentone, Texas</b>               | <b>Office Number</b> | <b>432-377-2411</b> |
| <b>Lea Co. Sheriff<br/>1417 S. Commercial St.<br/>Lovington, NM 88260</b> | <b>Office Number</b> |                     |
| <b>Eddy Co. Sheriff<br/>305 N 7th St.<br/>Artesia, NM 88210</b>           | <b>Office Number</b> | <b>575-766-9888</b> |
| <b>Eddy Co. Sheriff<br/>305 N 7th St.<br/>Carlsbad, NM 88220</b>          | <b>Office Number</b> | <b>575-746-9888</b> |

## Federal &amp; State Agencies

|                                                                                                   |                     |                              |
|---------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| <b>OSHA Lubbock Area Office</b><br><b>1205 Texas Av. Room 806</b><br><b>Lubbock, Texas 79401</b>  | <b>Main Number</b>  | <b>806-472-7681 EXT 7685</b> |
| <b>New Mexico Environment Department</b><br><b>400 N Pennsylvania</b><br><b>Roswell, NM 88201</b> | <b>Joe Fresquez</b> | <b>575-623-3935</b>          |
| <b>Texas Railroad Commission</b><br><b>Midland, Texas</b>                                         | <b>Main Number</b>  | <b>844-773-0305</b>          |
| <b>BLM Carlsbad, NM Field Office</b><br><b>620 E. Green ST</b><br><b>Carlsbad, NM 88220</b>       | <b>Main Number</b>  | <b>575-234-5972</b>          |
| <b>BLM Hobbs Field Station</b><br><b>414 W. Taylor Rd.</b><br><b>Hobbs, NM 88240</b>              | <b>Main Number</b>  | <b>575-393-3612</b>          |
| <b>BLM Roswell District Office</b><br><b>2909 W. Second St.</b><br><b>Roswell, NM 88201</b>       | <b>Main Number</b>  | <b>575-627-0272</b>          |
| <b>TECQ Texas Commission on Environmental Quality</b>                                             | <b>Main Number</b>  | <b>800-832-8224</b>          |
| <b>New Mexico OCD</b>                                                                             |                     |                              |
| <b>U.S. Environmental Protection Agency Region 6</b><br><b>Texas/New Mexico</b>                   | <b>Main Number</b>  | <b>214-655-2222</b>          |
| <b>National Response Center</b><br><b>Toxic Chemicals &amp; Oil Spills</b>                        | <b>Main Number</b>  | <b>800-424-8802</b>          |

## Rig Company

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

### **XIII. EVACUATION OF THE GENERAL PUBLIC**

The procedure to be used in alerting nearby persons in the event of any occurrence that could pose a threat to life or property will be arranged and completed with public officials in detail, prior to drilling into the hydrogen sulfide formations.

In the event of an actual emergency, the following steps will be immediately taken:

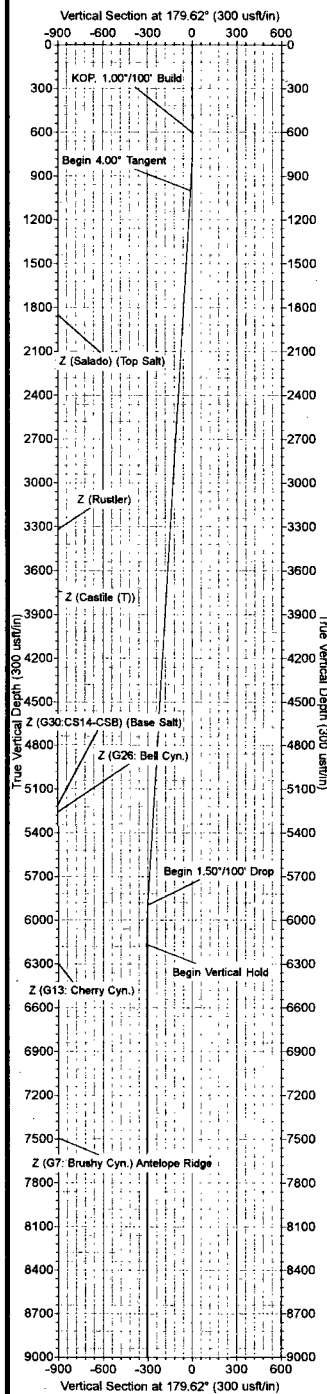
1. The MRC Energy Co.'s representative will dispatch sufficient personnel to immediately warn each resident and transients down-wind within radius of exposure from the well site. Then warn all residence in the radius of exposure. Additional evacuation zones may be necessary as the situation warrants.
2. The MRC Energy Co.'s representative will immediately notify proper authorities, including the Sheriff's Office, Highway Patrol, and any other public officials as described above and will enlist their assistance in warning residents and transients in the calculated radius of exposure.
3. The MRC Energy Co.'s representative will dispatch sufficient personnel to divert traffic in the vicinity away from the potentially dangerous area. A guard to the entrance of the well site will be posted to monitor essential and non essential traffic.
4. General:
  - A. The area included within the radius of exposure is considered to be the zone of maximum potential hazard from a hydrogen sulfide gas escape. Immediate evacuation of public areas, in accordance with the provisions of this contingency plan, is imperative. When it is determined that conditions exist which create an additional area (beyond the initial zone of maximum potential hazard) vulnerable to possible hazard, public areas in the additional hazardous area will be evacuated in accordance with the contingency plan.
  - B. In the event of a disaster, after the public areas have been evacuated and traffic stopped, it is expected that local civil authorities will have arrived and within a few hours will have assumed direction of and control of the public, including all public areas. MRC Energy Co. will cooperate with these authorities to the fullest extent and will exert every effort by careful advice to such authorities to prevent panic or rumors.
  - C. MRC Energy Co. will dispatch appropriate management personnel at the disaster site as soon as possible. The company's personnel

will cooperate with and provide such information to civil authorities as they might require.

- D. One of the products of the combustion of hydrogen sulfide is sulfur dioxide ( $\text{SO}_2$ ). Under certain conditions this gas may be equally as dangerous as  $\text{H}_2\text{S}$ . A pump type detector device, which determines the percent of  $\text{SO}_2$  in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the  $\text{SO}_2$  detector should be utilized to check concentrations in the proximity of the well once every hour, or as necessary and the situation warrants. Also, if any low areas are suspected of having high concentrations, personnel should be made aware of these areas, and steps should be taken to determine whether or not these low areas are hazardous.

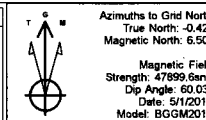


Company: Matador Resources  
Site: Charles Ling Fed Com  
Well: Charles Ling Fed Com #212H  
Project: Lea County, New Mexico (NAD 27)  
Rig: Patterson 282

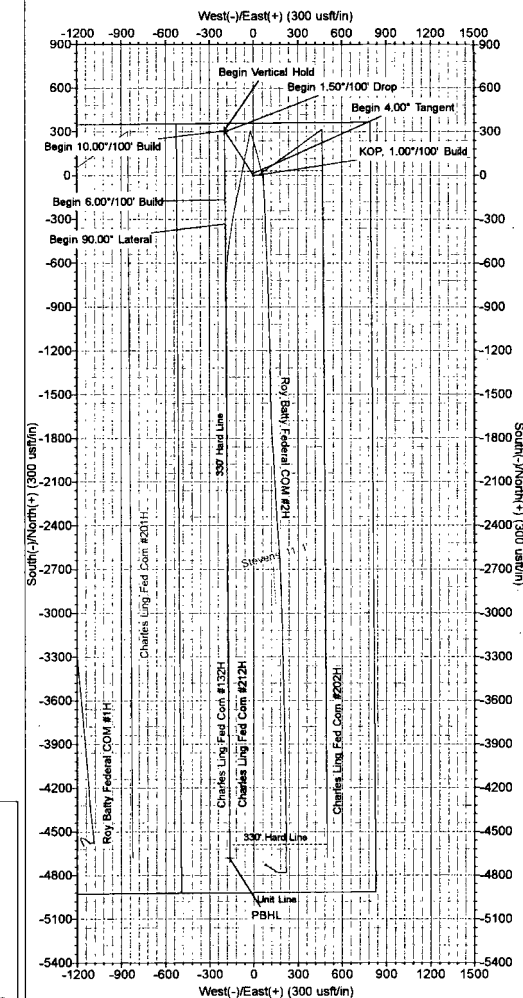
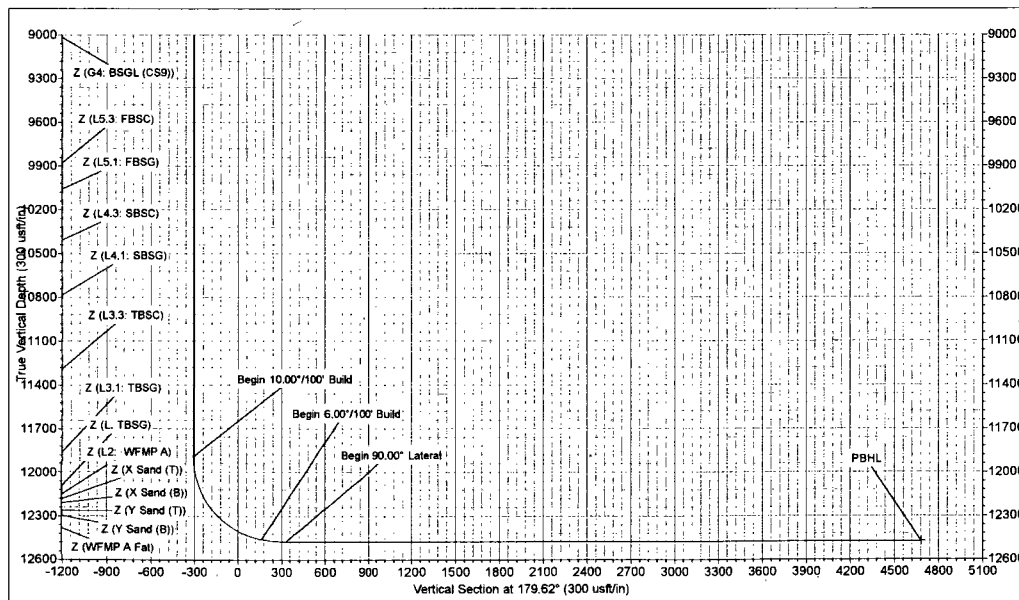
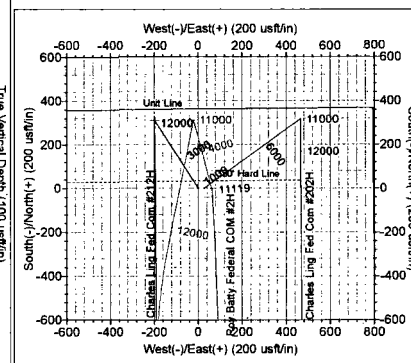
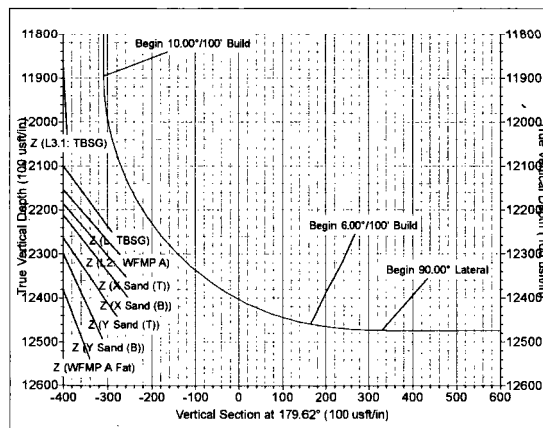


| ANNOTATIONS |       |        |          |          |         |         |           |                         |  |
|-------------|-------|--------|----------|----------|---------|---------|-----------|-------------------------|--|
| MD          | Inc   | Azi    | TVD      | +N/-S    | +E/-W   | Vsect   | Departure | Annotation              |  |
| 600.00      | 0.00  | 0.00   | 600.00   | 0.00     | 0.00    | 0.00    | 0.00      | KOP, 1.00°/100' Build   |  |
| 999.81      | 4.00  | 327.38 | 999.48   | 11.74    | -7.52   | -11.79  | 13.94     | Begin 4.00° Tangent     |  |
| 5910.95     | 4.00  | 327.38 | 5898.68  | 300.14   | -192.12 | -301.41 | 356.36    | Begin 1.50°/100' Drop   |  |
| 6177.49     | 0.00  | 0.00   | 6165.00  | 307.97   | -197.13 | -309.27 | 365.66    | Begin Vertical Hold     |  |
| 11907.73    | 0.00  | 0.00   | 11895.24 | 307.97   | -197.13 | -309.27 | 365.66    | Begin 10.00°/100' Build |  |
| 12707.73    | 80.00 | 179.62 | 12459.49 | -165.48  | -194.02 | 164.19  | 839.13    | Begin 6.00°/100' Build  |  |
| 12874.40    | 90.00 | 179.62 | 12474.00 | -331.30  | -192.92 | 330.01  | 1004.95   | Begin 90.00° Lateral    |  |
| 17226.60    | 90.00 | 179.62 | 12474.00 | -4683.41 | -164.29 | 4682.22 | 5357.15   | PBHL                    |  |

| WELL DETAILS: Charles Ling Fed Com #212H |       |           |           |                  |                   |
|------------------------------------------|-------|-----------|-----------|------------------|-------------------|
|                                          |       |           | 3811.00   |                  |                   |
| +N/-S                                    | +E/-W | Northing  | Easting   | Latitude         | Longitude         |
| 0.00                                     | 0.00  | 451293.53 | 743684.52 | 32° 14' 17.755 N | 103° 32' 42.744 W |



US State Plane 1927 (Exact solution)  
New Mexico East 3001  
Created By: HLH  
Date: 9/29, May 02 2018  
Plan: Design #2





# **Matador Resources**

**Lea County, New Mexico (NAD 27)**

**Charles Ling Fed Com**

**Charles Ling Fed Com #212H**

**Wellbore #1**

**Plan: Design #2**

## **Standard Planning Report**

**02 May, 2018**





# MS Directional Planning Report



|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.14 Conroe DB           | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Company:</b>  | Matador Resources               | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site:</b>     | Charles Ling Fed Com            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #2                       |                                     |                                    |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico (NAD 27)      |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                             |                            |               |                            |                 |                                     |
|-----------------------------|----------------------------|---------------|----------------------------|-----------------|-------------------------------------|
| <b>Well</b>                 | Charles Ling Fed Com #212H |               |                            |                 |                                     |
| <b>Well Position</b>        | <b>+N/-S</b>               | 11.27 usft    | <b>Northing:</b>           | 451,293.53 usft | <b>Latitude:</b> 32° 14' 17.755 N   |
|                             | <b>+E/-W</b>               | 1,259.46 usft | <b>Easting:</b>            | 743,684.52 usft | <b>Longitude:</b> 103° 32' 42.744 W |
| <b>Position Uncertainty</b> |                            | 0.00 usft     | <b>Wellhead Elevation:</b> |                 | <b>Ground Level:</b> 3,611.00 usft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | BGGM2018          | 5/1/2018           | 6.92                   | 60.03                | 47,900                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #2                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 179.62               |

|                                 |                        |                          |                         |                     |
|---------------------------------|------------------------|--------------------------|-------------------------|---------------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b> 5/2/2018   |                          |                         |                     |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>        | <b>Remarks</b>      |
| 1                               | 0.00                   | 17,226.60                | Design #2 (Wellbore #1) | MWD                 |
|                                 |                        |                          |                         | OWSG MWD - Standard |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target              |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 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    |                     |
| 999.81                | 4.00            | 327.38      | 999.49                | 11.74        | -7.52        | 1.00                    | 1.00                   | 0.00                  | 327.38  |                     |
| 5,910.95              | 4.00            | 327.38      | 5,898.68              | 300.14       | -192.12      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 6,177.49              | 0.00            | 0.00        | 6,165.00              | 307.97       | -197.13      | 1.50                    | -1.50                  | 0.00                  | 180.00  | VP - Charles Ling F |
| 11,907.73             | 0.00            | 0.00        | 11,895.24             | 307.97       | -197.13      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 12,707.73             | 80.00           | 179.62      | 12,459.49             | -165.48      | -194.02      | 10.00                   | 10.00                  | 0.00                  | 179.62  | PBHL - Charles Lin  |
| 12,874.40             | 90.00           | 179.62      | 12,474.00             | -331.30      | -192.92      | 6.00                    | 6.00                   | 0.00                  | 0.00    |                     |
| 17,226.60             | 90.00           | 179.62      | 12,474.00             | -4,683.41    | -164.29      | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL - Charles Lin  |



# MS Directional Planning Report



|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.14 Conroe DB           | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Company:</b>  | Matador Resources               | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site:</b>     | Charles Ling Fed Com            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #2                       |                                     |                                    |

## 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                  |
| <b>KOP, 1.00°/100' Build</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 700.00                       | 1.00            | 327.38      | 699.99                | 0.73         | -0.47        | -0.74                   | 1.00                    | 1.00                   | 0.00                  |
| 800.00                       | 2.00            | 327.38      | 799.96                | 2.94         | -1.88        | -2.95                   | 1.00                    | 1.00                   | 0.00                  |
| 900.00                       | 3.00            | 327.38      | 899.86                | 6.61         | -4.23        | -6.64                   | 1.00                    | 1.00                   | 0.00                  |
| 999.81                       | 4.00            | 327.38      | 999.49                | 11.74        | -7.52        | -11.79                  | 1.00                    | 1.00                   | 0.00                  |
| <b>Begin 4.00° Tangent</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,100.00                     | 4.00            | 327.38      | 1,099.43              | 17.63        | -11.28       | -17.70                  | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00                     | 4.00            | 327.38      | 1,199.19              | 23.50        | -15.04       | -23.60                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                     | 4.00            | 327.38      | 1,298.95              | 29.37        | -18.80       | -29.50                  | 0.00                    | 0.00                   | 0.00                  |
| 1,350.00                     | 4.00            | 327.38      | 1,348.82              | 32.31        | -20.68       | -32.44                  | 0.00                    | 0.00                   | 0.00                  |
| <b>13 3/8"</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,400.00                     | 4.00            | 327.38      | 1,398.70              | 35.24        | -22.56       | -35.39                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                     | 4.00            | 327.38      | 1,498.46              | 41.12        | -26.32       | -41.29                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                     | 4.00            | 327.38      | 1,598.22              | 46.99        | -30.08       | -47.19                  | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00                     | 4.00            | 327.38      | 1,697.97              | 52.86        | -33.84       | -53.08                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                     | 4.00            | 327.38      | 1,797.73              | 58.73        | -37.59       | -58.98                  | 0.00                    | 0.00                   | 0.00                  |
| 1,850.90                     | 4.00            | 327.38      | 1,848.50              | 61.72        | -39.51       | -61.98                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (Salado) (Top Salt)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,900.00                     | 4.00            | 327.38      | 1,897.48              | 64.61        | -41.35       | -64.88                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                     | 4.00            | 327.38      | 1,997.24              | 70.48        | -45.11       | -70.78                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                     | 4.00            | 327.38      | 2,097.00              | 76.35        | -48.87       | -76.67                  | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                     | 4.00            | 327.38      | 2,196.75              | 82.22        | -52.63       | -82.57                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                     | 4.00            | 327.38      | 2,296.51              | 88.10        | -56.39       | -88.47                  | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                     | 4.00            | 327.38      | 2,396.27              | 93.97        | -60.15       | -94.36                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                     | 4.00            | 327.38      | 2,496.02              | 99.84        | -63.91       | -100.26                 | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                     | 4.00            | 327.38      | 2,595.78              | 105.71       | -67.67       | -106.16                 | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                     | 4.00            | 327.38      | 2,695.54              | 111.59       | -71.42       | -112.06                 | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                     | 4.00            | 327.38      | 2,795.29              | 117.46       | -75.18       | -117.95                 | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                     | 4.00            | 327.38      | 2,895.05              | 123.33       | -78.94       | -123.85                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                     | 4.00            | 327.38      | 2,994.81              | 129.20       | -82.70       | -129.75                 | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                     | 4.00            | 327.38      | 3,094.56              | 135.07       | -86.46       | -135.65                 | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                     | 4.00            | 327.38      | 3,194.32              | 140.95       | -90.22       | -141.54                 | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                     | 4.00            | 327.38      | 3,294.08              | 146.82       | -93.98       | -147.44                 | 0.00                    | 0.00                   | 0.00                  |
| 3,325.48                     | 4.00            | 327.38      | 3,319.50              | 148.32       | -94.94       | -148.94                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (Rustler)</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,400.00                     | 4.00            | 327.38      | 3,393.83              | 152.69       | -97.74       | -153.34                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                     | 4.00            | 327.38      | 3,493.59              | 158.56       | -101.50      | -159.23                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                     | 4.00            | 327.38      | 3,593.35              | 164.44       | -105.25      | -165.13                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                     | 4.00            | 327.38      | 3,693.10              | 170.31       | -109.01      | -171.03                 | 0.00                    | 0.00                   | 0.00                  |
| 3,746.51                     | 4.00            | 327.38      | 3,739.50              | 173.04       | -110.76      | -173.77                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (Castile (T))</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,800.00                     | 4.00            | 327.38      | 3,792.86              | 176.18       | -112.77      | -176.93                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                     | 4.00            | 327.38      | 3,892.62              | 182.05       | -116.53      | -182.82                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                     | 4.00            | 327.38      | 3,992.37              | 187.93       | -120.29      | -188.72                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                     | 4.00            | 327.38      | 4,092.13              | 193.80       | -124.05      | -194.62                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                     | 4.00            | 327.38      | 4,191.89              | 199.67       | -127.81      | -200.51                 | 0.00                    | 0.00                   | 0.00                  |



MS Directional  
Planning Report



Database: EDM 5000.14 Conroe DB  
Company: Matador Resources  
Project: Lea County, New Mexico (NAD 27)  
Site: Charles Ling Fed Com  
Well: Charles Ling Fed Com #212H  
Wellbore: Wellbore #1  
Design: Design #2

Local Co-ordinate Reference: Well Charles Ling Fed Com #212H  
TVD Reference: WELL @ 3639.50usft (Patterson 282)  
MD Reference: WELL @ 3639.50usft (Patterson 282)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

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) |
|--------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,300.00                                                     | 4.00            | 327.38      | 4,291.64              | 205.54       | -131.57      | -206.41                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                                                     | 4.00            | 327.38      | 4,391.40              | 211.42       | -135.32      | -212.31                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                                                     | 4.00            | 327.38      | 4,491.16              | 217.29       | -139.08      | -218.21                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                                                     | 4.00            | 327.38      | 4,590.91              | 223.16       | -142.84      | -224.10                 | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                                                     | 4.00            | 327.38      | 4,690.67              | 229.03       | -146.60      | -230.00                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                                                     | 4.00            | 327.38      | 4,790.43              | 234.90       | -150.36      | -235.90                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                                                     | 4.00            | 327.38      | 4,890.18              | 240.78       | -154.12      | -241.79                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                                                     | 4.00            | 327.38      | 4,989.94              | 246.65       | -157.88      | -247.69                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                                                     | 4.00            | 327.38      | 5,089.70              | 252.52       | -161.64      | -253.59                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                                                     | 4.00            | 327.38      | 5,189.45              | 258.39       | -165.40      | -259.49                 | 0.00                    | 0.00                   | 0.00                  |
| 5,225.11                                                     | 4.00            | 327.38      | 5,214.50              | 259.87       | -166.34      | -260.97                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (G30:CS14-CSB) (Base Salt)</b>                          |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,268.21                                                     | 4.00            | 327.38      | 5,257.50              | 262.40       | -167.96      | -263.51                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (G26: Bell Cyn.)</b>                                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,300.00                                                     | 4.00            | 327.38      | 5,289.21              | 264.27       | -169.15      | -265.38                 | 0.00                    | 0.00                   | 0.00                  |
| <b>9 5/8"</b>                                                |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,400.00                                                     | 4.00            | 327.38      | 5,388.97              | 270.14       | -172.91      | -271.28                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                                                     | 4.00            | 327.38      | 5,488.72              | 276.01       | -176.67      | -277.18                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                                                     | 4.00            | 327.38      | 5,588.48              | 281.88       | -180.43      | -283.07                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                                                     | 4.00            | 327.38      | 5,688.24              | 287.76       | -184.19      | -288.97                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                                                     | 4.00            | 327.38      | 5,787.99              | 293.63       | -187.95      | -294.87                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                                                     | 4.00            | 327.38      | 5,887.75              | 299.50       | -191.71      | -300.77                 | 0.00                    | 0.00                   | 0.00                  |
| 5,910.95                                                     | 4.00            | 327.38      | 5,898.68              | 300.14       | -192.12      | -301.41                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin 1.50°/100' Drop</b>                                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,000.00                                                     | 2.66            | 327.38      | 5,987.57              | 304.50       | -194.91      | -305.79                 | 1.50                    | -1.50                  | 0.00                  |
| 6,100.00                                                     | 1.16            | 327.38      | 6,087.51              | 307.31       | -196.71      | -308.61                 | 1.50                    | -1.50                  | 0.00                  |
| 6,177.49                                                     | 0.00            | 0.00        | 6,165.00              | 307.97       | -197.13      | -309.27                 | 1.50                    | -1.50                  | 0.00                  |
| <b>Begin Vertical Hold - VP - Charles Ling Fed Com #212H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,200.00                                                     | 0.00            | 0.00        | 6,187.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                                                     | 0.00            | 0.00        | 6,287.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,309.99                                                     | 0.00            | 0.00        | 6,297.50              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (G13: Cherry Cyn.)</b>                                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,400.00                                                     | 0.00            | 0.00        | 6,387.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                                                     | 0.00            | 0.00        | 6,487.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                                                     | 0.00            | 0.00        | 6,587.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                                                     | 0.00            | 0.00        | 6,687.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                                                     | 0.00            | 0.00        | 6,787.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                                                     | 0.00            | 0.00        | 6,887.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                                                     | 0.00            | 0.00        | 6,987.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                                                     | 0.00            | 0.00        | 7,087.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                                                     | 0.00            | 0.00        | 7,187.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                                                     | 0.00            | 0.00        | 7,287.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                                                     | 0.00            | 0.00        | 7,387.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                                                     | 0.00            | 0.00        | 7,487.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,505.99                                                     | 0.00            | 0.00        | 7,493.50              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Z (G7: Brushy Cyn.) Antelope Ridge</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,600.00                                                     | 0.00            | 0.00        | 7,587.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                                                     | 0.00            | 0.00        | 7,687.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                                                     | 0.00            | 0.00        | 7,787.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                                                     | 0.00            | 0.00        | 7,887.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                                                     | 0.00            | 0.00        | 7,987.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                                                     | 0.00            | 0.00        | 8,087.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                                                     | 0.00            | 0.00        | 8,187.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |



# MS Directional Planning Report



|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.14 Conroe DB           | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Company:</b>  | Matador Resources               | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site:</b>     | Charles Ling Fed Com            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #2                       |                                     |                                    |

| 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) |  |
| 8,300.00                       | 0.00            | 0.00        | 8,287.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.00                       | 0.00            | 0.00        | 8,387.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.00                       | 0.00            | 0.00        | 8,487.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.00                       | 0.00            | 0.00        | 8,587.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.00                       | 0.00            | 0.00        | 8,687.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.00                       | 0.00            | 0.00        | 8,787.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.00                       | 0.00            | 0.00        | 8,887.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.00                       | 0.00            | 0.00        | 8,987.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,027.99                       | 0.00            | 0.00        | 9,015.50              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (G4: BSGL (CS9))</b>      |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,100.00                       | 0.00            | 0.00        | 9,087.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.00                       | 0.00            | 0.00        | 9,187.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.00                       | 0.00            | 0.00        | 9,287.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.00                       | 0.00            | 0.00        | 9,387.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.00                       | 0.00            | 0.00        | 9,487.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.00                       | 0.00            | 0.00        | 9,587.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.00                       | 0.00            | 0.00        | 9,687.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.00                       | 0.00            | 0.00        | 9,787.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,893.99                       | 0.00            | 0.00        | 9,881.50              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L5.3: FBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,900.00                       | 0.00            | 0.00        | 9,887.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.00                      | 0.00            | 0.00        | 9,987.51              | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,071.99                      | 0.00            | 0.00        | 10,059.50             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L5.1: FBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,100.00                      | 0.00            | 0.00        | 10,087.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.00                      | 0.00            | 0.00        | 10,187.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.00                      | 0.00            | 0.00        | 10,287.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.00                      | 0.00            | 0.00        | 10,387.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,420.99                      | 0.00            | 0.00        | 10,408.50             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L4.3: SBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,500.00                      | 0.00            | 0.00        | 10,487.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.00                      | 0.00            | 0.00        | 10,587.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.00                      | 0.00            | 0.00        | 10,687.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,796.99                      | 0.00            | 0.00        | 10,784.50             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L4.1: SBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,800.00                      | 0.00            | 0.00        | 10,787.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.00                      | 0.00            | 0.00        | 10,887.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.00                      | 0.00            | 0.00        | 10,987.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.00                      | 0.00            | 0.00        | 11,087.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.00                      | 0.00            | 0.00        | 11,187.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.00                      | 0.00            | 0.00        | 11,287.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,303.99                      | 0.00            | 0.00        | 11,291.50             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L3.3: TBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,400.00                      | 0.00            | 0.00        | 11,387.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.00                      | 0.00            | 0.00        | 11,487.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.00                      | 0.00            | 0.00        | 11,587.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.00                      | 0.00            | 0.00        | 11,687.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.00                      | 0.00            | 0.00        | 11,787.51             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,872.99                      | 0.00            | 0.00        | 11,860.50             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Z (L3.1: TBSC)</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,907.73                      | 0.00            | 0.00        | 11,895.24             | 307.97       | -197.13      | -309.27                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Begin 10.00°/100' Build</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,950.00                      | 4.23            | 179.62      | 11,937.47             | 306.41       | -197.12      | -307.72                 | 10.00                   | 10.00                  | 0.00                  |  |



MS Directional  
Planning Report



|           |                                 |                              |                                    |
|-----------|---------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.14 Conroe DB           | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Company:  | Matador Resources               | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Project:  | Lea County, New Mexico (NAD 27) | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site:     | Charles Ling Fed Com            | North Reference:             | Grid                               |
| Well:     | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1                     |                              |                                    |
| Design:   | Design #2                       |                              |                                    |

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) |
|------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,000.00                          | 9.23            | 179.62      | 11,987.11             | 300.56       | -197.08      | -301.86                 | 10.00                   | 10.00                  | 0.00                  |
| 12,050.00                          | 14.23           | 179.62      | 12,036.05             | 290.40       | -197.01      | -291.70                 | 10.00                   | 10.00                  | 0.00                  |
| 12,100.00                          | 19.23           | 179.62      | 12,083.92             | 276.02       | -196.92      | -277.32                 | 10.00                   | 10.00                  | 0.00                  |
| 12,115.52                          | 20.78           | 179.62      | 12,098.50             | 270.71       | -196.88      | -272.01                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (L TBSG)</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,150.00                          | 24.23           | 179.62      | 12,130.35             | 257.51       | -196.80      | -258.81                 | 10.00                   | 10.00                  | 0.00                  |
| 12,175.65                          | 26.79           | 179.62      | 12,153.50             | 246.47       | -196.73      | -247.77                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (L2: WFMP A)</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,200.00                          | 29.23           | 179.62      | 12,175.00             | 235.03       | -196.65      | -236.33                 | 10.00                   | 10.00                  | 0.00                  |
| 12,210.95                          | 30.32           | 179.62      | 12,184.50             | 229.60       | -196.61      | -230.90                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (X Sand (T))</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,241.56                          | 33.38           | 179.62      | 12,210.50             | 213.44       | -196.51      | -214.74                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (X Sand (B))</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,250.00                          | 34.23           | 179.62      | 12,217.51             | 208.75       | -196.48      | -210.05                 | 10.00                   | 10.00                  | 0.00                  |
| 12,300.00                          | 39.23           | 179.62      | 12,257.57             | 178.86       | -196.28      | -180.16                 | 10.00                   | 10.00                  | 0.00                  |
| 12,306.39                          | 39.87           | 179.62      | 12,262.50             | 174.79       | -196.25      | -176.09                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (Y Sand (T))</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,350.00                          | 44.23           | 179.62      | 12,294.88             | 145.59       | -196.06      | -146.89                 | 10.00                   | 10.00                  | 0.00                  |
| 12,353.67                          | 44.59           | 179.62      | 12,297.50             | 143.02       | -196.04      | -144.32                 | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (Y Sand (B))</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,400.00                          | 49.23           | 179.62      | 12,329.14             | 109.20       | -195.82      | -110.50                 | 10.00                   | 10.00                  | 0.00                  |
| 12,450.00                          | 54.23           | 179.62      | 12,360.10             | 69.96        | -195.56      | -71.25                  | 10.00                   | 10.00                  | 0.00                  |
| 12,484.66                          | 57.69           | 179.62      | 12,379.50             | 41.24        | -195.38      | -42.54                  | 10.00                   | 10.00                  | 0.00                  |
| <b>Z (WFMP A Fat)</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,500.00                          | 59.23           | 179.62      | 12,387.52             | 28.17        | -195.29      | -29.47                  | 10.00                   | 10.00                  | 0.00                  |
| 12,550.00                          | 64.23           | 179.62      | 12,411.20             | -15.85       | -195.00      | 14.56                   | 10.00                   | 10.00                  | 0.00                  |
| 12,600.00                          | 69.23           | 179.62      | 12,430.95             | -61.77       | -194.70      | 60.47                   | 10.00                   | 10.00                  | 0.00                  |
| 12,650.00                          | 74.23           | 179.62      | 12,446.62             | -109.23      | -194.39      | 107.94                  | 10.00                   | 10.00                  | 0.00                  |
| 12,700.00                          | 79.23           | 179.62      | 12,458.10             | -157.88      | -194.07      | 156.59                  | 10.00                   | 10.00                  | 0.00                  |
| 12,707.73                          | 80.00           | 179.62      | 12,459.49             | -165.48      | -194.02      | 164.19                  | 10.00                   | 10.00                  | 0.00                  |
| <b>Begin 6.00°/100' Build - 7"</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,750.00                          | 82.54           | 179.62      | 12,465.91             | -207.25      | -193.74      | 205.97                  | 6.00                    | 6.00                   | 0.00                  |
| 12,800.00                          | 85.54           | 179.62      | 12,471.10             | -256.98      | -193.41      | 255.69                  | 6.00                    | 6.00                   | 0.00                  |
| 12,850.00                          | 88.54           | 179.62      | 12,473.69             | -306.90      | -193.08      | 305.62                  | 6.00                    | 6.00                   | 0.00                  |
| 12,874.40                          | 90.00           | 179.62      | 12,474.00             | -331.30      | -192.92      | 330.01                  | 6.00                    | 6.00                   | 0.00                  |
| <b>Begin 90.00° Lateral</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,900.00                          | 90.00           | 179.62      | 12,474.00             | -356.90      | -192.76      | 355.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                          | 90.00           | 179.62      | 12,474.00             | -456.90      | -192.10      | 455.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                          | 90.00           | 179.62      | 12,474.00             | -556.90      | -191.44      | 555.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                          | 90.00           | 179.62      | 12,474.00             | -656.89      | -190.78      | 655.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                          | 90.00           | 179.62      | 12,474.00             | -756.89      | -190.12      | 755.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                          | 90.00           | 179.62      | 12,474.00             | -856.89      | -189.47      | 855.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                          | 90.00           | 179.62      | 12,474.00             | -956.89      | -188.81      | 955.61                  | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                          | 90.00           | 179.62      | 12,474.00             | -1,056.88    | -188.15      | 1,055.61                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                          | 90.00           | 179.62      | 12,474.00             | -1,156.88    | -187.49      | 1,155.61                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                          | 90.00           | 179.62      | 12,474.00             | -1,256.88    | -186.83      | 1,255.61                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                          | 90.00           | 179.62      | 12,474.00             | -1,356.88    | -186.18      | 1,355.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                          | 90.00           | 179.62      | 12,474.00             | -1,456.88    | -185.52      | 1,455.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00                          | 90.00           | 179.62      | 12,474.00             | -1,556.87    | -184.86      | 1,555.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                          | 90.00           | 179.62      | 12,474.00             | -1,656.87    | -184.20      | 1,655.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00                          | 90.00           | 179.62      | 12,474.00             | -1,756.87    | -183.55      | 1,755.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00                          | 90.00           | 179.62      | 12,474.00             | -1,856.87    | -182.89      | 1,855.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00                          | 90.00           | 179.62      | 12,474.00             | -1,956.87    | -182.23      | 1,955.61                | 0.00                    | 0.00                   | 0.00                  |



# MS Directional Planning Report



|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.14 Conroe DB           | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Company:</b>  | Matador Resources               | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site:</b>     | Charles Ling Fed Com            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #2                       |                                     |                                    |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 14,600.00             | 90.00           | 179.62      | 12,474.00             | -2,056.86    | -181.57      | 2,055.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 90.00           | 179.62      | 12,474.00             | -2,156.86    | -180.91      | 2,155.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.00           | 179.62      | 12,474.00             | -2,256.86    | -180.26      | 2,255.61                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.00           | 179.62      | 12,474.00             | -2,356.86    | -179.60      | 2,355.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.00           | 179.62      | 12,474.00             | -2,456.85    | -178.94      | 2,455.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.00           | 179.62      | 12,474.00             | -2,556.85    | -178.28      | 2,555.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.00           | 179.62      | 12,474.00             | -2,656.85    | -177.62      | 2,655.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.00           | 179.62      | 12,474.00             | -2,756.85    | -176.97      | 2,755.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.00           | 179.62      | 12,474.00             | -2,856.85    | -176.31      | 2,855.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 90.00           | 179.62      | 12,474.00             | -2,956.84    | -175.65      | 2,955.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 90.00           | 179.62      | 12,474.00             | -3,056.84    | -174.99      | 3,055.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 90.00           | 179.62      | 12,474.00             | -3,156.84    | -174.34      | 3,155.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 90.00           | 179.62      | 12,474.00             | -3,256.84    | -173.68      | 3,255.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 90.00           | 179.62      | 12,474.00             | -3,356.84    | -173.02      | 3,355.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 90.00           | 179.62      | 12,474.00             | -3,456.83    | -172.36      | 3,455.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 90.00           | 179.62      | 12,474.00             | -3,556.83    | -171.70      | 3,555.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 90.00           | 179.62      | 12,474.00             | -3,656.83    | -171.05      | 3,655.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00             | 90.00           | 179.62      | 12,474.00             | -3,756.83    | -170.39      | 3,755.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 90.00           | 179.62      | 12,474.00             | -3,856.82    | -169.73      | 3,855.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 90.00           | 179.62      | 12,474.00             | -3,956.82    | -169.07      | 3,955.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 90.00           | 179.62      | 12,474.00             | -4,056.82    | -168.41      | 4,055.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 90.00           | 179.62      | 12,474.00             | -4,156.82    | -167.76      | 4,155.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 90.00           | 179.62      | 12,474.00             | -4,256.82    | -167.10      | 4,255.61                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.00           | 179.62      | 12,474.00             | -4,356.81    | -166.44      | 4,355.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.00           | 179.62      | 12,474.00             | -4,456.81    | -165.78      | 4,455.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.00           | 179.62      | 12,474.00             | -4,556.81    | -165.12      | 4,555.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 90.00           | 179.62      | 12,474.00             | -4,656.81    | -164.47      | 4,655.61                | 0.00                    | 0.00                   | 0.00                  |
| 17,226.60             | 90.00           | 179.62      | 12,474.00             | -4,683.41    | -164.29      | 4,682.21                | 0.00                    | 0.00                   | 0.00                  |

PBHL - 5 1/2" - PBHL - Charles Ling Fed Com #212H

## Design Targets

| Target Name<br>- hit/miss target<br>- Shape                   | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|---------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| VP - Charles Ling Fed<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 6,165.00   | 307.97       | -197.13      | 451,601.50      | 743,487.39     | 32° 14' 20.816 N | 103° 32' 45.013 W |
| PBHL - Charles Ling F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 12,474.00  | -4,683.41    | -164.29      | 446,610.12      | 743,520.23     | 32° 13' 31.422 N | 103° 32' 45.057 W |

## Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|---------|---------------------|-------------------|
| 1,350.00              | 1,348.82              | 13 3/8" | 13-3/8              | 17-1/2            |
| 5,300.00              | 5,289.21              | 9 5/8"  | 9-5/8               | 12-1/4            |
| 12,707.73             | 12,459.49             | 7"      | 7                   | 7-1/2             |
| 17,226.60             | 12,474.00             | 5 1/2"  | 5-1/2               | 6                 |



# MS Directional Planning Report



|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.14 Conroe DB           | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Company:</b>  | Matador Resources               | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site:</b>     | Charles Ling Fed Com            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #2                       |                                     |                                    |

## Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name                               | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|------------------------------------|-----------|---------|-------------------|
| 1,850.90              | 1,848.50              | Z (Salado) (Top Salt)              |           | 0.00    | 179.62            |
| 3,325.48              | 3,319.50              | Z (Rustler)                        |           | 0.00    | 179.62            |
| 3,746.51              | 3,739.50              | Z (Castile (T))                    |           | 0.00    | 179.62            |
| 5,225.11              | 5,214.50              | Z (G30:CS14-CSB) (Base Salt)       |           | 0.00    | 179.62            |
| 5,268.21              | 5,257.50              | Z (G26: Bell Cyn.)                 |           | 0.00    | 179.62            |
| 6,309.99              | 6,297.50              | Z (G13: Cherry Cyn.)               |           | 0.00    | 179.62            |
| 7,505.99              | 7,493.50              | Z (G7: Brushy Cyn.) Antelope Ridge |           | 0.00    | 179.62            |
| 9,027.99              | 9,015.50              | Z (G4: BSG (CS9))                  |           | 0.00    | 179.62            |
| 9,893.99              | 9,881.50              | Z (L5.3: FBSC)                     |           | 0.00    | 179.62            |
| 10,071.99             | 10,059.50             | Z (L5.1: FBSC)                     |           | 0.00    | 179.62            |
| 10,420.99             | 10,408.50             | Z (L4.3: SBSC)                     |           | 0.00    | 179.62            |
| 10,796.99             | 10,784.50             | Z (L4.1: SBSC)                     |           | 0.00    | 179.62            |
| 11,303.99             | 11,291.50             | Z (L3.3: TBSC)                     |           | 0.00    | 179.62            |
| 11,872.99             | 11,860.50             | Z (L3.1: TBSC)                     |           | 0.00    | 179.62            |
| 12,115.52             | 12,098.50             | Z (L: TBSC)                        |           | 0.00    | 179.62            |
| 12,175.65             | 12,153.50             | Z (L2: WFMP A)                     |           | 0.00    | 179.62            |
| 12,210.95             | 12,184.50             | Z (X Sand (T))                     |           | 0.00    | 179.62            |
| 12,241.56             | 12,210.50             | Z (X Sand (B))                     |           | 0.00    | 179.62            |
| 12,306.39             | 12,262.50             | Z (Y Sand (T))                     |           | 0.00    | 179.62            |
| 12,353.67             | 12,297.50             | Z (Y Sand (B))                     |           | 0.00    | 179.62            |
| 12,484.66             | 12,379.50             | Z (WFMP A Fat)                     |           | 0.00    | 179.62            |

## Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                 |
|-----------------------|-----------------------|-------------------|--------------|-------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                         |
| 600.00                | 600.00                | 0.00              | 0.00         | KOP, 1.00°/100' Build   |
| 999.81                | 999.49                | 11.74             | -7.52        | Begin 4.00° Tangent     |
| 5,910.95              | 5,898.68              | 300.14            | -192.12      | Begin 1.50°/100' Drop   |
| 6,177.49              | 6,165.00              | 307.97            | -197.13      | Begin Vertical Hold     |
| 11,907.73             | 11,895.24             | 307.97            | -197.13      | Begin 10.00°/100' Build |
| 12,707.73             | 12,459.49             | -165.48           | -194.02      | Begin 6.00°/100' Build  |
| 12,874.40             | 12,474.00             | -331.30           | -192.92      | Begin 90.00° Lateral    |
| 17,226.60             | 12,474.00             | -4,683.41         | -164.29      | PBHL                    |



# **Matador Resources**

**Lea County, New Mexico (NAD 27)**

**Charles Ling Fed Com**

**Charles Ling Fed Com #212H**

**Wellbore #1**

**Design #2**

## **Anticollision Report**

**02 May, 2018**





# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Reference</b>                    | Design #2                                                           |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| <b>Interpolation Method:</b>        | MD + Stations Interval 100.00usft                                   |
| <b>Depth Range:</b>                 | Unlimited                                                           |
| <b>Results Limited by:</b>          | Maximum center-center distance of 10,000.00 u                       |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          |
| <b>Error Model:</b>                 | ISCWSA                                                              |
| <b>Scan Method:</b>                 | Closest Approach 3D                                                 |
| <b>Error Surface:</b>               | Pedal Curve                                                         |
| <b>Casing Method:</b>               | Not applied                                                         |

| Survey Tool Program |              | Date                    | 5/2/2018  |                     |  |
|---------------------|--------------|-------------------------|-----------|---------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore)       | Tool Name | Description         |  |
| 0.00                | 17,226.60    | Design #2 (Wellbore #1) | MWD       | OWSG MWD - Standard |  |

| Summary                                              |                                 |                              |                                 |                                  |                   |                     |
|------------------------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| Site Name                                            | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning             |
| <b>Offset Well - Wellbore - Design</b>               |                                 |                              |                                 |                                  |                   |                     |
| Charles Ling Fed Com                                 |                                 |                              |                                 |                                  |                   |                     |
| Charles Ling Fed Com #131H - Wellbore #1 - Design #1 | 11,409.61                       | 11,408.04                    | 1,148.84                        | 1,067.24                         | 14.078            | CC                  |
| Charles Ling Fed Com #131H - Wellbore #1 - Design #1 | 11,500.00                       | 11,493.42                    | 1,148.88                        | 1,066.65                         | 13.971            | ES                  |
| Charles Ling Fed Com #131H - Wellbore #1 - Design #1 | 17,227.36                       | 16,812.78                    | 1,387.24                        | 1,214.63                         | 8.036             | SF                  |
| Charles Ling Fed Com #132H - Wellbore #1 - Design #1 | 600.00                          | 601.00                       | 60.00                           | 56.16                            | 15.606            | CC                  |
| Charles Ling Fed Com #132H - Wellbore #1 - Design #1 | 700.00                          | 700.99                       | 60.47                           | 55.91                            | 13.261            | ES                  |
| Charles Ling Fed Com #132H - Wellbore #1 - Design #1 | 11,643.93                       | 11,647.60                    | 171.30                          | 88.24                            | 2.062             | SF                  |
| Charles Ling Fed Com #201H - Wellbore #1 - Design #1 | 11,604.42                       | 11,611.39                    | 660.00                          | 577.07                           | 7.958             | CC                  |
| Charles Ling Fed Com #201H - Wellbore #1 - Design #1 | 17,227.36                       | 16,991.22                    | 702.62                          | 531.61                           | 4.109             | ES, SF              |
| Charles Ling Fed Com #202H - Wellbore #1 - Design #1 | 516.33                          | 517.33                       | 30.00                           | 26.75                            | 9.245             | CC                  |
| Charles Ling Fed Com #202H - Wellbore #1 - Design #1 | 600.00                          | 601.00                       | 30.00                           | 26.15                            | 7.803             | ES                  |
| Charles Ling Fed Com #202H - Wellbore #1 - Design #1 | 17,227.36                       | 16,957.82                    | 714.48                          | 544.89                           | 4.213             | SF                  |
| Charles Ling Fed Com #211H - Wellbore #1 - Design #1 | 1,049.14                        | 1,000.22                     | 1,318.86                        | 1,311.98                         | 191.829           | CC                  |
| Charles Ling Fed Com #211H - Wellbore #1 - Design #1 | 17,227.36                       | 17,260.91                    | 1,319.11                        | 1,139.57                         | 7.347             | ES, SF              |
| Roy Batty Federal COM                                |                                 |                              |                                 |                                  |                   |                     |
| Roy Batty Federal COM #1H - Wellbore #1 - Surveys    | 11,099.30                       | 15,477.00                    | 1,296.21                        | 1,172.00                         | 10.436            | CC                  |
| Roy Batty Federal COM #1H - Wellbore #1 - Surveys    | 11,100.00                       | 15,477.00                    | 1,296.21                        | 1,172.00                         | 10.435            | ES, SF              |
| Roy Batty Federal COM #2H - Wellbore #1 - Surveys    | 11,131.10                       | 15,660.00                    | 403.85                          | 300.47                           | 3.906             | CC, ES, SF          |
| Stevens "11"                                         |                                 |                              |                                 |                                  |                   |                     |
| Stevens 11 1 - Wellbore #1 - Surveys                 | 15,482.40                       | 12,484.22                    | 321.29                          | -21.82                           | 0.936             | Level 1, CC, ES, SF |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #131H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                    |             |                        |                         |                           | Offset Site Error: 0.00 usft |                   |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|------------------------------|-------------------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                    |             |                        |                         |                           | 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) | Azimuth from North (°) | 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          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               |                         |                           |                              |                   |
| 100.00                                                                                    | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,259.51                | 0.26                      | 4,915.047                    |                   |
| 200.00                                                                                    | 200.00                | 200.00                | 200.00                | 0.49             | 0.49          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,258.79                | 0.97                      | 1,294.387                    |                   |
| 300.00                                                                                    | 300.00                | 300.00                | 300.00                | 0.85             | 0.85          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,258.07                | 1.69                      | 745.337                      |                   |
| 400.00                                                                                    | 400.00                | 400.00                | 400.00                | 1.20             | 1.20          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,257.36                | 2.41                      | 523.345                      |                   |
| 500.00                                                                                    | 500.00                | 500.00                | 500.00                | 1.56             | 1.56          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,256.64                | 3.12                      | 403.243                      |                   |
| 600.00                                                                                    | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | -90.51                 | -11.26                             | -1,259.71   | 1,259.76               | 1,255.92                | 3.84                      | 327.976                      |                   |
| 700.00                                                                                    | 699.99                | 699.99                | 699.99                | 2.28             | 2.28          | -90.55                 | -11.26                             | -1,259.71   | 1,259.30               | 1,254.74                | 4.56                      | 276.377                      |                   |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #131H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 800.00                                                                                    | 799.96                | 799.96                | 799.96                | 2.64             | 2.64          | -90.65                 | -11.26                              | -1,259.71    | 1,257.91               | 1,252.64                | 5.27                      | 238.644           |                    |           |
| 900.00                                                                                    | 899.86                | 899.86                | 899.86                | 2.99             | 3.00          | -90.82                 | -11.26                              | -1,259.71    | 1,255.61               | 1,249.62                | 5.99                      | 209.735           |                    |           |
| 999.81                                                                                    | 999.49                | 999.49                | 999.49                | 3.35             | 3.35          | -91.05                 | -11.26                              | -1,259.71    | 1,252.41               | 1,245.70                | 6.70                      | 186.861           |                    |           |
| 1,000.00                                                                                  | 999.68                | 999.68                | 999.68                | 3.35             | 3.35          | -91.05                 | -11.26                              | -1,259.71    | 1,252.40               | 1,245.70                | 6.70                      | 186.822           |                    |           |
| 1,100.00                                                                                  | 1,099.43              | 1,099.43              | 1,099.43              | 3.72             | 3.71          | -91.33                 | -11.26                              | -1,259.71    | 1,248.76               | 1,241.34                | 7.42                      | 168.240           |                    |           |
| 1,200.00                                                                                  | 1,199.19              | 1,194.23              | 1,194.22              | 4.08             | 4.05          | -91.56                 | -10.51                              | -1,259.92    | 1,245.35               | 1,237.23                | 8.12                      | 153.289           |                    |           |
| 1,300.00                                                                                  | 1,298.95              | 1,289.15              | 1,289.12              | 4.45             | 4.39          | -91.74                 | -8.25                               | -1,260.55    | 1,242.36               | 1,233.53                | 8.83                      | 140.743           |                    |           |
| 1,400.00                                                                                  | 1,398.70              | 1,384.19              | 1,384.07              | 4.82             | 4.73          | -91.84                 | -4.47                               | -1,261.61    | 1,239.77               | 1,230.24                | 9.53                      | 130.070           |                    |           |
| 1,500.00                                                                                  | 1,498.46              | 1,479.27              | 1,479.00              | 5.18             | 5.07          | -91.87                 | 0.83                                | -1,263.09    | 1,237.58               | 1,227.34                | 10.24                     | 120.883           |                    |           |
| 1,600.00                                                                                  | 1,598.22              | 1,578.21              | 1,577.69              | 5.55             | 5.43          | -91.83                 | 7.44                                | -1,264.93    | 1,235.66               | 1,224.70                | 10.96                     | 112.742           |                    |           |
| 1,700.00                                                                                  | 1,697.97              | 1,678.18              | 1,677.43              | 5.92             | 5.79          | -91.80                 | 14.15                               | -1,266.80    | 1,233.74               | 1,222.06                | 11.69                     | 105.556           |                    |           |
| 1,800.00                                                                                  | 1,797.73              | 1,778.16              | 1,777.16              | 6.29             | 6.15          | -91.76                 | 20.86                               | -1,268.67    | 1,231.83               | 1,219.42                | 12.42                     | 99.200            |                    |           |
| 1,900.00                                                                                  | 1,897.48              | 1,878.14              | 1,876.90              | 6.66             | 6.52          | -91.73                 | 27.57                               | -1,270.55    | 1,229.92               | 1,216.77                | 13.15                     | 93.539            |                    |           |
| 2,000.00                                                                                  | 1,997.24              | 1,978.12              | 1,976.63              | 7.03             | 6.88          | -91.69                 | 34.28                               | -1,272.42    | 1,228.01               | 1,214.13                | 13.88                     | 88.468            |                    |           |
| 2,100.00                                                                                  | 2,097.00              | 2,078.10              | 2,076.37              | 7.41             | 7.25          | -91.65                 | 41.00                               | -1,274.29    | 1,226.10               | 1,211.49                | 14.61                     | 83.900            |                    |           |
| 2,200.00                                                                                  | 2,196.75              | 2,178.08              | 2,176.10              | 7.78             | 7.62          | -91.62                 | 47.71                               | -1,276.16    | 1,224.20               | 1,208.85                | 15.35                     | 79.764            |                    |           |
| 2,300.00                                                                                  | 2,296.51              | 2,278.06              | 2,275.84              | 8.15             | 7.98          | -91.58                 | 54.42                               | -1,278.04    | 1,222.29               | 1,206.20                | 16.08                     | 76.002            |                    |           |
| 2,400.00                                                                                  | 2,396.27              | 2,378.04              | 2,375.58              | 8.52             | 8.35          | -91.54                 | 61.13                               | -1,279.91    | 1,220.38               | 1,203.56                | 16.82                     | 72.566            |                    |           |
| 2,500.00                                                                                  | 2,496.02              | 2,478.01              | 2,475.31              | 8.89             | 8.72          | -91.51                 | 67.84                               | -1,281.78    | 1,218.47               | 1,200.92                | 17.55                     | 69.416            |                    |           |
| 2,600.00                                                                                  | 2,595.78              | 2,577.99              | 2,575.05              | 9.26             | 9.09          | -91.47                 | 74.55                               | -1,283.65    | 1,216.57               | 1,198.28                | 18.29                     | 66.517            |                    |           |
| 2,700.00                                                                                  | 2,695.54              | 2,677.97              | 2,674.78              | 9.64             | 9.46          | -91.43                 | 81.27                               | -1,285.53    | 1,214.66               | 1,195.63                | 19.03                     | 63.842            |                    |           |
| 2,800.00                                                                                  | 2,795.29              | 2,777.95              | 2,774.52              | 10.01            | 9.83          | -91.39                 | 87.98                               | -1,287.40    | 1,212.75               | 1,192.99                | 19.76                     | 61.365            |                    |           |
| 2,900.00                                                                                  | 2,895.05              | 2,877.93              | 2,874.25              | 10.38            | 10.20         | -91.36                 | 94.69                               | -1,289.27    | 1,210.85               | 1,190.35                | 20.50                     | 59.065            |                    |           |
| 3,000.00                                                                                  | 2,994.81              | 2,977.91              | 2,973.99              | 10.75            | 10.57         | -91.32                 | 101.40                              | -1,291.15    | 1,208.94               | 1,187.71                | 21.24                     | 56.924            |                    |           |
| 3,100.00                                                                                  | 3,094.56              | 3,077.89              | 3,073.72              | 11.12            | 10.94         | -91.28                 | 108.11                              | -1,293.02    | 1,207.04               | 1,185.06                | 21.98                     | 54.926            |                    |           |
| 3,200.00                                                                                  | 3,194.32              | 3,177.87              | 3,173.46              | 11.50            | 11.31         | -91.24                 | 114.82                              | -1,294.89    | 1,205.14               | 1,182.42                | 22.71                     | 53.058            |                    |           |
| 3,300.00                                                                                  | 3,294.08              | 3,277.84              | 3,273.20              | 11.87            | 11.68         | -91.20                 | 121.54                              | -1,296.76    | 1,203.23               | 1,179.78                | 23.45                     | 51.307            |                    |           |
| 3,400.00                                                                                  | 3,393.83              | 3,377.82              | 3,372.93              | 12.24            | 12.05         | -91.17                 | 128.25                              | -1,298.64    | 1,201.33               | 1,177.14                | 24.19                     | 49.662            |                    |           |
| 3,500.00                                                                                  | 3,493.59              | 3,477.80              | 3,472.67              | 12.61            | 12.42         | -91.13                 | 134.96                              | -1,300.51    | 1,199.43               | 1,174.50                | 24.93                     | 48.114            |                    |           |
| 3,600.00                                                                                  | 3,593.35              | 3,577.78              | 3,572.40              | 12.99            | 12.79         | -91.09                 | 141.67                              | -1,302.38    | 1,197.53               | 1,171.86                | 25.67                     | 46.666            |                    |           |
| 3,700.00                                                                                  | 3,693.10              | 3,677.76              | 3,672.14              | 13.36            | 13.16         | -91.05                 | 148.38                              | -1,304.25    | 1,195.63               | 1,169.22                | 26.41                     | 45.278            |                    |           |
| 3,800.00                                                                                  | 3,792.86              | 3,777.74              | 3,771.87              | 13.73            | 13.53         | -91.01                 | 155.09                              | -1,306.13    | 1,193.73               | 1,166.58                | 27.15                     | 43.976            |                    |           |
| 3,900.00                                                                                  | 3,892.62              | 3,877.72              | 3,871.61              | 14.11            | 13.90         | -90.97                 | 161.80                              | -1,308.00    | 1,191.83               | 1,163.94                | 27.88                     | 42.742            |                    |           |
| 4,000.00                                                                                  | 3,992.37              | 3,977.69              | 3,971.35              | 14.48            | 14.27         | -90.93                 | 168.52                              | -1,309.87    | 1,189.93               | 1,161.30                | 28.62                     | 41.572            |                    |           |
| 4,100.00                                                                                  | 4,092.13              | 4,077.67              | 4,071.08              | 14.85            | 14.64         | -90.90                 | 175.23                              | -1,311.74    | 1,188.03               | 1,158.67                | 29.36                     | 40.461            |                    |           |
| 4,200.00                                                                                  | 4,191.89              | 4,177.65              | 4,170.82              | 15.22            | 15.02         | -90.86                 | 181.94                              | -1,313.62    | 1,186.13               | 1,156.03                | 30.10                     | 39.404            |                    |           |
| 4,300.00                                                                                  | 4,291.64              | 4,277.63              | 4,270.55              | 15.60            | 15.39         | -90.82                 | 188.65                              | -1,315.49    | 1,184.23               | 1,153.39                | 30.84                     | 38.398            |                    |           |
| 4,400.00                                                                                  | 4,391.40              | 4,377.61              | 4,370.29              | 15.97            | 15.76         | -90.78                 | 195.36                              | -1,317.36    | 1,182.33               | 1,150.75                | 31.58                     | 37.439            |                    |           |
| 4,500.00                                                                                  | 4,491.16              | 4,477.59              | 4,470.02              | 16.34            | 16.13         | -90.74                 | 202.07                              | -1,319.23    | 1,180.44               | 1,148.12                | 32.32                     | 36.523            |                    |           |
| 4,600.00                                                                                  | 4,590.91              | 4,577.57              | 4,569.76              | 16.72            | 16.50         | -90.70                 | 208.79                              | -1,321.11    | 1,178.54               | 1,145.48                | 33.06                     | 35.649            |                    |           |
| 4,700.00                                                                                  | 4,690.67              | 4,677.55              | 4,669.49              | 17.09            | 16.87         | -90.66                 | 215.50                              | -1,322.98    | 1,176.65               | 1,142.85                | 33.80                     | 34.813            |                    |           |
| 4,800.00                                                                                  | 4,790.43              | 4,777.52              | 4,769.23              | 17.46            | 17.24         | -90.62                 | 222.21                              | -1,324.85    | 1,174.75               | 1,140.21                | 34.54                     | 34.013            |                    |           |
| 4,900.00                                                                                  | 4,890.18              | 4,877.50              | 4,868.97              | 17.83            | 17.62         | -90.58                 | 228.92                              | -1,326.72    | 1,172.86               | 1,137.58                | 35.28                     | 33.246            |                    |           |
| 5,000.00                                                                                  | 4,989.94              | 4,977.48              | 4,968.70              | 18.21            | 17.99         | -90.54                 | 235.63                              | -1,328.60    | 1,170.96               | 1,134.95                | 36.02                     | 32.510            |                    |           |
| 5,100.00                                                                                  | 5,089.70              | 5,077.46              | 5,068.44              | 18.58            | 18.36         | -90.50                 | 242.34                              | -1,330.47    | 1,169.07               | 1,132.31                | 36.76                     | 31.805            |                    |           |
| 5,200.00                                                                                  | 5,189.45              | 5,177.44              | 5,168.17              | 18.95            | 18.73         | -90.46                 | 249.06                              | -1,332.34    | 1,167.18               | 1,129.68                | 37.50                     | 31.127            |                    |           |
| 5,300.00                                                                                  | 5,289.21              | 5,277.42              | 5,267.91              | 19.33            | 19.10         | -90.42                 | 255.77                              | -1,334.22    | 1,165.29               | 1,127.05                | 38.24                     | 30.475            |                    |           |
| 5,400.00                                                                                  | 5,388.97              | 5,377.40              | 5,367.64              | 19.70            | 19.48         | -90.38                 | 262.48                              | -1,336.09    | 1,163.40               | 1,124.42                | 38.98                     | 29.848            |                    |           |
| 5,500.00                                                                                  | 5,488.72              | 5,477.38              | 5,467.38              | 20.07            | 19.85         | -90.34                 | 269.19                              | -1,337.96    | 1,161.51               | 1,121.79                | 39.72                     | 29.244            |                    |           |
| 5,600.00                                                                                  | 5,588.48              | 5,577.35              | 5,567.11              | 20.45            | 20.22         | -90.30                 | 275.90                              | -1,339.83    | 1,159.61               | 1,119.16                | 40.46                     | 28.663            |                    |           |
| 5,700.00                                                                                  | 5,688.24              | 5,677.33              | 5,666.85              | 20.82            | 20.59         | -90.25                 | 282.61                              | -1,341.71    | 1,157.73               | 1,116.53                | 41.20                     | 28.102            |                    |           |
| 5,800.00                                                                                  | 5,787.99              | 5,777.99              | 5,767.27              | 21.19            | 20.97         | -90.21                 | 289.36                              | -1,343.59    | 1,155.83               | 1,113.90                | 41.94                     | 27.560            |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #131H - Wellbore #1 - Design #1 |                             |                             |                             |                     |                  |                              |                              |                               |                                 |                      |         |                                           | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|-------------------------------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                             |                             |                             |                     |                  |                              |                              |                               |                                 |                      |         |                                           | Offset Well Error: | 0.00 usft |
| Reference                                                                                 |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                                           |                    |           |
| Measured<br>Depth<br>(usft)                                                               | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |         | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft)    |           |
| 5,900.00                                                                                  | 5,887.75                    | 5,886.69                    | 5,875.81                    | 21.57               | 21.37            | -90.23                       | 294.94                       | -1,345.14                     | 1,153.51                        | 1,110.81             |         | 42.70                                     | 27.012             |           |
| 5,910.95                                                                                  | 5,898.68                    | 5,898.59                    | 5,887.70                    | 21.61               | 21.41            | -90.24                       | 295.37                       | -1,345.26                     | 1,153.21                        | 1,110.42             |         | 42.79                                     | 26.952             |           |
| 6,000.00                                                                                  | 5,987.57                    | 5,995.27                    | 5,984.35                    | 21.93               | 21.75            | -90.35                       | 297.54                       | -1,345.87                     | 1,150.99                        | 1,107.53             |         | 43.45                                     | 26.487             |           |
| 6,100.00                                                                                  | 6,087.51                    | 6,098.44                    | 6,087.51                    | 22.29               | 22.11            | -90.48                       | 297.75                       | -1,345.93                     | 1,149.26                        | 1,105.09             |         | 44.17                                     | 26.017             |           |
| 6,177.49                                                                                  | 6,165.00                    | 6,175.92                    | 6,165.00                    | 22.56               | 22.38            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,104.13             |         | 44.72                                     | 25.692             |           |
| 6,200.00                                                                                  | 6,187.51                    | 6,198.43                    | 6,187.51                    | 22.64               | 22.46            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,103.97             |         | 44.87                                     | 25.603             |           |
| 6,300.00                                                                                  | 6,287.51                    | 6,298.43                    | 6,287.51                    | 22.99               | 22.81            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,103.28             |         | 45.57                                     | 25.212             |           |
| 6,400.00                                                                                  | 6,387.51                    | 6,398.43                    | 6,387.51                    | 23.33               | 23.16            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,102.58             |         | 46.26                                     | 24.832             |           |
| 6,500.00                                                                                  | 6,487.51                    | 6,498.43                    | 6,487.51                    | 23.68               | 23.51            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,101.88             |         | 46.96                                     | 24.464             |           |
| 6,600.00                                                                                  | 6,587.51                    | 6,598.43                    | 6,587.51                    | 24.02               | 23.86            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,101.19             |         | 47.66                                     | 24.106             |           |
| 6,700.00                                                                                  | 6,687.51                    | 6,698.43                    | 6,687.51                    | 24.37               | 24.21            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,100.49             |         | 48.36                                     | 23.758             |           |
| 6,800.00                                                                                  | 6,787.51                    | 6,798.43                    | 6,787.51                    | 24.72               | 24.56            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,099.79             |         | 49.06                                     | 23.419             |           |
| 6,900.00                                                                                  | 6,887.51                    | 6,898.43                    | 6,887.51                    | 25.06               | 24.91            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,099.09             |         | 49.75                                     | 23.090             |           |
| 7,000.00                                                                                  | 6,987.51                    | 6,998.43                    | 6,987.51                    | 25.41               | 25.26            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,098.39             |         | 50.45                                     | 22.770             |           |
| 7,100.00                                                                                  | 7,087.51                    | 7,098.43                    | 7,087.51                    | 25.76               | 25.61            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,097.69             |         | 51.15                                     | 22.458             |           |
| 7,200.00                                                                                  | 7,187.51                    | 7,198.43                    | 7,187.51                    | 26.11               | 25.96            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,096.99             |         | 51.86                                     | 22.155             |           |
| 7,300.00                                                                                  | 7,287.51                    | 7,298.43                    | 7,287.51                    | 26.45               | 26.31            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,096.29             |         | 52.56                                     | 21.859             |           |
| 7,400.00                                                                                  | 7,387.51                    | 7,398.43                    | 7,387.51                    | 26.80               | 26.66            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,095.59             |         | 53.26                                     | 21.571             |           |
| 7,500.00                                                                                  | 7,487.51                    | 7,498.43                    | 7,487.51                    | 27.15               | 27.01            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,094.88             |         | 53.96                                     | 21.291             |           |
| 7,600.00                                                                                  | 7,587.51                    | 7,598.43                    | 7,587.51                    | 27.50               | 27.37            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,094.18             |         | 54.66                                     | 21.017             |           |
| 7,700.00                                                                                  | 7,687.51                    | 7,698.43                    | 7,687.51                    | 27.85               | 27.72            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,093.48             |         | 55.36                                     | 20.751             |           |
| 7,800.00                                                                                  | 7,787.51                    | 7,798.43                    | 7,787.51                    | 28.20               | 28.07            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,092.78             |         | 56.07                                     | 20.490             |           |
| 7,900.00                                                                                  | 7,887.51                    | 7,898.43                    | 7,887.51                    | 28.55               | 28.42            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,092.07             |         | 56.77                                     | 20.236             |           |
| 8,000.00                                                                                  | 7,987.51                    | 7,998.43                    | 7,987.51                    | 28.90               | 28.77            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,091.37             |         | 57.47                                     | 19.989             |           |
| 8,100.00                                                                                  | 8,087.51                    | 8,098.43                    | 8,087.51                    | 29.25               | 29.13            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,090.66             |         | 58.18                                     | 19.747             |           |
| 8,200.00                                                                                  | 8,187.51                    | 8,198.43                    | 8,187.51                    | 29.60               | 29.48            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,089.96             |         | 58.88                                     | 19.511             |           |
| 8,300.00                                                                                  | 8,287.51                    | 8,298.43                    | 8,287.51                    | 29.95               | 29.83            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,089.26             |         | 59.59                                     | 19.280             |           |
| 8,400.00                                                                                  | 8,387.51                    | 8,398.43                    | 8,387.51                    | 30.30               | 30.19            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,088.55             |         | 60.29                                     | 19.054             |           |
| 8,500.00                                                                                  | 8,487.51                    | 8,498.43                    | 8,487.51                    | 30.65               | 30.54            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,087.85             |         | 61.00                                     | 18.834             |           |
| 8,600.00                                                                                  | 8,587.51                    | 8,598.43                    | 8,587.51                    | 31.00               | 30.89            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,087.14             |         | 61.70                                     | 18.619             |           |
| 8,700.00                                                                                  | 8,687.51                    | 8,698.43                    | 8,687.51                    | 31.35               | 31.25            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,086.43             |         | 62.41                                     | 18.408             |           |
| 8,800.00                                                                                  | 8,787.51                    | 8,798.43                    | 8,787.51                    | 31.70               | 31.60            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,085.73             |         | 63.12                                     | 18.202             |           |
| 8,900.00                                                                                  | 8,887.51                    | 8,898.43                    | 8,887.51                    | 32.06               | 31.95            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,085.02             |         | 63.82                                     | 18.001             |           |
| 9,000.00                                                                                  | 8,987.51                    | 8,998.43                    | 8,987.51                    | 32.41               | 32.31            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,084.32             |         | 64.53                                     | 17.804             |           |
| 9,100.00                                                                                  | 9,087.51                    | 9,098.43                    | 9,087.51                    | 32.76               | 32.66            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,083.61             |         | 65.23                                     | 17.611             |           |
| 9,200.00                                                                                  | 9,187.51                    | 9,198.43                    | 9,187.51                    | 33.11               | 33.01            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,082.90             |         | 65.94                                     | 17.422             |           |
| 9,300.00                                                                                  | 9,287.51                    | 9,298.43                    | 9,287.51                    | 33.46               | 33.37            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,082.19             |         | 66.65                                     | 17.237             |           |
| 9,400.00                                                                                  | 9,387.51                    | 9,398.43                    | 9,387.51                    | 33.82               | 33.72            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,081.49             |         | 67.36                                     | 17.056             |           |
| 9,500.00                                                                                  | 9,487.51                    | 9,498.43                    | 9,487.51                    | 34.17               | 34.08            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,080.78             |         | 68.06                                     | 16.879             |           |
| 9,600.00                                                                                  | 9,587.51                    | 9,598.43                    | 9,587.51                    | 34.52               | 34.43            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,080.07             |         | 68.77                                     | 16.705             |           |
| 9,700.00                                                                                  | 9,687.51                    | 9,698.43                    | 9,687.51                    | 34.87               | 34.78            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,079.36             |         | 69.48                                     | 16.535             |           |
| 9,800.00                                                                                  | 9,787.51                    | 9,798.43                    | 9,787.51                    | 35.23               | 35.14            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,078.66             |         | 70.19                                     | 16.368             |           |
| 9,900.00                                                                                  | 9,887.51                    | 9,898.43                    | 9,887.51                    | 35.58               | 35.49            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,077.95             |         | 70.90                                     | 16.205             |           |
| 10,000.00                                                                                 | 9,987.51                    | 9,998.43                    | 9,987.51                    | 35.93               | 35.85            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,077.24             |         | 71.60                                     | 16.044             |           |
| 10,100.00                                                                                 | 10,087.51                   | 10,098.43                   | 10,087.51                   | 36.28               | 36.20            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,076.53             |         | 72.31                                     | 15.887             |           |
| 10,200.00                                                                                 | 10,187.51                   | 10,198.43                   | 10,187.51                   | 36.64               | 36.56            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,075.82             |         | 73.02                                     | 15.733             |           |
| 10,300.00                                                                                 | 10,287.51                   | 10,298.43                   | 10,287.51                   | 36.99               | 36.91            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,075.11             |         | 73.73                                     | 15.582             |           |
| 10,400.00                                                                                 | 10,387.51                   | 10,398.43                   | 10,387.51                   | 37.34               | 37.27            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,074.40             |         | 74.44                                     | 15.433             |           |
| 10,500.00                                                                                 | 10,487.51                   | 10,498.43                   | 10,487.51                   | 37.70               | 37.62            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,073.69             |         | 75.15                                     | 15.288             |           |
| 10,600.00                                                                                 | 10,587.51                   | 10,598.43                   | 10,587.51                   | 38.05               | 37.98            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,072.99             |         | 75.86                                     | 15.145             |           |
| 10,700.00                                                                                 | 10,687.51                   | 10,698.43                   | 10,687.51                   | 38.41               | 38.33            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,072.28             |         | 76.57                                     | 15.004             |           |
| 10,800.00                                                                                 | 10,787.51                   | 10,798.43                   | 10,787.51                   | 38.76               | 38.69            | -90.51                       | 297.75                       | -1,345.93                     | 1,148.84                        | 1,071.57             |         | 77.28                                     | 14.866             |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #131H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 10,900.00                                                                                 | 10,887.51             | 10,898.43             | 10,887.51             | 39.11            | 39.04         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,070.86                | 77.99                     | 14.731            |                    |           |
| 11,000.00                                                                                 | 10,987.51             | 10,998.43             | 10,987.51             | 39.47            | 39.40         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,070.15                | 78.70                     | 14.598            |                    |           |
| 11,100.00                                                                                 | 11,087.51             | 11,098.43             | 11,087.51             | 39.82            | 39.75         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,069.44                | 79.41                     | 14.468            |                    |           |
| 11,200.00                                                                                 | 11,187.51             | 11,198.43             | 11,187.51             | 40.18            | 40.11         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,068.73                | 80.12                     | 14.339            |                    |           |
| 11,300.00                                                                                 | 11,287.51             | 11,298.43             | 11,287.51             | 40.53            | 40.46         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,068.02                | 80.83                     | 14.213            |                    |           |
| 11,400.00                                                                                 | 11,387.51             | 11,398.43             | 11,387.51             | 40.88            | 40.82         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,067.31                | 81.54                     | 14.090            |                    |           |
| 11,409.61                                                                                 | 11,397.12             | 11,408.04             | 11,397.12             | 40.92            | 40.85         | -90.51                 | 297.75                              | -1,345.93    | 1,148.84               | 1,067.24                | 81.61                     | 14.078            | CC                 |           |
| 11,500.00                                                                                 | 11,487.51             | 11,493.42             | 11,482.50             | 41.24            | 41.15         | -90.52                 | 297.61                              | -1,345.95    | 1,148.88               | 1,066.65                | 82.23                     | 13.971            | ES                 |           |
| 11,600.00                                                                                 | 11,587.51             | 11,564.17             | 11,552.95             | 41.59            | 41.37         | -90.80                 | 291.83                              | -1,347.08    | 1,150.59               | 1,067.79                | 82.80                     | 13.896            |                    |           |
| 11,700.00                                                                                 | 11,687.51             | 11,632.46             | 11,619.78             | 41.95            | 41.57         | -91.48                 | 278.20                              | -1,349.74    | 1,154.99               | 1,071.68                | 83.30                     | 13.865            |                    |           |
| 11,800.00                                                                                 | 11,787.51             | 11,700.00             | 11,683.78             | 42.30            | 41.74         | -92.52                 | 257.15                              | -1,353.86    | 1,162.48               | 1,078.74                | 83.74                     | 13.882            |                    |           |
| 11,900.00                                                                                 | 11,887.51             | 11,750.00             | 11,729.30             | 42.66            | 41.86         | -93.50                 | 236.88                              | -1,357.81    | 1,173.57               | 1,089.61                | 83.97                     | 13.977            |                    |           |
| 11,907.73                                                                                 | 11,895.24             | 11,759.93             | 11,738.11             | 42.68            | 41.88         | -93.72                 | 232.40                              | -1,358.69    | 1,174.57               | 1,090.55                | 84.02                     | 13.979            |                    |           |
| 11,950.00                                                                                 | 11,937.47             | 11,783.42             | 11,758.64             | 42.82            | 41.94         | -94.19                 | 221.20                              | -1,360.88    | 1,180.50               | 1,096.41                | 84.09                     | 14.038            |                    |           |
| 12,000.00                                                                                 | 11,987.11             | 11,811.06             | 11,782.18             | 42.97            | 41.99         | -94.59                 | 206.97                              | -1,363.66    | 1,188.13               | 1,104.00                | 84.13                     | 14.123            |                    |           |
| 12,050.00                                                                                 | 12,036.05             | 11,838.56             | 11,804.87             | 43.12            | 42.05         | -94.82                 | 191.73                              | -1,366.63    | 1,196.32               | 1,112.19                | 84.13                     | 14.220            |                    |           |
| 12,100.00                                                                                 | 12,083.92             | 11,865.93             | 11,826.69             | 43.25            | 42.10         | -94.90                 | 175.52                              | -1,369.80    | 1,204.95               | 1,120.85                | 84.10                     | 14.327            |                    |           |
| 12,150.00                                                                                 | 12,130.35             | 11,900.00             | 11,852.71             | 43.37            | 42.16         | -95.03                 | 153.94                              | -1,374.01    | 1,213.94               | 1,129.82                | 84.12                     | 14.431            |                    |           |
| 12,200.00                                                                                 | 12,175.00             | 11,920.30             | 11,867.58             | 43.49            | 42.19         | -94.59                 | 140.37                              | -1,376.66    | 1,223.07               | 1,139.08                | 83.99                     | 14.563            |                    |           |
| 12,250.00                                                                                 | 12,217.51             | 11,950.00             | 11,888.42             | 43.59            | 42.24         | -94.30                 | 119.61                              | -1,380.71    | 1,232.34               | 1,148.40                | 83.94                     | 14.682            |                    |           |
| 12,300.00                                                                                 | 12,257.57             | 11,974.28             | 11,904.63             | 43.68            | 42.28         | -93.71                 | 101.87                              | -1,384.18    | 1,241.61               | 1,157.78                | 83.83                     | 14.810            |                    |           |
| 12,350.00                                                                                 | 12,294.88             | 12,000.00             | 11,920.94             | 43.76            | 42.32         | -93.04                 | 82.36                               | -1,387.99    | 1,250.81               | 1,167.05                | 83.75                     | 14.934            |                    |           |
| 12,400.00                                                                                 | 12,329.14             | 12,027.93             | 11,937.64             | 43.83            | 42.37         | -92.34                 | 60.38                               | -1,392.28    | 1,259.83               | 1,176.12                | 83.71                     | 15.050            |                    |           |
| 12,450.00                                                                                 | 12,360.10             | 12,050.00             | 11,950.04             | 43.90            | 42.41         | -91.31                 | 42.47                               | -1,395.78    | 1,268.63               | 1,185.00                | 83.63                     | 15.169            |                    |           |
| 12,500.00                                                                                 | 12,387.52             | 12,081.33             | 11,966.42             | 43.96            | 42.47         | -90.57                 | 16.26                               | -1,400.90    | 1,277.09               | 1,193.42                | 83.67                     | 15.263            |                    |           |
| 12,550.00                                                                                 | 12,411.20             | 12,100.00             | 11,975.48             | 44.03            | 42.50         | -89.24                 | 0.24                                | -1,404.03    | 1,285.25               | 1,201.61                | 83.64                     | 15.367            |                    |           |
| 12,600.00                                                                                 | 12,430.95             | 12,134.56             | 11,990.83             | 44.11            | 42.57         | -88.51                 | -30.14                              | -1,409.96    | 1,292.89               | 1,209.12                | 83.77                     | 15.434            |                    |           |
| 12,650.00                                                                                 | 12,446.62             | 12,150.00             | 11,997.07             | 44.20            | 42.60         | -86.94                 | -44.00                              | -1,412.67    | 1,300.21               | 1,216.41                | 83.81                     | 15.514            |                    |           |
| 12,700.00                                                                                 | 12,458.10             | 12,187.68             | 12,010.71             | 44.29            | 42.67         | -86.29                 | -78.47                              | -1,419.40    | 1,306.87               | 1,222.83                | 84.04                     | 15.550            |                    |           |
| 12,707.73                                                                                 | 12,459.49             | 12,200.00             | 12,014.66             | 44.31            | 42.69         | -86.48                 | -89.92                              | -1,421.63    | 1,307.91               | 1,223.80                | 84.12                     | 15.549            |                    |           |
| 12,750.00                                                                                 | 12,465.91             | 12,214.29             | 12,018.93             | 44.39            | 42.72         | -85.17                 | -103.30                             | -1,424.25    | 1,313.30               | 1,229.06                | 84.24                     | 15.590            |                    |           |
| 12,800.00                                                                                 | 12,471.10             | 12,250.00             | 12,028.10             | 44.50            | 42.79         | -84.47                 | -137.17                             | -1,430.86    | 1,319.81               | 1,235.30                | 84.50                     | 15.618            |                    |           |
| 12,850.00                                                                                 | 12,473.69             | 12,268.00             | 12,031.90             | 44.61            | 42.83         | -83.00                 | -154.44                             | -1,434.23    | 1,326.23               | 1,241.51                | 84.72                     | 15.655            |                    |           |
| 12,874.40                                                                                 | 12,474.00             | 12,281.22             | 12,034.34             | 44.67            | 42.85         | -82.48                 | -167.19                             | -1,436.72    | 1,329.39               | 1,244.54                | 84.85                     | 15.668            |                    |           |
| 12,900.00                                                                                 | 12,474.00             | 12,300.00             | 12,037.29             | 44.73            | 42.89         | -82.17                 | -185.39                             | -1,440.28    | 1,332.83               | 1,247.83                | 85.00                     | 15.680            |                    |           |
| 13,000.00                                                                                 | 12,474.00             | 12,350.00             | 12,042.16             | 45.01            | 43.00         | -79.96                 | -234.22                             | -1,449.81    | 1,348.30               | 1,262.76                | 85.54                     | 15.762            |                    |           |
| 13,100.00                                                                                 | 12,474.00             | 12,462.36             | 12,043.00             | 45.35            | 43.26         | -80.58                 | -344.69                             | -1,470.21    | 1,366.03               | 1,279.82                | 86.21                     | 15.846            |                    |           |
| 13,200.00                                                                                 | 12,474.00             | 12,644.07             | 12,043.00             | 45.75            | 43.82         | -84.21                 | -524.77                             | -1,494.25    | 1,379.22               | 1,292.10                | 87.12                     | 15.831            |                    |           |
| 13,300.00                                                                                 | 12,474.00             | 12,828.30             | 12,043.00             | 46.20            | 44.57         | -87.90                 | -708.53                             | -1,506.93    | 1,386.39               | 1,298.19                | 88.20                     | 15.719            |                    |           |
| 13,400.00                                                                                 | 12,474.00             | 12,985.55             | 12,043.00             | 46.71            | 45.34         | -90.39                 | -865.75                             | -1,508.57    | 1,387.76               | 1,298.43                | 89.33                     | 15.536            |                    |           |
| 13,500.00                                                                                 | 12,474.00             | 13,085.55             | 12,043.00             | 47.26            | 45.90         | -90.39                 | -965.75                             | -1,507.90    | 1,387.75               | 1,297.34                | 90.41                     | 15.350            |                    |           |
| 13,600.00                                                                                 | 12,474.00             | 13,185.55             | 12,043.00             | 47.87            | 46.51         | -90.39                 | -1,065.75                           | -1,507.23    | 1,387.73               | 1,296.15                | 91.58                     | 15.153            |                    |           |
| 13,700.00                                                                                 | 12,474.00             | 13,285.55             | 12,043.00             | 48.53            | 47.17         | -90.39                 | -1,165.75                           | -1,506.56    | 1,387.72               | 1,294.87                | 92.85                     | 14.946            |                    |           |
| 13,800.00                                                                                 | 12,474.00             | 13,385.55             | 12,043.00             | 49.23            | 47.87         | -90.39                 | -1,265.75                           | -1,505.88    | 1,387.71               | 1,293.50                | 94.21                     | 14.730            |                    |           |
| 13,900.00                                                                                 | 12,474.00             | 13,485.55             | 12,043.00             | 49.97            | 48.63         | -90.39                 | -1,365.74                           | -1,505.21    | 1,387.69               | 1,292.04                | 95.65                     | 14.507            |                    |           |
| 14,000.00                                                                                 | 12,474.00             | 13,585.55             | 12,043.00             | 50.76            | 49.42         | -90.39                 | -1,465.74                           | -1,504.54    | 1,387.68               | 1,290.50                | 97.18                     | 14.279            |                    |           |
| 14,100.00                                                                                 | 12,474.00             | 13,685.55             | 12,043.00             | 51.59            | 50.26         | -90.39                 | -1,565.74                           | -1,503.87    | 1,387.67               | 1,288.88                | 98.79                     | 14.047            |                    |           |
| 14,200.00                                                                                 | 12,474.00             | 13,785.55             | 12,043.00             | 52.46            | 51.14         | -90.39                 | -1,665.74                           | -1,503.20    | 1,387.65               | 1,287.18                | 100.47                    | 13.812            |                    |           |
| 14,300.00                                                                                 | 12,474.00             | 13,885.55             | 12,043.00             | 53.37            | 52.05         | -90.39                 | -1,765.73                           | -1,502.52    | 1,387.64               | 1,285.42                | 102.22                    | 13.575            |                    |           |
| 14,400.00                                                                                 | 12,474.00             | 13,985.55             | 12,043.00             | 54.31            | 53.00         | -90.39                 | -1,865.73                           | -1,501.85    | 1,387.63               | 1,283.58                | 104.04                    | 13.337            |                    |           |
| 14,500.00                                                                                 | 12,474.00             | 14,085.55             | 12,043.00             | 55.28            | 53.99         | -90.39                 | -1,965.73                           | -1,501.18    | 1,387.61               | 1,281.69                | 105.93                    | 13.100            |                    |           |
| 14,600.00                                                                                 | 12,474.00             | 14,185.55             | 12,043.00             | 56.29            | 55.00         | -90.39                 | -2,065.73                           | -1,500.51    | 1,387.60               | 1,279.73                | 107.87                    | 12.863            |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #131H - Wellbore #1 - Design #1 |                             |                             |                             |                     |                  |                              |                                           |                 |                                 |                      |         | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|-------------------------------------------|-----------------|---------------------------------|----------------------|---------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                             |                             |                             |                     |                  |                              |                                           |                 |                                 |                      |         | Offset Well Error: | 0.00 usft |
| Reference                                                                                 |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Distance                                  |                 | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                    |           |
| Measured<br>Depth<br>(usft)                                                               | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                                 |                      |         |                    |           |
| 14,700.00                                                                                 | 12,474.00                   | 14,285.55                   | 12,043.00                   | 57.32               | 56.05            | -90.39                       | -2,165.73                                 | -1,499.83       | 1,387.59                        | 1,277.71             | 109.87  | 12.629             |           |
| 14,800.00                                                                                 | 12,474.00                   | 14,385.55                   | 12,043.00                   | 58.39               | 57.13            | -90.39                       | -2,265.72                                 | -1,499.16       | 1,387.57                        | 1,275.64             | 111.93  | 12.397             |           |
| 14,900.00                                                                                 | 12,474.00                   | 14,485.55                   | 12,043.00                   | 59.48               | 58.23            | -90.39                       | -2,365.72                                 | -1,498.49       | 1,387.56                        | 1,273.52             | 114.04  | 12.167             |           |
| 15,000.00                                                                                 | 12,474.00                   | 14,585.55                   | 12,043.00                   | 60.60               | 59.36            | -90.39                       | -2,465.72                                 | -1,497.82       | 1,387.55                        | 1,271.35             | 116.20  | 11.941             |           |
| 15,100.00                                                                                 | 12,474.00                   | 14,685.55                   | 12,043.00                   | 61.74               | 60.51            | -90.39                       | -2,565.72                                 | -1,497.15       | 1,387.53                        | 1,269.13             | 118.40  | 11.719             |           |
| 15,200.00                                                                                 | 12,474.00                   | 14,785.55                   | 12,043.00                   | 62.90               | 61.68            | -90.39                       | -2,665.71                                 | -1,496.47       | 1,387.52                        | 1,266.87             | 120.65  | 11.501             |           |
| 15,300.00                                                                                 | 12,474.00                   | 14,885.55                   | 12,043.00                   | 64.08               | 62.88            | -90.39                       | -2,765.71                                 | -1,495.80       | 1,387.50                        | 1,264.57             | 122.93  | 11.287             |           |
| 15,400.00                                                                                 | 12,474.00                   | 14,985.55                   | 12,043.00                   | 65.29               | 64.10            | -90.39                       | -2,865.71                                 | -1,495.13       | 1,387.49                        | 1,262.23             | 125.26  | 11.077             |           |
| 15,500.00                                                                                 | 12,474.00                   | 15,085.55                   | 12,043.00                   | 66.51               | 65.33            | -90.39                       | -2,965.71                                 | -1,494.46       | 1,387.48                        | 1,259.85             | 127.62  | 10.872             |           |
| 15,600.00                                                                                 | 12,474.00                   | 15,185.55                   | 12,043.00                   | 67.75               | 66.59            | -90.39                       | -3,065.70                                 | -1,493.79       | 1,387.46                        | 1,257.44             | 130.02  | 10.671             |           |
| 15,700.00                                                                                 | 12,474.00                   | 15,285.55                   | 12,043.00                   | 69.01               | 67.86            | -90.39                       | -3,165.70                                 | -1,493.11       | 1,387.45                        | 1,255.00             | 132.45  | 10.475             |           |
| 15,800.00                                                                                 | 12,474.00                   | 15,385.55                   | 12,043.00                   | 70.29               | 69.14            | -90.39                       | -3,265.70                                 | -1,492.44       | 1,387.44                        | 1,252.52             | 134.91  | 10.284             |           |
| 15,900.00                                                                                 | 12,474.00                   | 15,485.55                   | 12,043.00                   | 71.58               | 70.45            | -90.39                       | -3,365.70                                 | -1,491.77       | 1,387.42                        | 1,250.02             | 137.41  | 10.097             |           |
| 16,000.00                                                                                 | 12,474.00                   | 15,585.55                   | 12,043.00                   | 72.89               | 71.76            | -90.39                       | -3,465.70                                 | -1,491.10       | 1,387.41                        | 1,247.49             | 139.92  | 9.915              |           |
| 16,100.00                                                                                 | 12,474.00                   | 15,685.55                   | 12,043.00                   | 74.20               | 73.09            | -90.39                       | -3,565.69                                 | -1,490.43       | 1,387.40                        | 1,244.93             | 142.47  | 9.738              |           |
| 16,200.00                                                                                 | 12,474.00                   | 15,785.55                   | 12,043.00                   | 75.54               | 74.44            | -90.39                       | -3,665.69                                 | -1,489.75       | 1,387.38                        | 1,242.34             | 145.04  | 9.565              |           |
| 16,300.00                                                                                 | 12,474.00                   | 15,885.55                   | 12,043.00                   | 76.88               | 75.79            | -90.39                       | -3,765.69                                 | -1,489.08       | 1,387.37                        | 1,239.74             | 147.63  | 9.397              |           |
| 16,400.00                                                                                 | 12,474.00                   | 15,985.55                   | 12,043.00                   | 78.24               | 77.16            | -90.39                       | -3,865.69                                 | -1,488.41       | 1,387.36                        | 1,237.11             | 150.25  | 9.234              |           |
| 16,500.00                                                                                 | 12,474.00                   | 16,085.55                   | 12,043.00                   | 79.61               | 78.54            | -90.39                       | -3,965.68                                 | -1,487.74       | 1,387.34                        | 1,234.45             | 152.89  | 9.074              |           |
| 16,600.00                                                                                 | 12,474.00                   | 16,185.55                   | 12,043.00                   | 80.99               | 79.93            | -90.39                       | -4,065.68                                 | -1,487.07       | 1,387.33                        | 1,231.78             | 155.55  | 8.919              |           |
| 16,700.00                                                                                 | 12,474.00                   | 16,285.55                   | 12,043.00                   | 82.37               | 81.32            | -90.39                       | -4,165.68                                 | -1,486.39       | 1,387.32                        | 1,229.09             | 158.22  | 8.768              |           |
| 16,800.00                                                                                 | 12,474.00                   | 16,385.55                   | 12,043.00                   | 83.77               | 82.73            | -90.39                       | -4,265.68                                 | -1,485.72       | 1,387.30                        | 1,226.38             | 160.92  | 8.621              |           |
| 16,900.00                                                                                 | 12,474.00                   | 16,485.55                   | 12,043.00                   | 85.18               | 84.15            | -90.39                       | -4,365.68                                 | -1,485.05       | 1,387.29                        | 1,223.66             | 163.63  | 8.478              |           |
| 17,000.00                                                                                 | 12,474.00                   | 16,585.55                   | 12,043.00                   | 86.59               | 85.57            | -90.39                       | -4,465.67                                 | -1,484.38       | 1,387.28                        | 1,220.91             | 166.36  | 8.339              |           |
| 17,100.00                                                                                 | 12,474.00                   | 16,685.55                   | 12,043.00                   | 88.02               | 87.01            | -90.39                       | -4,565.67                                 | -1,483.71       | 1,387.26                        | 1,218.16             | 169.11  | 8.204              |           |
| 17,200.00                                                                                 | 12,474.00                   | 16,785.55                   | 12,043.00                   | 89.45               | 88.45            | -90.39                       | -4,665.67                                 | -1,483.03       | 1,387.25                        | 1,215.38             | 171.87  | 8.072              |           |
| 17,226.60                                                                                 | 12,474.00                   | 16,812.15                   | 12,043.00                   | 89.83               | 88.83            | -90.39                       | -4,692.27                                 | -1,482.86       | 1,387.24                        | 1,214.64             | 172.60  | 8.037              |           |
| 17,227.36                                                                                 | 12,474.00                   | 16,812.78                   | 12,043.00                   | 89.85               | 88.85            | -90.38                       | -4,692.90                                 | -1,482.85       | 1,387.24                        | 1,214.63             | 172.62  | 8.036 SF           |           |



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #132H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                        |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                        |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                                                 |                       | Offset                |                       | Semi Major Axis  |               | Azimuth from North (°) | 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                  | 1.00                  | 1.00                  | 0.00             | 0.00          | 89.61                  | 0.41                   | 60.00        | 60.00                  |                         |                           |                   |                    |           |
| 100.00                                                                                    | 100.00                | 101.00                | 101.00                | 0.13             | 0.13          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 59.74                   | 0.26                      | 230.867           |                    |           |
| 200.00                                                                                    | 200.00                | 201.00                | 201.00                | 0.49             | 0.49          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 59.02                   | 0.98                      | 61.423            |                    |           |
| 300.00                                                                                    | 300.00                | 301.00                | 301.00                | 0.85             | 0.85          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 58.31                   | 1.69                      | 35.424            |                    |           |
| 400.00                                                                                    | 400.00                | 401.00                | 401.00                | 1.20             | 1.21          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 57.59                   | 2.41                      | 24.889            |                    |           |
| 500.00                                                                                    | 500.00                | 501.00                | 501.00                | 1.56             | 1.57          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 56.87                   | 3.13                      | 19.184            |                    |           |
| 600.00                                                                                    | 600.00                | 601.00                | 601.00                | 1.92             | 1.92          | 89.61                  | 0.41                   | 60.00        | 60.00                  | 56.16                   | 3.84                      | 15.606            | CC                 |           |
| 700.00                                                                                    | 699.99                | 700.99                | 700.99                | 2.28             | 2.28          | 90.31                  | 0.41                   | 60.00        | 60.47                  | 55.91                   | 4.56                      | 13.261            | ES                 |           |
| 800.00                                                                                    | 799.96                | 800.96                | 800.96                | 2.64             | 2.64          | 92.34                  | 0.41                   | 60.00        | 61.93                  | 56.66                   | 5.27                      | 11.741            |                    |           |
| 900.00                                                                                    | 899.86                | 900.86                | 900.86                | 2.99             | 3.00          | 95.51                  | 0.41                   | 60.00        | 64.53                  | 58.54                   | 5.99                      | 10.773            |                    |           |
| 999.81                                                                                    | 999.49                | 1,000.49              | 1,000.49              | 3.35             | 3.36          | 99.53                  | 0.41                   | 60.00        | 68.46                  | 61.75                   | 6.71                      | 10.210            |                    |           |
| 1,000.00                                                                                  | 999.68                | 1,000.68              | 1,000.68              | 3.35             | 3.36          | 99.54                  | 0.41                   | 60.00        | 68.47                  | 61.76                   | 6.71                      | 10.209            |                    |           |
| 1,100.00                                                                                  | 1,099.43              | 1,100.43              | 1,100.43              | 3.72             | 3.71          | 103.58                 | 0.41                   | 60.00        | 73.33                  | 65.91                   | 7.42                      | 9.877             |                    |           |
| 1,200.00                                                                                  | 1,199.19              | 1,200.19              | 1,200.19              | 4.08             | 4.07          | 107.10                 | 0.41                   | 60.00        | 78.51                  | 70.37                   | 8.14                      | 9.643             |                    |           |
| 1,300.00                                                                                  | 1,298.95              | 1,300.78              | 1,300.78              | 4.45             | 4.43          | 109.68                 | 1.27                   | 59.77        | 83.45                  | 74.59                   | 8.86                      | 9.417             |                    |           |
| 1,400.00                                                                                  | 1,398.70              | 1,401.55              | 1,401.51              | 4.82             | 4.79          | 111.04                 | 3.84                   | 59.09        | 87.50                  | 77.92                   | 9.58                      | 9.132             |                    |           |
| 1,500.00                                                                                  | 1,498.46              | 1,502.43              | 1,502.29              | 5.18             | 5.16          | 111.38                 | 8.13                   | 57.95        | 90.54                  | 80.24                   | 10.30                     | 8.788             |                    |           |
| 1,600.00                                                                                  | 1,598.22              | 1,603.32              | 1,602.99              | 5.55             | 5.52          | 110.82                 | 14.13                  | 56.36        | 92.55                  | 81.52                   | 11.03                     | 8.394             |                    |           |
| 1,700.00                                                                                  | 1,697.97              | 1,703.30              | 1,702.72              | 5.92             | 5.88          | 109.90                 | 20.87                  | 54.56        | 94.08                  | 82.34                   | 11.75                     | 8.008             |                    |           |
| 1,800.00                                                                                  | 1,797.73              | 1,803.28              | 1,802.46              | 6.29             | 6.24          | 109.00                 | 27.61                  | 52.77        | 95.65                  | 83.17                   | 12.47                     | 7.668             |                    |           |
| 1,900.00                                                                                  | 1,897.48              | 1,903.25              | 1,902.19              | 6.66             | 6.60          | 108.14                 | 34.36                  | 50.98        | 97.23                  | 84.03                   | 13.20                     | 7.366             |                    |           |
| 2,000.00                                                                                  | 1,997.24              | 2,003.23              | 2,001.92              | 7.03             | 6.97          | 107.30                 | 41.10                  | 49.19        | 98.84                  | 84.91                   | 13.93                     | 7.096             |                    |           |
| 2,100.00                                                                                  | 2,097.00              | 2,103.21              | 2,101.66              | 7.41             | 7.33          | 106.49                 | 47.85                  | 47.40        | 100.46                 | 85.81                   | 14.66                     | 6.854             |                    |           |
| 2,200.00                                                                                  | 2,196.75              | 2,203.18              | 2,201.39              | 7.78             | 7.70          | 105.71                 | 54.59                  | 45.60        | 102.11                 | 86.72                   | 15.39                     | 6.636             |                    |           |
| 2,300.00                                                                                  | 2,296.51              | 2,303.16              | 2,301.12              | 8.15             | 8.06          | 104.95                 | 61.33                  | 43.81        | 103.78                 | 87.66                   | 16.12                     | 6.438             |                    |           |
| 2,400.00                                                                                  | 2,396.27              | 2,403.14              | 2,400.85              | 8.52             | 8.43          | 104.22                 | 68.08                  | 42.02        | 105.46                 | 88.61                   | 16.85                     | 6.258             |                    |           |
| 2,500.00                                                                                  | 2,496.02              | 2,503.11              | 2,500.59              | 8.89             | 8.80          | 103.51                 | 74.82                  | 40.23        | 107.16                 | 89.57                   | 17.58                     | 6.094             |                    |           |
| 2,600.00                                                                                  | 2,595.78              | 2,603.09              | 2,600.32              | 9.26             | 9.17          | 102.82                 | 81.57                  | 38.44        | 108.87                 | 90.55                   | 18.32                     | 5.943             |                    |           |
| 2,700.00                                                                                  | 2,695.54              | 2,703.07              | 2,700.05              | 9.64             | 9.53          | 102.15                 | 88.31                  | 36.64        | 110.60                 | 91.55                   | 19.05                     | 5.805             |                    |           |
| 2,800.00                                                                                  | 2,795.29              | 2,803.05              | 2,799.79              | 10.01            | 9.90          | 101.51                 | 95.05                  | 34.85        | 112.35                 | 92.56                   | 19.79                     | 5.677             |                    |           |
| 2,900.00                                                                                  | 2,895.05              | 2,903.02              | 2,899.52              | 10.38            | 10.27         | 100.88                 | 101.80                 | 33.06        | 114.11                 | 93.58                   | 20.53                     | 5.559             |                    |           |
| 3,000.00                                                                                  | 2,994.81              | 3,003.00              | 2,999.25              | 10.75            | 10.64         | 100.27                 | 108.54                 | 31.27        | 115.88                 | 94.62                   | 21.26                     | 5.450             |                    |           |
| 3,100.00                                                                                  | 3,094.56              | 3,102.98              | 3,098.99              | 11.12            | 11.01         | 99.69                  | 115.29                 | 29.48        | 117.66                 | 95.66                   | 22.00                     | 5.348             |                    |           |
| 3,200.00                                                                                  | 3,194.32              | 3,202.95              | 3,198.72              | 11.50            | 11.38         | 99.12                  | 122.03                 | 27.68        | 119.46                 | 96.72                   | 22.74                     | 5.254             |                    |           |
| 3,300.00                                                                                  | 3,294.08              | 3,302.93              | 3,298.45              | 11.87            | 11.75         | 98.56                  | 128.77                 | 25.89        | 121.27                 | 97.79                   | 23.48                     | 5.166             |                    |           |
| 3,400.00                                                                                  | 3,393.83              | 3,402.91              | 3,398.18              | 12.24            | 12.12         | 98.02                  | 135.52                 | 24.10        | 123.09                 | 98.87                   | 24.21                     | 5.083             |                    |           |
| 3,500.00                                                                                  | 3,493.59              | 3,502.88              | 3,497.92              | 12.61            | 12.49         | 97.50                  | 142.26                 | 22.31        | 124.92                 | 99.96                   | 24.95                     | 5.006             |                    |           |
| 3,600.00                                                                                  | 3,593.35              | 3,602.86              | 3,597.65              | 12.99            | 12.86         | 96.99                  | 149.01                 | 20.52        | 126.76                 | 101.06                  | 25.69                     | 4.934             |                    |           |
| 3,700.00                                                                                  | 3,693.10              | 3,702.84              | 3,697.38              | 13.36            | 13.23         | 96.50                  | 155.75                 | 18.72        | 128.61                 | 102.17                  | 26.43                     | 4.865             |                    |           |
| 3,800.00                                                                                  | 3,792.86              | 3,802.81              | 3,797.12              | 13.73            | 13.60         | 96.02                  | 162.49                 | 16.93        | 130.46                 | 103.29                  | 27.17                     | 4.801             |                    |           |
| 3,900.00                                                                                  | 3,892.62              | 3,902.79              | 3,896.85              | 14.11            | 13.97         | 95.56                  | 169.24                 | 15.14        | 132.33                 | 104.42                  | 27.91                     | 4.741             |                    |           |
| 4,000.00                                                                                  | 3,992.37              | 4,002.77              | 3,996.58              | 14.48            | 14.35         | 95.11                  | 175.98                 | 13.35        | 134.21                 | 105.55                  | 28.65                     | 4.684             |                    |           |
| 4,100.00                                                                                  | 4,092.13              | 4,102.74              | 4,096.32              | 14.85            | 14.72         | 94.67                  | 182.73                 | 11.56        | 136.09                 | 106.70                  | 29.40                     | 4.630             |                    |           |
| 4,200.00                                                                                  | 4,191.89              | 4,202.72              | 4,196.05              | 15.22            | 15.09         | 94.24                  | 189.47                 | 9.76         | 137.98                 | 107.85                  | 30.14                     | 4.579             |                    |           |
| 4,300.00                                                                                  | 4,291.64              | 4,302.70              | 4,295.78              | 15.60            | 15.46         | 93.82                  | 196.21                 | 7.97         | 139.88                 | 109.01                  | 30.88                     | 4.530             |                    |           |
| 4,400.00                                                                                  | 4,391.40              | 4,402.68              | 4,395.52              | 15.97            | 15.83         | 93.42                  | 202.96                 | 6.18         | 141.79                 | 110.17                  | 31.62                     | 4.484             |                    |           |
| 4,500.00                                                                                  | 4,491.16              | 4,502.65              | 4,495.25              | 16.34            | 16.20         | 93.03                  | 209.70                 | 4.39         | 143.71                 | 111.34                  | 32.36                     | 4.441             |                    |           |
| 4,600.00                                                                                  | 4,590.91              | 4,602.63              | 4,594.98              | 16.72            | 16.57         | 92.64                  | 216.45                 | 2.60         | 145.63                 | 112.52                  | 33.10                     | 4.399             |                    |           |
| 4,700.00                                                                                  | 4,690.67              | 4,702.61              | 4,694.71              | 17.09            | 16.94         | 92.27                  | 223.19                 | 0.80         | 147.55                 | 113.71                  | 33.85                     | 4.359             |                    |           |
| 4,800.00                                                                                  | 4,790.43              | 4,802.58              | 4,794.45              | 17.46            | 17.32         | 91.91                  | 229.93                 | -0.99        | 149.49                 | 114.90                  | 34.59                     | 4.322             |                    |           |
| 4,900.00                                                                                  | 4,890.18              | 4,902.56              | 4,894.18              | 17.83            | 17.69         | 91.55                  | 236.68                 | -2.78        | 151.42                 | 116.09                  | 35.33                     | 4.286             |                    |           |
| 5,000.00                                                                                  | 4,989.94              | 5,002.54              | 4,993.91              | 18.21            | 18.06         | 91.21                  | 243.42                 | -4.57        | 153.37                 | 117.29                  | 36.08                     | 4.251             |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #132H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,100.00                                                                                  | 5,089.70              | 5,102.51              | 5,093.65              | 18.58            | 18.43         | 90.87                  | 250.17                              | -6.36        | 155.32                 | 118.50                  | 36.82                     | 4.219             |                    |           |
| 5,200.00                                                                                  | 5,189.45              | 5,202.49              | 5,193.38              | 18.95            | 18.80         | 90.54                  | 256.91                              | -8.16        | 157.27                 | 119.71                  | 37.56                     | 4.187             |                    |           |
| 5,300.00                                                                                  | 5,289.21              | 5,302.47              | 5,293.11              | 19.33            | 19.18         | 90.22                  | 263.65                              | -9.95        | 159.23                 | 120.93                  | 38.30                     | 4.157             |                    |           |
| 5,400.00                                                                                  | 5,388.97              | 5,402.44              | 5,392.85              | 19.70            | 19.55         | 89.91                  | 270.40                              | -11.74       | 161.20                 | 122.15                  | 39.05                     | 4.128             |                    |           |
| 5,500.00                                                                                  | 5,488.72              | 5,502.42              | 5,492.58              | 20.07            | 19.92         | 89.60                  | 277.14                              | -13.53       | 163.17                 | 123.38                  | 39.79                     | 4.101             |                    |           |
| 5,600.00                                                                                  | 5,588.48              | 5,602.40              | 5,592.31              | 20.45            | 20.29         | 89.30                  | 283.89                              | -15.32       | 165.14                 | 124.61                  | 40.54                     | 4.074             |                    |           |
| 5,700.00                                                                                  | 5,688.24              | 5,702.37              | 5,692.04              | 20.82            | 20.66         | 89.01                  | 290.63                              | -17.12       | 167.12                 | 125.84                  | 41.28                     | 4.049             |                    |           |
| 5,800.00                                                                                  | 5,787.99              | 5,802.35              | 5,791.78              | 21.19            | 21.04         | 88.73                  | 297.37                              | -18.91       | 169.11                 | 127.08                  | 42.02                     | 4.024             |                    |           |
| 5,900.00                                                                                  | 5,887.75              | 5,901.78              | 5,890.99              | 21.57            | 21.40         | 88.58                  | 303.73                              | -20.60       | 171.18                 | 128.42                  | 42.76                     | 4.003             |                    |           |
| 5,910.95                                                                                  | 5,898.68              | 5,912.62              | 5,901.81              | 21.61            | 21.44         | 88.61                  | 304.30                              | -20.75       | 171.43                 | 128.59                  | 42.84                     | 4.002             |                    |           |
| 6,000.00                                                                                  | 5,987.57              | 6,000.70              | 5,989.82              | 21.93            | 21.76         | 88.89                  | 307.85                              | -21.69       | 173.25                 | 129.77                  | 43.48                     | 3.985             |                    |           |
| 6,100.00                                                                                  | 6,087.51              | 6,100.00              | 6,089.10              | 22.29            | 22.11         | 89.28                  | 309.50                              | -22.13       | 174.59                 | 130.41                  | 44.18                     | 3.951             |                    |           |
| 6,177.49                                                                                  | 6,165.00              | 6,176.90              | 6,166.00              | 22.56            | 22.38         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 130.28                  | 44.72                     | 3.913             |                    |           |
| 6,200.00                                                                                  | 6,187.51              | 6,199.41              | 6,188.51              | 22.64            | 22.46         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 130.12                  | 44.88                     | 3.900             |                    |           |
| 6,300.00                                                                                  | 6,287.51              | 6,299.41              | 6,288.51              | 22.99            | 22.81         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 129.43                  | 45.57                     | 3.840             |                    |           |
| 6,400.00                                                                                  | 6,387.51              | 6,399.41              | 6,388.51              | 23.33            | 23.16         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 128.73                  | 46.27                     | 3.782             |                    |           |
| 6,500.00                                                                                  | 6,487.51              | 6,499.41              | 6,488.51              | 23.68            | 23.51         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 128.04                  | 46.96                     | 3.726             |                    |           |
| 6,600.00                                                                                  | 6,587.51              | 6,599.41              | 6,588.51              | 24.02            | 23.86         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 127.34                  | 47.66                     | 3.672             |                    |           |
| 6,700.00                                                                                  | 6,687.51              | 6,699.41              | 6,688.51              | 24.37            | 24.21         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 126.64                  | 48.36                     | 3.619             |                    |           |
| 6,800.00                                                                                  | 6,787.51              | 6,799.41              | 6,788.51              | 24.72            | 24.56         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 125.94                  | 49.06                     | 3.567             |                    |           |
| 6,900.00                                                                                  | 6,887.51              | 6,899.41              | 6,888.51              | 25.06            | 24.91         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 125.24                  | 49.76                     | 3.517             |                    |           |
| 7,000.00                                                                                  | 6,987.51              | 6,999.41              | 6,988.51              | 25.41            | 25.26         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 124.54                  | 50.46                     | 3.468             |                    |           |
| 7,100.00                                                                                  | 7,087.51              | 7,099.41              | 7,088.51              | 25.76            | 25.61         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 123.84                  | 51.16                     | 3.421             |                    |           |
| 7,200.00                                                                                  | 7,187.51              | 7,199.41              | 7,188.51              | 26.11            | 25.96         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 123.14                  | 51.86                     | 3.375             |                    |           |
| 7,300.00                                                                                  | 7,287.51              | 7,299.41              | 7,288.51              | 26.45            | 26.31         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 122.44                  | 52.56                     | 3.330             |                    |           |
| 7,400.00                                                                                  | 7,387.51              | 7,399.41              | 7,388.51              | 26.80            | 26.66         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 121.74                  | 53.26                     | 3.286             |                    |           |
| 7,500.00                                                                                  | 7,487.51              | 7,499.41              | 7,488.51              | 27.15            | 27.02         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 121.04                  | 53.96                     | 3.243             |                    |           |
| 7,600.00                                                                                  | 7,587.51              | 7,599.41              | 7,588.51              | 27.50            | 27.37         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 120.33                  | 54.67                     | 3.201             |                    |           |
| 7,700.00                                                                                  | 7,687.51              | 7,699.41              | 7,688.51              | 27.85            | 27.72         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 119.63                  | 55.37                     | 3.161             |                    |           |
| 7,800.00                                                                                  | 7,787.51              | 7,799.41              | 7,788.51              | 28.20            | 28.07         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 118.93                  | 56.07                     | 3.121             |                    |           |
| 7,900.00                                                                                  | 7,887.51              | 7,899.41              | 7,888.51              | 28.55            | 28.42         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 118.22                  | 56.78                     | 3.082             |                    |           |
| 8,000.00                                                                                  | 7,987.51              | 7,999.41              | 7,988.51              | 28.90            | 28.78         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 117.52                  | 57.48                     | 3.045             |                    |           |
| 8,100.00                                                                                  | 8,087.51              | 8,099.41              | 8,088.51              | 29.25            | 29.13         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 116.82                  | 58.18                     | 3.008             |                    |           |
| 8,200.00                                                                                  | 8,187.51              | 8,199.41              | 8,188.51              | 29.60            | 29.48         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 116.11                  | 58.89                     | 2.972             |                    |           |
| 8,300.00                                                                                  | 8,287.51              | 8,299.41              | 8,288.51              | 29.95            | 29.83         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 115.41                  | 59.59                     | 2.937             |                    |           |
| 8,400.00                                                                                  | 8,387.51              | 8,399.41              | 8,388.51              | 30.30            | 30.19         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 114.70                  | 60.30                     | 2.902             |                    |           |
| 8,500.00                                                                                  | 8,487.51              | 8,499.41              | 8,488.51              | 30.65            | 30.54         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 114.00                  | 61.00                     | 2.869             |                    |           |
| 8,600.00                                                                                  | 8,587.51              | 8,599.41              | 8,588.51              | 31.00            | 30.89         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 113.29                  | 61.71                     | 2.836             |                    |           |
| 8,700.00                                                                                  | 8,687.51              | 8,699.41              | 8,688.51              | 31.35            | 31.25         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 112.59                  | 62.41                     | 2.804             |                    |           |
| 8,800.00                                                                                  | 8,787.51              | 8,799.41              | 8,788.51              | 31.70            | 31.60         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 111.88                  | 63.12                     | 2.773             |                    |           |
| 8,900.00                                                                                  | 8,887.51              | 8,899.41              | 8,888.51              | 32.06            | 31.95         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 111.17                  | 63.83                     | 2.742             |                    |           |
| 9,000.00                                                                                  | 8,987.51              | 8,999.41              | 8,988.51              | 32.41            | 32.31         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 110.47                  | 64.53                     | 2.712             |                    |           |
| 9,100.00                                                                                  | 9,087.51              | 9,099.41              | 9,088.51              | 32.76            | 32.66         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 109.76                  | 65.24                     | 2.682             |                    |           |
| 9,200.00                                                                                  | 9,187.51              | 9,199.41              | 9,188.51              | 33.11            | 33.02         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 109.05                  | 65.95                     | 2.654             |                    |           |
| 9,300.00                                                                                  | 9,287.51              | 9,299.41              | 9,288.51              | 33.46            | 33.37         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 108.35                  | 66.65                     | 2.626             |                    |           |
| 9,400.00                                                                                  | 9,387.51              | 9,399.41              | 9,388.51              | 33.82            | 33.72         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 107.64                  | 67.36                     | 2.598             |                    |           |
| 9,500.00                                                                                  | 9,487.51              | 9,499.41              | 9,488.51              | 34.17            | 34.08         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 106.93                  | 68.07                     | 2.571             |                    |           |
| 9,600.00                                                                                  | 9,587.51              | 9,599.41              | 9,588.51              | 34.52            | 34.43         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 106.22                  | 68.78                     | 2.544             |                    |           |
| 9,700.00                                                                                  | 9,687.51              | 9,699.41              | 9,688.51              | 34.87            | 34.79         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 105.52                  | 69.48                     | 2.519             |                    |           |
| 9,800.00                                                                                  | 9,787.51              | 9,799.41              | 9,788.51              | 35.23            | 35.14         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 104.81                  | 70.19                     | 2.493             |                    |           |
| 9,900.00                                                                                  | 9,887.51              | 9,899.41              | 9,888.51              | 35.58            | 35.50         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 104.10                  | 70.90                     | 2.468             |                    |           |
| 10,000.00                                                                                 | 9,987.51              | 9,999.41              | 9,988.51              | 35.93            | 35.85         | 89.49                  | 309.53                              | -22.14       | 175.00                 | 103.39                  | 71.61                     | 2.444             |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #132H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                    |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                    |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 10,100.00                                                                                 | 10,087.51             | 10,099.41             | 10,088.51             | 36.28            | 36.20         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 102.68                  | 72.32                     | 2.420             |                    |           |
| 10,200.00                                                                                 | 10,187.51             | 10,199.41             | 10,188.51             | 36.64            | 36.56         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 101.97                  | 73.03                     | 2.396             |                    |           |
| 10,300.00                                                                                 | 10,287.51             | 10,299.41             | 10,288.51             | 36.99            | 36.91         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 101.26                  | 73.74                     | 2.373             |                    |           |
| 10,400.00                                                                                 | 10,387.51             | 10,399.41             | 10,388.51             | 37.34            | 37.27         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 100.56                  | 74.44                     | 2.351             |                    |           |
| 10,500.00                                                                                 | 10,487.51             | 10,499.41             | 10,488.51             | 37.70            | 37.62         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 99.85                   | 75.15                     | 2.329             |                    |           |
| 10,600.00                                                                                 | 10,587.51             | 10,599.41             | 10,588.51             | 38.05            | 37.98         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 99.14                   | 75.86                     | 2.307             |                    |           |
| 10,700.00                                                                                 | 10,687.51             | 10,699.41             | 10,688.51             | 38.41            | 38.33         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 98.43                   | 76.57                     | 2.285             |                    |           |
| 10,800.00                                                                                 | 10,787.51             | 10,799.41             | 10,788.51             | 38.76            | 38.69         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 97.72                   | 77.28                     | 2.264             |                    |           |
| 10,900.00                                                                                 | 10,887.51             | 10,899.41             | 10,888.51             | 39.11            | 39.04         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 97.01                   | 77.99                     | 2.244             |                    |           |
| 11,000.00                                                                                 | 10,987.51             | 10,999.41             | 10,988.51             | 39.47            | 39.40         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 96.30                   | 78.70                     | 2.224             |                    |           |
| 11,100.00                                                                                 | 11,087.51             | 11,099.41             | 11,088.51             | 39.82            | 39.76         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 95.59                   | 79.41                     | 2.204             |                    |           |
| 11,200.00                                                                                 | 11,187.51             | 11,199.41             | 11,188.51             | 40.18            | 40.11         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 94.88                   | 80.12                     | 2.184             |                    |           |
| 11,300.00                                                                                 | 11,287.51             | 11,299.41             | 11,288.51             | 40.53            | 40.47         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 94.17                   | 80.83                     | 2.165             |                    |           |
| 11,400.00                                                                                 | 11,387.51             | 11,399.41             | 11,388.51             | 40.88            | 40.82         | 89.49                  | 309.53                             | -22.14       | 175.00                 | 93.46                   | 81.54                     | 2.146             |                    |           |
| 11,500.00                                                                                 | 11,487.51             | 11,502.90             | 11,491.89             | 41.24            | 41.17         | 90.46                  | 306.56                             | -22.73       | 174.44                 | 92.20                   | 82.24                     | 2.121             |                    |           |
| 11,600.00                                                                                 | 11,587.51             | 11,605.37             | 11,592.34             | 41.59            | 41.46         | 96.88                  | 287.38                             | -26.56       | 171.85                 | 89.01                   | 82.84                     | 2.075             |                    |           |
| 11,643.93                                                                                 | 11,631.44             | 11,647.60             | 11,632.44             | 41.75            | 41.57         | 101.30                 | 274.41                             | -29.16       | 171.30                 | 88.24                   | 83.06                     | 2.062 SF          |                    |           |
| 11,700.00                                                                                 | 11,687.51             | 11,698.30             | 11,679.13             | 41.95            | 41.69         | 107.87                 | 255.07                             | -33.02       | 172.68                 | 89.50                   | 83.19                     | 2.076             |                    |           |
| 11,800.00                                                                                 | 11,787.51             | 11,778.90             | 11,749.24             | 42.30            | 41.87         | 120.41                 | 216.22                             | -40.78       | 185.49                 | 103.22                  | 82.26                     | 2.255             |                    |           |
| 11,900.00                                                                                 | 11,887.51             | 11,850.00             | 11,805.95             | 42.66            | 42.00         | 132.11                 | 174.24                             | -49.17       | 215.85                 | 136.25                  | 79.60                     | 2.712             |                    |           |
| 11,907.73                                                                                 | 11,895.24             | 11,850.00             | 11,805.95             | 42.68            | 42.00         | 132.11                 | 174.24                             | -49.17       | 218.93                 | 140.02                  | 78.90                     | 2.775             |                    |           |
| 11,950.00                                                                                 | 11,937.47             | 11,877.34             | 11,826.27             | 42.82            | 42.05         | 136.12                 | 156.32                             | -52.75       | 236.56                 | 159.16                  | 77.40                     | 3.056             |                    |           |
| 12,000.00                                                                                 | 11,987.11             | 11,907.24             | 11,847.48             | 42.97            | 42.10         | 139.63                 | 135.64                             | -56.88       | 258.13                 | 182.75                  | 75.38                     | 3.424             |                    |           |
| 12,050.00                                                                                 | 12,036.05             | 11,936.73             | 11,867.28             | 43.12            | 42.15         | 142.36                 | 114.22                             | -61.16       | 279.85                 | 206.52                  | 73.34                     | 3.816             |                    |           |
| 12,100.00                                                                                 | 12,083.92             | 11,965.84             | 11,885.70             | 43.25            | 42.19         | 144.46                 | 92.12                              | -65.58       | 301.26                 | 229.95                  | 71.31                     | 4.225             |                    |           |
| 12,150.00                                                                                 | 12,130.35             | 12,000.00             | 11,905.83             | 43.37            | 42.25         | 146.83                 | 65.06                              | -70.99       | 322.07                 | 252.30                  | 69.77                     | 4.616             |                    |           |
| 12,200.00                                                                                 | 12,175.00             | 12,023.14             | 11,918.51             | 43.49            | 42.29         | 147.18                 | 46.09                              | -74.78       | 341.84                 | 274.48                  | 67.36                     | 5.074             |                    |           |
| 12,250.00                                                                                 | 12,217.51             | 12,050.00             | 11,932.24             | 43.59            | 42.34         | 147.69                 | 23.45                              | -79.30       | 360.58                 | 295.20                  | 65.38                     | 5.515             |                    |           |
| 12,300.00                                                                                 | 12,257.57             | 12,079.44             | 11,946.02             | 43.68            | 42.40         | 148.27                 | -2.06                              | -84.40       | 378.07                 | 314.39                  | 63.68                     | 5.937             |                    |           |
| 12,350.00                                                                                 | 12,294.88             | 12,100.00             | 11,954.85             | 43.76            | 42.44         | 146.92                 | -20.27                             | -88.04       | 394.31                 | 332.80                  | 61.51                     | 6.410             |                    |           |
| 12,400.00                                                                                 | 12,329.14             | 12,135.00             | 11,968.32             | 43.83            | 42.50         | 147.80                 | -51.93                             | -94.36       | 408.87                 | 348.49                  | 60.38                     | 6.772             |                    |           |
| 12,450.00                                                                                 | 12,360.10             | 12,162.55             | 11,977.52             | 43.90            | 42.56         | 146.89                 | -77.40                             | -99.45       | 422.00                 | 363.09                  | 58.91                     | 7.163             |                    |           |
| 12,500.00                                                                                 | 12,387.52             | 12,200.00             | 11,988.01             | 43.96            | 42.63         | 147.77                 | -112.65                            | -106.50      | 433.73                 | 375.69                  | 58.05                     | 7.472             |                    |           |
| 12,550.00                                                                                 | 12,411.20             | 12,217.31             | 11,992.06             | 44.03            | 42.67         | 143.05                 | -129.15                            | -109.79      | 443.41                 | 386.96                  | 56.45                     | 7.854             |                    |           |
| 12,600.00                                                                                 | 12,430.95             | 12,250.00             | 11,998.31             | 44.11            | 42.73         | 141.50                 | -160.61                            | -116.08      | 451.65                 | 396.00                  | 55.66                     | 8.115             |                    |           |
| 12,650.00                                                                                 | 12,446.62             | 12,271.73             | 12,001.45             | 44.20            | 42.78         | 134.36                 | -181.69                            | -120.29      | 458.05                 | 403.29                  | 54.76                     | 8.365             |                    |           |
| 12,700.00                                                                                 | 12,458.10             | 12,300.00             | 12,004.31             | 44.29            | 42.84         | 126.98                 | -209.27                            | -125.80      | 462.74                 | 408.49                  | 54.25                     | 8.530             |                    |           |
| 12,707.73                                                                                 | 12,459.49             | 12,300.00             | 12,004.31             | 44.31            | 42.84         | 122.70                 | -209.27                            | -125.80      | 463.33                 | 409.17                  | 54.15                     | 8.556             |                    |           |
| 12,750.00                                                                                 | 12,465.91             | 12,325.90             | 12,005.71             | 44.39            | 42.89         | 113.53                 | -234.63                            | -130.87      | 466.27                 | 412.32                  | 53.95                     | 8.643             |                    |           |
| 12,800.00                                                                                 | 12,471.10             | 12,359.76             | 12,006.00             | 44.50            | 42.97         | 100.98                 | -267.84                            | -137.46      | 469.58                 | 415.71                  | 53.87                     | 8.718             |                    |           |
| 12,850.00                                                                                 | 12,473.69             | 12,407.91             | 12,006.00             | 44.61            | 43.08         | 100.02                 | -315.18                            | -146.24      | 471.10                 | 417.27                  | 53.83                     | 8.752             |                    |           |
| 12,874.40                                                                                 | 12,474.00             | 12,431.55             | 12,006.00             | 44.67            | 43.15         | 99.55                  | -338.48                            | -150.26      | 470.99                 | 417.17                  | 53.83                     | 8.750             |                    |           |
| 12,900.00                                                                                 | 12,474.00             | 12,456.43             | 12,006.00             | 44.73            | 43.21         | 99.05                  | -363.03                            | -154.28      | 470.62                 | 416.78                  | 53.84                     | 8.741             |                    |           |
| 13,000.00                                                                                 | 12,474.00             | 12,554.27             | 12,006.00             | 45.01            | 43.51         | 97.09                  | -459.89                            | -168.01      | 469.63                 | 415.63                  | 54.00                     | 8.696             |                    |           |
| 13,100.00                                                                                 | 12,474.00             | 12,652.99             | 12,006.00             | 45.35            | 43.87         | 95.12                  | -558.05                            | -178.51      | 469.18                 | 414.89                  | 54.30                     | 8.641             |                    |           |
| 13,200.00                                                                                 | 12,474.00             | 12,752.38             | 12,006.00             | 45.75            | 44.27         | 93.13                  | -657.17                            | -185.66      | 469.03                 | 414.36                  | 54.67                     | 8.579             |                    |           |
| 13,300.00                                                                                 | 12,474.00             | 12,852.18             | 12,006.00             | 46.20            | 44.73         | 91.15                  | -756.91                            | -189.38      | 469.00                 | 413.90                  | 55.10                     | 8.512             |                    |           |
| 13,339.78                                                                                 | 12,474.00             | 12,891.94             | 12,006.00             | 46.40            | 44.93         | -90.14                 | -796.67                            | -189.89      | 469.00                 | 413.72                  | 55.28                     | 8.484             |                    |           |
| 13,400.00                                                                                 | 12,474.00             | 12,952.17             | 12,006.00             | 46.71            | 45.24         | -90.44                 | -856.89                            | -189.72      | 469.00                 | 413.44                  | 55.56                     | 8.442             |                    |           |
| 13,500.00                                                                                 | 12,474.00             | 13,052.17             | 12,006.00             | 47.26            | 45.80         | -90.44                 | -956.89                            | -189.05      | 469.00                 | 412.95                  | 56.06                     | 8.367             |                    |           |
| 13,600.00                                                                                 | 12,474.00             | 13,152.17             | 12,006.00             | 47.87            | 46.41         | -90.44                 | -1,056.89                          | -188.39      | 469.00                 | 412.41                  | 56.59                     | 8.288             |                    |           |
| 13,700.00                                                                                 | 12,474.00             | 13,252.17             | 12,006.00             | 48.53            | 47.07         | -90.44                 | -1,156.88                          | -187.72      | 469.00                 | 411.84                  | 57.17                     | 8.204             |                    |           |

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



MS Directional  
Anticollision Report



Company: Matador Resources  
Project: Lea County, New Mexico (NAD 27)  
Reference Site: Charles Ling Fed Com  
Site Error: 0.00 usft  
Reference Well: Charles Ling Fed Com #212H  
Well Error: 0.00 usft  
Reference Wellbore: Wellbore #1  
Reference Design: Design #2

Local Co-ordinate Reference: Well Charles Ling Fed Com #212H  
TVD Reference: WELL @ 3639.50usft (Patterson 282)  
MD Reference: WELL @ 3639.50usft (Patterson 282)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM 5000.14 Conroe DB  
Offset TVD Reference: Offset Datum

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #132H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                        |              |                        |                         |                           | Offset Site Error: 0.00 usft |         |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------|--------------|------------------------|-------------------------|---------------------------|------------------------------|---------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                        |              |                        |                         |                           | Offset Well Error: 0.00 usft |         |
| Reference                                                                                 |                       | Offset                |                       | Semi Major Axis  |               | Azimuth from North (°) | Offset Wellbore Centre |              | Distance Between       |                         | Minimum Separation (usft) | Separation Factor            | Warning |
| Measured Depth (usft)                                                                     | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) |                        | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |                           |                              |         |
| 13,800.00                                                                                 | 12,474.00             | 13,352.17             | 12,006.00             | 49.23            | 47.78         | -90.44                 | -1,256.88              | -187.06      | 469.00                 | 411.23                  | 57.78                     | 8.118                        |         |
| 13,900.00                                                                                 | 12,474.00             | 13,452.17             | 12,006.00             | 49.97            | 48.54         | -90.45                 | -1,356.88              | -186.39      | 469.00                 | 410.58                  | 58.42                     | 8.028                        |         |
| 14,000.00                                                                                 | 12,474.00             | 13,552.17             | 12,006.00             | 50.76            | 49.34         | -90.45                 | -1,456.88              | -185.73      | 469.00                 | 409.90                  | 59.10                     | 7.935                        |         |
| 14,100.00                                                                                 | 12,474.00             | 13,652.17             | 12,006.00             | 51.59            | 50.18         | -90.45                 | -1,556.88              | -185.07      | 469.00                 | 409.18                  | 59.82                     | 7.841                        |         |
| 14,200.00                                                                                 | 12,474.00             | 13,752.17             | 12,006.00             | 52.46            | 51.06         | -90.45                 | -1,656.87              | -184.40      | 469.00                 | 408.44                  | 60.56                     | 7.744                        |         |
| 14,300.00                                                                                 | 12,474.00             | 13,852.17             | 12,006.00             | 53.37            | 51.97         | -90.46                 | -1,756.87              | -183.74      | 469.00                 | 407.66                  | 61.34                     | 7.646                        |         |
| 14,400.00                                                                                 | 12,474.00             | 13,952.17             | 12,006.00             | 54.31            | 52.93         | -90.46                 | -1,856.87              | -183.07      | 469.00                 | 406.85                  | 62.15                     | 7.546                        |         |
| 14,500.00                                                                                 | 12,474.00             | 14,052.17             | 12,006.00             | 55.28            | 53.91         | -90.46                 | -1,956.87              | -182.41      | 469.00                 | 406.02                  | 62.99                     | 7.446                        |         |
| 14,600.00                                                                                 | 12,474.00             | 14,152.17             | 12,006.00             | 56.29            | 54.93         | -90.46                 | -2,056.86              | -181.74      | 469.00                 | 405.15                  | 63.85                     | 7.345                        |         |
| 14,700.00                                                                                 | 12,474.00             | 14,252.17             | 12,006.00             | 57.32            | 55.98         | -90.47                 | -2,156.86              | -181.08      | 469.00                 | 404.26                  | 64.74                     | 7.244                        |         |
| 14,800.00                                                                                 | 12,474.00             | 14,352.17             | 12,006.00             | 58.39            | 57.06         | -90.47                 | -2,256.86              | -180.41      | 469.00                 | 403.34                  | 65.66                     | 7.143                        |         |
| 14,900.00                                                                                 | 12,474.00             | 14,452.17             | 12,006.00             | 59.48            | 58.16         | -90.47                 | -2,356.86              | -179.75      | 469.00                 | 402.40                  | 66.60                     | 7.042                        |         |
| 15,000.00                                                                                 | 12,474.00             | 14,552.17             | 12,006.00             | 60.60            | 59.29         | -90.48                 | -2,456.86              | -179.09      | 469.00                 | 401.44                  | 67.56                     | 6.942                        |         |
| 15,100.00                                                                                 | 12,474.00             | 14,652.17             | 12,006.00             | 61.74            | 60.45         | -90.48                 | -2,556.85              | -178.42      | 469.00                 | 400.45                  | 68.55                     | 6.842                        |         |
| 15,200.00                                                                                 | 12,474.00             | 14,752.17             | 12,006.00             | 62.90            | 61.63         | -90.49                 | -2,656.85              | -177.76      | 469.00                 | 399.45                  | 69.56                     | 6.743                        |         |
| 15,300.00                                                                                 | 12,474.00             | 14,852.17             | 12,006.00             | 64.08            | 62.82         | -90.49                 | -2,756.85              | -177.09      | 469.00                 | 398.42                  | 70.58                     | 6.645                        |         |
| 15,400.00                                                                                 | 12,474.00             | 14,952.17             | 12,006.00             | 65.29            | 64.04         | -90.50                 | -2,856.85              | -176.43      | 469.00                 | 397.37                  | 71.63                     | 6.547                        |         |
| 15,500.00                                                                                 | 12,474.00             | 15,052.17             | 12,006.00             | 66.51            | 65.28         | -90.51                 | -2,956.84              | -175.76      | 469.00                 | 396.30                  | 72.70                     | 6.451                        |         |
| 15,600.00                                                                                 | 12,474.00             | 15,152.17             | 12,006.00             | 67.75            | 66.54         | -90.52                 | -3,056.84              | -175.10      | 469.00                 | 395.22                  | 73.78                     | 6.357                        |         |
| 15,700.00                                                                                 | 12,474.00             | 15,252.17             | 12,006.00             | 69.01            | 67.81         | -90.52                 | -3,156.84              | -174.44      | 469.00                 | 394.12                  | 74.88                     | 6.263                        |         |
| 15,800.00                                                                                 | 12,474.00             | 15,352.17             | 12,006.00             | 70.29            | 69.10         | -90.53                 | -3,256.84              | -173.77      | 469.00                 | 393.00                  | 76.00                     | 6.171                        |         |
| 15,900.00                                                                                 | 12,474.00             | 15,452.17             | 12,006.00             | 71.58            | 70.40         | -90.55                 | -3,356.84              | -173.11      | 469.00                 | 391.86                  | 77.14                     | 6.080                        |         |
| 16,000.00                                                                                 | 12,474.00             | 15,552.17             | 12,006.00             | 72.89            | 71.72         | -90.56                 | -3,456.83              | -172.44      | 469.00                 | 390.72                  | 78.28                     | 5.991                        |         |
| 16,100.00                                                                                 | 12,474.00             | 15,652.17             | 12,006.00             | 74.20            | 73.05         | -90.57                 | -3,556.83              | -171.78      | 469.00                 | 389.55                  | 79.45                     | 5.903                        |         |
| 16,200.00                                                                                 | 12,474.00             | 15,752.17             | 12,006.00             | 75.54            | 74.40         | -90.59                 | -3,656.83              | -171.11      | 469.00                 | 388.38                  | 80.63                     | 5.817                        |         |
| 16,300.00                                                                                 | 12,474.00             | 15,852.17             | 12,006.00             | 76.88            | 75.75         | -90.62                 | -3,756.83              | -170.45      | 469.00                 | 387.19                  | 81.82                     | 5.732                        |         |
| 16,400.00                                                                                 | 12,474.00             | 15,952.17             | 12,006.00             | 78.24            | 77.12         | -90.65                 | -3,856.82              | -169.78      | 469.00                 | 385.98                  | 83.02                     | 5.649                        |         |
| 16,500.00                                                                                 | 12,474.00             | 16,052.17             | 12,006.00             | 79.61            | 78.50         | -90.68                 | -3,956.82              | -169.12      | 469.00                 | 384.77                  | 84.23                     | 5.568                        |         |
| 16,600.00                                                                                 | 12,474.00             | 16,152.17             | 12,006.00             | 80.99            | 79.89         | -90.73                 | -4,056.82              | -168.46      | 469.00                 | 383.54                  | 85.46                     | 5.488                        |         |
| 16,700.00                                                                                 | 12,474.00             | 16,252.17             | 12,006.00             | 82.37            | 81.29         | -90.80                 | -4,156.82              | -167.79      | 469.00                 | 382.30                  | 86.70                     | 5.410                        |         |
| 16,800.00                                                                                 | 12,474.00             | 16,352.17             | 12,006.00             | 83.77            | 82.70         | -90.89                 | -4,256.82              | -167.13      | 469.00                 | 381.06                  | 87.95                     | 5.333                        |         |
| 16,900.00                                                                                 | 12,474.00             | 16,452.17             | 12,006.00             | 85.18            | 84.12         | -91.05                 | -4,356.81              | -166.46      | 469.00                 | 379.80                  | 89.20                     | 5.258                        |         |
| 17,000.00                                                                                 | 12,474.00             | 16,552.17             | 12,006.00             | 86.59            | 85.54         | -91.35                 | -4,456.81              | -165.80      | 469.00                 | 378.53                  | 90.47                     | 5.184                        |         |
| 17,100.00                                                                                 | 12,474.00             | 16,652.17             | 12,006.00             | 88.02            | 86.98         | -92.11                 | -4,556.81              | -165.13      | 469.00                 | 377.25                  | 91.75                     | 5.112                        |         |
| 17,200.00                                                                                 | 12,474.00             | 16,752.17             | 12,006.00             | 89.45            | 88.42         | -98.60                 | -4,656.81              | -164.47      | 469.00                 | 375.97                  | 93.03                     | 5.041                        |         |
| 17,226.60                                                                                 | 12,474.00             | 16,778.77             | 12,006.00             | 89.83            | 88.80         | 0.00                   | -4,683.41              | -164.29      | 469.00                 | 375.62                  | 93.38                     | 5.023                        |         |
| 17,227.11                                                                                 | 12,474.00             | 16,779.28             | 12,006.00             | 89.84            | 88.82         | 0.00                   | -4,683.92              | -164.29      | 469.00                 | 375.62                  | 93.38                     | 5.022                        |         |
| 17,227.36                                                                                 | 12,474.00             | 16,779.28             | 12,006.00             | 89.85            | 88.82         | -0.37                  | -4,683.92              | -164.29      | 469.00                 | 375.62                  | 93.38                     | 5.022                        |         |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #201H - Wellbore #1 - Design #1 |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|----------------|------------------------------|-------------------------------|---------------------------------|----------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Well Error: | 0.00 usft |
| Reference                                                                                 |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Offset Wellbore Centre |                | Distance                     |                               |                                 |                      | Warning            |           |
| Measured<br>Depth<br>(usft)                                                               | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | +N-S<br>(usft)         | +E-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor |                    |           |
| 0.00                                                                                      | 0.00                        | 1.00                        | 1.00                        | 0.00                | 0.00             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     |                               |                                 |                      |                    |           |
| 100.00                                                                                    | 100.00                      | 101.00                      | 101.00                      | 0.13                | 0.13             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,289.50                      | 0.26                            | 4,962.688            |                    |           |
| 200.00                                                                                    | 200.00                      | 201.00                      | 201.00                      | 0.49                | 0.49             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,288.79                      | 0.98                            | 1,320.350            |                    |           |
| 300.00                                                                                    | 300.00                      | 301.00                      | 301.00                      | 0.85                | 0.85             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,288.07                      | 1.69                            | 761.472              |                    |           |
| 400.00                                                                                    | 400.00                      | 401.00                      | 401.00                      | 1.20                | 1.21             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,287.35                      | 2.41                            | 535.012              |                    |           |
| 500.00                                                                                    | 500.00                      | 501.00                      | 501.00                      | 1.56                | 1.57             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,286.64                      | 3.13                            | 412.373              |                    |           |
| 600.00                                                                                    | 600.00                      | 601.38                      | 601.38                      | 1.92                | 1.93             | -90.51                       | -11.48                 | -1,289.71      | 1,289.76                     | 1,285.92                      | 3.85                            | 335.359              |                    |           |
| 700.00                                                                                    | 699.99                      | 739.27                      | 739.24                      | 2.28                | 2.42             | -90.48                       | -9.99                  | -1,287.66      | 1,287.80                     | 1,283.11                      | 4.69                            | 274.502              |                    |           |
| 800.00                                                                                    | 799.96                      | 876.78                      | 876.53                      | 2.64                | 2.91             | -90.38                       | -5.59                  | -1,281.60      | 1,281.97                     | 1,276.44                      | 5.53                            | 231.746              |                    |           |
| 900.00                                                                                    | 899.86                      | 973.78                      | 973.30                      | 2.99                | 3.25             | -90.37                       | -1.63                  | -1,276.12      | 1,273.98                     | 1,267.74                      | 6.23                            | 204.328              |                    |           |
| 999.81                                                                                    | 999.49                      | 1,073.18                    | 1,072.46                    | 3.35                | 3.62             | -90.42                       | 2.45                   | -1,270.50      | 1,265.07                     | 1,258.12                      | 6.95                            | 182.060              |                    |           |
| 1,000.00                                                                                  | 999.68                      | 1,073.37                    | 1,072.65                    | 3.35                | 3.62             | -90.42                       | 2.46                   | -1,270.49      | 1,265.05                     | 1,258.10                      | 6.95                            | 182.022              |                    |           |
| 1,100.00                                                                                  | 1,099.43                    | 1,172.91                    | 1,171.95                    | 3.72                | 3.98             | -90.51                       | 6.54                   | -1,264.86      | 1,255.67                     | 1,248.00                      | 7.67                            | 163.770              |                    |           |
| 1,200.00                                                                                  | 1,199.19                    | 1,272.45                    | 1,271.24                    | 4.08                | 4.35             | -90.59                       | 10.62                  | -1,259.23      | 1,246.29                     | 1,237.90                      | 8.39                            | 148.606              |                    |           |
| 1,300.00                                                                                  | 1,298.95                    | 1,371.99                    | 1,370.54                    | 4.45                | 4.71             | -90.68                       | 14.70                  | -1,253.61      | 1,236.91                     | 1,227.80                      | 9.11                            | 135.807              |                    |           |
| 1,400.00                                                                                  | 1,398.70                    | 1,471.53                    | 1,469.84                    | 4.82                | 5.08             | -90.77                       | 18.78                  | -1,247.98      | 1,227.53                     | 1,217.70                      | 9.83                            | 124.868              |                    |           |
| 1,500.00                                                                                  | 1,498.46                    | 1,571.07                    | 1,569.14                    | 5.18                | 5.45             | -90.86                       | 22.86                  | -1,242.35      | 1,218.16                     | 1,207.61                      | 10.55                           | 115.414              |                    |           |
| 1,600.00                                                                                  | 1,598.22                    | 1,670.62                    | 1,668.44                    | 5.55                | 5.81             | -90.95                       | 26.94                  | -1,236.72      | 1,208.79                     | 1,197.51                      | 11.28                           | 107.166              |                    |           |
| 1,700.00                                                                                  | 1,697.97                    | 1,770.16                    | 1,767.73                    | 5.92                | 6.18             | -91.05                       | 31.02                  | -1,231.09      | 1,199.43                     | 1,187.42                      | 12.01                           | 99.907               |                    |           |
| 1,800.00                                                                                  | 1,797.73                    | 1,869.70                    | 1,867.03                    | 6.29                | 6.55             | -91.14                       | 35.10                  | -1,225.46      | 1,190.06                     | 1,177.33                      | 12.73                           | 93.471               |                    |           |
| 1,900.00                                                                                  | 1,897.48                    | 1,969.24                    | 1,966.33                    | 6.66                | 6.92             | -91.24                       | 39.17                  | -1,219.83      | 1,180.71                     | 1,167.25                      | 13.46                           | 87.727               |                    |           |
| 2,000.00                                                                                  | 1,997.24                    | 2,068.78                    | 2,065.63                    | 7.03                | 7.29             | -91.33                       | 43.25                  | -1,214.21      | 1,171.35                     | 1,157.16                      | 14.19                           | 82.569               |                    |           |
| 2,100.00                                                                                  | 2,097.00                    | 2,168.32                    | 2,164.93                    | 7.41                | 7.66             | -91.43                       | 47.33                  | -1,208.58      | 1,162.00                     | 1,147.08                      | 14.91                           | 77.912               |                    |           |
| 2,200.00                                                                                  | 2,196.75                    | 2,267.86                    | 2,264.23                    | 7.78                | 8.03             | -91.53                       | 51.41                  | -1,202.95      | 1,152.65                     | 1,137.01                      | 15.64                           | 73.687               |                    |           |
| 2,300.00                                                                                  | 2,296.51                    | 2,367.40                    | 2,363.52                    | 8.15                | 8.40             | -91.64                       | 55.49                  | -1,197.32      | 1,143.30                     | 1,126.93                      | 16.37                           | 69.837               |                    |           |
| 2,400.00                                                                                  | 2,396.27                    | 2,466.95                    | 2,462.82                    | 8.52                | 8.77             | -91.74                       | 59.57                  | -1,191.69      | 1,133.96                     | 1,116.86                      | 17.10                           | 66.314               |                    |           |
| 2,500.00                                                                                  | 2,496.02                    | 2,566.49                    | 2,562.12                    | 8.89                | 9.14             | -91.85                       | 63.65                  | -1,186.06      | 1,124.62                     | 1,106.80                      | 17.83                           | 63.079               |                    |           |
| 2,600.00                                                                                  | 2,595.78                    | 2,666.03                    | 2,661.42                    | 9.26                | 9.51             | -91.95                       | 67.73                  | -1,180.43      | 1,115.29                     | 1,096.73                      | 18.56                           | 60.097               |                    |           |
| 2,700.00                                                                                  | 2,695.54                    | 2,765.57                    | 2,760.72                    | 9.64                | 9.88             | -92.06                       | 71.81                  | -1,174.80      | 1,105.96                     | 1,086.67                      | 19.29                           | 57.341               |                    |           |
| 2,800.00                                                                                  | 2,795.29                    | 2,865.11                    | 2,860.01                    | 10.01               | 10.25            | -92.18                       | 75.89                  | -1,169.18      | 1,096.64                     | 1,076.62                      | 20.02                           | 54.785               |                    |           |
| 2,900.00                                                                                  | 2,895.05                    | 2,964.65                    | 2,959.31                    | 10.38               | 10.63            | -92.29                       | 79.97                  | -1,163.55      | 1,087.31                     | 1,066.57                      | 20.75                           | 52.409               |                    |           |
| 3,000.00                                                                                  | 2,994.81                    | 3,064.19                    | 3,058.61                    | 10.75               | 11.00            | -92.40                       | 84.05                  | -1,157.92      | 1,078.00                     | 1,056.52                      | 21.48                           | 50.194               |                    |           |
| 3,100.00                                                                                  | 3,094.56                    | 3,163.73                    | 3,157.91                    | 11.12               | 11.37            | -92.52                       | 88.13                  | -1,152.29      | 1,068.68                     | 1,046.48                      | 22.21                           | 48.124               |                    |           |
| 3,200.00                                                                                  | 3,194.32                    | 3,263.28                    | 3,257.21                    | 11.50               | 11.74            | -92.64                       | 92.21                  | -1,146.66      | 1,059.38                     | 1,036.44                      | 22.94                           | 46.187               |                    |           |
| 3,300.00                                                                                  | 3,294.08                    | 3,362.82                    | 3,356.51                    | 11.87               | 12.11            | -92.76                       | 96.29                  | -1,141.03      | 1,050.07                     | 1,026.41                      | 23.67                           | 44.368               |                    |           |
| 3,400.00                                                                                  | 3,393.83                    | 3,462.36                    | 3,455.80                    | 12.24               | 12.48            | -92.89                       | 100.37                 | -1,135.40      | 1,040.77                     | 1,016.38                      | 24.40                           | 42.659               |                    |           |
| 3,500.00                                                                                  | 3,493.59                    | 3,561.90                    | 3,555.10                    | 12.61               | 12.85            | -93.01                       | 104.45                 | -1,129.78      | 1,031.48                     | 1,006.35                      | 25.13                           | 41.049               |                    |           |
| 3,600.00                                                                                  | 3,593.35                    | 3,661.44                    | 3,654.40                    | 12.99               | 13.22            | -93.14                       | 108.53                 | -1,124.15      | 1,022.19                     | 996.33                        | 25.86                           | 39.530               |                    |           |
| 3,700.00                                                                                  | 3,693.10                    | 3,760.98                    | 3,753.70                    | 13.36               | 13.59            | -93.27                       | 112.61                 | -1,118.52      | 1,012.91                     | 986.32                        | 26.59                           | 38.095               |                    |           |
| 3,800.00                                                                                  | 3,792.86                    | 3,860.52                    | 3,853.00                    | 13.73               | 13.97            | -93.40                       | 116.69                 | -1,112.89      | 1,003.63                     | 976.31                        | 27.32                           | 36.737               |                    |           |
| 3,900.00                                                                                  | 3,892.62                    | 3,960.06                    | 3,952.29                    | 14.11               | 14.34            | -93.54                       | 120.77                 | -1,107.26      | 994.36                       | 966.31                        | 28.05                           | 35.449               |                    |           |
| 4,000.00                                                                                  | 3,992.37                    | 4,059.60                    | 4,051.59                    | 14.48               | 14.71            | -93.68                       | 124.85                 | -1,101.63      | 985.09                       | 956.31                        | 28.78                           | 34.227               |                    |           |
| 4,100.00                                                                                  | 4,092.13                    | 4,159.15                    | 4,150.89                    | 14.85               | 15.08            | -93.82                       | 128.93                 | -1,096.00      | 975.83                       | 946.32                        | 29.51                           | 33.066               |                    |           |
| 4,200.00                                                                                  | 4,191.89                    | 4,258.69                    | 4,250.19                    | 15.22               | 15.45            | -93.96                       | 133.01                 | -1,090.38      | 966.57                       | 936.33                        | 30.24                           | 31.961               |                    |           |
| 4,300.00                                                                                  | 4,291.64                    | 4,358.23                    | 4,349.49                    | 15.60               | 15.82            | -94.11                       | 137.09                 | -1,084.75      | 957.33                       | 926.35                        | 30.97                           | 30.908               |                    |           |
| 4,400.00                                                                                  | 4,391.40                    | 4,457.77                    | 4,448.78                    | 15.97               | 16.19            | -94.26                       | 141.17                 | -1,079.12      | 948.08                       | 916.38                        | 31.70                           | 29.904               |                    |           |
| 4,500.00                                                                                  | 4,491.16                    | 4,557.31                    | 4,548.08                    | 16.34               | 16.57            | -94.41                       | 145.25                 | -1,073.49      | 938.85                       | 906.41                        | 32.44                           | 28.945               |                    |           |
| 4,600.00                                                                                  | 4,590.91                    | 4,656.85                    | 4,647.38                    | 16.72               | 16.94            | -94.56                       | 149.33                 | -1,067.86      | 929.62                       | 896.45                        | 33.17                           | 28.029               |                    |           |
| 4,700.00                                                                                  | 4,690.67                    | 4,756.39                    | 4,746.68                    | 17.09               | 17.31            | -94.72                       | 153.41                 | -1,062.23      | 920.39                       | 886.50                        | 33.90                           | 27.152               |                    |           |
| 4,800.00                                                                                  | 4,790.43                    | 4,855.93                    | 4,845.98                    | 17.46               | 17.68            | -94.88                       | 157.49                 | -1,056.60      | 911.18                       | 876.55                        | 34.63                           | 26.313               |                    |           |
| 4,900.00                                                                                  | 4,890.18                    | 4,955.48                    | 4,945.28                    | 17.83               | 18.05            | -95.05                       | 161.57                 | -1,050.98      | 901.97                       | 866.61                        | 35.36                           | 25.508               |                    |           |
| 5,000.00                                                                                  | 4,989.94                    | 5,055.02                    | 5,044.57                    | 18.21               | 18.42            | -95.21                       | 165.65                 | -1,045.35      | 892.77                       | 856.68                        | 36.09                           | 24.736               |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #201H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,100.00                                                                                  | 5,089.70              | 5,154.56              | 5,143.87              | 18.58            | 18.80         | -95.39                 | 169.73                              | -1,039.72    | 883.58                 | 846.75                  | 36.82                     | 23.995            |                    |           |
| 5,200.00                                                                                  | 5,189.45              | 5,254.10              | 5,243.17              | 18.95            | 19.17         | -95.56                 | 173.81                              | -1,034.09    | 874.39                 | 836.84                  | 37.55                     | 23.283            |                    |           |
| 5,300.00                                                                                  | 5,289.21              | 5,353.64              | 5,342.47              | 19.33            | 19.54         | -95.74                 | 177.89                              | -1,028.46    | 865.22                 | 826.93                  | 38.29                     | 22.599            |                    |           |
| 5,400.00                                                                                  | 5,388.97              | 5,453.18              | 5,441.77              | 19.70            | 19.91         | -95.92                 | 181.97                              | -1,022.83    | 856.05                 | 817.03                  | 39.02                     | 21.940            |                    |           |
| 5,500.00                                                                                  | 5,488.72              | 5,552.72              | 5,541.06              | 20.07            | 20.28         | -96.11                 | 186.05                              | -1,017.20    | 846.89                 | 807.14                  | 39.75                     | 21.306            |                    |           |
| 5,600.00                                                                                  | 5,588.48              | 5,652.26              | 5,640.36              | 20.45            | 20.65         | -96.30                 | 190.13                              | -1,011.58    | 837.74                 | 797.26                  | 40.48                     | 20.695            |                    |           |
| 5,700.00                                                                                  | 5,688.24              | 5,751.81              | 5,739.66              | 20.82            | 21.03         | -96.49                 | 194.21                              | -1,005.95    | 828.60                 | 787.39                  | 41.21                     | 20.106            |                    |           |
| 5,800.00                                                                                  | 5,787.99              | 5,851.35              | 5,838.96              | 21.19            | 21.40         | -96.69                 | 198.29                              | -1,000.32    | 819.47                 | 777.53                  | 41.94                     | 19.538            |                    |           |
| 5,900.00                                                                                  | 5,887.75              | 5,950.89              | 5,938.26              | 21.57            | 21.77         | -96.90                 | 202.37                              | -994.69      | 810.35                 | 767.67                  | 42.68                     | 18.989            |                    |           |
| 5,910.95                                                                                  | 5,898.68              | 5,961.79              | 5,949.13              | 21.61            | 21.81         | -96.92                 | 202.82                              | -994.07      | 809.35                 | 766.60                  | 42.76                     | 18.930            |                    |           |
| 6,000.00                                                                                  | 5,987.57              | 6,050.49              | 6,037.62              | 21.93            | 22.14         | -97.04                 | 206.45                              | -989.06      | 801.68                 | 758.28                  | 43.40                     | 18.470            |                    |           |
| 6,100.00                                                                                  | 6,087.51              | 6,150.20              | 6,137.08              | 22.29            | 22.51         | -97.01                 | 210.54                              | -983.42      | 794.13                 | 750.01                  | 44.12                     | 17.998            |                    |           |
| 6,177.49                                                                                  | 6,165.00              | 6,227.50              | 6,214.20              | 22.56            | 22.80         | -96.87                 | 213.71                              | -979.05      | 789.05                 | 744.38                  | 44.68                     | 17.662            |                    |           |
| 6,200.00                                                                                  | 6,187.51              | 6,249.95              | 6,236.59              | 22.64            | 22.89         | -96.82                 | 214.63                              | -977.78      | 787.68                 | 742.84                  | 44.83                     | 17.568            |                    |           |
| 6,300.00                                                                                  | 6,287.51              | 6,349.71              | 6,336.11              | 22.99            | 23.26         | -96.57                 | 218.72                              | -972.14      | 781.58                 | 736.04                  | 45.54                     | 17.161            |                    |           |
| 6,400.00                                                                                  | 6,387.51              | 6,449.47              | 6,435.62              | 23.33            | 23.63         | -96.32                 | 222.81                              | -966.50      | 775.50                 | 729.25                  | 46.25                     | 16.767            |                    |           |
| 6,500.00                                                                                  | 6,487.51              | 6,549.22              | 6,535.13              | 23.68            | 24.00         | -96.06                 | 226.89                              | -960.86      | 769.43                 | 722.47                  | 46.96                     | 16.384            |                    |           |
| 6,600.00                                                                                  | 6,587.51              | 6,648.98              | 6,634.64              | 24.02            | 24.38         | -95.80                 | 230.98                              | -955.22      | 763.38                 | 715.71                  | 47.67                     | 16.013            |                    |           |
| 6,700.00                                                                                  | 6,687.51              | 6,748.73              | 6,734.15              | 24.37            | 24.75         | -95.53                 | 235.07                              | -949.57      | 757.34                 | 708.96                  | 48.38                     | 15.653            |                    |           |
| 6,800.00                                                                                  | 6,787.51              | 6,848.49              | 6,833.67              | 24.72            | 25.12         | -95.26                 | 239.16                              | -943.93      | 751.33                 | 702.23                  | 49.09                     | 15.304            |                    |           |
| 6,900.00                                                                                  | 6,887.51              | 6,948.24              | 6,933.18              | 25.06            | 25.49         | -94.99                 | 243.25                              | -938.29      | 745.32                 | 695.52                  | 49.81                     | 14.965            |                    |           |
| 7,000.00                                                                                  | 6,987.51              | 7,048.00              | 7,032.69              | 25.41            | 25.87         | -94.71                 | 247.34                              | -932.65      | 739.34                 | 688.82                  | 50.52                     | 14.635            |                    |           |
| 7,100.00                                                                                  | 7,087.51              | 7,147.76              | 7,132.20              | 25.76            | 26.24         | -94.43                 | 251.43                              | -927.01      | 733.37                 | 682.14                  | 51.23                     | 14.315            |                    |           |
| 7,200.00                                                                                  | 7,187.51              | 7,247.51              | 7,231.72              | 26.11            | 26.61         | -94.14                 | 255.52                              | -921.37      | 727.42                 | 675.48                  | 51.94                     | 14.004            |                    |           |
| 7,300.00                                                                                  | 7,287.51              | 7,347.27              | 7,331.23              | 26.45            | 26.98         | -93.85                 | 259.60                              | -915.73      | 721.49                 | 668.84                  | 52.66                     | 13.702            |                    |           |
| 7,400.00                                                                                  | 7,387.51              | 7,447.02              | 7,430.74              | 26.80            | 27.36         | -93.55                 | 263.69                              | -910.09      | 715.58                 | 662.21                  | 53.37                     | 13.408            |                    |           |
| 7,500.00                                                                                  | 7,487.51              | 7,546.78              | 7,530.25              | 27.15            | 27.73         | -93.25                 | 267.78                              | -904.45      | 709.69                 | 655.60                  | 54.08                     | 13.122            |                    |           |
| 7,600.00                                                                                  | 7,587.51              | 7,646.54              | 7,629.76              | 27.50            | 28.10         | -92.95                 | 271.87                              | -898.81      | 703.82                 | 649.02                  | 54.80                     | 12.844            |                    |           |
| 7,700.00                                                                                  | 7,687.51              | 7,746.29              | 7,729.28              | 27.85            | 28.48         | -92.63                 | 275.96                              | -893.17      | 697.96                 | 642.45                  | 55.51                     | 12.573            |                    |           |
| 7,800.00                                                                                  | 7,787.51              | 7,846.05              | 7,828.79              | 28.20            | 28.85         | -92.32                 | 280.05                              | -887.53      | 692.13                 | 635.91                  | 56.23                     | 12.309            |                    |           |
| 7,900.00                                                                                  | 7,887.51              | 7,945.80              | 7,928.30              | 28.55            | 29.22         | -91.99                 | 284.14                              | -881.89      | 686.33                 | 629.38                  | 56.94                     | 12.052            |                    |           |
| 8,000.00                                                                                  | 7,987.51              | 8,045.56              | 8,027.81              | 28.90            | 29.59         | -91.67                 | 288.23                              | -876.24      | 680.54                 | 622.88                  | 57.66                     | 11.802            |                    |           |
| 8,100.00                                                                                  | 8,087.51              | 8,145.31              | 8,127.33              | 29.25            | 29.97         | -91.33                 | 292.31                              | -870.60      | 674.77                 | 616.40                  | 58.38                     | 11.559            |                    |           |
| 8,200.00                                                                                  | 8,187.51              | 8,245.07              | 8,226.84              | 29.60            | 30.34         | -90.99                 | 296.40                              | -864.96      | 669.03                 | 609.94                  | 59.09                     | 11.321            |                    |           |
| 8,300.00                                                                                  | 8,287.51              | 8,333.09              | 8,314.70              | 29.95            | 30.66         | -90.73                 | 299.49                              | -860.71      | 664.15                 | 604.35                  | 59.79                     | 11.107            |                    |           |
| 8,400.00                                                                                  | 8,387.51              | 8,420.63              | 8,402.18              | 30.30            | 30.98         | -90.57                 | 301.38                              | -858.10      | 661.14                 | 600.67                  | 60.48                     | 10.932            |                    |           |
| 8,500.00                                                                                  | 8,487.51              | 8,508.27              | 8,489.80              | 30.65            | 31.29         | -90.51                 | 302.09                              | -857.11      | 660.01                 | 598.88                  | 61.14                     | 10.796            |                    |           |
| 8,537.24                                                                                  | 8,524.75              | 8,544.21              | 8,525.75              | 30.78            | 31.41         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 598.61                  | 61.39                     | 10.751            |                    |           |
| 8,600.00                                                                                  | 8,587.51              | 8,606.97              | 8,588.51              | 31.00            | 31.62         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 598.17                  | 61.83                     | 10.675            |                    |           |
| 8,700.00                                                                                  | 8,687.51              | 8,706.97              | 8,688.51              | 31.35            | 31.96         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 597.48                  | 62.53                     | 10.556            |                    |           |
| 8,800.00                                                                                  | 8,787.51              | 8,806.97              | 8,788.51              | 31.70            | 32.30         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 596.78                  | 63.22                     | 10.439            |                    |           |
| 8,900.00                                                                                  | 8,887.51              | 8,906.97              | 8,888.51              | 32.06            | 32.64         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 596.08                  | 63.92                     | 10.325            |                    |           |
| 9,000.00                                                                                  | 8,987.51              | 9,006.97              | 8,988.51              | 32.41            | 32.98         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 595.38                  | 64.62                     | 10.213            |                    |           |
| 9,100.00                                                                                  | 9,087.51              | 9,106.97              | 9,088.51              | 32.76            | 33.33         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 594.68                  | 65.32                     | 10.104            |                    |           |
| 9,200.00                                                                                  | 9,187.51              | 9,206.97              | 9,188.51              | 33.11            | 33.67         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 593.98                  | 66.02                     | 9.997             |                    |           |
| 9,300.00                                                                                  | 9,287.51              | 9,306.97              | 9,288.51              | 33.46            | 34.01         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 593.28                  | 66.72                     | 9.892             |                    |           |
| 9,400.00                                                                                  | 9,387.51              | 9,406.97              | 9,388.51              | 33.82            | 34.35         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 592.58                  | 67.42                     | 9.789             |                    |           |
| 9,500.00                                                                                  | 9,487.51              | 9,506.97              | 9,488.51              | 34.17            | 34.70         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 591.88                  | 68.12                     | 9.689             |                    |           |
| 9,600.00                                                                                  | 9,587.51              | 9,606.97              | 9,588.51              | 34.52            | 35.04         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 591.18                  | 68.82                     | 9.590             |                    |           |
| 9,700.00                                                                                  | 9,687.51              | 9,706.97              | 9,688.51              | 34.87            | 35.38         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 590.48                  | 69.52                     | 9.493             |                    |           |
| 9,800.00                                                                                  | 9,787.51              | 9,806.97              | 9,788.51              | 35.23            | 35.73         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 589.78                  | 70.23                     | 9.398             |                    |           |
| 9,900.00                                                                                  | 9,887.51              | 9,906.97              | 9,888.51              | 35.58            | 36.07         | -90.51                 | 302.10                              | -857.11      | 660.00                 | 589.07                  | 70.93                     | 9.305             |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #201H - Wellbore #1 - Design #1 |                             |                             |                             |                     |                  |                              |                                           |                              |                                 |                      |         |          | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|-------------------------------------------|------------------------------|---------------------------------|----------------------|---------|----------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                             |                             |                             |                     |                  |                              |                                           |                              |                                 |                      |         |          | Offset Well Error: | 0.00 usft |
| Reference                                                                                 |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Distance                                  |                              | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |          |                    |           |
| Measured<br>Depth<br>(usft)                                                               | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | Offset Wellbore Centre<br>+N/-S<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft)   |                      |         |          |                    |           |
| 10,000.00                                                                                 | 9,987.51                    | 10,006.97                   | 9,988.51                    | 35.93               | 36.42            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 588.37               | 71.63   | 9.214    |                    |           |
| 10,100.00                                                                                 | 10,087.51                   | 10,106.97                   | 10,088.51                   | 36.28               | 36.76            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 587.67               | 72.33   | 9.124    |                    |           |
| 10,200.00                                                                                 | 10,187.51                   | 10,206.97                   | 10,188.51                   | 36.64               | 37.11            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 586.97               | 73.04   | 9.037    |                    |           |
| 10,300.00                                                                                 | 10,287.51                   | 10,306.97                   | 10,288.51                   | 36.99               | 37.45            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 586.26               | 73.74   | 8.950    |                    |           |
| 10,400.00                                                                                 | 10,387.51                   | 10,406.97                   | 10,388.51                   | 37.34               | 37.80            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 585.56               | 74.44   | 8.866    |                    |           |
| 10,500.00                                                                                 | 10,487.51                   | 10,506.97                   | 10,488.51                   | 37.70               | 38.14            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 584.86               | 75.15   | 8.783    |                    |           |
| 10,600.00                                                                                 | 10,587.51                   | 10,606.97                   | 10,588.51                   | 38.05               | 38.49            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 584.15               | 75.85   | 8.701    |                    |           |
| 10,700.00                                                                                 | 10,687.51                   | 10,706.97                   | 10,688.51                   | 38.41               | 38.84            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 583.45               | 76.55   | 8.621    |                    |           |
| 10,800.00                                                                                 | 10,787.51                   | 10,806.97                   | 10,788.51                   | 38.76               | 39.18            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 582.74               | 77.26   | 8.543    |                    |           |
| 10,900.00                                                                                 | 10,887.51                   | 10,906.97                   | 10,888.51                   | 39.11               | 39.53            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 582.04               | 77.96   | 8.465    |                    |           |
| 11,000.00                                                                                 | 10,987.51                   | 11,006.97                   | 10,988.51                   | 39.47               | 39.88            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 581.33               | 78.67   | 8.390    |                    |           |
| 11,100.00                                                                                 | 11,087.51                   | 11,106.97                   | 11,088.51                   | 39.82               | 40.22            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 580.63               | 79.37   | 8.315    |                    |           |
| 11,200.00                                                                                 | 11,187.51                   | 11,206.97                   | 11,188.51                   | 40.18               | 40.57            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 579.92               | 80.08   | 8.242    |                    |           |
| 11,300.00                                                                                 | 11,287.51                   | 11,306.97                   | 11,288.51                   | 40.53               | 40.92            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 579.22               | 80.78   | 8.170    |                    |           |
| 11,400.00                                                                                 | 11,387.51                   | 11,406.97                   | 11,388.51                   | 40.88               | 41.27            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 578.51               | 81.49   | 8.099    |                    |           |
| 11,500.00                                                                                 | 11,487.51                   | 11,506.97                   | 11,488.51                   | 41.24               | 41.61            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 577.81               | 82.20   | 8.030    |                    |           |
| 11,600.00                                                                                 | 11,587.51                   | 11,606.97                   | 11,588.51                   | 41.59               | 41.96            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 577.10               | 82.90   | 7.961    |                    |           |
| 11,604.42                                                                                 | 11,591.92                   | 11,611.39                   | 11,592.92                   | 41.61               | 41.98            | -90.51                       | 302.10                                    | -857.11                      | 660.00                          | 577.07               | 82.93   | 7.958 CC |                    |           |
| 11,700.00                                                                                 | 11,687.51                   | 11,706.97                   | 11,688.51                   | 41.95               | 42.30            | -90.51                       | 301.14                                    | -857.10                      | 660.01                          | 576.40               | 83.60   | 7.895    |                    |           |
| 11,800.00                                                                                 | 11,787.51                   | 11,804.30                   | 11,784.71                   | 42.30               | 42.59            | -91.80                       | 287.28                                    | -857.01                      | 660.21                          | 575.98               | 84.24   | 7.838    |                    |           |
| 11,900.00                                                                                 | 11,887.51                   | 11,894.70                   | 11,870.79                   | 42.66               | 42.83            | -94.16                       | 260.01                                    | -856.83                      | 661.68                          | 576.88               | 84.79   | 7.803    |                    |           |
| 11,907.73                                                                                 | 11,895.24                   | 11,900.00                   | 11,875.70                   | 42.68               | 42.84            | -94.33                       | 257.99                                    | -856.82                      | 661.90                          | 577.07               | 84.82   | 7.803    |                    |           |
| 11,950.00                                                                                 | 11,937.47                   | 11,936.76                   | 11,909.15                   | 42.82               | 42.92            | -95.51                       | 242.77                                    | -856.72                      | 663.31                          | 578.29               | 85.01   | 7.802    |                    |           |
| 12,000.00                                                                                 | 11,987.11                   | 11,977.83                   | 11,945.28                   | 42.97               | 43.01            | -96.68                       | 223.26                                    | -856.59                      | 665.40                          | 580.22               | 85.18   | 7.811    |                    |           |
| 12,050.00                                                                                 | 12,036.05                   | 12,018.04                   | 11,979.22                   | 43.12               | 43.09            | -97.66                       | 201.71                                    | -856.45                      | 667.88                          | 582.57               | 85.30   | 7.829    |                    |           |
| 12,100.00                                                                                 | 12,083.92                   | 12,057.49                   | 12,010.97                   | 43.25               | 43.15            | -98.43                       | 178.30                                    | -856.29                      | 670.66                          | 585.29               | 85.37   | 7.856    |                    |           |
| 12,150.00                                                                                 | 12,130.35                   | 12,100.00                   | 12,043.28                   | 43.37               | 43.22            | -99.20                       | 150.69                                    | -856.11                      | 673.69                          | 588.26               | 85.43   | 7.886    |                    |           |
| 12,200.00                                                                                 | 12,175.00                   | 12,134.47                   | 12,067.92                   | 43.49               | 43.26            | -99.34                       | 126.60                                    | -855.95                      | 676.84                          | 591.48               | 85.36   | 7.929    |                    |           |
| 12,250.00                                                                                 | 12,217.51                   | 12,172.14                   | 12,093.15                   | 43.59               | 43.30            | -99.48                       | 98.63                                     | -855.77                      | 680.08                          | 594.79               | 85.29   | 7.973    |                    |           |
| 12,300.00                                                                                 | 12,257.57                   | 12,209.36                   | 12,116.21                   | 43.68               | 43.34            | -99.42                       | 69.43                                     | -855.58                      | 683.31                          | 598.12               | 85.19   | 8.021    |                    |           |
| 12,350.00                                                                                 | 12,294.88                   | 12,250.00                   | 12,139.16                   | 43.76               | 43.37            | -99.45                       | 35.90                                     | -855.35                      | 686.48                          | 601.38               | 85.10   | 8.066    |                    |           |
| 12,400.00                                                                                 | 12,329.14                   | 12,282.66                   | 12,155.85                   | 43.83               | 43.39            | -98.74                       | 7.83                                      | -855.17                      | 689.49                          | 604.57               | 84.91   | 8.120    |                    |           |
| 12,450.00                                                                                 | 12,360.10                   | 12,318.84                   | 12,172.44                   | 43.90               | 43.42            | -98.14                       | -24.31                                    | -854.96                      | 692.30                          | 607.53               | 84.77   | 8.167    |                    |           |
| 12,500.00                                                                                 | 12,387.52                   | 12,350.00                   | 12,185.08                   | 43.96               | 43.44            | -97.00                       | -52.79                                    | -854.77                      | 694.88                          | 610.30               | 84.58   | 8.216    |                    |           |
| 12,550.00                                                                                 | 12,411.20                   | 12,390.48                   | 12,199.15                   | 44.03               | 43.48            | -96.48                       | -90.74                                    | -854.52                      | 697.11                          | 612.60               | 84.51   | 8.249    |                    |           |
| 12,600.00                                                                                 | 12,430.95                   | 12,426.03                   | 12,209.27                   | 44.11               | 43.53            | -95.46                       | -124.81                                   | -854.30                      | 699.02                          | 614.59               | 84.43   | 8.279    |                    |           |
| 12,650.00                                                                                 | 12,446.62                   | 12,461.44                   | 12,217.23                   | 44.20               | 43.59            | -94.34                       | -159.30                                   | -854.07                      | 700.55                          | 616.16               | 84.39   | 8.301    |                    |           |
| 12,700.00                                                                                 | 12,458.10                   | 12,500.00                   | 12,223.70                   | 44.29               | 43.67            | -93.42                       | -197.31                                   | -853.82                      | 701.60                          | 617.18               | 84.42   | 8.310    |                    |           |
| 12,707.73                                                                                 | 12,459.49                   | 12,505.99                   | 12,224.56                   | 44.31               | 43.68            | -93.28                       | -203.24                                   | -853.78                      | 701.70                          | 617.26               | 84.44   | 8.310    |                    |           |
| 12,750.00                                                                                 | 12,465.91                   | 12,539.79                   | 12,228.71                   | 44.39               | 43.76            | -92.56                       | -236.78                                   | -853.56                      | 702.12                          | 617.60               | 84.52   | 8.307    |                    |           |
| 12,800.00                                                                                 | 12,471.10                   | 12,579.73                   | 12,232.08                   | 44.50               | 43.85            | -91.70                       | -276.58                                   | -853.30                      | 702.46                          | 617.80               | 84.65   | 8.298    |                    |           |
| 12,850.00                                                                                 | 12,473.69                   | 12,619.66                   | 12,233.78                   | 44.61               | 43.95            | -90.83                       | -316.47                                   | -853.04                      | 702.61                          | 617.79               | 84.82   | 8.283    |                    |           |
| 12,874.40                                                                                 | 12,474.00                   | 12,640.37                   | 12,234.00                   | 44.67               | 44.01            | -90.51                       | -337.17                                   | -852.90                      | 702.63                          | 617.71               | 84.92   | 8.274    |                    |           |
| 12,883.48                                                                                 | 12,474.00                   | 12,647.92                   | 12,234.00                   | 44.69               | 44.03            | -90.38                       | -344.72                                   | -852.85                      | 702.62                          | 617.67               | 84.96   | 8.270    |                    |           |
| 12,900.00                                                                                 | 12,474.00                   | 12,664.44                   | 12,234.00                   | 44.73               | 44.08            | -90.38                       | -361.24                                   | -852.74                      | 702.62                          | 617.59               | 85.03   | 8.263    |                    |           |
| 13,000.00                                                                                 | 12,474.00                   | 12,764.44                   | 12,234.00                   | 45.01               | 44.39            | -90.38                       | -461.24                                   | -852.08                      | 702.62                          | 617.06               | 85.56   | 8.212    |                    |           |
| 13,100.00                                                                                 | 12,474.00                   | 12,864.44                   | 12,234.00                   | 45.35               | 44.75            | -90.38                       | -561.24                                   | -851.43                      | 702.62                          | 616.43               | 86.20   | 8.152    |                    |           |
| 13,200.00                                                                                 | 12,474.00                   | 12,964.44                   | 12,234.00                   | 45.75               | 45.16            | -90.38                       | -661.24                                   | -850.77                      | 702.62                          | 615.68               | 86.94   | 8.082    |                    |           |
| 13,300.00                                                                                 | 12,474.00                   | 13,064.44                   | 12,234.00                   | 46.20               | 45.63            | -90.38                       | -761.23                                   | -850.11                      | 702.62                          | 614.83               | 87.79   | 8.003    |                    |           |
| 13,400.00                                                                                 | 12,474.00                   | 13,164.44                   | 12,234.00                   | 46.71               | 46.15            | -90.38                       | -861.23                                   | -849.45                      | 702.62                          | 613.88               | 88.75   | 7.917    |                    |           |
| 13,500.00                                                                                 | 12,474.00                   | 13,264.44                   | 12,234.00                   | 47.26               | 46.72            | -90.38                       | -961.23                                   | -848.79                      | 702.62                          | 612.82               | 89.81   | 7.824    |                    |           |
| 13,600.00                                                                                 | 12,474.00                   | 13,364.44                   | 12,234.00                   | 47.87               | 47.34            | -90.38                       | -1,061.23                                 | -848.14                      | 702.62                          | 611.67               | 90.96   | 7.725    |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #201H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 13,700.00                                                                                 | 12,474.00             | 13,464.44             | 12,234.00             | 48.53            | 48.01         | -90.38                 | -1,161.22                           | -847.48      | 702.62                 | 610.42                  | 92.20                     | 7.620              |           |
| 13,800.00                                                                                 | 12,474.00             | 13,564.44             | 12,234.00             | 49.23            | 48.72         | -90.38                 | -1,261.22                           | -846.82      | 702.62                 | 609.08                  | 93.54                     | 7.511              |           |
| 13,900.00                                                                                 | 12,474.00             | 13,664.44             | 12,234.00             | 49.97            | 49.48         | -90.38                 | -1,361.22                           | -846.16      | 702.62                 | 607.66                  | 94.96                     | 7.399              |           |
| 14,000.00                                                                                 | 12,474.00             | 13,764.44             | 12,234.00             | 50.76            | 50.28         | -90.38                 | -1,461.22                           | -845.50      | 702.62                 | 606.16                  | 96.47                     | 7.284              |           |
| 14,100.00                                                                                 | 12,474.00             | 13,864.44             | 12,234.00             | 51.59            | 51.12         | -90.38                 | -1,561.22                           | -844.85      | 702.62                 | 604.58                  | 98.05                     | 7.166              |           |
| 14,200.00                                                                                 | 12,474.00             | 13,964.44             | 12,234.00             | 52.46            | 52.00         | -90.38                 | -1,661.21                           | -844.19      | 702.62                 | 602.92                  | 99.70                     | 7.047              |           |
| 14,300.00                                                                                 | 12,474.00             | 14,064.44             | 12,234.00             | 53.37            | 52.92         | -90.38                 | -1,761.21                           | -843.53      | 702.62                 | 601.19                  | 101.43                    | 6.927              |           |
| 14,400.00                                                                                 | 12,474.00             | 14,164.44             | 12,234.00             | 54.31            | 53.87         | -90.38                 | -1,861.21                           | -842.87      | 702.62                 | 599.40                  | 103.23                    | 6.807              |           |
| 14,500.00                                                                                 | 12,474.00             | 14,264.44             | 12,234.00             | 55.28            | 54.85         | -90.38                 | -1,961.21                           | -842.21      | 702.62                 | 597.54                  | 105.08                    | 6.686              |           |
| 14,600.00                                                                                 | 12,474.00             | 14,364.44             | 12,234.00             | 56.29            | 55.87         | -90.38                 | -2,061.21                           | -841.56      | 702.62                 | 595.62                  | 107.00                    | 6.566              |           |
| 14,700.00                                                                                 | 12,474.00             | 14,464.44             | 12,234.00             | 57.32            | 56.91         | -90.38                 | -2,161.20                           | -840.90      | 702.62                 | 593.65                  | 108.98                    | 6.447              |           |
| 14,800.00                                                                                 | 12,474.00             | 14,564.44             | 12,234.00             | 58.39            | 57.99         | -90.38                 | -2,261.20                           | -840.24      | 702.62                 | 591.62                  | 111.01                    | 6.329              |           |
| 14,900.00                                                                                 | 12,474.00             | 14,664.44             | 12,234.00             | 59.48            | 59.09         | -90.38                 | -2,361.20                           | -839.58      | 702.62                 | 589.53                  | 113.09                    | 6.213              |           |
| 15,000.00                                                                                 | 12,474.00             | 14,764.44             | 12,234.00             | 60.60            | 60.21         | -90.38                 | -2,461.20                           | -838.92      | 702.62                 | 587.40                  | 115.22                    | 6.098              |           |
| 15,100.00                                                                                 | 12,474.00             | 14,864.44             | 12,234.00             | 61.74            | 61.36         | -90.38                 | -2,561.19                           | -838.27      | 702.62                 | 585.23                  | 117.40                    | 5.985              |           |
| 15,200.00                                                                                 | 12,474.00             | 14,964.44             | 12,234.00             | 62.90            | 62.53         | -90.38                 | -2,661.19                           | -837.61      | 702.62                 | 583.01                  | 119.61                    | 5.874              |           |
| 15,300.00                                                                                 | 12,474.00             | 15,064.44             | 12,234.00             | 64.08            | 63.72         | -90.38                 | -2,761.19                           | -836.95      | 702.62                 | 580.75                  | 121.87                    | 5.765              |           |
| 15,400.00                                                                                 | 12,474.00             | 15,164.44             | 12,234.00             | 65.29            | 64.94         | -90.38                 | -2,861.19                           | -836.29      | 702.62                 | 578.45                  | 124.17                    | 5.658              |           |
| 15,500.00                                                                                 | 12,474.00             | 15,264.44             | 12,234.00             | 66.51            | 66.17         | -90.38                 | -2,961.19                           | -835.64      | 702.62                 | 576.11                  | 126.51                    | 5.554              |           |
| 15,600.00                                                                                 | 12,474.00             | 15,364.44             | 12,234.00             | 67.75            | 67.42         | -90.38                 | -3,061.18                           | -834.98      | 702.62                 | 573.74                  | 128.88                    | 5.452              |           |
| 15,700.00                                                                                 | 12,474.00             | 15,464.44             | 12,234.00             | 69.01            | 68.69         | -90.38                 | -3,161.18                           | -834.32      | 702.62                 | 571.34                  | 131.28                    | 5.352              |           |
| 15,800.00                                                                                 | 12,474.00             | 15,564.44             | 12,234.00             | 70.29            | 69.97         | -90.38                 | -3,261.18                           | -833.66      | 702.62                 | 568.91                  | 133.72                    | 5.255              |           |
| 15,900.00                                                                                 | 12,474.00             | 15,664.44             | 12,234.00             | 71.58            | 71.27         | -90.38                 | -3,361.18                           | -833.00      | 702.62                 | 566.44                  | 136.18                    | 5.160              |           |
| 16,000.00                                                                                 | 12,474.00             | 15,764.44             | 12,234.00             | 72.89            | 72.58         | -90.38                 | -3,461.18                           | -832.35      | 702.62                 | 563.95                  | 138.67                    | 5.067              |           |
| 16,100.00                                                                                 | 12,474.00             | 15,864.44             | 12,234.00             | 74.20            | 73.90         | -90.38                 | -3,561.17                           | -831.69      | 702.62                 | 561.43                  | 141.19                    | 4.976              |           |
| 16,200.00                                                                                 | 12,474.00             | 15,964.44             | 12,234.00             | 75.54            | 75.24         | -90.38                 | -3,661.17                           | -831.03      | 702.62                 | 558.89                  | 143.73                    | 4.888              |           |
| 16,300.00                                                                                 | 12,474.00             | 16,064.44             | 12,234.00             | 76.88            | 76.59         | -90.38                 | -3,761.17                           | -830.37      | 702.62                 | 556.33                  | 146.30                    | 4.803              |           |
| 16,400.00                                                                                 | 12,474.00             | 16,164.44             | 12,234.00             | 78.24            | 77.96         | -90.38                 | -3,861.17                           | -829.71      | 702.62                 | 553.74                  | 148.89                    | 4.719              |           |
| 16,500.00                                                                                 | 12,474.00             | 16,264.44             | 12,234.00             | 79.61            | 79.33         | -90.38                 | -3,961.16                           | -829.06      | 702.62                 | 551.13                  | 151.50                    | 4.638              |           |
| 16,600.00                                                                                 | 12,474.00             | 16,364.44             | 12,234.00             | 80.99            | 80.71         | -90.38                 | -4,061.16                           | -828.40      | 702.62                 | 548.50                  | 154.13                    | 4.559              |           |
| 16,700.00                                                                                 | 12,474.00             | 16,464.44             | 12,234.00             | 82.37            | 82.11         | -90.38                 | -4,161.16                           | -827.74      | 702.62                 | 545.85                  | 156.77                    | 4.482              |           |
| 16,800.00                                                                                 | 12,474.00             | 16,564.44             | 12,234.00             | 83.77            | 83.51         | -90.38                 | -4,261.16                           | -827.08      | 702.62                 | 543.18                  | 159.44                    | 4.407              |           |
| 16,900.00                                                                                 | 12,474.00             | 16,664.44             | 12,234.00             | 85.18            | 84.92         | -90.38                 | -4,361.16                           | -826.42      | 702.62                 | 540.50                  | 162.13                    | 4.334              |           |
| 17,000.00                                                                                 | 12,474.00             | 16,764.44             | 12,234.00             | 86.59            | 86.35         | -90.38                 | -4,461.15                           | -825.77      | 702.62                 | 537.79                  | 164.83                    | 4.263              |           |
| 17,100.00                                                                                 | 12,474.00             | 16,864.44             | 12,234.00             | 88.02            | 87.77         | -90.38                 | -4,561.15                           | -825.11      | 702.62                 | 535.08                  | 167.54                    | 4.194              |           |
| 17,200.00                                                                                 | 12,474.00             | 16,964.44             | 12,234.00             | 89.45            | 89.21         | -90.38                 | -4,661.15                           | -824.45      | 702.62                 | 532.35                  | 170.28                    | 4.126              |           |
| 17,226.60                                                                                 | 12,474.00             | 16,991.04             | 12,234.00             | 89.83            | 89.59         | -90.38                 | -4,687.75                           | -824.28      | 702.62                 | 531.62                  | 171.00                    | 4.109              |           |
| 17,226.75                                                                                 | 12,474.00             | 16,991.19             | 12,234.00             | 89.84            | 89.60         | -90.38                 | -4,687.90                           | -824.27      | 702.62                 | 531.61                  | 171.01                    | 4.109              |           |
| 17,227.36                                                                                 | 12,474.00             | 16,991.22             | 12,234.00             | 89.85            | 89.60         | -90.33                 | -4,687.93                           | -824.27      | 702.62                 | 531.61                  | 171.01                    | 4.109 ES, SF       |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #202H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                                                                                      | 0.00                  | 1.00                  | 1.00                  | 0.00             | 0.00          | 89.61                  | 0.20                                | 30.00        | 30.00                  |                         |                           |                   |                    |           |
| 100.00                                                                                    | 100.00                | 101.00                | 101.00                | 0.13             | 0.13          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 29.74                   | 0.26                      | 115.427           |                    |           |
| 200.00                                                                                    | 200.00                | 201.00                | 201.00                | 0.49             | 0.49          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 29.02                   | 0.98                      | 30.710            |                    |           |
| 300.00                                                                                    | 300.00                | 301.00                | 301.00                | 0.85             | 0.85          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 28.30                   | 1.69                      | 17.711            |                    |           |
| 400.00                                                                                    | 400.00                | 401.00                | 401.00                | 1.20             | 1.21          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 27.59                   | 2.41                      | 12.444            |                    |           |
| 500.00                                                                                    | 500.00                | 501.00                | 501.00                | 1.56             | 1.57          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 26.87                   | 3.13                      | 9.591             |                    |           |
| 516.33                                                                                    | 516.33                | 517.33                | 517.33                | 1.62             | 1.62          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 26.75                   | 3.24                      | 9.245 CC          |                    |           |
| 600.00                                                                                    | 600.00                | 601.00                | 601.00                | 1.92             | 1.92          | 89.61                  | 0.20                                | 30.00        | 30.00                  | 26.15                   | 3.84                      | 7.803 ES          |                    |           |
| 700.00                                                                                    | 699.99                | 700.56                | 700.55                | 2.28             | 2.28          | 90.03                  | 0.72                                | 30.71        | 31.19                  | 26.63                   | 4.55                      | 6.847             |                    |           |
| 800.00                                                                                    | 799.96                | 800.00                | 799.96                | 2.64             | 2.63          | 91.14                  | 2.25                                | 32.82        | 34.73                  | 29.47                   | 5.26                      | 6.600             |                    |           |
| 900.00                                                                                    | 899.86                | 899.34                | 899.20                | 2.99             | 2.98          | 92.57                  | 4.79                                | 36.33        | 40.64                  | 34.67                   | 5.97                      | 6.806             |                    |           |
| 999.81                                                                                    | 999.49                | 998.20                | 997.88                | 3.35             | 3.34          | 94.02                  | 8.32                                | 41.20        | 48.90                  | 42.23                   | 6.68                      | 7.322             |                    |           |
| 1,000.00                                                                                  | 999.68                | 998.39                | 998.07                | 3.35             | 3.34          | 94.02                  | 8.33                                | 41.21        | 48.92                  | 42.24                   | 6.68                      | 7.324             |                    |           |
| 1,100.00                                                                                  | 1,099.43              | 1,097.92              | 1,097.36              | 3.72             | 3.70          | 95.14                  | 12.40                               | 46.82        | 58.42                  | 51.02                   | 7.40                      | 7.899             |                    |           |
| 1,200.00                                                                                  | 1,199.19              | 1,197.47              | 1,196.66              | 4.08             | 4.06          | 95.95                  | 16.47                               | 52.44        | 67.94                  | 59.82                   | 8.11                      | 8.373             |                    |           |
| 1,300.00                                                                                  | 1,298.95              | 1,297.01              | 1,295.96              | 4.45             | 4.43          | 96.56                  | 20.54                               | 58.05        | 77.46                  | 68.63                   | 8.83                      | 8.768             |                    |           |
| 1,400.00                                                                                  | 1,398.70              | 1,396.55              | 1,395.26              | 4.82             | 4.79          | 97.03                  | 24.61                               | 63.67        | 86.99                  | 77.44                   | 9.56                      | 9.103             |                    |           |
| 1,500.00                                                                                  | 1,498.46              | 1,496.09              | 1,494.56              | 5.18             | 5.16          | 97.41                  | 28.68                               | 69.28        | 96.53                  | 86.25                   | 10.28                     | 9.391             |                    |           |
| 1,600.00                                                                                  | 1,598.22              | 1,595.63              | 1,593.86              | 5.55             | 5.52          | 97.73                  | 32.75                               | 74.90        | 106.07                 | 95.07                   | 11.00                     | 9.639             |                    |           |
| 1,700.00                                                                                  | 1,697.97              | 1,695.18              | 1,693.16              | 5.92             | 5.89          | 97.99                  | 36.82                               | 80.51        | 115.61                 | 103.89                  | 11.73                     | 9.857             |                    |           |
| 1,800.00                                                                                  | 1,797.73              | 1,794.72              | 1,792.46              | 6.29             | 6.26          | 98.21                  | 40.89                               | 86.13        | 125.16                 | 112.70                  | 12.46                     | 10.049            |                    |           |
| 1,900.00                                                                                  | 1,897.48              | 1,894.26              | 1,891.76              | 6.66             | 6.63          | 98.40                  | 44.96                               | 91.74        | 134.71                 | 121.53                  | 13.18                     | 10.219            |                    |           |
| 2,000.00                                                                                  | 1,997.24              | 1,993.80              | 1,991.06              | 7.03             | 7.00          | 98.56                  | 49.03                               | 97.36        | 144.25                 | 130.35                  | 13.91                     | 10.372            |                    |           |
| 2,100.00                                                                                  | 2,097.00              | 2,093.35              | 2,090.37              | 7.41             | 7.37          | 98.71                  | 53.10                               | 102.97       | 153.80                 | 139.17                  | 14.64                     | 10.508            |                    |           |
| 2,200.00                                                                                  | 2,196.75              | 2,192.89              | 2,189.67              | 7.78             | 7.74          | 98.83                  | 57.17                               | 108.59       | 163.35                 | 147.99                  | 15.36                     | 10.632            |                    |           |
| 2,300.00                                                                                  | 2,296.51              | 2,292.43              | 2,288.97              | 8.15             | 8.11          | 98.95                  | 61.24                               | 114.20       | 172.90                 | 156.81                  | 16.09                     | 10.745            |                    |           |
| 2,400.00                                                                                  | 2,396.27              | 2,391.97              | 2,388.27              | 8.52             | 8.48          | 99.05                  | 65.31                               | 119.82       | 182.46                 | 165.64                  | 16.82                     | 10.847            |                    |           |
| 2,500.00                                                                                  | 2,496.02              | 2,491.52              | 2,487.57              | 8.89             | 8.85          | 99.14                  | 69.38                               | 125.43       | 192.01                 | 174.46                  | 17.55                     | 10.941            |                    |           |
| 2,600.00                                                                                  | 2,595.78              | 2,591.06              | 2,586.87              | 9.26             | 9.22          | 99.22                  | 73.45                               | 131.05       | 201.56                 | 183.28                  | 18.28                     | 11.027            |                    |           |
| 2,700.00                                                                                  | 2,695.54              | 2,690.60              | 2,686.17              | 9.64             | 9.59          | 99.30                  | 77.52                               | 136.66       | 211.11                 | 192.10                  | 19.01                     | 11.107            |                    |           |
| 2,800.00                                                                                  | 2,795.29              | 2,790.14              | 2,785.47              | 10.01            | 9.96          | 99.37                  | 81.59                               | 142.28       | 220.67                 | 200.93                  | 19.74                     | 11.180            |                    |           |
| 2,900.00                                                                                  | 2,895.05              | 2,889.69              | 2,884.77              | 10.38            | 10.33         | 99.43                  | 85.66                               | 147.89       | 230.22                 | 209.75                  | 20.47                     | 11.249            |                    |           |
| 3,000.00                                                                                  | 2,994.81              | 2,989.23              | 2,984.07              | 10.75            | 10.70         | 99.49                  | 89.73                               | 153.51       | 239.77                 | 218.58                  | 21.20                     | 11.312            |                    |           |
| 3,100.00                                                                                  | 3,094.56              | 3,088.77              | 3,083.37              | 11.12            | 11.07         | 99.54                  | 93.80                               | 159.12       | 249.33                 | 227.40                  | 21.93                     | 11.371            |                    |           |
| 3,200.00                                                                                  | 3,194.32              | 3,188.31              | 3,182.67              | 11.50            | 11.44         | 99.59                  | 97.87                               | 164.74       | 258.88                 | 236.22                  | 22.66                     | 11.427            |                    |           |
| 3,300.00                                                                                  | 3,294.08              | 3,287.85              | 3,281.97              | 11.87            | 11.81         | 99.64                  | 101.94                              | 170.35       | 268.43                 | 245.05                  | 23.39                     | 11.478            |                    |           |
| 3,400.00                                                                                  | 3,393.83              | 3,387.40              | 3,381.27              | 12.24            | 12.18         | 99.68                  | 106.01                              | 175.97       | 277.99                 | 253.87                  | 24.12                     | 11.527            |                    |           |
| 3,500.00                                                                                  | 3,493.59              | 3,486.94              | 3,480.57              | 12.61            | 12.55         | 99.72                  | 110.08                              | 181.58       | 287.54                 | 262.70                  | 24.85                     | 11.573            |                    |           |
| 3,600.00                                                                                  | 3,593.35              | 3,586.48              | 3,579.87              | 12.99            | 12.92         | 99.76                  | 114.15                              | 187.20       | 297.10                 | 271.52                  | 25.58                     | 11.616            |                    |           |
| 3,700.00                                                                                  | 3,693.10              | 3,686.02              | 3,679.17              | 13.36            | 13.30         | 99.79                  | 118.22                              | 192.81       | 306.65                 | 280.35                  | 26.31                     | 11.657            |                    |           |
| 3,800.00                                                                                  | 3,792.86              | 3,785.57              | 3,778.47              | 13.73            | 13.67         | 99.82                  | 122.29                              | 198.43       | 316.21                 | 289.17                  | 27.04                     | 11.695            |                    |           |
| 3,900.00                                                                                  | 3,892.62              | 3,885.11              | 3,877.77              | 14.11            | 14.04         | 99.86                  | 126.36                              | 204.04       | 325.76                 | 297.99                  | 27.77                     | 11.732            |                    |           |
| 4,000.00                                                                                  | 3,992.37              | 3,984.65              | 3,977.07              | 14.48            | 14.41         | 99.88                  | 130.43                              | 209.66       | 335.32                 | 306.82                  | 28.50                     | 11.766            |                    |           |
| 4,100.00                                                                                  | 4,092.13              | 4,084.19              | 4,076.37              | 14.85            | 14.78         | 99.91                  | 134.50                              | 215.27       | 344.87                 | 315.64                  | 29.23                     | 11.799            |                    |           |
| 4,200.00                                                                                  | 4,191.89              | 4,183.74              | 4,175.67              | 15.22            | 15.15         | 99.94                  | 138.57                              | 220.89       | 354.43                 | 324.47                  | 29.96                     | 11.830            |                    |           |
| 4,300.00                                                                                  | 4,291.64              | 4,283.28              | 4,274.97              | 15.60            | 15.52         | 99.96                  | 142.64                              | 226.50       | 363.98                 | 333.29                  | 30.69                     | 11.860            |                    |           |
| 4,400.00                                                                                  | 4,391.40              | 4,382.82              | 4,374.28              | 15.97            | 15.89         | 99.99                  | 146.71                              | 232.12       | 373.54                 | 342.12                  | 31.42                     | 11.888            |                    |           |
| 4,500.00                                                                                  | 4,491.16              | 4,482.36              | 4,473.58              | 16.34            | 16.27         | 100.01                 | 150.78                              | 237.73       | 383.09                 | 350.94                  | 32.15                     | 11.915            |                    |           |
| 4,600.00                                                                                  | 4,590.91              | 4,581.90              | 4,572.88              | 16.72            | 16.64         | 100.03                 | 154.85                              | 243.35       | 392.65                 | 359.77                  | 32.88                     | 11.941            |                    |           |
| 4,700.00                                                                                  | 4,690.67              | 4,681.45              | 4,672.18              | 17.09            | 17.01         | 100.05                 | 158.92                              | 248.97       | 402.20                 | 368.59                  | 33.61                     | 11.966            |                    |           |
| 4,800.00                                                                                  | 4,790.43              | 4,780.99              | 4,771.48              | 17.46            | 17.38         | 100.07                 | 162.99                              | 254.58       | 411.76                 | 377.41                  | 34.34                     | 11.989            |                    |           |
| 4,900.00                                                                                  | 4,890.18              | 4,880.53              | 4,870.78              | 17.83            | 17.75         | 100.09                 | 167.06                              | 260.20       | 421.31                 | 386.24                  | 35.08                     | 12.012            |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #202H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 5,000.00                                                                                  | 4,989.94              | 4,980.07              | 4,970.08              | 18.21            | 18.12         | 100.11                 | 171.13                              | 265.81       | 430.87                 | 395.06                  | 35.81                     | 12.033             |           |
| 5,100.00                                                                                  | 5,089.70              | 5,079.62              | 5,069.38              | 18.58            | 18.49         | 100.12                 | 175.20                              | 271.43       | 440.43                 | 403.89                  | 36.54                     | 12.054             |           |
| 5,200.00                                                                                  | 5,189.45              | 5,179.16              | 5,168.68              | 18.95            | 18.87         | 100.14                 | 179.27                              | 277.04       | 449.98                 | 412.71                  | 37.27                     | 12.074             |           |
| 5,300.00                                                                                  | 5,289.21              | 5,278.70              | 5,267.98              | 19.33            | 19.24         | 100.15                 | 183.34                              | 282.66       | 459.54                 | 421.54                  | 38.00                     | 12.093             |           |
| 5,400.00                                                                                  | 5,388.97              | 5,378.24              | 5,367.28              | 19.70            | 19.61         | 100.17                 | 187.41                              | 288.27       | 469.09                 | 430.36                  | 38.73                     | 12.112             |           |
| 5,500.00                                                                                  | 5,488.72              | 5,477.79              | 5,466.58              | 20.07            | 19.98         | 100.18                 | 191.48                              | 293.89       | 478.65                 | 439.19                  | 39.46                     | 12.129             |           |
| 5,600.00                                                                                  | 5,588.48              | 5,577.33              | 5,565.88              | 20.45            | 20.35         | 100.20                 | 195.55                              | 299.50       | 488.20                 | 448.01                  | 40.19                     | 12.147             |           |
| 5,700.00                                                                                  | 5,688.24              | 5,676.87              | 5,665.18              | 20.82            | 20.72         | 100.21                 | 199.62                              | 305.12       | 497.76                 | 456.84                  | 40.92                     | 12.163             |           |
| 5,800.00                                                                                  | 5,787.99              | 5,776.41              | 5,764.48              | 21.19            | 21.10         | 100.22                 | 203.69                              | 310.73       | 507.32                 | 465.66                  | 41.66                     | 12.179             |           |
| 5,900.00                                                                                  | 5,887.75              | 5,875.95              | 5,863.78              | 21.57            | 21.47         | 100.24                 | 207.76                              | 316.35       | 516.87                 | 474.49                  | 42.39                     | 12.194             |           |
| 5,910.95                                                                                  | 5,898.68              | 5,886.86              | 5,874.66              | 21.61            | 21.51         | 100.24                 | 208.21                              | 316.96       | 517.92                 | 475.45                  | 42.47                     | 12.196             |           |
| 6,000.00                                                                                  | 5,987.57              | 5,975.56              | 5,963.14              | 21.93            | 21.84         | 100.16                 | 211.84                              | 321.96       | 525.73                 | 482.61                  | 43.12                     | 12.193             |           |
| 6,100.00                                                                                  | 6,087.51              | 6,075.27              | 6,062.61              | 22.29            | 22.21         | 99.89                  | 215.91                              | 327.59       | 532.83                 | 488.99                  | 43.84                     | 12.154             |           |
| 6,177.49                                                                                  | 6,165.00              | 6,152.57              | 6,139.73              | 22.56            | 22.50         | 99.54                  | 219.07                              | 331.95       | 537.14                 | 492.75                  | 44.39                     | 12.099             |           |
| 6,200.00                                                                                  | 6,187.51              | 6,175.02              | 6,162.12              | 22.64            | 22.58         | 99.42                  | 219.99                              | 333.22       | 538.24                 | 493.69                  | 44.55                     | 12.081             |           |
| 6,300.00                                                                                  | 6,287.51              | 6,274.78              | 6,261.64              | 22.99            | 22.96         | 98.90                  | 224.07                              | 338.84       | 543.17                 | 497.90                  | 45.27                     | 11.999             |           |
| 6,400.00                                                                                  | 6,387.51              | 6,374.54              | 6,361.15              | 23.33            | 23.33         | 98.38                  | 228.15                              | 344.47       | 548.13                 | 502.15                  | 45.98                     | 11.921             |           |
| 6,500.00                                                                                  | 6,487.51              | 6,474.30              | 6,460.67              | 23.68            | 23.70         | 97.88                  | 232.23                              | 350.10       | 553.15                 | 506.45                  | 46.69                     | 11.846             |           |
| 6,600.00                                                                                  | 6,587.51              | 6,574.05              | 6,560.18              | 24.02            | 24.07         | 97.39                  | 236.31                              | 355.73       | 558.20                 | 510.79                  | 47.41                     | 11.775             |           |
| 6,700.00                                                                                  | 6,687.51              | 6,673.81              | 6,659.70              | 24.37            | 24.45         | 96.90                  | 240.39                              | 361.35       | 563.29                 | 515.17                  | 48.12                     | 11.706             |           |
| 6,800.00                                                                                  | 6,787.51              | 6,773.57              | 6,759.21              | 24.72            | 24.82         | 96.42                  | 244.47                              | 366.98       | 568.43                 | 519.60                  | 48.83                     | 11.640             |           |
| 6,900.00                                                                                  | 6,887.51              | 6,873.32              | 6,858.73              | 25.06            | 25.19         | 95.95                  | 248.55                              | 372.61       | 573.60                 | 524.06                  | 49.55                     | 11.577             |           |
| 7,000.00                                                                                  | 6,987.51              | 6,973.08              | 6,958.24              | 25.41            | 25.56         | 95.49                  | 252.62                              | 378.23       | 578.81                 | 528.55                  | 50.26                     | 11.517             |           |
| 7,100.00                                                                                  | 7,087.51              | 7,072.84              | 7,057.76              | 25.76            | 25.94         | 95.04                  | 256.70                              | 383.86       | 584.06                 | 533.09                  | 50.97                     | 11.458             |           |
| 7,200.00                                                                                  | 7,187.51              | 7,172.59              | 7,157.27              | 26.11            | 26.31         | 94.60                  | 260.78                              | 389.49       | 589.34                 | 537.66                  | 51.69                     | 11.402             |           |
| 7,300.00                                                                                  | 7,287.51              | 7,272.35              | 7,256.79              | 26.45            | 26.68         | 94.16                  | 264.86                              | 395.12       | 594.66                 | 542.26                  | 52.40                     | 11.349             |           |
| 7,400.00                                                                                  | 7,387.51              | 7,372.11              | 7,356.30              | 26.80            | 27.05         | 93.74                  | 268.94                              | 400.74       | 600.01                 | 546.90                  | 53.11                     | 11.297             |           |
| 7,500.00                                                                                  | 7,487.51              | 7,471.87              | 7,455.81              | 27.15            | 27.43         | 93.31                  | 273.02                              | 406.37       | 605.39                 | 551.57                  | 53.83                     | 11.247             |           |
| 7,600.00                                                                                  | 7,587.51              | 7,571.62              | 7,555.33              | 27.50            | 27.80         | 92.90                  | 277.10                              | 412.00       | 610.81                 | 556.27                  | 54.54                     | 11.200             |           |
| 7,700.00                                                                                  | 7,687.51              | 7,671.38              | 7,654.84              | 27.85            | 28.17         | 92.50                  | 281.18                              | 417.62       | 616.26                 | 561.01                  | 55.25                     | 11.154             |           |
| 7,800.00                                                                                  | 7,787.51              | 7,771.14              | 7,754.36              | 28.20            | 28.54         | 92.10                  | 285.26                              | 423.25       | 621.74                 | 565.77                  | 55.97                     | 11.109             |           |
| 7,900.00                                                                                  | 7,887.51              | 7,870.89              | 7,853.87              | 28.55            | 28.92         | 91.71                  | 289.33                              | 428.88       | 627.24                 | 570.56                  | 56.68                     | 11.067             |           |
| 8,000.00                                                                                  | 7,987.51              | 7,970.65              | 7,953.39              | 28.90            | 29.29         | 91.32                  | 293.41                              | 434.51       | 632.78                 | 575.39                  | 57.39                     | 11.025             |           |
| 8,100.00                                                                                  | 8,087.51              | 8,070.41              | 8,052.90              | 29.25            | 29.66         | 90.94                  | 297.49                              | 440.13       | 638.34                 | 580.24                  | 58.11                     | 10.986             |           |
| 8,200.00                                                                                  | 8,187.51              | 8,170.16              | 8,152.42              | 29.60            | 30.03         | 90.57                  | 301.57                              | 445.76       | 643.93                 | 585.11                  | 58.82                     | 10.948             |           |
| 8,300.00                                                                                  | 8,287.51              | 8,269.92              | 8,251.93              | 29.95            | 30.41         | 90.21                  | 305.65                              | 451.39       | 649.55                 | 590.02                  | 59.53                     | 10.911             |           |
| 8,400.00                                                                                  | 8,387.51              | 8,374.96              | 8,356.73              | 30.30            | 30.80         | 89.84                  | 309.84                              | 457.16       | 655.06                 | 594.78                  | 60.28                     | 10.867             |           |
| 8,500.00                                                                                  | 8,487.51              | 8,491.10              | 8,472.75              | 30.65            | 31.22         | 89.57                  | 312.87                              | 461.35       | 658.69                 | 597.61                  | 61.07                     | 10.785             |           |
| 8,600.00                                                                                  | 8,587.51              | 8,607.45              | 8,589.08              | 31.00            | 31.63         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 598.01                  | 61.83                     | 10.671             |           |
| 8,603.71                                                                                  | 8,591.22              | 8,611.77              | 8,593.40              | 31.01            | 31.64         | 89.49                  | 313.84                              | 462.68       | 659.84                 | 597.98                  | 61.86                     | 10.667             |           |
| 8,700.00                                                                                  | 8,687.51              | 8,706.88              | 8,688.51              | 31.35            | 31.96         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 597.31                  | 62.53                     | 10.553             |           |
| 8,800.00                                                                                  | 8,787.51              | 8,806.88              | 8,788.51              | 31.70            | 32.30         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 596.62                  | 63.23                     | 10.436             |           |
| 8,900.00                                                                                  | 8,887.51              | 8,906.88              | 8,888.51              | 32.06            | 32.65         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 595.92                  | 63.93                     | 10.322             |           |
| 9,000.00                                                                                  | 8,987.51              | 9,006.88              | 8,988.51              | 32.41            | 32.99         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 595.22                  | 64.62                     | 10.210             |           |
| 9,100.00                                                                                  | 9,087.51              | 9,106.88              | 9,088.51              | 32.76            | 33.33         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 594.52                  | 65.32                     | 10.101             |           |
| 9,200.00                                                                                  | 9,187.51              | 9,206.88              | 9,188.51              | 33.11            | 33.67         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 593.82                  | 66.02                     | 9.994              |           |
| 9,300.00                                                                                  | 9,287.51              | 9,306.88              | 9,288.51              | 33.46            | 34.01         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 593.12                  | 66.72                     | 9.889              |           |
| 9,400.00                                                                                  | 9,387.51              | 9,406.88              | 9,388.51              | 33.82            | 34.36         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 592.42                  | 67.42                     | 9.786              |           |
| 9,500.00                                                                                  | 9,487.51              | 9,506.88              | 9,488.51              | 34.17            | 34.70         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 591.72                  | 68.12                     | 9.686              |           |
| 9,600.00                                                                                  | 9,587.51              | 9,606.88              | 9,588.51              | 34.52            | 35.04         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 591.02                  | 68.83                     | 9.587              |           |
| 9,700.00                                                                                  | 9,687.51              | 9,706.88              | 9,688.51              | 34.87            | 35.39         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 590.32                  | 69.53                     | 9.490              |           |
| 9,800.00                                                                                  | 9,787.51              | 9,806.88              | 9,788.51              | 35.23            | 35.73         | 89.49                  | 313.84                              | 462.69       | 659.84                 | 589.62                  | 70.23                     | 9.396              |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #202H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 9,900.00                                                                                  | 9,887.51              | 9,906.88              | 9,888.51              | 35.58            | 36.07         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 588.91                  | 70.93                     | 9.303             |                    |           |
| 10,000.00                                                                                 | 9,987.51              | 10,006.88             | 9,988.51              | 35.93            | 36.42         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 588.21                  | 71.63                     | 9.211             |                    |           |
| 10,100.00                                                                                 | 10,087.51             | 10,106.88             | 10,088.51             | 36.28            | 36.76         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 587.51                  | 72.34                     | 9.122             |                    |           |
| 10,200.00                                                                                 | 10,187.51             | 10,206.88             | 10,188.51             | 36.64            | 37.11         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 586.81                  | 73.04                     | 9.034             |                    |           |
| 10,300.00                                                                                 | 10,287.51             | 10,306.88             | 10,288.51             | 36.99            | 37.45         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 586.10                  | 73.74                     | 8.948             |                    |           |
| 10,400.00                                                                                 | 10,387.51             | 10,406.88             | 10,388.51             | 37.34            | 37.80         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 585.40                  | 74.45                     | 8.863             |                    |           |
| 10,500.00                                                                                 | 10,487.51             | 10,506.88             | 10,488.51             | 37.70            | 38.15         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 584.70                  | 75.15                     | 8.780             |                    |           |
| 10,600.00                                                                                 | 10,587.51             | 10,606.88             | 10,588.51             | 38.05            | 38.49         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 583.99                  | 75.85                     | 8.699             |                    |           |
| 10,700.00                                                                                 | 10,687.51             | 10,706.88             | 10,688.51             | 38.41            | 38.84         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 583.29                  | 76.56                     | 8.619             |                    |           |
| 10,800.00                                                                                 | 10,787.51             | 10,806.88             | 10,788.51             | 38.76            | 39.18         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 582.58                  | 77.26                     | 8.540             |                    |           |
| 10,900.00                                                                                 | 10,887.51             | 10,906.88             | 10,888.51             | 39.11            | 39.53         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 581.88                  | 77.97                     | 8.463             |                    |           |
| 11,000.00                                                                                 | 10,987.51             | 11,006.88             | 10,988.51             | 39.47            | 39.88         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 581.17                  | 78.67                     | 8.387             |                    |           |
| 11,100.00                                                                                 | 11,087.51             | 11,106.88             | 11,088.51             | 39.82            | 40.23         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 580.47                  | 79.38                     | 8.313             |                    |           |
| 11,200.00                                                                                 | 11,187.51             | 11,206.88             | 11,188.51             | 40.18            | 40.57         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 579.76                  | 80.08                     | 8.240             |                    |           |
| 11,300.00                                                                                 | 11,287.51             | 11,306.88             | 11,288.51             | 40.53            | 40.92         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 579.06                  | 80.79                     | 8.168             |                    |           |
| 11,400.00                                                                                 | 11,387.51             | 11,406.88             | 11,388.51             | 40.88            | 41.27         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 578.35                  | 81.49                     | 8.097             |                    |           |
| 11,500.00                                                                                 | 11,487.51             | 11,506.88             | 11,488.51             | 41.24            | 41.62         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 577.65                  | 82.20                     | 8.027             |                    |           |
| 11,600.00                                                                                 | 11,587.51             | 11,606.88             | 11,588.51             | 41.59            | 41.96         | 89.49                  | 313.84                              | 462.69                              | 659.84                 | 576.94                  | 82.90                     | 7.959             |                    |           |
| 11,674.74                                                                                 | 11,662.25             | 11,681.66             | 11,663.25             | 41.86            | 42.21         | 89.64                  | 312.15                              | 462.70                              | 659.84                 | 576.42                  | 83.42                     | 7.910             |                    |           |
| 11,700.00                                                                                 | 11,687.51             | 11,706.74             | 11,688.21             | 41.95            | 42.29         | 89.85                  | 309.68                              | 462.71                              | 659.85                 | 576.26                  | 83.59                     | 7.894             |                    |           |
| 11,800.00                                                                                 | 11,787.51             | 11,802.66             | 11,782.01             | 42.30            | 42.56         | 91.54                  | 290.23                              | 462.84                              | 660.24                 | 576.01                  | 84.23                     | 7.839             |                    |           |
| 11,900.00                                                                                 | 11,887.51             | 11,889.98             | 11,863.53             | 42.66            | 42.77         | 94.23                  | 259.16                              | 463.03                              | 662.44                 | 577.65                  | 84.79                     | 7.813             |                    |           |
| 11,907.73                                                                                 | 11,895.24             | 11,896.29             | 11,869.22             | 42.68            | 42.79         | 94.46                  | 256.43                              | 463.05                              | 662.74                 | 577.91                  | 84.83                     | 7.813             |                    |           |
| 11,950.00                                                                                 | 11,937.47             | 11,930.25             | 11,899.32             | 42.82            | 42.86         | 95.68                  | 240.72                              | 463.15                              | 664.68                 | 579.68                  | 85.01                     | 7.819             |                    |           |
| 12,000.00                                                                                 | 11,987.11             | 11,969.53             | 11,932.91             | 42.97            | 42.94         | 96.92                  | 220.36                              | 463.28                              | 667.50                 | 582.34                  | 85.16                     | 7.838             |                    |           |
| 12,050.00                                                                                 | 12,036.05             | 12,007.99             | 11,964.36             | 43.12            | 43.00         | 97.94                  | 198.24                              | 463.42                              | 670.78                 | 585.53                  | 85.26                     | 7.868             |                    |           |
| 12,100.00                                                                                 | 12,083.92             | 12,050.00             | 11,996.94             | 43.25            | 43.07         | 98.97                  | 171.73                              | 463.59                              | 674.45                 | 589.12                  | 85.34                     | 7.903             |                    |           |
| 12,150.00                                                                                 | 12,130.35             | 12,082.79             | 12,020.96             | 43.37            | 43.11         | 99.29                  | 149.42                              | 463.73                              | 678.35                 | 593.08                  | 85.27                     | 7.955             |                    |           |
| 12,200.00                                                                                 | 12,175.00             | 12,119.31             | 12,046.17             | 43.49            | 43.16         | 99.63                  | 123.01                              | 463.90                              | 682.44                 | 597.24                  | 85.20                     | 8.010             |                    |           |
| 12,250.00                                                                                 | 12,217.51             | 12,150.00             | 12,066.01             | 43.59            | 43.19         | 99.38                  | 99.60                               | 464.04                              | 686.63                 | 601.61                  | 85.01                     | 8.077             |                    |           |
| 12,300.00                                                                                 | 12,257.57             | 12,190.94             | 12,090.48             | 43.68            | 43.23         | 99.63                  | 66.79                               | 464.25                              | 690.74                 | 605.82                  | 84.92                     | 8.134             |                    |           |
| 12,350.00                                                                                 | 12,294.88             | 12,226.17             | 12,109.62             | 43.76            | 43.25         | 99.32                  | 37.22                               | 464.44                              | 694.77                 | 610.03                  | 84.74                     | 8.199             |                    |           |
| 12,400.00                                                                                 | 12,329.14             | 12,261.08             | 12,126.75             | 43.83            | 43.28         | 98.81                  | 6.81                                | 464.63                              | 698.61                 | 614.06                  | 84.55                     | 8.263             |                    |           |
| 12,450.00                                                                                 | 12,360.10             | 12,300.00             | 12,143.63             | 43.90            | 43.30         | 98.46                  | -28.25                              | 464.85                              | 702.20                 | 617.80                  | 84.40                     | 8.320             |                    |           |
| 12,500.00                                                                                 | 12,387.52             | 12,330.11             | 12,155.03             | 43.96            | 43.32         | 97.27                  | -56.11                              | 465.03                              | 705.44                 | 621.25                  | 84.18                     | 8.380             |                    |           |
| 12,550.00                                                                                 | 12,411.20             | 12,364.31             | 12,166.19             | 44.03            | 43.36         | 96.27                  | -88.44                              | 465.23                              | 708.31                 | 624.27                  | 84.04                     | 8.428             |                    |           |
| 12,600.00                                                                                 | 12,430.95             | 12,400.00             | 12,175.75             | 44.11            | 43.42         | 95.28                  | -122.82                             | 465.45                              | 710.75                 | 626.80                  | 83.94                     | 8.467             |                    |           |
| 12,650.00                                                                                 | 12,446.62             | 12,437.61             | 12,183.49             | 44.20            | 43.49         | 94.37                  | -159.61                             | 465.68                              | 712.74                 | 628.83                  | 83.91                     | 8.494             |                    |           |
| 12,700.00                                                                                 | 12,458.10             | 12,470.30             | 12,188.62             | 44.29            | 43.56         | 92.95                  | -191.90                             | 465.89                              | 714.04                 | 630.14                  | 83.91                     | 8.510             |                    |           |
| 12,707.73                                                                                 | 12,459.49             | 12,476.31             | 12,189.44             | 44.31            | 43.57         | 92.81                  | -197.85                             | 465.93                              | 714.17                 | 630.25                  | 83.92                     | 8.510             |                    |           |
| 12,750.00                                                                                 | 12,465.91             | 12,509.12             | 12,193.26             | 44.39            | 43.64         | 92.01                  | -230.44                             | 466.13                              | 714.74                 | 630.74                  | 84.00                     | 8.509             |                    |           |
| 12,800.00                                                                                 | 12,471.10             | 12,550.00             | 12,196.46             | 44.50            | 43.74         | 91.23                  | -271.19                             | 466.39                              | 715.21                 | 631.06                  | 84.14                     | 8.500             |                    |           |
| 12,850.00                                                                                 | 12,473.69             | 12,586.67             | 12,197.84             | 44.61            | 43.84         | 90.08                  | -307.83                             | 466.62                              | 715.44                 | 631.13                  | 84.32                     | 8.485             |                    |           |
| 12,874.40                                                                                 | 12,474.00             | 12,605.97             | 12,198.00             | 44.67            | 43.89         | 89.64                  | -327.12                             | 466.74                              | 715.48                 | 631.06                  | 84.42                     | 8.475             |                    |           |
| 12,900.00                                                                                 | 12,474.00             | 12,631.57             | 12,198.00             | 44.73            | 43.96         | 89.64                  | -352.72                             | 466.91                              | 715.47                 | 630.93                  | 84.54                     | 8.463             |                    |           |
| 13,000.00                                                                                 | 12,474.00             | 12,731.57             | 12,198.00             | 45.01            | 44.27         | 89.64                  | -452.72                             | 467.54                              | 715.45                 | 630.37                  | 85.08                     | 8.409             |                    |           |
| 13,100.00                                                                                 | 12,474.00             | 12,831.57             | 12,198.00             | 45.35            | 44.64         | 89.64                  | -552.72                             | 468.17                              | 715.43                 | 629.70                  | 85.73                     | 8.345             |                    |           |
| 13,200.00                                                                                 | 12,474.00             | 12,931.57             | 12,198.00             | 45.75            | 45.06         | 89.64                  | -652.72                             | 468.81                              | 715.40                 | 628.92                  | 86.49                     | 8.272             |                    |           |
| 13,300.00                                                                                 | 12,474.00             | 13,031.57             | 12,198.00             | 46.20            | 45.53         | 89.64                  | -752.72                             | 469.44                              | 715.38                 | 628.03                  | 87.35                     | 8.190             |                    |           |
| 13,400.00                                                                                 | 12,474.00             | 13,131.57             | 12,198.00             | 46.71            | 46.05         | 89.64                  | -852.71                             | 470.07                              | 715.36                 | 627.05                  | 88.31                     | 8.101             |                    |           |
| 13,500.00                                                                                 | 12,474.00             | 13,231.57             | 12,198.00             | 47.26            | 46.62         | 89.64                  | -952.71                             | 470.70                              | 715.33                 | 625.97                  | 89.37                     | 8.004             |                    |           |
| 13,600.00                                                                                 | 12,474.00             | 13,331.57             | 12,198.00             | 47.87            | 47.25         | 89.64                  | -1,052.71                           | 471.34                              | 715.31                 | 624.79                  | 90.52                     | 7.902             |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #202H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 13,700.00                                                                                 | 12,474.00             | 13,431.57             | 12,198.00             | 48.53            | 47.92         | 89.64                  | -1,152.71                           | 471.97       | 715.29                 | 623.52                  | 91.76                     | 7.795              |           |
| 13,800.00                                                                                 | 12,474.00             | 13,531.57             | 12,198.00             | 49.23            | 48.63         | 89.64                  | -1,252.71                           | 472.60       | 715.27                 | 622.17                  | 93.09                     | 7.683              |           |
| 13,900.00                                                                                 | 12,474.00             | 13,631.57             | 12,198.00             | 49.97            | 49.39         | 89.64                  | -1,352.70                           | 473.24       | 715.24                 | 620.73                  | 94.51                     | 7.568              |           |
| 14,000.00                                                                                 | 12,474.00             | 13,731.57             | 12,198.00             | 50.76            | 50.20         | 89.64                  | -1,452.70                           | 473.87       | 715.22                 | 619.22                  | 96.00                     | 7.450              |           |
| 14,100.00                                                                                 | 12,474.00             | 13,831.57             | 12,198.00             | 51.59            | 51.04         | 89.64                  | -1,552.70                           | 474.50       | 715.20                 | 617.62                  | 97.57                     | 7.330              |           |
| 14,200.00                                                                                 | 12,474.00             | 13,931.57             | 12,198.00             | 52.46            | 51.92         | 89.64                  | -1,652.70                           | 475.13       | 715.17                 | 615.96                  | 99.22                     | 7.208              |           |
| 14,300.00                                                                                 | 12,474.00             | 14,031.57             | 12,198.00             | 53.37            | 52.84         | 89.64                  | -1,752.70                           | 475.77       | 715.15                 | 614.22                  | 100.93                    | 7.086              |           |
| 14,400.00                                                                                 | 12,474.00             | 14,131.57             | 12,198.00             | 54.31            | 53.80         | 89.64                  | -1,852.69                           | 476.40       | 715.13                 | 612.42                  | 102.70                    | 6.963              |           |
| 14,500.00                                                                                 | 12,474.00             | 14,231.57             | 12,198.00             | 55.28            | 54.78         | 89.64                  | -1,952.69                           | 477.03       | 715.10                 | 610.56                  | 104.54                    | 6.840              |           |
| 14,600.00                                                                                 | 12,474.00             | 14,331.57             | 12,198.00             | 56.29            | 55.80         | 89.64                  | -2,052.69                           | 477.67       | 715.08                 | 608.64                  | 106.44                    | 6.718              |           |
| 14,700.00                                                                                 | 12,474.00             | 14,431.57             | 12,198.00             | 57.32            | 56.85         | 89.64                  | -2,152.69                           | 478.30       | 715.06                 | 606.66                  | 108.39                    | 6.597              |           |
| 14,800.00                                                                                 | 12,474.00             | 14,531.57             | 12,198.00             | 58.39            | 57.93         | 89.64                  | -2,252.69                           | 478.93       | 715.04                 | 604.63                  | 110.40                    | 6.477              |           |
| 14,900.00                                                                                 | 12,474.00             | 14,631.57             | 12,198.00             | 59.48            | 59.03         | 89.64                  | -2,352.68                           | 479.56       | 715.01                 | 602.55                  | 112.46                    | 6.358              |           |
| 15,000.00                                                                                 | 12,474.00             | 14,731.57             | 12,198.00             | 60.60            | 60.16         | 89.64                  | -2,452.68                           | 480.20       | 714.99                 | 600.43                  | 114.56                    | 6.241              |           |
| 15,100.00                                                                                 | 12,474.00             | 14,831.57             | 12,198.00             | 61.74            | 61.31         | 89.64                  | -2,552.68                           | 480.83       | 714.97                 | 598.26                  | 116.71                    | 6.126              |           |
| 15,200.00                                                                                 | 12,474.00             | 14,931.57             | 12,198.00             | 62.90            | 62.48         | 89.64                  | -2,652.68                           | 481.46       | 714.94                 | 596.04                  | 118.90                    | 6.013              |           |
| 15,300.00                                                                                 | 12,474.00             | 15,031.57             | 12,198.00             | 64.08            | 63.68         | 89.64                  | -2,752.68                           | 482.10       | 714.92                 | 593.79                  | 121.13                    | 5.902              |           |
| 15,400.00                                                                                 | 12,474.00             | 15,131.57             | 12,198.00             | 65.29            | 64.89         | 89.64                  | -2,852.67                           | 482.73       | 714.90                 | 591.50                  | 123.40                    | 5.793              |           |
| 15,500.00                                                                                 | 12,474.00             | 15,231.57             | 12,198.00             | 66.51            | 66.13         | 89.64                  | -2,952.67                           | 483.36       | 714.87                 | 589.17                  | 125.71                    | 5.687              |           |
| 15,600.00                                                                                 | 12,474.00             | 15,331.57             | 12,198.00             | 67.75            | 67.38         | 89.64                  | -3,052.67                           | 484.00       | 714.85                 | 586.81                  | 128.05                    | 5.583              |           |
| 15,700.00                                                                                 | 12,474.00             | 15,431.57             | 12,198.00             | 69.01            | 68.65         | 89.64                  | -3,152.67                           | 484.63       | 714.83                 | 584.41                  | 130.42                    | 5.481              |           |
| 15,800.00                                                                                 | 12,474.00             | 15,531.57             | 12,198.00             | 70.29            | 69.93         | 89.64                  | -3,252.67                           | 485.26       | 714.81                 | 581.99                  | 132.82                    | 5.382              |           |
| 15,900.00                                                                                 | 12,474.00             | 15,631.57             | 12,198.00             | 71.58            | 71.23         | 89.64                  | -3,352.66                           | 485.89       | 714.78                 | 579.54                  | 135.25                    | 5.285              |           |
| 16,000.00                                                                                 | 12,474.00             | 15,731.57             | 12,198.00             | 72.89            | 72.55         | 89.64                  | -3,452.66                           | 486.53       | 714.76                 | 577.06                  | 137.70                    | 5.191              |           |
| 16,100.00                                                                                 | 12,474.00             | 15,831.57             | 12,198.00             | 74.20            | 73.87         | 89.64                  | -3,552.66                           | 487.16       | 714.74                 | 574.55                  | 140.19                    | 5.098              |           |
| 16,200.00                                                                                 | 12,474.00             | 15,931.57             | 12,198.00             | 75.54            | 75.21         | 89.64                  | -3,652.66                           | 487.79       | 714.71                 | 572.02                  | 142.69                    | 5.009              |           |
| 16,300.00                                                                                 | 12,474.00             | 16,031.57             | 12,198.00             | 76.88            | 76.57         | 89.64                  | -3,752.66                           | 488.43       | 714.69                 | 569.47                  | 145.22                    | 4.921              |           |
| 16,400.00                                                                                 | 12,474.00             | 16,131.57             | 12,198.00             | 78.24            | 77.93         | 89.64                  | -3,852.65                           | 489.06       | 714.67                 | 566.89                  | 147.78                    | 4.836              |           |
| 16,500.00                                                                                 | 12,474.00             | 16,231.57             | 12,198.00             | 79.61            | 79.31         | 89.64                  | -3,952.65                           | 489.69       | 714.64                 | 564.29                  | 150.35                    | 4.753              |           |
| 16,600.00                                                                                 | 12,474.00             | 16,331.57             | 12,198.00             | 80.99            | 80.69         | 89.64                  | -4,052.65                           | 490.32       | 714.62                 | 561.68                  | 152.94                    | 4.672              |           |
| 16,700.00                                                                                 | 12,474.00             | 16,431.57             | 12,198.00             | 82.37            | 82.09         | 89.64                  | -4,152.65                           | 490.96       | 714.60                 | 559.04                  | 155.55                    | 4.594              |           |
| 16,800.00                                                                                 | 12,474.00             | 16,531.57             | 12,198.00             | 83.77            | 83.49         | 89.64                  | -4,252.65                           | 491.59       | 714.57                 | 556.39                  | 158.18                    | 4.517              |           |
| 16,900.00                                                                                 | 12,474.00             | 16,631.57             | 12,198.00             | 85.18            | 84.91         | 89.64                  | -4,352.64                           | 492.22       | 714.55                 | 553.72                  | 160.83                    | 4.443              |           |
| 17,000.00                                                                                 | 12,474.00             | 16,731.57             | 12,198.00             | 86.59            | 86.33         | 89.64                  | -4,452.64                           | 492.86       | 714.53                 | 551.04                  | 163.49                    | 4.370              |           |
| 17,100.00                                                                                 | 12,474.00             | 16,831.57             | 12,198.00             | 88.02            | 87.76         | 89.64                  | -4,552.64                           | 493.49       | 714.51                 | 548.33                  | 166.17                    | 4.300              |           |
| 17,200.00                                                                                 | 12,474.00             | 16,931.57             | 12,198.00             | 89.45            | 89.20         | 89.64                  | -4,652.64                           | 494.12       | 714.48                 | 545.62                  | 168.86                    | 4.231              |           |
| 17,222.57                                                                                 | 12,474.00             | 16,954.14             | 12,198.00             | 89.77            | 89.52         | 89.64                  | -4,675.21                           | 494.26       | 714.48                 | 545.01                  | 169.47                    | 4.216              |           |
| 17,226.60                                                                                 | 12,474.00             | 16,957.82             | 12,198.00             | 89.83            | 89.57         | 89.61                  | -4,678.89                           | 494.29       | 714.48                 | 544.90                  | 169.58                    | 4.213              |           |
| 17,227.36                                                                                 | 12,474.00             | 16,957.82             | 12,198.00             | 89.85            | 89.57         | 89.54                  | -4,678.89                           | 494.29       | 714.48                 | 544.89                  | 169.59                    | 4.213 SF           |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #211H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: O-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                                                                                      | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               |                         |                           |                   |                    |           |
| 100.00                                                                                    | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,319.51                | 0.26                      | 5,149.139         |                    |           |
| 200.00                                                                                    | 200.00                | 200.00                | 200.00                | 0.49             | 0.49          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,318.79                | 0.97                      | 1,356.036         |                    |           |
| 300.00                                                                                    | 300.00                | 300.00                | 300.00                | 0.85             | 0.85          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,318.07                | 1.69                      | 780.835           |                    |           |
| 400.00                                                                                    | 400.00                | 400.00                | 400.00                | 1.20             | 1.20          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,317.36                | 2.41                      | 548.271           |                    |           |
| 500.00                                                                                    | 500.00                | 500.00                | 500.00                | 1.56             | 1.56          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,316.64                | 3.12                      | 422.449           |                    |           |
| 600.00                                                                                    | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | -90.51                 | -11.70                              | -1,319.71                           | 1,319.76               | 1,315.92                | 3.84                      | 343.597           |                    |           |
| 700.00                                                                                    | 699.99                | 689.09                | 689.08                | 2.28             | 2.24          | -90.51                 | -11.12                              | -1,320.08                           | 1,319.71               | 1,315.20                | 4.52                      | 292.235           |                    |           |
| 800.00                                                                                    | 799.96                | 778.18                | 778.15                | 2.64             | 2.56          | -90.53                 | -9.37                               | -1,321.21                           | 1,319.56               | 1,314.37                | 5.19                      | 254.297           |                    |           |
| 900.00                                                                                    | 899.86                | 867.27                | 867.17                | 2.99             | 2.88          | -90.57                 | -6.45                               | -1,323.07                           | 1,319.31               | 1,313.45                | 5.86                      | 225.000           |                    |           |
| 999.81                                                                                    | 999.49                | 956.20                | 955.97                | 3.35             | 3.20          | -90.61                 | -2.38                               | -1,325.68                           | 1,318.96               | 1,312.42                | 6.54                      | 201.687           |                    |           |
| 1,000.00                                                                                  | 999.68                | 956.37                | 956.14                | 3.35             | 3.20          | -90.61                 | -2.37                               | -1,325.69                           | 1,318.96               | 1,312.42                | 6.54                      | 201.646           |                    |           |
| 1,049.14                                                                                  | 1,048.69              | 1,000.22              | 999.89                | 3.53             | 3.35          | -90.63                 | 0.07                                | -1,327.25                           | 1,318.86               | 1,311.98                | 6.88                      | 191.829 CC        |                    |           |
| 1,100.00                                                                                  | 1,099.43              | 1,051.01              | 1,050.56              | 3.72             | 3.54          | -90.63                 | 3.05                                | -1,329.16                           | 1,318.86               | 1,311.62                | 7.24                      | 182.105           |                    |           |
| 1,200.00                                                                                  | 1,199.19              | 1,151.01              | 1,150.32              | 4.08             | 3.90          | -90.63                 | 8.93                                | -1,332.92                           | 1,318.87               | 1,310.90                | 7.97                      | 165.543           |                    |           |
| 1,300.00                                                                                  | 1,298.95              | 1,251.01              | 1,250.07              | 4.45             | 4.27          | -90.63                 | 14.81                               | -1,336.69                           | 1,318.87               | 1,310.18                | 8.69                      | 151.705           |                    |           |
| 1,400.00                                                                                  | 1,398.70              | 1,351.01              | 1,349.83              | 4.82             | 4.64          | -90.63                 | 20.68                               | -1,340.45                           | 1,318.88               | 1,309.46                | 9.42                      | 139.968           |                    |           |
| 1,500.00                                                                                  | 1,498.46              | 1,451.01              | 1,449.59              | 5.18             | 5.00          | -90.63                 | 26.56                               | -1,344.22                           | 1,318.88               | 1,308.73                | 10.15                     | 129.899           |                    |           |
| 1,600.00                                                                                  | 1,598.22              | 1,551.01              | 1,549.34              | 5.55             | 5.37          | -90.63                 | 32.44                               | -1,347.98                           | 1,318.89               | 1,308.00                | 10.88                     | 121.169           |                    |           |
| 1,700.00                                                                                  | 1,697.97              | 1,651.01              | 1,649.10              | 5.92             | 5.74          | -90.63                 | 38.32                               | -1,351.74                           | 1,318.89               | 1,307.28                | 11.62                     | 113.529           |                    |           |
| 1,800.00                                                                                  | 1,797.73              | 1,751.01              | 1,748.85              | 6.29             | 6.11          | -90.63                 | 44.19                               | -1,355.51                           | 1,318.90               | 1,306.55                | 12.35                     | 106.789           |                    |           |
| 1,900.00                                                                                  | 1,897.48              | 1,851.01              | 1,848.61              | 6.66             | 6.48          | -90.63                 | 50.07                               | -1,359.27                           | 1,318.90               | 1,305.82                | 13.08                     | 100.799           |                    |           |
| 2,000.00                                                                                  | 1,997.24              | 1,951.01              | 1,948.37              | 7.03             | 6.85          | -90.63                 | 55.95                               | -1,363.04                           | 1,318.91               | 1,305.09                | 13.82                     | 95.442            |                    |           |
| 2,100.00                                                                                  | 2,097.00              | 2,051.01              | 2,048.12              | 7.41             | 7.22          | -90.63                 | 61.82                               | -1,366.80                           | 1,318.92               | 1,304.36                | 14.55                     | 90.623            |                    |           |
| 2,200.00                                                                                  | 2,196.75              | 2,151.01              | 2,147.88              | 7.78             | 7.59          | -90.63                 | 67.70                               | -1,370.57                           | 1,318.92               | 1,303.63                | 15.29                     | 86.264            |                    |           |
| 2,300.00                                                                                  | 2,296.51              | 2,251.01              | 2,247.63              | 8.15             | 7.97          | -90.63                 | 73.58                               | -1,374.33                           | 1,318.93               | 1,302.90                | 16.03                     | 82.304            |                    |           |
| 2,400.00                                                                                  | 2,396.27              | 2,351.01              | 2,347.39              | 8.52             | 8.34          | -90.63                 | 79.46                               | -1,378.09                           | 1,318.93               | 1,302.17                | 16.76                     | 78.690            |                    |           |
| 2,500.00                                                                                  | 2,496.02              | 2,451.01              | 2,447.15              | 8.89             | 8.71          | -90.63                 | 85.33                               | -1,381.86                           | 1,318.94               | 1,301.44                | 17.50                     | 75.379            |                    |           |
| 2,600.00                                                                                  | 2,595.78              | 2,551.01              | 2,546.90              | 9.26             | 9.08          | -90.63                 | 91.21                               | -1,385.62                           | 1,318.94               | 1,300.71                | 18.23                     | 72.335            |                    |           |
| 2,700.00                                                                                  | 2,695.54              | 2,651.01              | 2,646.66              | 9.64             | 9.45          | -90.63                 | 97.09                               | -1,389.39                           | 1,318.95               | 1,299.98                | 18.97                     | 69.526            |                    |           |
| 2,800.00                                                                                  | 2,795.29              | 2,751.01              | 2,746.42              | 10.01            | 9.83          | -90.63                 | 102.97                              | -1,393.15                           | 1,318.95               | 1,299.25                | 19.71                     | 66.927            |                    |           |
| 2,900.00                                                                                  | 2,895.05              | 2,851.01              | 2,846.17              | 10.38            | 10.20         | -90.63                 | 108.84                              | -1,396.92                           | 1,318.96               | 1,298.51                | 20.44                     | 64.514            |                    |           |
| 3,000.00                                                                                  | 2,994.81              | 2,951.01              | 2,945.93              | 10.75            | 10.57         | -90.63                 | 114.72                              | -1,400.68                           | 1,318.96               | 1,297.78                | 21.18                     | 62.269            |                    |           |
| 3,100.00                                                                                  | 3,094.56              | 3,051.01              | 3,045.68              | 11.12            | 10.94         | -90.63                 | 120.60                              | -1,404.44                           | 1,318.97               | 1,297.05                | 21.92                     | 60.175            |                    |           |
| 3,200.00                                                                                  | 3,194.32              | 3,151.01              | 3,145.44              | 11.50            | 11.31         | -90.63                 | 126.48                              | -1,408.21                           | 1,318.98               | 1,296.32                | 22.66                     | 58.217            |                    |           |
| 3,300.00                                                                                  | 3,294.08              | 3,251.01              | 3,245.20              | 11.87            | 11.69         | -90.63                 | 132.35                              | -1,411.97                           | 1,318.98               | 1,295.59                | 23.39                     | 56.381            |                    |           |
| 3,400.00                                                                                  | 3,393.83              | 3,351.01              | 3,344.95              | 12.24            | 12.06         | -90.63                 | 138.23                              | -1,415.74                           | 1,318.99               | 1,294.85                | 24.13                     | 54.658            |                    |           |
| 3,500.00                                                                                  | 3,493.59              | 3,451.01              | 3,444.71              | 12.61            | 12.43         | -90.63                 | 144.11                              | -1,419.50                           | 1,318.99               | 1,294.12                | 24.87                     | 53.037            |                    |           |
| 3,600.00                                                                                  | 3,593.35              | 3,551.01              | 3,544.46              | 12.99            | 12.81         | -90.63                 | 149.98                              | -1,423.27                           | 1,319.00               | 1,293.39                | 25.61                     | 51.509            |                    |           |
| 3,700.00                                                                                  | 3,693.10              | 3,651.01              | 3,644.22              | 13.36            | 13.18         | -90.63                 | 155.86                              | -1,427.03                           | 1,319.00               | 1,292.66                | 26.34                     | 50.067            |                    |           |
| 3,800.00                                                                                  | 3,792.86              | 3,751.01              | 3,743.98              | 13.73            | 13.55         | -90.63                 | 161.74                              | -1,430.79                           | 1,319.01               | 1,291.92                | 27.08                     | 48.703            |                    |           |
| 3,900.00                                                                                  | 3,892.62              | 3,851.01              | 3,843.73              | 14.11            | 13.92         | -90.63                 | 167.62                              | -1,434.56                           | 1,319.01               | 1,291.19                | 27.82                     | 47.411            |                    |           |
| 4,000.00                                                                                  | 3,992.37              | 3,951.01              | 3,943.49              | 14.48            | 14.30         | -90.63                 | 173.49                              | -1,438.32                           | 1,319.02               | 1,290.46                | 28.56                     | 46.186            |                    |           |
| 4,100.00                                                                                  | 4,092.13              | 4,051.01              | 4,043.25              | 14.85            | 14.67         | -90.63                 | 179.37                              | -1,442.09                           | 1,319.02               | 1,289.73                | 29.30                     | 45.023            |                    |           |
| 4,200.00                                                                                  | 4,191.89              | 4,151.01              | 4,143.00              | 15.22            | 15.04         | -90.63                 | 185.25                              | -1,445.85                           | 1,319.03               | 1,288.99                | 30.04                     | 43.916            |                    |           |
| 4,300.00                                                                                  | 4,291.64              | 4,251.01              | 4,242.76              | 15.60            | 15.41         | -90.63                 | 191.13                              | -1,449.61                           | 1,319.03               | 1,288.26                | 30.77                     | 42.863            |                    |           |
| 4,400.00                                                                                  | 4,391.40              | 4,351.01              | 4,342.51              | 15.97            | 15.79         | -90.63                 | 197.00                              | -1,453.38                           | 1,319.04               | 1,287.53                | 31.51                     | 41.859            |                    |           |
| 4,500.00                                                                                  | 4,491.16              | 4,451.01              | 4,442.27              | 16.34            | 16.16         | -90.63                 | 202.88                              | -1,457.14                           | 1,319.05               | 1,286.80                | 32.25                     | 40.901            |                    |           |
| 4,600.00                                                                                  | 4,590.91              | 4,551.01              | 4,542.03              | 16.72            | 16.53         | -90.63                 | 208.76                              | -1,460.91                           | 1,319.05               | 1,286.06                | 32.99                     | 39.986            |                    |           |
| 4,700.00                                                                                  | 4,690.67              | 4,651.01              | 4,641.78              | 17.09            | 16.91         | -90.63                 | 214.64                              | -1,464.67                           | 1,319.06               | 1,285.33                | 33.73                     | 39.110            |                    |           |
| 4,800.00                                                                                  | 4,790.43              | 4,751.01              | 4,741.54              | 17.46            | 17.28         | -90.63                 | 220.51                              | -1,468.44                           | 1,319.06               | 1,284.60                | 34.46                     | 38.273            |                    |           |
| 4,900.00                                                                                  | 4,890.18              | 4,851.01              | 4,841.29              | 17.83            | 17.65         | -90.63                 | 226.39                              | -1,472.20                           | 1,319.07               | 1,283.86                | 35.20                     | 37.470            |                    |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #211H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,000.00                                                                                  | 4,989.94              | 4,951.01              | 4,941.05              | 18.21            | 18.03         | -90.63                 | 232.27                              | -1,475.96    | 1,319.07               | 1,283.13                | 35.94                     | 36.700            |                    |           |
| 5,100.00                                                                                  | 5,089.70              | 5,051.01              | 5,040.81              | 18.58            | 18.40         | -90.62                 | 238.14                              | -1,479.73    | 1,319.08               | 1,282.40                | 36.68                     | 35.962            |                    |           |
| 5,200.00                                                                                  | 5,189.45              | 5,151.01              | 5,140.56              | 18.95            | 18.77         | -90.62                 | 244.02                              | -1,483.49    | 1,319.08               | 1,281.66                | 37.42                     | 35.252            |                    |           |
| 5,300.00                                                                                  | 5,289.21              | 5,251.01              | 5,240.32              | 19.33            | 19.14         | -90.62                 | 249.90                              | -1,487.26    | 1,319.09               | 1,280.93                | 38.16                     | 34.570            |                    |           |
| 5,400.00                                                                                  | 5,388.97              | 5,351.01              | 5,340.08              | 19.70            | 19.52         | -90.62                 | 255.78                              | -1,491.02    | 1,319.09               | 1,280.20                | 38.90                     | 33.914            |                    |           |
| 5,500.00                                                                                  | 5,488.72              | 5,451.01              | 5,439.83              | 20.07            | 19.89         | -90.62                 | 261.65                              | -1,494.79    | 1,319.10               | 1,279.46                | 39.63                     | 33.282            |                    |           |
| 5,600.00                                                                                  | 5,588.48              | 5,551.01              | 5,539.59              | 20.45            | 20.26         | -90.62                 | 267.53                              | -1,498.55    | 1,319.10               | 1,278.73                | 40.37                     | 32.673            |                    |           |
| 5,700.00                                                                                  | 5,688.24              | 5,651.01              | 5,639.34              | 20.82            | 20.64         | -90.62                 | 273.41                              | -1,502.31    | 1,319.11               | 1,278.00                | 41.11                     | 32.086            |                    |           |
| 5,800.00                                                                                  | 5,787.99              | 5,751.01              | 5,739.10              | 21.19            | 21.01         | -90.62                 | 279.29                              | -1,506.08    | 1,319.12               | 1,277.26                | 41.85                     | 31.520            |                    |           |
| 5,900.00                                                                                  | 5,887.75              | 5,851.01              | 5,838.86              | 21.57            | 21.38         | -90.62                 | 285.16                              | -1,509.84    | 1,319.12               | 1,276.53                | 42.59                     | 30.973            |                    |           |
| 5,910.95                                                                                  | 5,898.68              | 5,861.96              | 5,849.78              | 21.61            | 21.42         | -90.62                 | 285.81                              | -1,510.26    | 1,319.12               | 1,276.45                | 42.67                     | 30.915            |                    |           |
| 6,000.00                                                                                  | 5,987.57              | 5,961.19              | 5,948.80              | 21.93            | 21.79         | -90.57                 | 291.30                              | -1,513.77    | 1,319.50               | 1,276.14                | 43.36                     | 30.432            |                    |           |
| 6,100.00                                                                                  | 6,087.51              | 6,083.69              | 6,071.20              | 22.29            | 22.23         | -90.52                 | 295.35                              | -1,516.37    | 1,319.82               | 1,275.66                | 44.15                     | 29.892            |                    |           |
| 6,177.49                                                                                  | 6,165.00              | 6,178.63              | 6,166.13              | 22.56            | 22.57         | -90.51                 | 296.22                              | -1,516.92    | 1,319.85               | 1,275.10                | 44.75                     | 29.497            |                    |           |
| 6,179.15                                                                                  | 6,166.66              | 6,180.66              | 6,168.16              | 22.57            | 22.57         | -90.51                 | 296.21                              | -1,516.92    | 1,319.84               | 1,275.09                | 44.76                     | 29.488            |                    |           |
| 6,200.00                                                                                  | 6,187.51              | 6,200.01              | 6,187.51              | 22.64            | 22.64         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,274.95                | 44.90                     | 29.396            |                    |           |
| 6,300.00                                                                                  | 6,287.51              | 6,300.01              | 6,287.51              | 22.99            | 22.99         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,274.26                | 45.59                     | 28.949            |                    |           |
| 6,400.00                                                                                  | 6,387.51              | 6,400.01              | 6,387.51              | 23.33            | 23.33         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,273.56                | 46.29                     | 28.515            |                    |           |
| 6,500.00                                                                                  | 6,487.51              | 6,500.01              | 6,487.51              | 23.68            | 23.68         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,272.87                | 46.98                     | 28.093            |                    |           |
| 6,600.00                                                                                  | 6,587.51              | 6,600.01              | 6,587.51              | 24.02            | 24.02         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,272.17                | 47.68                     | 27.684            |                    |           |
| 6,700.00                                                                                  | 6,687.51              | 6,700.01              | 6,687.51              | 24.37            | 24.37         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,271.48                | 48.37                     | 27.285            |                    |           |
| 6,800.00                                                                                  | 6,787.51              | 6,800.01              | 6,787.51              | 24.72            | 24.72         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,270.78                | 49.07                     | 26.898            |                    |           |
| 6,900.00                                                                                  | 6,887.51              | 6,900.01              | 6,887.51              | 25.06            | 25.06         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,270.08                | 49.77                     | 26.521            |                    |           |
| 7,000.00                                                                                  | 6,987.51              | 7,000.01              | 6,987.51              | 25.41            | 25.41         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,269.38                | 50.46                     | 26.154            |                    |           |
| 7,100.00                                                                                  | 7,087.51              | 7,100.01              | 7,087.51              | 25.76            | 25.76         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,268.68                | 51.16                     | 25.797            |                    |           |
| 7,200.00                                                                                  | 7,187.51              | 7,200.01              | 7,187.51              | 26.11            | 26.11         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,267.99                | 51.86                     | 25.450            |                    |           |
| 7,300.00                                                                                  | 7,287.51              | 7,300.01              | 7,287.51              | 26.45            | 26.45         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,267.29                | 52.56                     | 25.111            |                    |           |
| 7,400.00                                                                                  | 7,387.51              | 7,400.01              | 7,387.51              | 26.80            | 26.80         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,266.59                | 53.26                     | 24.781            |                    |           |
| 7,500.00                                                                                  | 7,487.51              | 7,500.01              | 7,487.51              | 27.15            | 27.15         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,265.89                | 53.96                     | 24.459            |                    |           |
| 7,600.00                                                                                  | 7,587.51              | 7,600.01              | 7,587.51              | 27.50            | 27.50         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,265.19                | 54.66                     | 24.146            |                    |           |
| 7,700.00                                                                                  | 7,687.51              | 7,700.01              | 7,687.51              | 27.85            | 27.85         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,264.48                | 55.36                     | 23.840            |                    |           |
| 7,800.00                                                                                  | 7,787.51              | 7,800.01              | 7,787.51              | 28.20            | 28.20         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,263.78                | 56.06                     | 23.542            |                    |           |
| 7,900.00                                                                                  | 7,887.51              | 7,900.01              | 7,887.51              | 28.55            | 28.55         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,263.08                | 56.77                     | 23.251            |                    |           |
| 8,000.00                                                                                  | 7,987.51              | 8,000.01              | 7,987.51              | 28.90            | 28.90         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,262.38                | 57.47                     | 22.967            |                    |           |
| 8,100.00                                                                                  | 8,087.51              | 8,100.01              | 8,087.51              | 29.25            | 29.25         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,261.68                | 58.17                     | 22.689            |                    |           |
| 8,200.00                                                                                  | 8,187.51              | 8,200.01              | 8,187.51              | 29.60            | 29.60         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,260.97                | 58.87                     | 22.418            |                    |           |
| 8,300.00                                                                                  | 8,287.51              | 8,300.01              | 8,287.51              | 29.95            | 29.95         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,260.27                | 59.58                     | 22.154            |                    |           |
| 8,400.00                                                                                  | 8,387.51              | 8,400.01              | 8,387.51              | 30.30            | 30.30         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,259.57                | 60.28                     | 21.895            |                    |           |
| 8,500.00                                                                                  | 8,487.51              | 8,500.01              | 8,487.51              | 30.65            | 30.65         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,258.86                | 60.98                     | 21.642            |                    |           |
| 8,600.00                                                                                  | 8,587.51              | 8,600.01              | 8,587.51              | 31.00            | 31.00         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,258.16                | 61.69                     | 21.395            |                    |           |
| 8,700.00                                                                                  | 8,687.51              | 8,700.01              | 8,687.51              | 31.35            | 31.35         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,257.45                | 62.39                     | 21.154            |                    |           |
| 8,800.00                                                                                  | 8,787.51              | 8,800.01              | 8,787.51              | 31.70            | 31.70         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,256.75                | 63.10                     | 20.917            |                    |           |
| 8,900.00                                                                                  | 8,887.51              | 8,900.01              | 8,887.51              | 32.06            | 32.06         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,256.04                | 63.80                     | 20.686            |                    |           |
| 9,000.00                                                                                  | 8,987.51              | 9,000.01              | 8,987.51              | 32.41            | 32.41         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,255.34                | 64.51                     | 20.460            |                    |           |
| 9,100.00                                                                                  | 9,087.51              | 9,100.01              | 9,087.51              | 32.76            | 32.76         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,254.63                | 65.21                     | 20.239            |                    |           |
| 9,200.00                                                                                  | 9,187.51              | 9,200.01              | 9,187.51              | 33.11            | 33.11         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,253.93                | 65.92                     | 20.022            |                    |           |
| 9,300.00                                                                                  | 9,287.51              | 9,300.01              | 9,287.51              | 33.46            | 33.46         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,253.22                | 66.63                     | 19.810            |                    |           |
| 9,400.00                                                                                  | 9,387.51              | 9,400.01              | 9,387.51              | 33.82            | 33.82         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,252.51                | 67.33                     | 19.602            |                    |           |
| 9,500.00                                                                                  | 9,487.51              | 9,500.01              | 9,487.51              | 34.17            | 34.17         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,251.81                | 68.04                     | 19.398            |                    |           |
| 9,600.00                                                                                  | 9,587.51              | 9,600.01              | 9,587.51              | 34.52            | 34.52         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,251.10                | 68.75                     | 19.199            |                    |           |
| 9,700.00                                                                                  | 9,687.51              | 9,700.01              | 9,687.51              | 34.87            | 34.87         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,250.39                | 69.45                     | 19.004            |                    |           |
| 9,800.00                                                                                  | 9,787.51              | 9,800.01              | 9,787.51              | 35.23            | 35.23         | -90.51                 | 296.22                              | -1,516.93    | 1,319.85               | 1,249.69                | 70.16                     | 18.812            |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #211H - Wellbore #1 - Design #1 |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-MWD                                                                     |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                                                                 |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Offset Wellbore Centre |                | Distance                     |                               |                                 |                      | Warning                      |
| Measured<br>Depth<br>(usft)                                                               | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | +N-S<br>(usft)         | +E-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor |                              |
| 9,900.00                                                                                  | 9,887.51                    | 9,900.01                    | 9,887.51                    | 35.58               | 35.58            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,248.98                      | 70.87                           | 18.624               |                              |
| 10,000.00                                                                                 | 9,987.51                    | 10,000.01                   | 9,987.51                    | 35.93               | 35.93            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,248.27                      | 71.57                           | 18.440               |                              |
| 10,100.00                                                                                 | 10,087.51                   | 10,100.01                   | 10,087.51                   | 36.28               | 36.28            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,247.56                      | 72.28                           | 18.260               |                              |
| 10,200.00                                                                                 | 10,187.51                   | 10,200.01                   | 10,187.51                   | 36.64               | 36.64            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,246.86                      | 72.99                           | 18.082               |                              |
| 10,300.00                                                                                 | 10,287.51                   | 10,300.01                   | 10,287.51                   | 36.99               | 36.99            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,246.15                      | 73.70                           | 17.909               |                              |
| 10,400.00                                                                                 | 10,387.51                   | 10,400.01                   | 10,387.51                   | 37.34               | 37.34            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,245.44                      | 74.41                           | 17.738               |                              |
| 10,500.00                                                                                 | 10,487.51                   | 10,500.01                   | 10,487.51                   | 37.70               | 37.70            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,244.73                      | 75.12                           | 17.571               |                              |
| 10,600.00                                                                                 | 10,587.51                   | 10,600.01                   | 10,587.51                   | 38.05               | 38.05            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,244.02                      | 75.82                           | 17.407               |                              |
| 10,700.00                                                                                 | 10,687.51                   | 10,700.01                   | 10,687.51                   | 38.41               | 38.41            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,243.31                      | 76.53                           | 17.246               |                              |
| 10,800.00                                                                                 | 10,787.51                   | 10,800.01                   | 10,787.51                   | 38.76               | 38.76            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,242.61                      | 77.24                           | 17.087               |                              |
| 10,900.00                                                                                 | 10,887.51                   | 10,900.01                   | 10,887.51                   | 39.11               | 39.11            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,241.90                      | 77.95                           | 16.932               |                              |
| 11,000.00                                                                                 | 10,987.51                   | 11,000.01                   | 10,987.51                   | 39.47               | 39.47            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,241.19                      | 78.66                           | 16.779               |                              |
| 11,100.00                                                                                 | 11,087.51                   | 11,100.01                   | 11,087.51                   | 39.82               | 39.82            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,240.48                      | 79.37                           | 16.629               |                              |
| 11,200.00                                                                                 | 11,187.51                   | 11,200.01                   | 11,187.51                   | 40.18               | 40.18            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,239.77                      | 80.08                           | 16.482               |                              |
| 11,300.00                                                                                 | 11,287.51                   | 11,300.01                   | 11,287.51                   | 40.53               | 40.53            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,239.06                      | 80.79                           | 16.337               |                              |
| 11,400.00                                                                                 | 11,387.51                   | 11,400.01                   | 11,387.51                   | 40.88               | 40.88            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,238.35                      | 81.50                           | 16.195               |                              |
| 11,500.00                                                                                 | 11,487.51                   | 11,500.01                   | 11,487.51                   | 41.24               | 41.24            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,237.64                      | 82.21                           | 16.055               |                              |
| 11,600.00                                                                                 | 11,587.51                   | 11,600.01                   | 11,587.51                   | 41.59               | 41.59            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,236.93                      | 82.92                           | 15.918               |                              |
| 11,700.00                                                                                 | 11,687.51                   | 11,700.01                   | 11,687.51                   | 41.95               | 41.95            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,236.22                      | 83.63                           | 15.782               |                              |
| 11,800.00                                                                                 | 11,787.51                   | 11,800.01                   | 11,787.51                   | 42.30               | 42.30            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,235.51                      | 84.34                           | 15.650               |                              |
| 11,900.00                                                                                 | 11,887.51                   | 11,900.01                   | 11,887.51                   | 42.66               | 42.66            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,234.80                      | 85.05                           | 15.519               |                              |
| 11,907.73                                                                                 | 11,895.24                   | 11,907.75                   | 11,895.24                   | 42.68               | 42.68            | -90.51                       | 296.22                 | -1,516.93      | 1,319.85                     | 1,234.74                      | 85.10                           | 15.509               |                              |
| 11,950.00                                                                                 | 11,937.47                   | 11,949.96                   | 11,937.46                   | 42.82               | 42.83            | -90.44                       | 296.20                 | -1,516.92      | 1,319.84                     | 1,234.45                      | 85.39                           | 15.466               |                              |
| 11,978.31                                                                                 | 11,965.64                   | 11,978.20                   | 11,965.68                   | 42.91               | 42.92            | -90.36                       | 295.24                 | -1,516.92      | 1,319.84                     | 1,234.28                      | 85.56                           | 15.425               |                              |
| 12,000.00                                                                                 | 11,987.11                   | 11,999.89                   | 11,987.30                   | 42.97               | 42.99            | -90.30                       | 293.57                 | -1,516.91      | 1,319.84                     | 1,234.15                      | 85.70                           | 15.401               |                              |
| 12,050.00                                                                                 | 12,036.05                   | 12,050.11                   | 12,037.01                   | 43.12               | 43.14            | -90.17                       | 286.56                 | -1,516.86      | 1,319.85                     | 1,233.87                      | 85.98                           | 15.350               |                              |
| 12,100.00                                                                                 | 12,083.92                   | 12,100.61                   | 12,086.19                   | 43.25               | 43.28            | -90.04                       | 275.15                 | -1,516.78      | 1,319.86                     | 1,233.61                      | 86.26                           | 15.302               |                              |
| 12,150.00                                                                                 | 12,130.35                   | 12,151.40                   | 12,134.45                   | 43.37               | 43.41            | -89.92                       | 259.35                 | -1,516.67      | 1,319.88                     | 1,233.37                      | 86.51                           | 15.257               |                              |
| 12,200.00                                                                                 | 12,175.00                   | 12,202.48                   | 12,181.37                   | 43.49               | 43.53            | -89.82                       | 239.22                 | -1,516.54      | 1,319.91                     | 1,233.16                      | 86.75                           | 15.216               |                              |
| 12,250.00                                                                                 | 12,217.51                   | 12,253.84                   | 12,226.56                   | 43.59               | 43.65            | -89.74                       | 214.85                 | -1,516.37      | 1,319.94                     | 1,232.97                      | 86.97                           | 15.177               |                              |
| 12,300.00                                                                                 | 12,257.57                   | 12,305.48                   | 12,269.61                   | 43.68               | 43.75            | -89.67                       | 186.37                 | -1,516.17      | 1,319.97                     | 1,232.79                      | 87.18                           | 15.142               |                              |
| 12,350.00                                                                                 | 12,294.88                   | 12,357.38                   | 12,310.12                   | 43.76               | 43.84            | -89.64                       | 153.95                 | -1,515.95      | 1,320.01                     | 1,232.63                      | 87.37                           | 15.108               |                              |
| 12,400.00                                                                                 | 12,329.14                   | 12,409.54                   | 12,347.71                   | 43.83               | 43.92            | -89.63                       | 117.82                 | -1,515.71      | 1,320.04                     | 1,232.48                      | 87.56                           | 15.076               |                              |
| 12,450.00                                                                                 | 12,360.10                   | 12,461.93                   | 12,382.00                   | 43.90               | 43.99            | -89.64                       | 78.23                  | -1,515.44      | 1,320.08                     | 1,232.34                      | 87.74                           | 15.045               |                              |
| 12,500.00                                                                                 | 12,387.52                   | 12,514.55                   | 12,412.66                   | 43.96               | 44.06            | -89.68                       | 35.49                  | -1,515.14      | 1,320.11                     | 1,232.20                      | 87.92                           | 15.015               |                              |
| 12,550.00                                                                                 | 12,411.20                   | 12,567.36                   | 12,439.36                   | 44.03               | 44.13            | -89.75                       | -10.06                 | -1,514.83      | 1,320.15                     | 1,232.05                      | 88.09                           | 14.986               |                              |
| 12,600.00                                                                                 | 12,430.95                   | 12,620.36                   | 12,461.82                   | 44.11               | 44.21            | -89.84                       | -58.03                 | -1,514.51      | 1,320.17                     | 1,231.90                      | 88.27                           | 14.956               |                              |
| 12,650.00                                                                                 | 12,446.62                   | 12,673.50                   | 12,479.80                   | 44.20               | 44.30            | -89.95                       | -108.02                | -1,514.16      | 1,320.20                     | 1,231.74                      | 88.45                           | 14.925               |                              |
| 12,700.00                                                                                 | 12,458.10                   | 12,726.77                   | 12,493.09                   | 44.29               | 44.40            | -90.07                       | -159.58                | -1,513.81      | 1,320.21                     | 1,231.57                      | 88.64                           | 14.895               |                              |
| 12,707.73                                                                                 | 12,459.49                   | 12,735.01                   | 12,494.72                   | 44.31               | 44.41            | -90.09                       | -167.66                | -1,513.76      | 1,320.21                     | 1,231.55                      | 88.67                           | 14.890               |                              |
| 12,750.00                                                                                 | 12,465.91                   | 12,779.19                   | 12,501.86                   | 44.39               | 44.50            | -90.17                       | -211.26                | -1,513.46      | 1,320.21                     | 1,231.39                      | 88.83                           | 14.863               |                              |
| 12,800.00                                                                                 | 12,471.10                   | 12,831.18                   | 12,507.63                   | 44.50               | 44.61            | -90.26                       | -262.91                | -1,513.11      | 1,320.21                     | 1,231.18                      | 89.03                           | 14.828               |                              |
| 12,850.00                                                                                 | 12,473.69                   | 12,883.18                   | 12,510.58                   | 44.61               | 44.73            | -90.34                       | -314.83                | -1,512.75      | 1,320.21                     | 1,230.96                      | 89.25                           | 14.792               |                              |
| 12,874.40                                                                                 | 12,474.00                   | 12,908.56                   | 12,511.00                   | 44.67               | 44.78            | -90.39                       | -340.20                | -1,512.58      | 1,320.20                     | 1,230.84                      | 89.36                           | 14.774               |                              |
| 12,900.00                                                                                 | 12,474.00                   | 12,934.27                   | 12,511.00                   | 44.73               | 44.85            | -90.39                       | -365.91                | -1,512.40      | 1,320.20                     | 1,230.71                      | 89.49                           | 14.753               |                              |
| 13,000.00                                                                                 | 12,474.00                   | 13,034.27                   | 12,511.00                   | 45.01               | 45.13            | -90.39                       | -465.91                | -1,511.72      | 1,320.17                     | 1,230.13                      | 90.04                           | 14.662               |                              |
| 13,100.00                                                                                 | 12,474.00                   | 13,134.27                   | 12,511.00                   | 45.35               | 45.47            | -90.39                       | -565.91                | -1,511.04      | 1,320.15                     | 1,229.44                      | 90.70                           | 14.554               |                              |
| 13,200.00                                                                                 | 12,474.00                   | 13,234.27                   | 12,511.00                   | 45.75               | 45.87            | -90.39                       | -665.91                | -1,510.35      | 1,320.12                     | 1,228.64                      | 91.48                           | 14.430               |                              |
| 13,300.00                                                                                 | 12,474.00                   | 13,334.27                   | 12,511.00                   | 46.20               | 46.32            | -90.39                       | -765.90                | -1,509.67      | 1,320.10                     | 1,227.72                      | 92.38                           | 14.290               |                              |
| 13,400.00                                                                                 | 12,474.00                   | 13,434.27                   | 12,511.00                   | 46.71               | 46.82            | -90.39                       | -865.90                | -1,508.99      | 1,320.07                     | 1,226.69                      | 93.38                           | 14.137               |                              |
| 13,500.00                                                                                 | 12,474.00                   | 13,534.27                   | 12,511.00                   | 47.26               | 47.37            | -90.39                       | -965.90                | -1,508.31      | 1,320.05                     | 1,225.56                      | 94.48                           | 13.971               |                              |
| 13,600.00                                                                                 | 12,474.00                   | 13,634.27                   | 12,511.00                   | 47.87               | 47.98            | -90.39                       | -1,065.90              | -1,507.62      | 1,320.02                     | 1,224.33                      | 95.69                           | 13.795               |                              |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Charles Ling Fed Com - Charles Ling Fed Com #211H - Wellbore #1 - Design #1 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD                                                                     |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 13,700.00                                                                                 | 12,474.00             | 13,734.27             | 12,511.00             | 48.53            | 48.63         | -90.39                 | -1,165.89                           | -1,506.94    | 1,320.00               | 1,223.00                | 96.99                     | 13.609            |                              |
| 13,800.00                                                                                 | 12,474.00             | 13,834.27             | 12,511.00             | 49.23            | 49.33         | -90.39                 | -1,265.89                           | -1,506.26    | 1,319.97               | 1,221.58                | 98.39                     | 13.415            |                              |
| 13,900.00                                                                                 | 12,474.00             | 13,934.27             | 12,511.00             | 49.97            | 50.07         | -90.39                 | -1,365.89                           | -1,505.57    | 1,319.95               | 1,220.07                | 99.88                     | 13.215            |                              |
| 14,000.00                                                                                 | 12,474.00             | 14,034.27             | 12,511.00             | 50.76            | 50.86         | -90.39                 | -1,465.89                           | -1,504.89    | 1,319.92               | 1,218.47                | 101.45                    | 13.010            |                              |
| 14,100.00                                                                                 | 12,474.00             | 14,134.27             | 12,511.00             | 51.59            | 51.68         | -90.39                 | -1,565.88                           | -1,504.21    | 1,319.90               | 1,216.79                | 103.11                    | 12.801            |                              |
| 14,200.00                                                                                 | 12,474.00             | 14,234.27             | 12,511.00             | 52.46            | 52.55         | -90.39                 | -1,665.88                           | -1,503.52    | 1,319.87               | 1,215.03                | 104.84                    | 12.589            |                              |
| 14,300.00                                                                                 | 12,474.00             | 14,334.27             | 12,511.00             | 53.37            | 53.45         | -90.39                 | -1,765.88                           | -1,502.84    | 1,319.85               | 1,213.20                | 106.65                    | 12.375            |                              |
| 14,400.00                                                                                 | 12,474.00             | 14,434.27             | 12,511.00             | 54.31            | 54.39         | -90.39                 | -1,865.88                           | -1,502.16    | 1,319.82               | 1,211.29                | 108.53                    | 12.161            |                              |
| 14,500.00                                                                                 | 12,474.00             | 14,534.27             | 12,511.00             | 55.28            | 55.36         | -90.39                 | -1,965.88                           | -1,501.48    | 1,319.80               | 1,209.32                | 110.47                    | 11.947            |                              |
| 14,600.00                                                                                 | 12,474.00             | 14,634.27             | 12,511.00             | 56.29            | 56.36         | -90.39                 | -2,065.87                           | -1,500.79    | 1,319.77               | 1,207.29                | 112.48                    | 11.733            |                              |
| 14,700.00                                                                                 | 12,474.00             | 14,734.27             | 12,511.00             | 57.32            | 57.40         | -90.39                 | -2,165.87                           | -1,500.11    | 1,319.75               | 1,205.19                | 114.55                    | 11.521            |                              |
| 14,800.00                                                                                 | 12,474.00             | 14,834.27             | 12,511.00             | 58.39            | 58.46         | -90.39                 | -2,265.87                           | -1,499.43    | 1,319.72               | 1,203.04                | 116.68                    | 11.311            |                              |
| 14,900.00                                                                                 | 12,474.00             | 14,934.27             | 12,511.00             | 59.48            | 59.55         | -90.39                 | -2,365.87                           | -1,498.74    | 1,319.70               | 1,200.84                | 118.86                    | 11.103            |                              |
| 15,000.00                                                                                 | 12,474.00             | 15,034.27             | 12,511.00             | 60.60            | 60.66         | -90.39                 | -2,465.86                           | -1,498.06    | 1,319.67               | 1,198.58                | 121.09                    | 10.899            |                              |
| 15,100.00                                                                                 | 12,474.00             | 15,134.27             | 12,511.00             | 61.74            | 61.80         | -90.39                 | -2,565.86                           | -1,497.38    | 1,319.65               | 1,196.28                | 123.36                    | 10.697            |                              |
| 15,200.00                                                                                 | 12,474.00             | 15,234.27             | 12,511.00             | 62.90            | 62.96         | -90.39                 | -2,665.86                           | -1,496.69    | 1,319.62               | 1,193.93                | 125.69                    | 10.499            |                              |
| 15,300.00                                                                                 | 12,474.00             | 15,334.27             | 12,511.00             | 64.08            | 64.14         | -90.39                 | -2,765.86                           | -1,496.01    | 1,319.59               | 1,191.54                | 128.05                    | 10.305            |                              |
| 15,400.00                                                                                 | 12,474.00             | 15,434.27             | 12,511.00             | 65.29            | 65.34         | -90.39                 | -2,865.85                           | -1,495.33    | 1,319.57               | 1,189.11                | 130.46                    | 10.115            |                              |
| 15,500.00                                                                                 | 12,474.00             | 15,534.27             | 12,511.00             | 66.51            | 66.57         | -90.39                 | -2,965.85                           | -1,494.65    | 1,319.54               | 1,186.64                | 132.91                    | 9.928             |                              |
| 15,600.00                                                                                 | 12,474.00             | 15,634.27             | 12,511.00             | 67.75            | 67.81         | -90.39                 | -3,065.85                           | -1,493.96    | 1,319.52               | 1,184.13                | 135.39                    | 9.746             |                              |
| 15,700.00                                                                                 | 12,474.00             | 15,734.27             | 12,511.00             | 69.01            | 69.06         | -90.39                 | -3,165.85                           | -1,493.28    | 1,319.49               | 1,181.59                | 137.91                    | 9.568             |                              |
| 15,800.00                                                                                 | 12,474.00             | 15,834.27             | 12,511.00             | 70.29            | 70.34         | -90.39                 | -3,265.85                           | -1,492.60    | 1,319.47               | 1,179.01                | 140.46                    | 9.394             |                              |
| 15,900.00                                                                                 | 12,474.00             | 15,934.27             | 12,511.00             | 71.58            | 71.63         | -90.39                 | -3,365.84                           | -1,491.91    | 1,319.44               | 1,176.41                | 143.04                    | 9.224             |                              |
| 16,000.00                                                                                 | 12,474.00             | 16,034.27             | 12,511.00             | 72.89            | 72.93         | -90.39                 | -3,465.84                           | -1,491.23    | 1,319.42               | 1,173.77                | 145.65                    | 9.059             |                              |
| 16,100.00                                                                                 | 12,474.00             | 16,134.27             | 12,511.00             | 74.20            | 74.25         | -90.39                 | -3,565.84                           | -1,490.55    | 1,319.39               | 1,171.11                | 148.29                    | 8.898             |                              |
| 16,200.00                                                                                 | 12,474.00             | 16,234.27             | 12,511.00             | 75.54            | 75.58         | -90.39                 | -3,665.84                           | -1,489.87    | 1,319.37               | 1,168.42                | 150.95                    | 8.741             |                              |
| 16,300.00                                                                                 | 12,474.00             | 16,334.27             | 12,511.00             | 76.88            | 76.92         | -90.39                 | -3,765.83                           | -1,489.18    | 1,319.34               | 1,165.71                | 153.64                    | 8.587             |                              |
| 16,400.00                                                                                 | 12,474.00             | 16,434.27             | 12,511.00             | 78.24            | 78.28         | -90.39                 | -3,865.83                           | -1,488.50    | 1,319.32               | 1,162.97                | 156.35                    | 8.438             |                              |
| 16,500.00                                                                                 | 12,474.00             | 16,534.27             | 12,511.00             | 79.61            | 79.64         | -90.39                 | -3,965.83                           | -1,487.82    | 1,319.29               | 1,160.21                | 159.08                    | 8.293             |                              |
| 16,600.00                                                                                 | 12,474.00             | 16,634.27             | 12,511.00             | 80.99            | 81.02         | -90.39                 | -4,065.83                           | -1,487.13    | 1,319.27               | 1,157.43                | 161.84                    | 8.152             |                              |
| 16,700.00                                                                                 | 12,474.00             | 16,734.27             | 12,511.00             | 82.37            | 82.41         | -90.39                 | -4,165.82                           | -1,486.45    | 1,319.24               | 1,154.63                | 164.62                    | 8.014             |                              |
| 16,800.00                                                                                 | 12,474.00             | 16,834.27             | 12,511.00             | 83.77            | 83.80         | -90.39                 | -4,265.82                           | -1,485.77    | 1,319.22               | 1,151.81                | 167.41                    | 7.880             |                              |
| 16,900.00                                                                                 | 12,474.00             | 16,934.27             | 12,511.00             | 85.18            | 85.21         | -90.39                 | -4,365.82                           | -1,485.08    | 1,319.19               | 1,148.97                | 170.22                    | 7.750             |                              |
| 17,000.00                                                                                 | 12,474.00             | 17,034.27             | 12,511.00             | 86.59            | 86.62         | -90.39                 | -4,465.82                           | -1,484.40    | 1,319.17               | 1,146.11                | 173.05                    | 7.623             |                              |
| 17,100.00                                                                                 | 12,474.00             | 17,134.27             | 12,511.00             | 88.02            | 88.05         | -90.39                 | -4,565.81                           | -1,483.72    | 1,319.14               | 1,143.24                | 175.90                    | 7.499             |                              |
| 17,200.00                                                                                 | 12,474.00             | 17,234.27             | 12,511.00             | 89.45            | 89.48         | -90.39                 | -4,665.81                           | -1,483.04    | 1,319.12               | 1,140.36                | 178.76                    | 7.379             |                              |
| 17,226.60                                                                                 | 12,474.00             | 17,260.88             | 12,511.00             | 89.83            | 89.86         | -90.39                 | -4,692.41                           | -1,482.85    | 1,319.11               | 1,139.59                | 179.53                    | 7.348             |                              |
| 17,226.97                                                                                 | 12,474.00             | 17,260.91             | 12,511.00             | 89.84            | 89.86         | -90.38                 | -4,692.45                           | -1,482.85    | 1,319.11               | 1,139.58                | 179.53                    | 7.347             |                              |
| 17,227.36                                                                                 | 12,474.00             | 17,260.91             | 12,511.00             | 89.85            | 89.86         | -90.36                 | -4,692.45                           | -1,482.85    | 1,319.11               | 1,139.57                | 179.54                    | 7.347 ES, SF      |                              |

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



# MS Directional Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #1H - Wellbore #1 - Surveys |                             |                             |                             |                     |                  |                              |                                           |                 |                                 |                      |           | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|-------------------------------------------|-----------------|---------------------------------|----------------------|-----------|--------------------|-----------|
| Survey Program: 100-GYRO-NS, 10598-MWD                                                  |                             |                             |                             |                     |                  |                              |                                           |                 |                                 |                      |           | Offset Well Error: | 0.00 usft |
| Reference                                                                               |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Distance                                  |                 | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning   |                    |           |
| Measured<br>Depth<br>(usft)                                                             | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                                 |                      |           |                    |           |
| 0.00                                                                                    | 0.00                        | 0.00                        | 0.00                        | 0.00                | 0.00             | -165.82                      | -4,600.05                                 | -1,162.01       | 4,744.59                        |                      |           |                    |           |
| 100.00                                                                                  | 100.00                      | 84.38                       | 84.38                       | 0.13                | 0.12             | -165.82                      | -4,600.05                                 | -1,161.94       | 4,744.53                        | 0.25                 | N/A       |                    |           |
| 200.00                                                                                  | 200.00                      | 186.86                      | 186.86                      | 0.49                | 0.45             | -165.83                      | -4,600.07                                 | -1,161.48       | 4,744.44                        | 0.93                 | 5,078.666 |                    |           |
| 300.00                                                                                  | 300.00                      | 287.23                      | 287.23                      | 0.85                | 0.80             | -165.84                      | -4,600.11                                 | -1,160.83       | 4,744.32                        | 1.64                 | 2,886.542 |                    |           |
| 362.03                                                                                  | 362.03                      | 343.53                      | 343.53                      | 1.07                | 1.00             | -165.84                      | -4,600.12                                 | -1,160.60       | 4,744.27                        | 2.06                 | 2,300.229 |                    |           |
| 400.00                                                                                  | 400.00                      | 377.08                      | 377.08                      | 1.20                | 1.12             | -165.84                      | -4,600.19                                 | -1,160.41       | 4,744.29                        | 2.32                 | 2,048.701 |                    |           |
| 500.00                                                                                  | 500.00                      | 480.52                      | 480.51                      | 1.56                | 1.48             | -165.85                      | -4,600.45                                 | -1,159.77       | 4,744.39                        | 3.04                 | 1,563.017 |                    |           |
| 600.00                                                                                  | 600.00                      | 577.13                      | 577.13                      | 1.92                | 1.82             | -165.86                      | -4,600.61                                 | -1,159.27       | 4,744.42                        | 3.73                 | 1,271.595 |                    |           |
| 700.00                                                                                  | 699.99                      | 681.42                      | 681.41                      | 2.28                | 2.18             | -165.87                      | -4,600.84                                 | -1,158.68       | 4,745.09                        | 4.45                 | 1,065.730 |                    |           |
| 800.00                                                                                  | 799.96                      | 777.58                      | 777.56                      | 2.64                | 2.52             | -165.90                      | -4,601.02                                 | -1,158.04       | 4,746.91                        | 5.15                 | 922.581   |                    |           |
| 900.00                                                                                  | 899.86                      | 902.91                      | 902.89                      | 2.99                | 2.96             | -165.95                      | -4,600.99                                 | -1,157.51       | 4,749.80                        | 5.94                 | 799.503   |                    |           |
| 999.81                                                                                  | 999.49                      | 1,003.15                    | 1,003.14                    | 3.35                | 3.31             | -166.00                      | -4,600.63                                 | -1,157.12       | 4,753.53                        | 6.65                 | 714.749   |                    |           |
| 1,000.00                                                                                | 999.68                      | 1,003.40                    | 1,003.39                    | 3.35                | 3.31             | -166.00                      | -4,600.63                                 | -1,157.12       | 4,753.54                        | 6.65                 | 714.583   |                    |           |
| 1,100.00                                                                                | 1,099.43                    | 1,122.84                    | 1,122.82                    | 3.72                | 3.73             | -166.07                      | -4,599.78                                 | -1,156.86       | 4,757.58                        | 7.43                 | 640.230   |                    |           |
| 1,200.00                                                                                | 1,199.19                    | 1,211.69                    | 1,211.67                    | 4.08                | 4.04             | -166.12                      | -4,599.05                                 | -1,157.00       | 4,761.62                        | 8.10                 | 587.532   |                    |           |
| 1,300.00                                                                                | 1,298.95                    | 1,305.28                    | 1,305.26                    | 4.45                | 4.36             | -166.18                      | -4,598.41                                 | -1,157.38       | 4,765.85                        | 8.80                 | 541.867   |                    |           |
| 1,400.00                                                                                | 1,398.70                    | 1,431.26                    | 1,431.23                    | 4.82                | 4.80             | -166.23                      | -4,597.15                                 | -1,158.06       | 4,769.80                        | 9.60                 | 496.846   |                    |           |
| 1,500.00                                                                                | 1,498.46                    | 1,530.80                    | 1,530.75                    | 5.18                | 5.15             | -166.27                      | -4,595.81                                 | -1,158.88       | 4,773.50                        | 10.31                | 462.841   |                    |           |
| 1,600.00                                                                                | 1,598.22                    | 1,625.29                    | 1,625.24                    | 5.55                | 5.48             | -166.33                      | -4,594.74                                 | -1,159.46       | 4,777.37                        | 11.01                | 433.930   |                    |           |
| 1,700.00                                                                                | 1,697.97                    | 1,754.30                    | 1,754.23                    | 5.92                | 5.93             | -166.37                      | -4,592.86                                 | -1,160.57       | 4,780.98                        | 11.83                | 404.246   |                    |           |
| 1,800.00                                                                                | 1,797.73                    | 1,851.85                    | 1,851.76                    | 6.29                | 6.27             | -166.41                      | -4,590.96                                 | -1,161.40       | 4,784.12                        | 12.53                | 381.671   |                    |           |
| 1,900.00                                                                                | 1,897.48                    | 1,950.94                    | 1,950.83                    | 6.66                | 6.62             | -166.46                      | -4,589.35                                 | -1,162.33       | 4,787.59                        | 13.25                | 361.380   |                    |           |
| 2,000.00                                                                                | 1,997.24                    | 2,059.33                    | 2,059.18                    | 7.03                | 7.00             | -166.50                      | -4,587.15                                 | -1,163.65       | 4,790.73                        | 13.99                | 342.332   |                    |           |
| 2,100.00                                                                                | 2,097.00                    | 2,191.30                    | 2,191.13                    | 7.41                | 7.46             | -166.53                      | -4,584.30                                 | -1,164.90       | 4,793.73                        | 14.82                | 323.391   |                    |           |
| 2,200.00                                                                                | 2,196.75                    | 2,280.93                    | 2,280.72                    | 7.78                | 7.77             | -166.57                      | -4,581.92                                 | -1,166.04       | 4,796.29                        | 15.50                | 309.344   |                    |           |
| 2,300.00                                                                                | 2,296.51                    | 2,359.41                    | 2,359.16                    | 8.15                | 8.05             | -166.62                      | -4,580.09                                 | -1,167.19       | 4,799.21                        | 16.15                | 297.222   |                    |           |
| 2,400.00                                                                                | 2,396.27                    | 2,489.41                    | 2,489.12                    | 8.52                | 8.50             | -166.65                      | -4,577.33                                 | -1,168.80       | 4,802.34                        | 16.97                | 282.998   |                    |           |
| 2,500.00                                                                                | 2,496.02                    | 2,582.78                    | 2,582.45                    | 8.89                | 8.83             | -166.69                      | -4,574.79                                 | -1,170.14       | 4,804.89                        | 17.66                | 272.011   |                    |           |
| 2,600.00                                                                                | 2,595.78                    | 2,667.15                    | 2,666.78                    | 9.26                | 9.13             | -166.72                      | -4,572.70                                 | -1,171.56       | 4,807.71                        | 18.33                | 262.322   |                    |           |
| 2,700.00                                                                                | 2,695.54                    | 2,769.39                    | 2,768.98                    | 9.64                | 9.49             | -166.76                      | -4,570.40                                 | -1,173.24       | 4,810.76                        | 19.05                | 252.490   |                    |           |
| 2,800.00                                                                                | 2,795.29                    | 2,879.77                    | 2,879.32                    | 10.01               | 9.87             | -166.80                      | -4,567.81                                 | -1,174.46       | 4,813.59                        | 19.81                | 243.019   |                    |           |
| 2,900.00                                                                                | 2,895.05                    | 2,964.69                    | 2,964.21                    | 10.38               | 10.17            | -166.84                      | -4,565.86                                 | -1,175.24       | 4,816.43                        | 20.47                | 235.266   |                    |           |
| 3,000.00                                                                                | 2,994.81                    | 3,070.62                    | 3,070.11                    | 10.75               | 10.54            | -166.88                      | -4,563.60                                 | -1,176.68       | 4,819.54                        | 21.21                | 227.220   |                    |           |
| 3,100.00                                                                                | 3,094.56                    | 3,180.14                    | 3,179.60                    | 11.12               | 10.92            | -166.92                      | -4,561.04                                 | -1,177.59       | 4,822.32                        | 21.96                | 219.574   |                    |           |
| 3,200.00                                                                                | 3,194.32                    | 3,289.99                    | 3,289.41                    | 11.50               | 11.31            | -166.97                      | -4,558.46                                 | -1,177.82       | 4,824.96                        | 22.71                | 212.417   |                    |           |
| 3,300.00                                                                                | 3,294.08                    | 3,388.56                    | 3,387.96                    | 11.87               | 11.65            | -167.02                      | -4,556.06                                 | -1,177.93       | 4,827.49                        | 23.43                | 206.061   |                    |           |
| 3,400.00                                                                                | 3,393.83                    | 3,458.03                    | 3,457.42                    | 12.24               | 11.90            | -167.08                      | -4,554.58                                 | -1,177.97       | 4,830.32                        | 24.04                | 200.947   |                    |           |
| 3,500.00                                                                                | 3,493.59                    | 3,536.17                    | 3,535.55                    | 12.61               | 12.17            | -167.13                      | -4,553.47                                 | -1,178.03       | 4,833.82                        | 24.68                | 195.875   |                    |           |
| 3,600.00                                                                                | 3,593.35                    | 3,675.06                    | 3,674.42                    | 12.99               | 12.66            | -167.19                      | -4,551.40                                 | -1,177.92       | 4,837.31                        | 25.53                | 189.449   |                    |           |
| 3,700.00                                                                                | 3,693.10                    | 3,768.29                    | 3,767.63                    | 13.36               | 12.98            | -167.24                      | -4,549.42                                 | -1,177.60       | 4,840.08                        | 26.23                | 184.541   |                    |           |
| 3,800.00                                                                                | 3,792.86                    | 3,870.01                    | 3,869.33                    | 13.73               | 13.34            | -167.30                      | -4,547.60                                 | -1,177.18       | 4,843.14                        | 26.95                | 179.698   |                    |           |
| 3,900.00                                                                                | 3,892.62                    | 3,947.68                    | 3,946.98                    | 14.11               | 13.61            | -167.36                      | -4,546.10                                 | -1,177.20       | 4,846.21                        | 27.59                | 175.649   |                    |           |
| 4,000.00                                                                                | 3,992.37                    | 4,019.93                    | 4,019.23                    | 14.48               | 13.86            | -167.41                      | -4,545.22                                 | -1,177.43       | 4,849.98                        | 28.21                | 171.930   |                    |           |
| 4,100.00                                                                                | 4,092.13                    | 4,120.21                    | 4,119.50                    | 14.85               | 14.21            | -167.46                      | -4,544.09                                 | -1,177.80       | 4,853.88                        | 28.93                | 167.794   |                    |           |
| 4,200.00                                                                                | 4,191.89                    | 4,200.00                    | 4,199.29                    | 15.22               | 14.49            | -167.52                      | -4,543.55                                 | -1,177.88       | 4,858.13                        | 29.57                | 164.279   |                    |           |
| 4,300.00                                                                                | 4,291.64                    | 4,302.42                    | 4,301.71                    | 15.60               | 14.85            | -167.58                      | -4,543.09                                 | -1,177.72       | 4,862.59                        | 30.30                | 160.488   |                    |           |
| 4,400.00                                                                                | 4,391.40                    | 4,396.53                    | 4,395.81                    | 15.97               | 15.18            | -167.63                      | -4,542.63                                 | -1,177.53       | 4,867.00                        | 31.00                | 157.024   |                    |           |
| 4,500.00                                                                                | 4,491.16                    | 4,521.13                    | 4,520.40                    | 16.34               | 15.62            | -167.70                      | -4,541.79                                 | -1,176.41       | 4,871.05                        | 31.80                | 153.172   |                    |           |
| 4,600.00                                                                                | 4,590.91                    | 4,600.00                    | 4,599.26                    | 16.72               | 15.89            | -167.78                      | -4,541.61                                 | -1,174.87       | 4,875.33                        | 32.44                | 150.279   |                    |           |
| 4,700.00                                                                                | 4,690.67                    | 4,678.15                    | 4,677.39                    | 17.09               | 16.17            | -167.86                      | -4,541.82                                 | -1,173.10       | 4,880.04                        | 33.08                | 147.528   |                    |           |
| 4,800.00                                                                                | 4,790.43                    | 4,751.74                    | 4,750.96                    | 17.46               | 16.42            | -167.94                      | -4,542.26                                 | -1,171.42       | 4,885.11                        | 33.70                | 144.967   |                    |           |
| 4,900.00                                                                                | 4,890.18                    | 4,828.55                    | 4,827.74                    | 17.83               | 16.69            | -168.02                      | -4,543.27                                 | -1,169.40       | 4,890.80                        | 34.33                | 142.471   |                    |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #1H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |         | Offset Site Error: 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------|---------|------------------------------|
| Survey Program: 100-GYRO-NS, 10598-MWD                                                  |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |         | Offset Well Error: 0.00 usft |
| Reference                                                                               |                       | Offset                |                       | Semi Major Axis  |               | Distance               |                                     | Minimum Separation                  |                        | Separation Factor       |                           | Warning |                              |
| Measured Depth (usft)                                                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) |         |                              |
| 5,000.00                                                                                | 4,989.94              | 4,922.23              | 4,921.35              | 18.21            | 17.02         | -168.12                | -4,544.89                           | -1,166.04                           | 4,896.70               | 4,861.68                | 35.02                     | 139.823 |                              |
| 5,100.00                                                                                | 5,089.70              | 5,010.88              | 5,009.91              | 18.58            | 17.33         | -168.22                | -4,546.68                           | -1,162.46                           | 4,902.83               | 4,867.14                | 35.69                     | 137.355 |                              |
| 5,200.00                                                                                | 5,189.45              | 5,118.39              | 5,117.31              | 18.95            | 17.70         | -168.33                | -4,548.83                           | -1,158.40                           | 4,909.00               | 4,872.56                | 36.44                     | 134.720 |                              |
| 5,300.00                                                                                | 5,289.21              | 5,236.89              | 5,235.72              | 19.33            | 18.12         | -168.44                | -4,550.77                           | -1,154.29                           | 4,914.90               | 4,877.68                | 37.22                     | 132.040 |                              |
| 5,400.00                                                                                | 5,388.97              | 5,350.00              | 5,348.78              | 19.70            | 18.51         | -168.53                | -4,552.04                           | -1,151.09                           | 4,920.44               | 4,882.45                | 37.99                     | 129.531 |                              |
| 5,500.00                                                                                | 5,488.72              | 5,444.32              | 5,443.07              | 20.07            | 18.84         | -168.62                | -4,552.92                           | -1,148.85                           | 4,925.90               | 4,887.22                | 38.68                     | 127.347 |                              |
| 5,600.00                                                                                | 5,588.48              | 5,539.28              | 5,538.01              | 20.45            | 19.17         | -168.69                | -4,553.90                           | -1,147.20                           | 4,931.58               | 4,892.20                | 39.38                     | 125.239 |                              |
| 5,700.00                                                                                | 5,688.24              | 5,633.89              | 5,632.60              | 20.82            | 19.50         | -168.77                | -4,554.85                           | -1,145.29                           | 4,937.20               | 4,897.13                | 40.07                     | 123.208 |                              |
| 5,800.00                                                                                | 5,787.99              | 5,710.71              | 5,709.39              | 21.19            | 19.77         | -168.85                | -4,555.99                           | -1,143.63                           | 4,943.25               | 4,902.55                | 40.70                     | 121.454 |                              |
| 5,900.00                                                                                | 5,887.75              | 5,824.82              | 5,823.48              | 21.57            | 20.17         | -168.93                | -4,557.52                           | -1,142.05                           | 4,949.33               | 4,907.86                | 41.47                     | 119.354 |                              |
| 5,910.95                                                                                | 5,898.68              | 5,836.03              | 5,834.69              | 21.61            | 20.21         | -168.94                | -4,557.64                           | -1,141.95                           | 4,949.98               | 4,908.43                | 41.55                     | 119.142 |                              |
| 6,000.00                                                                                | 5,987.57              | 5,921.57              | 5,920.23              | 21.93            | 20.51         | -168.99                | -4,558.59                           | -1,141.15                           | 4,954.53               | 4,912.37                | 42.17                     | 117.497 |                              |
| 6,100.00                                                                                | 6,087.51              | 6,005.75              | 6,004.38              | 22.29            | 20.80         | -169.03                | -4,559.83                           | -1,139.97                           | 4,958.12               | 4,915.31                | 42.81                     | 115.806 |                              |
| 6,177.49                                                                                | 6,165.00              | 6,117.13              | 6,115.74              | 22.56            | 21.19         | -169.06                | -4,561.16                           | -1,138.10                           | 4,959.32               | 4,915.84                | 43.48                     | 114.052 |                              |
| 6,200.00                                                                                | 6,187.51              | 6,134.43              | 6,133.04              | 22.64            | 21.25         | -169.07                | -4,561.34                           | -1,137.81                           | 4,959.47               | 4,915.85                | 43.62                     | 113.696 |                              |
| 6,300.00                                                                                | 6,287.51              | 6,212.88              | 6,211.47              | 22.99            | 21.52         | -169.08                | -4,562.38                           | -1,136.42                           | 4,960.43               | 4,916.19                | 44.24                     | 112.133 |                              |
| 6,400.00                                                                                | 6,387.51              | 15,477.00             | 11,068.31             | 23.33            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,874.79               | 4,817.72                | 57.07                     | 85.417  |                              |
| 6,500.00                                                                                | 6,487.51              | 15,477.00             | 11,068.31             | 23.68            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,778.46               | 4,720.95                | 57.51                     | 83.090  |                              |
| 6,600.00                                                                                | 6,587.51              | 15,477.00             | 11,068.31             | 24.02            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,682.29               | 4,624.32                | 57.96                     | 80.778  |                              |
| 6,700.00                                                                                | 6,687.51              | 15,477.00             | 11,068.31             | 24.37            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,586.28               | 4,527.84                | 58.44                     | 78.482  |                              |
| 6,800.00                                                                                | 6,787.51              | 15,477.00             | 11,068.31             | 24.72            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,490.45               | 4,431.52                | 58.93                     | 76.203  |                              |
| 6,900.00                                                                                | 6,887.51              | 15,477.00             | 11,068.31             | 25.06            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,394.80               | 4,335.36                | 59.44                     | 73.941  |                              |
| 7,000.00                                                                                | 6,987.51              | 15,477.00             | 11,068.31             | 25.41            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,299.35               | 4,239.38                | 59.97                     | 71.696  |                              |
| 7,100.00                                                                                | 7,087.51              | 15,477.00             | 11,068.31             | 25.76            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,204.11               | 4,143.59                | 60.52                     | 69.469  |                              |
| 7,200.00                                                                                | 7,187.51              | 15,477.00             | 11,068.31             | 26.11            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,109.10               | 4,048.00                | 61.09                     | 67.260  |                              |
| 7,300.00                                                                                | 7,287.51              | 15,477.00             | 11,068.31             | 26.45            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 4,014.33               | 3,952.63                | 61.69                     | 65.070  |                              |
| 7,400.00                                                                                | 7,387.51              | 15,477.00             | 11,068.31             | 26.80            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,919.82               | 3,857.50                | 62.32                     | 62.900  |                              |
| 7,500.00                                                                                | 7,487.51              | 15,477.00             | 11,068.31             | 27.15            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,825.58               | 3,762.61                | 62.97                     | 60.749  |                              |
| 7,600.00                                                                                | 7,587.51              | 15,477.00             | 11,068.31             | 27.50            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,731.65               | 3,667.99                | 63.66                     | 58.619  |                              |
| 7,700.00                                                                                | 7,687.51              | 15,477.00             | 11,068.31             | 27.85            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,638.05               | 3,573.67                | 64.38                     | 56.511  |                              |
| 7,800.00                                                                                | 7,787.51              | 15,477.00             | 11,068.31             | 28.20            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,544.79               | 3,479.66                | 65.13                     | 54.424  |                              |
| 7,900.00                                                                                | 7,887.51              | 15,477.00             | 11,068.31             | 28.55            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,451.91               | 3,385.98                | 65.93                     | 52.361  |                              |
| 8,000.00                                                                                | 7,987.51              | 15,477.00             | 11,068.31             | 28.90            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,359.43               | 3,292.67                | 66.76                     | 50.321  |                              |
| 8,100.00                                                                                | 8,087.51              | 15,477.00             | 11,068.31             | 29.25            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,267.41               | 3,199.77                | 67.64                     | 48.307  |                              |
| 8,200.00                                                                                | 8,187.51              | 15,477.00             | 11,068.31             | 29.60            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,175.86               | 3,107.29                | 68.57                     | 46.318  |                              |
| 8,300.00                                                                                | 8,287.51              | 15,477.00             | 11,068.31             | 29.95            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 3,084.84               | 3,015.29                | 69.55                     | 44.356  |                              |
| 8,400.00                                                                                | 8,387.51              | 15,477.00             | 11,068.31             | 30.30            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,994.39               | 2,923.80                | 70.58                     | 42.423  |                              |
| 8,500.00                                                                                | 8,487.51              | 15,477.00             | 11,068.31             | 30.65            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,904.57               | 2,832.88                | 71.68                     | 40.520  |                              |
| 8,600.00                                                                                | 8,587.51              | 15,477.00             | 11,068.31             | 31.00            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,815.43               | 2,742.58                | 72.85                     | 38.648  |                              |
| 8,700.00                                                                                | 8,687.51              | 15,477.00             | 11,068.31             | 31.35            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,727.05               | 2,652.96                | 74.09                     | 36.809  |                              |
| 8,800.00                                                                                | 8,787.51              | 15,477.00             | 11,068.31             | 31.70            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,639.49               | 2,564.09                | 75.40                     | 35.005  |                              |
| 8,900.00                                                                                | 8,887.51              | 15,477.00             | 11,068.31             | 32.06            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,552.85               | 2,476.05                | 76.80                     | 33.239  |                              |
| 9,000.00                                                                                | 8,987.51              | 15,477.00             | 11,068.31             | 32.41            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,467.23               | 2,388.93                | 78.29                     | 31.512  |                              |
| 9,100.00                                                                                | 9,087.51              | 15,477.00             | 11,068.31             | 32.76            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,382.72               | 2,302.83                | 79.88                     | 29.827  |                              |
| 9,200.00                                                                                | 9,187.51              | 15,477.00             | 11,068.31             | 33.11            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,299.45               | 2,217.87                | 81.58                     | 28.187  |                              |
| 9,300.00                                                                                | 9,287.51              | 15,477.00             | 11,068.31             | 33.46            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,217.57               | 2,134.19                | 83.39                     | 26.594  |                              |
| 9,400.00                                                                                | 9,387.51              | 15,477.00             | 11,068.31             | 33.82            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,137.23               | 2,051.92                | 85.31                     | 25.052  |                              |
| 9,500.00                                                                                | 9,487.51              | 15,477.00             | 11,068.31             | 34.17            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 2,058.62               | 1,971.26                | 87.36                     | 23.565  |                              |
| 9,600.00                                                                                | 9,587.51              | 15,477.00             | 11,068.31             | 34.52            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 1,981.93               | 1,892.39                | 89.54                     | 22.135  |                              |
| 9,700.00                                                                                | 9,687.51              | 15,477.00             | 11,068.31             | 34.87            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 1,907.40               | 1,815.56                | 91.85                     | 20.767  |                              |
| 9,800.00                                                                                | 9,787.51              | 15,477.00             | 11,068.31             | 35.23            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 1,835.30               | 1,741.01                | 94.29                     | 19.465  |                              |
| 9,900.00                                                                                | 9,887.51              | 15,477.00             | 11,068.31             | 35.58            | 85.41         | -104.20                | -9.90                               | -1,453.76                           | 1,765.92               | 1,669.07                | 96.85                     | 18.233  |                              |

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



# MS Directional Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #1H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 100-GYRO-NS, 10598-MWD                                                  |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                      |
| 10,000.00                                                                               | 9,987.51              | 15,477.00             | 11,068.31             | 35.93            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,699.59               | 1,600.06                | 99.53                     | 17.076            |                              |
| 10,100.00                                                                               | 10,087.51             | 15,477.00             | 11,068.31             | 36.28            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,636.69               | 1,534.38                | 102.31                    | 15.998            |                              |
| 10,200.00                                                                               | 10,187.51             | 15,477.00             | 11,068.31             | 36.64            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,577.62               | 1,472.47                | 105.15                    | 15.003            |                              |
| 10,300.00                                                                               | 10,287.51             | 15,477.00             | 11,068.31             | 36.99            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,522.84               | 1,414.81                | 108.03                    | 14.096            |                              |
| 10,400.00                                                                               | 10,387.51             | 15,477.00             | 11,068.31             | 37.34            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,472.81               | 1,361.92                | 110.89                    | 13.282            |                              |
| 10,500.00                                                                               | 10,487.51             | 15,477.00             | 11,068.31             | 37.70            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,428.04               | 1,314.38                | 113.67                    | 12.563            |                              |
| 10,600.00                                                                               | 10,587.51             | 15,477.00             | 11,068.31             | 38.05            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,389.05               | 1,272.76                | 116.29                    | 11.945            |                              |
| 10,700.00                                                                               | 10,687.51             | 15,477.00             | 11,068.31             | 38.41            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,356.32               | 1,237.65                | 118.67                    | 11.429            |                              |
| 10,800.00                                                                               | 10,787.51             | 15,477.00             | 11,068.31             | 38.76            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,330.31               | 1,209.59                | 120.73                    | 11.019            |                              |
| 10,900.00                                                                               | 10,887.51             | 15,477.00             | 11,068.31             | 39.11            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,311.44               | 1,189.06                | 122.38                    | 10.716            |                              |
| 11,000.00                                                                               | 10,987.51             | 15,477.00             | 11,068.31             | 39.47            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,300.01               | 1,176.45                | 123.56                    | 10.522            |                              |
| 11,099.30                                                                               | 11,086.81             | 15,477.00             | 11,068.31             | 39.82            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,296.21               | 1,172.00                | 124.21                    | 10.436 CC         |                              |
| 11,100.00                                                                               | 11,087.51             | 15,477.00             | 11,068.31             | 39.82            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,296.21               | 1,172.00                | 124.21                    | 10.435 ES, SF     |                              |
| 11,200.00                                                                               | 11,187.51             | 15,477.00             | 11,068.31             | 40.18            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,300.11               | 1,175.78                | 124.33                    | 10.457            |                              |
| 11,300.00                                                                               | 11,287.51             | 15,477.00             | 11,068.31             | 40.53            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,311.65               | 1,187.73                | 123.92                    | 10.584            |                              |
| 11,400.00                                                                               | 11,387.51             | 15,477.00             | 11,068.31             | 40.88            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,330.63               | 1,207.59                | 123.04                    | 10.815            |                              |
| 11,500.00                                                                               | 11,487.51             | 15,477.00             | 11,068.31             | 41.24            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,356.73               | 1,235.00                | 121.73                    | 11.145            |                              |
| 11,600.00                                                                               | 11,587.51             | 15,477.00             | 11,068.31             | 41.59            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,389.55               | 1,269.46                | 120.09                    | 11.571            |                              |
| 11,700.00                                                                               | 11,687.51             | 15,477.00             | 11,068.31             | 41.95            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,428.63               | 1,310.44                | 118.20                    | 12.087            |                              |
| 11,800.00                                                                               | 11,787.51             | 15,477.00             | 11,068.31             | 42.30            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,473.48               | 1,357.34                | 116.13                    | 12.688            |                              |
| 11,900.00                                                                               | 11,887.51             | 15,477.00             | 11,068.31             | 42.66            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,523.57               | 1,409.59                | 113.98                    | 13.367            |                              |
| 11,907.73                                                                               | 11,895.24             | 15,477.00             | 11,068.31             | 42.68            | 85.41         | -104.20                | -9.90                               | -1,453.76    | 1,527.65               | 1,413.84                | 113.81                    | 13.423            |                              |
| 11,950.00                                                                               | 11,937.47             | 15,477.00             | 11,068.31             | 42.82            | 85.41         | -104.13                | -9.90                               | -1,453.76    | 1,550.10               | 1,437.22                | 112.88                    | 13.732            |                              |
| 12,000.00                                                                               | 11,987.11             | 15,477.00             | 11,068.31             | 42.97            | 85.41         | -103.88                | -9.90                               | -1,453.76    | 1,576.76               | 1,464.97                | 111.79                    | 14.105            |                              |
| 12,050.00                                                                               | 12,036.05             | 15,477.00             | 11,068.31             | 43.12            | 85.41         | -103.44                | -9.90                               | -1,453.76    | 1,603.32               | 1,492.61                | 110.71                    | 14.482            |                              |
| 12,100.00                                                                               | 12,083.92             | 15,477.00             | 11,068.31             | 43.25            | 85.41         | -102.82                | -9.90                               | -1,453.76    | 1,629.61               | 1,519.95                | 109.66                    | 14.860            |                              |
| 12,150.00                                                                               | 12,130.35             | 15,477.00             | 11,068.31             | 43.37            | 85.41         | -102.01                | -9.90                               | -1,453.76    | 1,655.43               | 1,546.78                | 108.65                    | 15.237            |                              |
| 12,200.00                                                                               | 12,175.00             | 15,477.00             | 11,068.31             | 43.49            | 85.41         | -101.03                | -9.90                               | -1,453.76    | 1,680.62               | 1,572.95                | 107.67                    | 15.609            |                              |
| 12,250.00                                                                               | 12,217.51             | 15,477.00             | 11,068.31             | 43.59            | 85.41         | -99.87                 | -9.90                               | -1,453.76    | 1,705.01               | 1,598.27                | 106.74                    | 15.974            |                              |
| 12,300.00                                                                               | 12,257.57             | 15,477.00             | 11,068.31             | 43.68            | 85.41         | -98.54                 | -9.90                               | -1,453.76    | 1,728.46               | 1,622.60                | 105.86                    | 16.328            |                              |
| 12,350.00                                                                               | 12,294.88             | 15,477.00             | 11,068.31             | 43.76            | 85.41         | -97.05                 | -9.90                               | -1,453.76    | 1,750.83               | 1,645.80                | 105.03                    | 16.669            |                              |
| 12,400.00                                                                               | 12,329.14             | 15,477.00             | 11,068.31             | 43.83            | 85.41         | -95.41                 | -9.90                               | -1,453.76    | 1,772.00               | 1,667.73                | 104.27                    | 16.994            |                              |
| 12,450.00                                                                               | 12,360.10             | 15,477.00             | 11,068.31             | 43.90            | 85.41         | -93.63                 | -9.90                               | -1,453.76    | 1,791.85               | 1,688.28                | 103.57                    | 17.301            |                              |
| 12,500.00                                                                               | 12,387.52             | 15,468.85             | 11,068.32             | 43.96            | 85.29         | -92.10                 | -18.05                              | -1,453.47    | 1,810.25               | 1,707.39                | 102.86                    | 17.599            |                              |
| 12,550.00                                                                               | 12,411.20             | 15,421.36             | 11,068.42             | 44.03            | 84.58         | -92.26                 | -65.50                              | -1,451.82    | 1,826.41               | 1,724.54                | 101.87                    | 17.930            |                              |
| 12,600.00                                                                               | 12,430.95             | 15,359.71             | 11,068.91             | 44.11            | 83.66         | -92.98                 | -127.11                             | -1,449.52    | 1,839.55               | 1,738.72                | 100.83                    | 18.244            |                              |
| 12,650.00                                                                               | 12,446.62             | 15,309.85             | 11,069.62             | 44.20            | 82.91         | -93.09                 | -176.93                             | -1,447.53    | 1,849.45               | 1,749.45                | 100.00                    | 18.494            |                              |
| 12,700.00                                                                               | 12,458.10             | 15,269.87             | 11,070.13             | 44.29            | 82.31         | -92.70                 | -216.88                             | -1,446.06    | 1,856.45               | 1,757.09                | 99.36                     | 18.684            |                              |
| 12,707.73                                                                               | 12,459.49             | 15,263.62             | 11,070.20             | 44.31            | 82.22         | -92.64                 | -223.12                             | -1,445.84    | 1,857.27               | 1,758.01                | 99.27                     | 18.709            |                              |
| 12,750.00                                                                               | 12,465.91             | 15,237.00             | 11,070.46             | 44.39            | 81.82         | -91.94                 | -249.72                             | -1,444.97    | 1,861.01               | 1,762.15                | 98.86                     | 18.824            |                              |
| 12,800.00                                                                               | 12,471.10             | 15,189.12             | 11,070.71             | 44.50            | 81.12         | -91.86                 | -297.58                             | -1,443.48    | 1,863.85               | 1,765.56                | 98.29                     | 18.963            |                              |
| 12,850.00                                                                               | 12,473.69             | 15,115.37             | 11,070.91             | 44.61            | 80.02         | -92.95                 | -371.29                             | -1,441.00    | 1,864.85               | 1,767.32                | 97.53                     | 19.121            |                              |
| 12,874.40                                                                               | 12,474.00             | 15,079.42             | 11,070.95             | 44.67            | 79.49         | -93.48                 | -407.22                             | -1,439.78    | 1,864.77               | 1,767.60                | 97.17                     | 19.190            |                              |
| 12,900.00                                                                               | 12,474.00             | 15,029.72             | 11,072.16             | 44.73            | 78.76         | -94.59                 | -456.85                             | -1,437.45    | 1,863.57               | 1,766.87                | 96.71                     | 19.271            |                              |
| 13,000.00                                                                               | 12,474.00             | 14,930.34             | 11,074.65             | 45.01            | 77.29         | -94.57                 | -556.05                             | -1,432.12    | 1,858.56               | 1,762.78                | 95.78                     | 19.405            |                              |
| 13,100.00                                                                               | 12,474.00             | 14,840.22             | 11,076.25             | 45.35            | 75.97         | -94.13                 | -646.02                             | -1,427.24    | 1,854.04               | 1,759.07                | 94.97                     | 19.522            |                              |
| 13,200.00                                                                               | 12,474.00             | 14,733.18             | 11,078.00             | 45.75            | 74.40         | -94.46                 | -752.86                             | -1,420.88    | 1,849.29               | 1,755.26                | 94.03                     | 19.667            |                              |
| 13,300.00                                                                               | 12,474.00             | 14,636.49             | 11,079.24             | 46.20            | 73.00         | -94.32                 | -849.37                             | -1,415.16    | 1,844.82               | 1,751.58                | 93.24                     | 19.786            |                              |
| 13,400.00                                                                               | 12,474.00             | 14,536.39             | 11,080.68             | 46.71            | 71.55         | -94.33                 | -949.26                             | -1,408.72    | 1,839.91               | 1,747.46                | 92.45                     | 19.903            |                              |
| 13,500.00                                                                               | 12,474.00             | 14,449.45             | 11,081.05             | 47.26            | 70.31         | -93.73                 | -1,036.02                           | -1,403.38    | 1,835.91               | 1,744.09                | 91.82                     | 19.994            |                              |
| 13,600.00                                                                               | 12,474.00             | 14,333.73             | 11,081.01             | 47.87            | 68.65         | -94.48                 | -1,151.44                           | -1,394.91    | 1,831.51               | 1,740.60                | 90.91                     | 20.147            |                              |
| 13,700.00                                                                               | 12,474.00             | 14,195.00             | 11,080.73             | 48.53            | 66.68         | -96.34                 | -1,289.56                           | -1,382.01    | 1,826.06               | 1,736.33                | 89.72                     | 20.352            |                              |

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



MS Directional  
Anticollision Report



Company: Matador Resources  
Project: Lea County, New Mexico (NAD 27)  
Reference Site: Charles Ling Fed Com  
Site Error: 0.00 usft  
Reference Well: Charles Ling Fed Com #212H  
Well Error: 0.00 usft  
Reference Wellbore: Wellbore #1  
Reference Design: Design #2

Local Co-ordinate Reference: Well Charles Ling Fed Com #212H  
TVD Reference: WELL @ 3639.50usft (Patterson 282)  
MD Reference: WELL @ 3639.50usft (Patterson 282)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM 5000.14 Conroe DB  
Offset TVD Reference: Offset Datum

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #1H - Wellbore #1 - Surveys |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 100-GYRO-NS, 10598-MWD                                                  |                             |                             |                             |                     |                  |                              |                        |                |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                                                               |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Offset Wellbore Centre |                | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                                                             | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | +N-S<br>(usft)         | +E-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                              |
| 13,800.00                                                                               | 12,474.00                   | 14,106.39                   | 11,081.14                   | 49.23               | 65.44            | -95.82                       | -1,377.71              | -1,373.09      | 1,819.52                     | 1,730.38                      | 89.14                           | 20.411               |                              |
| 13,900.00                                                                               | 12,474.00                   | 14,021.31                   | 11,081.32                   | 49.97               | 64.25            | -95.12                       | -1,462.43              | -1,365.18      | 1,813.71                     | 1,725.05                      | 88.66                           | 20.458               |                              |
| 14,000.00                                                                               | 12,474.00                   | 13,939.10                   | 11,081.00                   | 50.76               | 63.12            | -94.27                       | -1,544.33              | -1,358.06      | 1,808.80                     | 1,720.55                      | 88.25                           | 20.497               |                              |
| 14,100.00                                                                               | 12,474.00                   | 13,839.84                   | 11,080.32                   | 51.59               | 61.77            | -94.24                       | -1,643.27              | -1,350.16      | 1,804.58                     | 1,716.88                      | 87.70                           | 20.576               |                              |
| 14,200.00                                                                               | 12,474.00                   | 13,739.60                   | 11,080.63                   | 52.46               | 60.42            | -94.26                       | -1,743.26              | -1,343.01      | 1,800.16                     | 1,712.94                      | 87.22                           | 20.639               |                              |
| 14,300.00                                                                               | 12,474.00                   | 13,612.35                   | 11,081.40                   | 53.37               | 58.73            | -95.63                       | -1,870.10              | -1,332.88      | 1,794.98                     | 1,708.50                      | 86.48                           | 20.756               |                              |
| 14,400.00                                                                               | 12,474.00                   | 13,523.87                   | 11,081.52                   | 54.31               | 57.57            | -95.07                       | -1,958.22              | -1,324.94      | 1,789.52                     | 1,703.35                      | 86.17                           | 20.767               |                              |
| 14,500.00                                                                               | 12,474.00                   | 13,399.81                   | 11,083.42                   | 55.28               | 55.98            | -96.30                       | -2,081.78              | -1,314.01      | 1,783.01                     | 1,697.46                      | 85.54                           | 20.843               |                              |
| 14,600.00                                                                               | 12,474.00                   | 13,318.55                   | 11,084.79                   | 56.29               | 54.95            | -95.37                       | -2,162.76              | -1,307.44      | 1,776.98                     | 1,691.55                      | 85.43                           | 20.801               |                              |
| 14,700.00                                                                               | 12,474.00                   | 13,232.81                   | 11,085.60                   | 57.32               | 53.89            | -94.66                       | -2,248.25              | -1,300.93      | 1,771.84                     | 1,686.54                      | 85.30                           | 20.771               |                              |
| 14,800.00                                                                               | 12,474.00                   | 13,144.72                   | 11,085.77                   | 58.39               | 52.81            | -94.07                       | -2,336.10              | -1,294.46      | 1,767.45                     | 1,682.27                      | 85.18                           | 20.749               |                              |
| 14,900.00                                                                               | 12,474.00                   | 13,040.97                   | 11,085.59                   | 59.48               | 51.57            | -94.27                       | -2,439.59              | -1,287.07      | 1,763.52                     | 1,678.58                      | 84.94                           | 20.763               |                              |
| 15,000.00                                                                               | 12,474.00                   | 12,871.80                   | 11,088.80                   | 60.60               | 49.61            | -97.87                       | -2,608.11              | -1,272.73      | 1,757.02                     | 1,672.95                      | 84.07                           | 20.899               |                              |
| 15,100.00                                                                               | 12,474.00                   | 12,791.10                   | 11,090.95                   | 61.74               | 48.70            | -96.90                       | -2,688.40              | -1,264.97      | 1,749.34                     | 1,665.19                      | 84.14                           | 20.790               |                              |
| 15,200.00                                                                               | 12,474.00                   | 12,684.25                   | 11,092.37                   | 62.90               | 47.53            | -97.30                       | -2,794.65              | -1,253.76      | 1,742.18                     | 1,658.24                      | 83.94                           | 20.755               |                              |
| 15,300.00                                                                               | 12,474.00                   | 12,614.22                   | 11,092.11                   | 64.08               | 46.79            | -95.74                       | -2,864.17              | -1,245.41      | 1,735.49                     | 1,651.38                      | 84.12                           | 20.632               |                              |
| 15,400.00                                                                               | 12,474.00                   | 12,517.27                   | 11,090.59                   | 65.29               | 45.78            | -95.59                       | -2,960.50              | -1,234.48      | 1,730.16                     | 1,646.14                      | 84.03                           | 20.590               |                              |
| 15,500.00                                                                               | 12,474.00                   | 12,413.49                   | 11,090.69                   | 66.51               | 44.77            | -95.82                       | -3,063.76              | -1,224.14      | 1,724.37                     | 1,640.40                      | 83.98                           | 20.534               |                              |
| 15,600.00                                                                               | 12,474.00                   | 12,313.92                   | 11,090.88                   | 67.75               | 43.81            | -95.82                       | -3,162.84              | -1,214.29      | 1,718.59                     | 1,634.60                      | 83.99                           | 20.461               |                              |
| 15,700.00                                                                               | 12,474.00                   | 12,225.27                   | 11,090.89                   | 69.01               | 43.01            | -95.22                       | -3,251.07              | -1,205.70      | 1,713.11                     | 1,628.94                      | 84.17                           | 20.353               |                              |
| 15,800.00                                                                               | 12,474.00                   | 12,091.01                   | 11,092.18                   | 70.29               | 41.87            | -97.15                       | -3,384.71              | -1,192.82      | 1,706.94                     | 1,622.96                      | 83.98                           | 20.325               |                              |
| 15,900.00                                                                               | 12,474.00                   | 12,009.17                   | 11,093.51                   | 71.58               | 41.22            | -96.17                       | -3,466.16              | -1,185.13      | 1,700.39                     | 1,616.06                      | 84.34                           | 20.162               |                              |
| 16,000.00                                                                               | 12,474.00                   | 11,919.71                   | 11,094.30                   | 72.89               | 40.56            | -95.60                       | -3,555.25              | -1,177.04      | 1,694.67                     | 1,610.01                      | 84.66                           | 20.017               |                              |
| 16,100.00                                                                               | 12,474.00                   | 11,820.65                   | 11,095.12                   | 74.20               | 39.88            | -95.56                       | -3,653.94              | -1,168.47      | 1,689.27                     | 1,604.31                      | 84.96                           | 19.884               |                              |
| 16,200.00                                                                               | 12,474.00                   | 11,727.16                   | 11,095.76                   | 75.54               | 39.29            | -95.21                       | -3,747.10              | -1,160.65      | 1,684.15                     | 1,598.80                      | 85.35                           | 19.733               |                              |
| 16,300.00                                                                               | 12,474.00                   | 11,612.52                   | 11,097.53                   | 76.88               | 38.64            | -96.08                       | -3,861.34              | -1,151.19      | 1,678.38                     | 1,592.74                      | 85.64                           | 19.598               |                              |
| 16,400.00                                                                               | 12,474.00                   | 11,524.18                   | 11,098.55                   | 78.24               | 38.21            | -95.43                       | -3,949.39              | -1,144.20      | 1,673.16                     | 1,586.98                      | 86.18                           | 19.415               |                              |
| 16,500.00                                                                               | 12,474.00                   | 11,417.00                   | 11,100.81                   | 79.81               | 37.74            | -95.87                       | -4,056.14              | -1,134.85      | 1,666.67                     | 1,580.04                      | 86.62                           | 19.240               |                              |
| 16,600.00                                                                               | 12,474.00                   | 11,386.00                   | 11,101.12                   | 80.99               | 37.62            | -91.79                       | -4,087.01              | -1,132.12      | 1,662.53                     | 1,574.90                      | 87.63                           | 18.972               |                              |
| 16,637.74                                                                               | 12,474.00                   | 11,365.89                   | 11,100.52                   | 81.51               | 37.55            | -90.74                       | -4,107.05              | -1,130.49      | 1,661.99                     | 1,574.04                      | 87.94                           | 18.898               |                              |
| 16,700.00                                                                               | 12,474.00                   | 11,354.00                   | 11,099.84                   | 82.37               | 37.51            | -87.74                       | -4,118.88              | -1,129.56      | 1,662.63                     | 1,574.01                      | 88.61                           | 18.763               |                              |
| 16,800.00                                                                               | 12,474.00                   | 11,323.00                   | 11,096.88                   | 83.77               | 37.41            | -83.63                       | -4,149.64              | -1,127.19      | 1,667.06                     | 1,577.49                      | 89.57                           | 18.612               |                              |
| 16,900.00                                                                               | 12,474.00                   | 11,289.00                   | 11,091.49                   | 85.18               | 37.30            | -79.72                       | -4,183.10              | -1,124.49      | 1,675.88                     | 1,585.42                      | 90.45                           | 18.527               |                              |
| 17,000.00                                                                               | 12,474.00                   | 11,270.79                   | 11,087.59                   | 86.59               | 37.25            | -75.03                       | -4,200.82              | -1,123.05      | 1,689.11                     | 1,597.67                      | 91.44                           | 18.473               |                              |
| 17,100.00                                                                               | 12,474.00                   | 11,257.00                   | 11,084.16                   | 88.02               | 37.21            | -70.30                       | -4,214.15              | -1,122.07      | 1,706.96                     | 1,614.55                      | 92.41                           | 18.471               |                              |
| 17,200.00                                                                               | 12,474.00                   | 11,226.00                   | 11,075.01                   | 89.45               | 37.13            | -66.62                       | -4,243.69              | -1,120.09      | 1,729.06                     | 1,635.89                      | 93.17                           | 18.558               |                              |
| 17,226.60                                                                               | 12,474.00                   | 11,226.00                   | 11,075.01                   | 89.83               | 37.13            | -65.29                       | -4,243.69              | -1,120.09      | 1,735.70                     | 1,642.26                      | 93.44                           | 18.576               |                              |
| 17,227.36                                                                               | 12,474.00                   | 11,226.00                   | 11,075.01                   | 89.85               | 37.13            | -65.26                       | -4,243.69              | -1,120.09      | 1,735.90                     | 1,643.02                      | 92.88                           | 18.690               |                              |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #2H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 100-MWD                                                                 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 0.00                                                                                    | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 179.20                 | -4,729.93                           | 66.22        | 4,730.43               |                         |                           |                    |           |
| 100.00                                                                                  | 100.00                | 87.50                 | 87.50                 | 0.13             | 0.13          | 179.20                 | -4,729.88                           | 66.34        | 4,730.35               | 4,730.09                | 0.26                      | N/A                |           |
| 200.00                                                                                  | 200.00                | 184.91                | 184.91                | 0.49             | 0.45          | 179.19                 | -4,729.79                           | 66.58        | 4,730.26               | 4,729.32                | 0.94                      | 5,043.146          |           |
| 300.00                                                                                  | 300.00                | 282.70                | 282.70                | 0.85             | 0.80          | 179.19                 | -4,729.76                           | 66.80        | 4,730.24               | 4,728.59                | 1.65                      | 2,872.627          |           |
| 310.39                                                                                  | 310.39                | 292.89                | 292.89                | 0.88             | 0.84          | 179.19                 | -4,729.76                           | 66.83        | 4,730.24               | 4,728.51                | 1.72                      | 2,749.544          |           |
| 400.00                                                                                  | 400.00                | 377.23                | 377.23                | 1.20             | 1.14          | 179.19                 | -4,729.80                           | 67.15        | 4,730.28               | 4,727.94                | 2.34                      | 2,018.778          |           |
| 500.00                                                                                  | 500.00                | 474.33                | 474.33                | 1.56             | 1.49          | 179.18                 | -4,729.94                           | 67.59        | 4,730.43               | 4,727.39                | 3.05                      | 1,551.918          |           |
| 600.00                                                                                  | 600.00                | 566.44                | 566.44                | 1.92             | 1.81          | 179.18                 | -4,730.16                           | 67.97        | 4,730.67               | 4,726.94                | 3.73                      | 1,266.647          |           |
| 700.00                                                                                  | 699.99                | 668.22                | 668.21                | 2.28             | 2.18          | 179.16                 | -4,730.52                           | 68.50        | 4,731.78               | 4,727.33                | 4.45                      | 1,062.140          |           |
| 800.00                                                                                  | 799.96                | 773.04                | 773.03                | 2.64             | 2.55          | 179.14                 | -4,730.77                           | 68.92        | 4,734.25               | 4,729.06                | 5.19                      | 912.750            |           |
| 900.00                                                                                  | 899.86                | 876.27                | 876.26                | 2.99             | 2.92          | 179.11                 | -4,730.93                           | 69.60        | 4,738.12               | 4,732.20                | 5.91                      | 801.036            |           |
| 999.81                                                                                  | 999.49                | 1,003.78              | 1,003.76              | 3.35             | 3.38          | 179.05                 | -4,730.75                           | 71.27        | 4,743.20               | 4,736.47                | 6.73                      | 704.786            |           |
| 1,000.00                                                                                | 999.68                | 1,004.03              | 1,004.01              | 3.35             | 3.38          | 179.05                 | -4,730.75                           | 71.28        | 4,743.21               | 4,736.47                | 6.73                      | 704.620            |           |
| 1,100.00                                                                                | 1,099.43              | 1,121.01              | 1,120.97              | 3.72             | 3.80          | 178.98                 | -4,730.01                           | 73.19        | 4,748.55               | 4,741.04                | 7.51                      | 632.427            |           |
| 1,200.00                                                                                | 1,199.19              | 1,247.42              | 1,247.36              | 4.08             | 4.24          | 178.91                 | -4,728.49                           | 75.04        | 4,753.30               | 4,744.98                | 8.32                      | 571.533            |           |
| 1,300.00                                                                                | 1,298.95              | 1,344.29              | 1,344.21              | 4.45             | 4.59          | 178.85                 | -4,727.10                           | 76.55        | 4,757.84               | 4,748.82                | 9.02                      | 527.390            |           |
| 1,400.00                                                                                | 1,398.70              | 1,428.88              | 1,428.79              | 4.82             | 4.88          | 178.80                 | -4,726.08                           | 77.58        | 4,762.62               | 4,752.94                | 9.68                      | 491.960            |           |
| 1,500.00                                                                                | 1,498.46              | 1,500.00              | 1,499.90              | 5.18             | 5.13          | 178.75                 | -4,725.50                           | 77.70        | 4,767.79               | 4,757.50                | 10.29                     | 463.410            |           |
| 1,600.00                                                                                | 1,598.22              | 1,580.22              | 1,580.11              | 5.55             | 5.40          | 178.71                 | -4,725.26                           | 77.21        | 4,773.45               | 4,762.54                | 10.92                     | 437.228            |           |
| 1,700.00                                                                                | 1,697.97              | 1,658.38              | 1,658.28              | 5.92             | 5.66          | 178.68                 | -4,725.48                           | 76.55        | 4,779.67               | 4,768.13                | 11.54                     | 414.191            |           |
| 1,800.00                                                                                | 1,797.73              | 1,746.88              | 1,746.77              | 6.29             | 5.95          | 178.64                 | -4,726.05                           | 75.99        | 4,786.25               | 4,774.05                | 12.20                     | 392.349            |           |
| 1,900.00                                                                                | 1,897.48              | 1,841.97              | 1,841.86              | 6.66             | 6.27          | 178.60                 | -4,726.76                           | 75.51        | 4,792.94               | 4,780.06                | 12.88                     | 372.002            |           |
| 2,000.00                                                                                | 1,997.24              | 1,940.68              | 1,940.56              | 7.03             | 6.61          | 178.56                 | -4,727.61                           | 75.10        | 4,799.75               | 4,786.16                | 13.59                     | 353.304            |           |
| 2,100.00                                                                                | 2,097.00              | 2,043.03              | 2,042.92              | 7.41             | 6.97          | 178.52                 | -4,728.38                           | 74.90        | 4,806.47               | 4,792.16                | 14.30                     | 336.057            |           |
| 2,200.00                                                                                | 2,196.75              | 2,144.66              | 2,144.54              | 7.78             | 7.32          | 178.48                 | -4,729.18                           | 74.78        | 4,813.22               | 4,798.20                | 15.02                     | 320.459            |           |
| 2,300.00                                                                                | 2,296.51              | 2,260.74              | 2,260.62              | 8.15             | 7.72          | 178.44                 | -4,729.84                           | 74.72        | 4,819.76               | 4,803.97                | 15.79                     | 305.266            |           |
| 2,400.00                                                                                | 2,396.27              | 2,370.33              | 2,370.21              | 8.52             | 8.10          | 178.40                 | -4,730.12                           | 74.47        | 4,825.98               | 4,809.44                | 16.53                     | 291.920            |           |
| 2,500.00                                                                                | 2,496.02              | 2,469.73              | 2,469.61              | 8.89             | 8.45          | 178.36                 | -4,730.29                           | 74.16        | 4,832.12               | 4,814.88                | 17.24                     | 280.314            |           |
| 2,600.00                                                                                | 2,595.78              | 2,573.48              | 2,573.35              | 9.26             | 8.80          | 178.32                 | -4,730.48                           | 73.76        | 4,838.26               | 4,820.30                | 17.96                     | 269.387            |           |
| 2,700.00                                                                                | 2,695.54              | 2,676.13              | 2,676.00              | 9.64             | 9.16          | 178.29                 | -4,730.55                           | 73.42        | 4,844.30               | 4,825.62                | 18.68                     | 259.349            |           |
| 2,800.00                                                                                | 2,795.29              | 2,779.52              | 2,779.39              | 10.01            | 9.51          | 178.25                 | -4,730.57                           | 73.08        | 4,850.29               | 4,830.89                | 19.40                     | 250.014            |           |
| 2,900.00                                                                                | 2,895.05              | 2,879.45              | 2,879.32              | 10.38            | 9.86          | 178.21                 | -4,730.54                           | 72.78        | 4,856.24               | 4,836.13                | 20.11                     | 241.486            |           |
| 3,000.00                                                                                | 2,994.81              | 2,974.11              | 2,973.98              | 10.75            | 10.19         | 178.17                 | -4,730.55                           | 72.49        | 4,862.23               | 4,841.43                | 20.80                     | 233.733            |           |
| 3,100.00                                                                                | 3,094.56              | 3,067.22              | 3,067.09              | 11.12            | 10.51         | 178.13                 | -4,730.68                           | 72.27        | 4,868.36               | 4,846.87                | 21.49                     | 226.523            |           |
| 3,200.00                                                                                | 3,194.32              | 3,164.90              | 3,164.77              | 11.50            | 10.86         | 178.09                 | -4,730.93                           | 72.17        | 4,874.59               | 4,852.39                | 22.20                     | 219.589            |           |
| 3,300.00                                                                                | 3,294.08              | 3,272.69              | 3,272.56              | 11.87            | 11.24         | 178.05                 | -4,731.12                           | 72.46        | 4,880.78               | 4,857.84                | 22.94                     | 212.743            |           |
| 3,400.00                                                                                | 3,393.83              | 3,374.51              | 3,374.38              | 12.24            | 11.59         | 178.00                 | -4,731.14                           | 72.85        | 4,886.81               | 4,863.15                | 23.66                     | 206.514            |           |
| 3,500.00                                                                                | 3,493.59              | 3,469.53              | 3,469.40              | 12.61            | 11.93         | 177.95                 | -4,731.21                           | 73.15        | 4,892.90               | 4,868.53                | 24.36                     | 200.850            |           |
| 3,600.00                                                                                | 3,593.35              | 3,562.86              | 3,562.73              | 12.99            | 12.25         | 177.91                 | -4,731.39                           | 73.45        | 4,899.10               | 4,874.05                | 25.05                     | 195.546            |           |
| 3,700.00                                                                                | 3,693.10              | 3,658.18              | 3,658.04              | 13.36            | 12.59         | 177.87                 | -4,731.68                           | 73.69        | 4,905.43               | 4,879.67                | 25.75                     | 190.473            |           |
| 3,800.00                                                                                | 3,792.86              | 3,756.68              | 3,756.54              | 13.73            | 12.94         | 177.82                 | -4,732.05                           | 73.84        | 4,911.81               | 4,885.35                | 26.47                     | 185.587            |           |
| 3,900.00                                                                                | 3,892.62              | 3,850.46              | 3,850.32              | 14.11            | 13.27         | 177.78                 | -4,732.44                           | 73.94        | 4,918.24               | 4,891.08                | 27.16                     | 181.074            |           |
| 4,000.00                                                                                | 3,992.37              | 3,949.66              | 3,949.52              | 14.48            | 13.62         | 177.74                 | -4,733.00                           | 73.86        | 4,924.82               | 4,896.95                | 27.88                     | 176.673            |           |
| 4,100.00                                                                                | 4,092.13              | 4,048.07              | 4,047.93              | 14.85            | 13.97         | 177.70                 | -4,733.48                           | 73.50        | 4,931.30               | 4,902.72                | 28.59                     | 172.510            |           |
| 4,200.00                                                                                | 4,191.89              | 4,142.08              | 4,141.94              | 15.22            | 14.30         | 177.67                 | -4,734.09                           | 73.34        | 4,937.96               | 4,908.68                | 29.28                     | 168.645            |           |
| 4,300.00                                                                                | 4,291.64              | 4,283.25              | 4,283.11              | 15.60            | 14.79         | 177.63                 | -4,734.66                           | 72.64        | 4,944.43               | 4,914.29                | 30.14                     | 164.026            |           |
| 4,400.00                                                                                | 4,391.40              | 4,432.93              | 4,432.78              | 15.97            | 15.31         | 177.60                 | -4,733.40                           | 71.86        | 4,949.51               | 4,918.48                | 31.03                     | 159.517            |           |
| 4,500.00                                                                                | 4,491.16              | 4,515.39              | 4,515.23              | 16.34            | 15.59         | 177.56                 | -4,732.55                           | 72.21        | 4,954.52               | 4,922.84                | 31.67                     | 156.418            |           |
| 4,600.00                                                                                | 4,590.91              | 4,600.00              | 4,599.84              | 16.72            | 15.88         | 177.51                 | -4,732.00                           | 72.64        | 4,959.91               | 4,927.58                | 32.33                     | 153.415            |           |
| 4,700.00                                                                                | 4,690.67              | 4,679.68              | 4,679.51              | 17.09            | 16.16         | 177.46                 | -4,731.76                           | 73.03        | 4,965.65               | 4,932.69                | 32.97                     | 150.615            |           |
| 4,800.00                                                                                | 4,790.43              | 4,761.74              | 4,761.57              | 17.46            | 16.45         | 177.41                 | -4,731.75                           | 74.08        | 4,971.73               | 4,938.12                | 33.62                     | 147.889            |           |
| 4,900.00                                                                                | 4,890.18              | 4,826.83              | 4,826.63              | 17.83            | 16.68         | 177.35                 | -4,731.96                           | 76.04        | 4,978.27               | 4,944.07                | 34.20                     | 145.545            |           |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #2H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   |         | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|-----------|
| Survey Program: 100-MWD                                                                 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   |         | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |                    |           |
| 5,000.00                                                                                | 4,989.94              | 4,900.00              | 4,899.73              | 18.21            | 16.93         | 177.28                 | -4,733.01                           | 79.03        | 4,985.83               | 4,951.01                | 34.82                     | 143.188           |         |                    |           |
| 5,100.00                                                                                | 5,089.70              | 4,939.45              | 4,939.13              | 18.58            | 17.07         | 177.22                 | -4,733.92                           | 80.79        | 4,994.10               | 4,958.80                | 35.31                     | 141.449           |         |                    |           |
| 5,200.00                                                                                | 5,189.45              | 5,021.16              | 5,020.74              | 18.95            | 17.36         | 177.14                 | -4,736.17                           | 84.13        | 5,003.08               | 4,967.12                | 35.95                     | 139.155           |         |                    |           |
| 5,300.00                                                                                | 5,289.21              | 5,173.30              | 5,172.76              | 19.33            | 17.90         | 177.05                 | -4,739.78                           | 88.92        | 5,011.68               | 4,974.81                | 36.87                     | 135.924           |         |                    |           |
| 5,400.00                                                                                | 5,388.97              | 5,300.90              | 5,300.31              | 19.70            | 18.35         | 176.97                 | -4,741.72                           | 92.18        | 5,019.37               | 4,981.68                | 37.69                     | 133.160           |         |                    |           |
| 5,500.00                                                                                | 5,488.72              | 5,400.00              | 5,399.36              | 20.07            | 18.71         | 176.91                 | -4,742.93                           | 94.70        | 5,026.79               | 4,988.38                | 38.41                     | 130.876           |         |                    |           |
| 5,600.00                                                                                | 5,588.48              | 5,475.96              | 5,475.29              | 20.45            | 18.98         | 176.84                 | -4,744.02                           | 96.84        | 5,034.46               | 4,995.42                | 39.04                     | 128.971           |         |                    |           |
| 5,700.00                                                                                | 5,688.24              | 5,562.94              | 5,562.21              | 20.82            | 19.28         | 176.77                 | -4,745.70                           | 99.46        | 5,042.61               | 5,002.90                | 39.70                     | 127.004           |         |                    |           |
| 5,800.00                                                                                | 5,787.99              | 5,673.47              | 5,672.68              | 21.19            | 19.68         | 176.70                 | -4,747.85                           | 102.48       | 5,050.78               | 5,010.32                | 40.46                     | 124.822           |         |                    |           |
| 5,900.00                                                                                | 5,887.75              | 5,770.71              | 5,769.87              | 21.57            | 20.02         | 176.64                 | -4,749.55                           | 105.15       | 5,058.77               | 5,017.59                | 41.17                     | 122.868           |         |                    |           |
| 5,910.95                                                                                | 5,898.68              | 5,780.65              | 5,779.80              | 21.61            | 20.06         | 176.63                 | -4,749.73                           | 105.41       | 5,059.65               | 5,018.40                | 41.25                     | 122.667           |         |                    |           |
| 6,000.00                                                                                | 5,987.57              | 5,867.46              | 5,866.56              | 21.93            | 20.37         | 176.58                 | -4,751.37                           | 107.67       | 5,065.97               | 5,024.10                | 41.88                     | 120.972           |         |                    |           |
| 6,100.00                                                                                | 6,087.51              | 5,966.00              | 5,965.11              | 22.29            | 20.68         | 140.04                 | -1.62                               | 62.18        | 5,047.22               | 4,994.73                | 52.49                     | 96.156            |         |                    |           |
| 6,177.49                                                                                | 6,165.00              | 5,966.00              | 5,965.11              | 22.56            | 20.95         | 140.05                 | -1.62                               | 62.18        | 4,970.05               | 4,917.39                | 52.65                     | 94.391            |         |                    |           |
| 6,200.00                                                                                | 6,187.51              | 5,966.00              | 5,965.11              | 22.64            | 21.03         | 140.05                 | -1.62                               | 62.18        | 4,947.61               | 4,894.91                | 52.70                     | 93.880            |         |                    |           |
| 6,300.00                                                                                | 6,287.51              | 5,966.00              | 5,965.11              | 22.99            | 21.38         | 140.05                 | -1.62                               | 62.18        | 4,847.95               | 4,795.04                | 52.91                     | 91.621            |         |                    |           |
| 6,400.00                                                                                | 6,387.51              | 5,966.00              | 5,965.11              | 23.33            | 21.72         | 140.05                 | -1.62                               | 62.18        | 4,748.31               | 4,695.18                | 53.13                     | 89.374            |         |                    |           |
| 6,500.00                                                                                | 6,487.51              | 5,966.00              | 5,965.11              | 23.68            | 22.07         | 140.05                 | -1.62                               | 62.18        | 4,648.68               | 4,595.33                | 53.35                     | 87.139            |         |                    |           |
| 6,600.00                                                                                | 6,587.51              | 5,966.00              | 5,965.11              | 24.02            | 22.42         | 140.05                 | -1.62                               | 62.18        | 4,549.07               | 4,495.50                | 53.57                     | 84.918            |         |                    |           |
| 6,700.00                                                                                | 6,687.51              | 5,966.00              | 5,965.11              | 24.37            | 22.77         | 140.05                 | -1.62                               | 62.18        | 4,449.47               | 4,395.67                | 53.80                     | 82.709            |         |                    |           |
| 6,800.00                                                                                | 6,787.51              | 5,966.00              | 5,965.11              | 24.72            | 23.12         | 140.05                 | -1.62                               | 62.18        | 4,349.89               | 4,295.86                | 54.03                     | 80.513            |         |                    |           |
| 6,900.00                                                                                | 6,887.51              | 5,966.00              | 5,965.11              | 25.06            | 23.47         | 140.05                 | -1.62                               | 62.18        | 4,250.33               | 4,196.07                | 54.26                     | 78.331            |         |                    |           |
| 7,000.00                                                                                | 6,987.51              | 5,966.00              | 5,965.11              | 25.41            | 23.82         | 140.05                 | -1.62                               | 62.18        | 4,150.80               | 4,096.30                | 54.50                     | 76.162            |         |                    |           |
| 7,100.00                                                                                | 7,087.51              | 5,966.00              | 5,965.11              | 25.76            | 24.17         | 140.05                 | -1.62                               | 62.18        | 4,051.28               | 3,996.54                | 54.74                     | 74.006            |         |                    |           |
| 7,200.00                                                                                | 7,187.51              | 5,966.00              | 5,965.11              | 26.11            | 24.52         | 140.05                 | -1.62                               | 62.18        | 3,951.79               | 3,896.80                | 54.99                     | 71.864            |         |                    |           |
| 7,300.00                                                                                | 7,287.51              | 5,966.00              | 5,965.11              | 26.45            | 24.87         | 140.05                 | -1.62                               | 62.18        | 3,852.33               | 3,797.09                | 55.24                     | 69.736            |         |                    |           |
| 7,400.00                                                                                | 7,387.51              | 5,966.00              | 5,965.11              | 26.80            | 25.22         | 140.05                 | -1.62                               | 62.18        | 3,752.90               | 3,697.40                | 55.50                     | 67.622            |         |                    |           |
| 7,500.00                                                                                | 7,487.51              | 5,966.00              | 5,965.11              | 27.15            | 25.57         | 140.05                 | -1.62                               | 62.18        | 3,653.49               | 3,597.73                | 55.76                     | 65.523            |         |                    |           |
| 7,600.00                                                                                | 7,587.51              | 5,966.00              | 5,965.11              | 27.50            | 25.92         | 140.05                 | -1.62                               | 62.18        | 3,554.12               | 3,498.10                | 56.03                     | 63.437            |         |                    |           |
| 7,700.00                                                                                | 7,687.51              | 5,966.00              | 5,965.11              | 27.85            | 26.27         | 140.05                 | -1.62                               | 62.18        | 3,454.79               | 3,398.49                | 56.30                     | 61.366            |         |                    |           |
| 7,800.00                                                                                | 7,787.51              | 5,966.00              | 5,965.11              | 28.20            | 26.62         | 140.05                 | -1.62                               | 62.18        | 3,355.50               | 3,298.92                | 56.58                     | 59.309            |         |                    |           |
| 7,900.00                                                                                | 7,887.51              | 5,966.00              | 5,965.11              | 28.55            | 26.97         | 140.05                 | -1.62                               | 62.18        | 3,256.24               | 3,199.38                | 56.86                     | 57.267            |         |                    |           |
| 8,000.00                                                                                | 7,987.51              | 5,966.00              | 5,965.11              | 28.90            | 27.32         | 140.05                 | -1.62                               | 62.18        | 3,157.04               | 3,099.89                | 57.15                     | 55.240            |         |                    |           |
| 8,100.00                                                                                | 8,087.51              | 5,966.00              | 5,965.11              | 29.25            | 27.67         | 140.05                 | -1.62                               | 62.18        | 3,057.89               | 3,000.44                | 57.45                     | 53.227            |         |                    |           |
| 8,200.00                                                                                | 8,187.51              | 5,966.00              | 5,965.11              | 29.60            | 28.02         | 140.05                 | -1.62                               | 62.18        | 2,958.79               | 2,901.04                | 57.76                     | 51.229            |         |                    |           |
| 8,300.00                                                                                | 8,287.51              | 5,966.00              | 5,965.11              | 29.95            | 28.37         | 140.05                 | -1.62                               | 62.18        | 2,859.76               | 2,801.69                | 58.07                     | 49.247            |         |                    |           |
| 8,400.00                                                                                | 8,387.51              | 5,966.00              | 5,965.11              | 30.30            | 28.72         | 140.05                 | -1.62                               | 62.18        | 2,760.80               | 2,702.41                | 58.39                     | 47.279            |         |                    |           |
| 8,500.00                                                                                | 8,487.51              | 5,966.00              | 5,965.11              | 30.65            | 29.07         | 140.05                 | -1.62                               | 62.18        | 2,661.92               | 2,603.19                | 58.73                     | 45.326            |         |                    |           |
| 8,600.00                                                                                | 8,587.51              | 5,966.00              | 5,965.11              | 31.00            | 29.42         | 140.05                 | -1.62                               | 62.18        | 2,563.12               | 2,504.05                | 59.07                     | 43.389            |         |                    |           |
| 8,700.00                                                                                | 8,687.51              | 5,966.00              | 5,965.11              | 31.35            | 29.77         | 140.05                 | -1.62                               | 62.18        | 2,464.42               | 2,404.99                | 59.43                     | 41.467            |         |                    |           |
| 8,800.00                                                                                | 8,787.51              | 5,966.00              | 5,965.11              | 31.70            | 30.12         | 140.05                 | -1.62                               | 62.18        | 2,365.83               | 2,306.02                | 59.80                     | 39.561            |         |                    |           |
| 8,900.00                                                                                | 8,887.51              | 5,966.00              | 5,965.11              | 32.06            | 30.47         | 140.05                 | -1.62                               | 62.18        | 2,267.36               | 2,207.17                | 60.19                     | 37.669            |         |                    |           |
| 9,000.00                                                                                | 8,987.51              | 5,966.00              | 5,965.11              | 32.41            | 30.82         | 140.05                 | -1.62                               | 62.18        | 2,169.03               | 2,108.43                | 60.60                     | 35.794            |         |                    |           |
| 9,100.00                                                                                | 9,087.51              | 5,966.00              | 5,965.11              | 32.76            | 31.17         | 140.05                 | -1.62                               | 62.18        | 2,070.86               | 2,009.84                | 61.03                     | 33.933            |         |                    |           |
| 9,200.00                                                                                | 9,187.51              | 5,966.00              | 5,965.11              | 33.11            | 31.52         | 140.05                 | -1.62                               | 62.18        | 1,972.88               | 1,911.40                | 61.48                     | 32.089            |         |                    |           |
| 9,300.00                                                                                | 9,287.51              | 5,966.00              | 5,965.11              | 33.46            | 31.87         | 140.05                 | -1.62                               | 62.18        | 1,875.11               | 1,813.14                | 61.97                     | 30.260            |         |                    |           |
| 9,400.00                                                                                | 9,387.51              | 5,966.00              | 5,965.11              | 33.82            | 32.22         | 140.05                 | -1.62                               | 62.18        | 1,777.59               | 1,715.10                | 62.49                     | 28.448            |         |                    |           |
| 9,500.00                                                                                | 9,487.51              | 5,966.00              | 5,965.11              | 34.17            | 32.57         | 140.05                 | -1.62                               | 62.18        | 1,680.36               | 1,617.31                | 63.05                     | 26.652            |         |                    |           |
| 9,600.00                                                                                | 9,587.51              | 5,966.00              | 5,965.11              | 34.52            | 32.92         | 140.05                 | -1.62                               | 62.18        | 1,583.47               | 1,519.80                | 63.66                     | 24.872            |         |                    |           |
| 9,700.00                                                                                | 9,687.51              | 5,966.00              | 5,965.11              | 34.87            | 33.27         | 140.05                 | -1.62                               | 62.18        | 1,486.99               | 1,422.65                | 64.35                     | 23.109            |         |                    |           |
| 9,800.00                                                                                | 9,787.51              | 5,966.00              | 5,965.11              | 35.23            | 33.62         | 140.05                 | -1.62                               | 62.18        | 1,391.02               | 1,325.91                | 65.11                     | 21.365            |         |                    |           |
| 9,900.00                                                                                | 9,887.51              | 5,966.00              | 5,965.11              | 35.58            | 33.97         | 140.05                 | -1.62                               | 62.18        | 1,295.65               | 1,229.68                | 65.97                     | 19.639            |         |                    |           |

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



# MS Directional Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #2H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 100-MWD                                                                 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 10,000.00                                                                               | 9,987.51              | 15,660.00             | 11,101.11             | 35.93            | 88.30         | 140.05                 | -1.62                               | 62.18        | 1,201.04               | 1,134.07                | 66.97                     | 17.934            |                              |
| 10,100.00                                                                               | 10,087.51             | 15,660.00             | 11,101.11             | 36.28            | 88.30         | 140.05                 | -1.62                               | 62.18        | 1,107.37               | 1,039.23                | 68.14                     | 16.252            |                              |
| 10,200.00                                                                               | 10,187.51             | 15,660.00             | 11,101.11             | 36.64            | 88.30         | 140.05                 | -1.62                               | 62.18        | 1,014.91               | 945.39                  | 69.53                     | 14.597            |                              |
| 10,300.00                                                                               | 10,287.51             | 15,660.00             | 11,101.11             | 36.99            | 88.30         | 140.05                 | -1.62                               | 62.18        | 924.03                 | 852.81                  | 71.22                     | 12.975            |                              |
| 10,400.00                                                                               | 10,387.51             | 15,660.00             | 11,101.11             | 37.34            | 88.30         | 140.05                 | -1.62                               | 62.18        | 835.23                 | 761.93                  | 73.30                     | 11.395            |                              |
| 10,500.00                                                                               | 10,487.51             | 15,660.00             | 11,101.11             | 37.70            | 88.30         | 140.05                 | -1.62                               | 62.18        | 749.26                 | 673.35                  | 75.91                     | 9.870             |                              |
| 10,600.00                                                                               | 10,587.51             | 15,660.00             | 11,101.11             | 38.05            | 88.30         | 140.05                 | -1.62                               | 62.18        | 667.21                 | 587.99                  | 79.21                     | 8.423             |                              |
| 10,700.00                                                                               | 10,687.51             | 15,660.00             | 11,101.11             | 38.41            | 88.30         | 140.05                 | -1.62                               | 62.18        | 590.71                 | 507.35                  | 83.37                     | 7.086             |                              |
| 10,800.00                                                                               | 10,787.51             | 15,660.00             | 11,101.11             | 38.76            | 88.30         | 140.05                 | -1.62                               | 62.18        | 522.23                 | 433.79                  | 88.44                     | 5.905             |                              |
| 10,900.00                                                                               | 10,887.51             | 15,660.00             | 11,101.11             | 39.11            | 88.30         | 140.05                 | -1.62                               | 62.18        | 465.30                 | 371.12                  | 94.18                     | 4.941             |                              |
| 11,000.00                                                                               | 10,987.51             | 15,660.00             | 11,101.11             | 39.47            | 88.30         | 140.05                 | -1.62                               | 62.18        | 424.60                 | 325.00                  | 99.60                     | 4.263             |                              |
| 11,100.00                                                                               | 11,087.51             | 15,660.00             | 11,101.11             | 39.82            | 88.30         | 140.05                 | -1.62                               | 62.18        | 405.04                 | 302.04                  | 103.00                    | 3.932             |                              |
| 11,131.10                                                                               | 11,118.61             | 15,660.00             | 11,101.11             | 39.93            | 88.30         | 140.05                 | -1.62                               | 62.18        | 403.85                 | 300.47                  | 103.38                    | 3.906 CC, ES, SF  |                              |
| 11,200.00                                                                               | 11,187.51             | 15,660.00             | 11,101.11             | 40.18            | 88.30         | 140.05                 | -1.62                               | 62.18        | 409.68                 | 306.73                  | 102.95                    | 3.979             |                              |
| 11,300.00                                                                               | 11,287.51             | 15,660.00             | 11,101.11             | 40.53            | 88.30         | 140.05                 | -1.62                               | 62.18        | 437.74                 | 338.02                  | 99.73                     | 4.389             |                              |
| 11,400.00                                                                               | 11,387.51             | 15,660.00             | 11,101.11             | 40.88            | 88.30         | 140.05                 | -1.62                               | 62.18        | 485.18                 | 390.20                  | 94.98                     | 5.108             |                              |
| 11,500.00                                                                               | 11,487.51             | 15,660.00             | 11,101.11             | 41.24            | 88.30         | 140.05                 | -1.62                               | 62.18        | 546.97                 | 456.75                  | 90.22                     | 6.062             |                              |
| 11,600.00                                                                               | 11,587.51             | 15,660.00             | 11,101.11             | 41.59            | 88.30         | 140.05                 | -1.62                               | 62.18        | 618.83                 | 532.66                  | 86.18                     | 7.181             |                              |
| 11,700.00                                                                               | 11,687.51             | 15,660.00             | 11,101.11             | 41.95            | 88.30         | 140.05                 | -1.62                               | 62.18        | 697.66                 | 614.67                  | 82.99                     | 8.407             |                              |
| 11,800.00                                                                               | 11,787.51             | 15,660.00             | 11,101.11             | 42.30            | 88.30         | 140.05                 | -1.62                               | 62.18        | 781.35                 | 700.78                  | 80.58                     | 9.697             |                              |
| 11,900.00                                                                               | 11,887.51             | 15,660.00             | 11,101.11             | 42.66            | 88.30         | 140.05                 | -1.62                               | 62.18        | 868.50                 | 789.72                  | 78.78                     | 11.024            |                              |
| 11,907.73                                                                               | 11,895.24             | 15,660.00             | 11,101.11             | 42.68            | 88.30         | 140.05                 | -1.62                               | 62.18        | 875.35                 | 796.69                  | 78.66                     | 11.128            |                              |
| 11,950.00                                                                               | 11,937.47             | 15,660.00             | 11,101.11             | 42.82            | 88.30         | 139.91                 | -1.62                               | 62.18        | 912.50                 | 834.44                  | 78.06                     | 11.690            |                              |
| 12,000.00                                                                               | 11,987.11             | 15,660.00             | 11,101.11             | 42.97            | 88.30         | 139.37                 | -1.62                               | 62.18        | 955.42                 | 878.01                  | 77.40                     | 12.343            |                              |
| 12,050.00                                                                               | 12,036.05             | 15,660.00             | 11,101.11             | 43.12            | 88.30         | 138.41                 | -1.62                               | 62.18        | 997.07                 | 920.26                  | 76.81                     | 12.980            |                              |
| 12,100.00                                                                               | 12,083.92             | 15,660.00             | 11,101.11             | 43.25            | 88.30         | 136.98                 | -1.62                               | 62.18        | 1,037.32               | 961.04                  | 76.29                     | 13.598            |                              |
| 12,150.00                                                                               | 12,130.35             | 15,660.00             | 11,101.11             | 43.37            | 88.30         | 135.02                 | -1.62                               | 62.18        | 1,076.03               | 1,000.22                | 75.81                     | 14.193            |                              |
| 12,200.00                                                                               | 12,175.00             | 15,660.00             | 11,101.11             | 43.49            | 88.30         | 132.44                 | -1.62                               | 62.18        | 1,113.08               | 1,037.69                | 75.39                     | 14.765            |                              |
| 12,250.00                                                                               | 12,217.51             | 15,660.00             | 11,101.11             | 43.59            | 88.30         | 129.12                 | -1.62                               | 62.18        | 1,148.36               | 1,073.35                | 75.01                     | 15.309            |                              |
| 12,300.00                                                                               | 12,257.57             | 15,660.00             | 11,101.11             | 43.68            | 88.30         | 124.93                 | -1.62                               | 62.18        | 1,181.78               | 1,107.10                | 74.68                     | 15.824            |                              |
| 12,350.00                                                                               | 12,294.88             | 15,660.00             | 11,101.11             | 43.76            | 88.30         | 119.69                 | -1.62                               | 62.18        | 1,213.25               | 1,138.85                | 74.40                     | 16.307            |                              |
| 12,400.00                                                                               | 12,329.14             | 15,660.00             | 11,101.11             | 43.83            | 88.30         | 113.25                 | -1.62                               | 62.18        | 1,242.67               | 1,168.51                | 74.16                     | 16.756            |                              |
| 12,450.00                                                                               | 12,360.10             | 15,660.00             | 11,101.11             | 43.90            | 88.30         | 105.52                 | -1.62                               | 62.18        | 1,269.98               | 1,196.01                | 73.98                     | 17.168            |                              |
| 12,500.00                                                                               | 12,387.52             | 15,660.00             | 11,101.11             | 43.96            | 88.30         | 96.60                  | -1.62                               | 62.18        | 1,295.11               | 1,221.28                | 73.84                     | 17.540            |                              |
| 12,550.00                                                                               | 12,411.20             | 15,619.28             | 11,102.41             | 44.03            | 87.68         | 95.81                  | -42.26                              | 64.48        | 1,317.37               | 1,243.82                | 73.55                     | 17.910            |                              |
| 12,600.00                                                                               | 12,430.95             | 15,580.81             | 11,103.49             | 44.11            | 87.11         | 94.14                  | -80.66                              | 66.49        | 1,335.88               | 1,262.59                | 73.29                     | 18.227            |                              |
| 12,650.00                                                                               | 12,446.62             | 15,537.72             | 11,104.42             | 44.20            | 86.47         | 93.15                  | -123.69                             | 68.49        | 1,350.61               | 1,277.60                | 73.01                     | 18.498            |                              |
| 12,700.00                                                                               | 12,458.10             | 15,493.11             | 11,105.26             | 44.29            | 85.80         | 92.24                  | -168.25                             | 70.61        | 1,361.36               | 1,288.61                | 72.74                     | 18.714            |                              |
| 12,707.73                                                                               | 12,459.49             | 15,486.14             | 11,105.38             | 44.31            | 85.70         | 92.10                  | -175.20                             | 70.95        | 1,362.66               | 1,289.96                | 72.70                     | 18.743            |                              |
| 12,750.00                                                                               | 12,465.91             | 15,454.17             | 11,105.81             | 44.39            | 85.22         | 89.97                  | -207.13                             | 72.47        | 1,368.74               | 1,296.22                | 72.52                     | 18.874            |                              |
| 12,800.00                                                                               | 12,471.10             | 15,417.36             | 11,105.95             | 44.50            | 84.68         | 87.20                  | -243.91                             | 74.08        | 1,374.01               | 1,301.69                | 72.32                     | 19.000            |                              |
| 12,850.00                                                                               | 12,473.69             | 15,379.27             | 11,105.69             | 44.61            | 84.11         | 84.70                  | -281.97                             | 75.59        | 1,377.19               | 1,305.07                | 72.12                     | 19.096            |                              |
| 12,874.40                                                                               | 12,474.00             | 15,357.44             | 11,105.44             | 44.67            | 83.79         | 84.17                  | -303.78                             | 76.46        | 1,377.93               | 1,305.92                | 72.01                     | 19.136            |                              |
| 12,900.00                                                                               | 12,474.00             | 15,334.54             | 11,105.14             | 44.73            | 83.45         | 83.61                  | -326.66                             | 77.42        | 1,378.43               | 1,306.54                | 71.89                     | 19.173            |                              |
| 13,000.00                                                                               | 12,474.00             | 15,238.46             | 11,103.62             | 45.01            | 82.04         | 82.87                  | -422.63                             | 81.82        | 1,380.75               | 1,309.32                | 71.43                     | 19.329            |                              |
| 13,100.00                                                                               | 12,474.00             | 15,140.00             | 11,101.98             | 45.35            | 80.59         | 82.62                  | -520.98                             | 85.99        | 1,383.11               | 1,312.13                | 70.98                     | 19.486            |                              |
| 13,200.00                                                                               | 12,474.00             | 15,007.00             | 11,101.03             | 45.75            | 78.66         | 89.39                  | -653.90                             | 90.33        | 1,384.31               | 1,314.00                | 70.31                     | 19.688            |                              |
| 13,300.00                                                                               | 12,474.00             | 14,912.00             | 11,101.40             | 46.20            | 77.29         | 88.37                  | -748.82                             | 94.02        | 1,384.60               | 1,314.66                | 69.94                     | 19.798            |                              |
| 13,400.00                                                                               | 12,474.00             | 14,831.45             | 11,100.49             | 46.71            | 76.13         | 84.50                  | -829.30                             | 97.28        | 1,386.27               | 1,316.59                | 69.68                     | 19.896            |                              |
| 13,500.00                                                                               | 12,474.00             | 14,695.37             | 11,101.02             | 47.26            | 74.19         | 91.66                  | -965.31                             | 101.41       | 1,386.23               | 1,317.16                | 69.07                     | 20.070            |                              |
| 13,537.47                                                                               | 12,474.00             | 14,668.22             | 11,101.25             | 47.49            | 73.81         | 89.62                  | -992.44                             | 102.19       | 1,386.09               | 1,317.09                | 69.01                     | 20.087            |                              |
| 13,600.00                                                                               | 12,474.00             | 14,621.78             | 11,101.18             | 47.87            | 73.15         | 86.47                  | -1,038.87                           | 103.57       | 1,386.48               | 1,317.58                | 68.89                     | 20.125            |                              |

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



MS Directional  
Anticollision Report



|                    |                                 |                              |                                    |
|--------------------|---------------------------------|------------------------------|------------------------------------|
| Company:           | Matador Resources               | Local Co-ordinate Reference: | Well Charles Ling Fed Com #212H    |
| Project:           | Lea County, New Mexico (NAD 27) | TVD Reference:               | WELL @ 3639.50usft (Patterson 282) |
| Reference Site:    | Charles Ling Fed Com            | MD Reference:                | WELL @ 3639.50usft (Patterson 282) |
| Site Error:        | 0.00 usft                       | North Reference:             | Grid                               |
| Reference Well:    | Charles Ling Fed Com #212H      | Survey Calculation Method:   | Minimum Curvature                  |
| Well Error:        | 0.00 usft                       | Output errors are at         | 2.00 sigma                         |
| Reference Wellbore | Wellbore #1                     | Database:                    | EDM 5000.14 Conroe DB              |
| Reference Design:  | Design #2                       | Offset TVD Reference:        | Offset Datum                       |

| Offset Design Roy Batty Federal COM - Roy Batty Federal COM #2H - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                   |         | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|-------------------|---------|--------------------|-----------|
| Survey Program: 100-MWD                                                                 |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                   |         | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation (usft) |         |                    |           |
| 13,700.00                                                                               | 12,474.00             | 14,532.00             | 11,100.30             | 48.53            | 71.89         | 84.50                  | -1,128.61                           | 106.08       | 1,387.90               | 1,319.26                | 68.64             | 20.221  |                    |           |
| 13,800.00                                                                               | 12,474.00             | 14,448.59             | 11,098.82             | 49.23            | 70.73         | 81.34                  | -1,211.98                           | 108.11       | 1,390.08               | 1,321.63                | 68.44             | 20.310  |                    |           |
| 13,900.00                                                                               | 12,474.00             | 14,306.34             | 11,097.14             | 49.97            | 68.77         | 89.48                  | -1,354.20                           | 109.92       | 1,391.24               | 1,323.42                | 67.82             | 20.514  |                    |           |
| 14,000.00                                                                               | 12,474.00             | 14,152.00             | 11,099.58             | 50.76            | 66.68         | 99.88                  | -1,508.49                           | 110.95       | 1,389.89               | 1,322.71                | 67.18             | 20.689  |                    |           |
| 14,100.00                                                                               | 12,474.00             | 14,073.48             | 11,102.80             | 51.59            | 65.62         | 95.75                  | -1,586.90                           | 113.44       | 1,386.50               | 1,319.39                | 67.11             | 20.659  |                    |           |
| 14,200.00                                                                               | 12,474.00             | 13,992.42             | 11,104.78             | 52.46            | 64.53         | 92.09                  | -1,667.85                           | 117.22       | 1,384.96               | 1,317.88                | 67.08             | 20.645  |                    |           |
| 14,300.00                                                                               | 12,474.00             | 13,894.98             | 11,106.31             | 53.37            | 63.24         | 91.56                  | -1,765.17                           | 121.71       | 1,384.30               | 1,317.32                | 66.98             | 20.667  |                    |           |
| 14,376.39                                                                               | 12,474.00             | 13,828.82             | 11,107.40             | 54.09            | 62.37         | 89.62                  | -1,831.23                           | 125.26       | 1,383.88               | 1,316.89                | 66.98             | 20.660  |                    |           |
| 14,400.00                                                                               | 12,474.00             | 13,810.68             | 11,107.56             | 54.31            | 62.14         | 88.61                  | -1,849.34                           | 126.21       | 1,383.92               | 1,316.92                | 67.00             | 20.656  |                    |           |
| 14,500.00                                                                               | 12,474.00             | 13,734.69             | 11,107.38             | 55.28            | 61.15         | 84.22                  | -1,925.23                           | 130.16       | 1,385.17               | 1,318.08                | 67.10             | 20.645  |                    |           |
| 14,600.00                                                                               | 12,474.00             | 13,656.81             | 11,105.90             | 56.29            | 60.15         | 80.33                  | -2,002.97                           | 134.71       | 1,388.19               | 1,320.97                | 67.22             | 20.652  |                    |           |
| 14,700.00                                                                               | 12,474.00             | 13,548.62             | 11,102.68             | 57.32            | 58.79         | 81.88                  | -2,110.94                           | 140.77       | 1,392.27               | 1,325.13                | 67.14             | 20.738  |                    |           |
| 14,800.00                                                                               | 12,474.00             | 13,420.53             | 11,102.22             | 58.39            | 57.20         | 86.85                  | -2,238.86                           | 147.14       | 1,393.41               | 1,326.46                | 66.95             | 20.812  |                    |           |
| 14,900.00                                                                               | 12,474.00             | 13,341.21             | 11,101.93             | 59.48            | 56.24         | 83.32                  | -2,318.01                           | 152.27       | 1,395.17               | 1,328.02                | 67.15             | 20.776  |                    |           |
| 15,000.00                                                                               | 12,474.00             | 13,242.64             | 11,100.14             | 60.60            | 55.06         | 83.16                  | -2,416.35                           | 158.85       | 1,398.37               | 1,331.12                | 67.25             | 20.793  |                    |           |
| 15,100.00                                                                               | 12,474.00             | 13,126.15             | 11,099.70             | 61.74            | 53.70         | 85.97                  | -2,532.58                           | 166.57       | 1,400.15               | 1,332.88                | 67.27             | 20.814  |                    |           |
| 15,200.00                                                                               | 12,474.00             | 12,989.49             | 11,102.30             | 62.90            | 52.16         | 91.96                  | -2,668.92                           | 175.32       | 1,399.49               | 1,332.26                | 67.23             | 20.816  |                    |           |
| 15,237.52                                                                               | 12,474.00             | 12,966.33             | 11,102.74             | 63.34            | 51.90         | 89.62                  | -2,692.04                           | 176.66       | 1,399.30               | 1,331.92                | 67.38             | 20.767  |                    |           |
| 15,300.00                                                                               | 12,474.00             | 12,916.00             | 11,102.81             | 64.08            | 51.34         | 87.66                  | -2,742.29                           | 179.49       | 1,399.91               | 1,332.36                | 67.56             | 20.722  |                    |           |
| 15,400.00                                                                               | 12,474.00             | 12,829.48             | 11,101.86             | 65.29            | 50.42         | 85.53                  | -2,828.72                           | 183.34       | 1,401.85               | 1,334.05                | 67.80             | 20.676  |                    |           |
| 15,500.00                                                                               | 12,474.00             | 12,694.61             | 11,100.85             | 66.51            | 49.02         | 91.05                  | -2,963.51                           | 187.22       | 1,403.39               | 1,335.66                | 67.73             | 20.720  |                    |           |
| 15,600.00                                                                               | 12,474.00             | 12,565.80             | 11,103.63             | 67.75            | 47.75         | 95.55                  | -3,092.26                           | 189.34       | 1,401.52               | 1,333.78                | 67.74             | 20.689  |                    |           |
| 15,700.00                                                                               | 12,474.00             | 12,464.68             | 11,106.69             | 69.01            | 46.79         | 95.70                  | -3,193.31                           | 191.27       | 1,398.92               | 1,330.96                | 67.96             | 20.584  |                    |           |
| 15,800.00                                                                               | 12,474.00             | 12,390.85             | 11,108.81             | 70.29            | 46.12         | 91.60                  | -3,267.08                           | 193.36       | 1,396.82               | 1,328.44                | 68.37             | 20.429  |                    |           |
| 15,835.55                                                                               | 12,474.00             | 12,367.96             | 11,109.08             | 70.75            | 45.92         | 89.62                  | -3,289.96                           | 194.10       | 1,396.66               | 1,328.11                | 68.55             | 20.374  |                    |           |
| 15,900.00                                                                               | 12,474.00             | 12,310.82             | 11,109.14             | 71.58            | 45.42         | 88.48                  | -3,347.07                           | 196.01       | 1,397.02               | 1,328.23                | 68.79             | 20.310  |                    |           |
| 16,000.00                                                                               | 12,474.00             | 12,217.16             | 11,109.31             | 72.89            | 44.64         | 87.51                  | -3,440.70                           | 198.35       | 1,397.36               | 1,328.23                | 69.13             | 20.214  |                    |           |
| 16,100.00                                                                               | 12,474.00             | 12,144.53             | 11,108.02             | 74.20            | 44.06         | 83.32                  | -3,513.30                           | 199.81       | 1,399.40               | 1,329.79                | 69.61             | 20.102  |                    |           |
| 16,200.00                                                                               | 12,474.00             | 12,047.06             | 11,105.10             | 75.54            | 43.32         | 82.95                  | -3,610.71                           | 201.72       | 1,402.62               | 1,332.67                | 69.96             | 20.050  |                    |           |
| 16,300.00                                                                               | 12,474.00             | 11,926.02             | 11,103.51             | 76.88            | 42.48         | 86.17                  | -3,731.70                           | 204.71       | 1,404.25               | 1,334.04                | 70.22             | 19.999  |                    |           |
| 16,400.00                                                                               | 12,474.00             | 11,843.08             | 11,101.85             | 78.24            | 41.94         | 83.60                  | -3,814.60                           | 206.47       | 1,406.55               | 1,335.82                | 70.73             | 19.887  |                    |           |
| 16,500.00                                                                               | 12,474.00             | 11,681.00             | 11,099.39             | 79.61            | 41.00         | 92.99                  | -3,976.62                           | 209.35       | 1,409.02               | 1,338.20                | 70.82             | 19.896  |                    |           |
| 16,600.00                                                                               | 12,474.00             | 11,595.99             | 11,100.54             | 80.99            | 40.58         | 90.72                  | -4,061.61                           | 210.51       | 1,407.91               | 1,336.53                | 71.39             | 19.722  |                    |           |
| 16,643.18                                                                               | 12,474.00             | 11,560.09             | 11,100.78             | 81.58            | 40.42         | 89.62                  | -4,097.50                           | 211.23       | 1,407.80               | 1,336.15                | 71.65             | 19.648  |                    |           |
| 16,700.00                                                                               | 12,474.00             | 11,512.92             | 11,100.74             | 82.37            | 40.21         | 88.17                  | -4,144.66                           | 212.01       | 1,408.00               | 1,335.99                | 72.00             | 19.555  |                    |           |
| 16,800.00                                                                               | 12,474.00             | 11,439.19             | 11,099.85             | 83.77            | 39.91         | 84.22                  | -4,218.38                           | 212.79       | 1,409.36               | 1,336.69                | 72.67             | 19.393  |                    |           |
| 16,900.00                                                                               | 12,474.00             | 11,396.00             | 11,097.79             | 85.18            | 39.75         | 75.91                  | -4,261.52                           | 213.31       | 1,414.00               | 1,340.45                | 73.55             | 19.225  |                    |           |
| 17,000.00                                                                               | 12,474.00             | 11,365.00             | 11,094.84             | 86.59            | 39.64         | 66.56                  | -4,292.37                           | 213.54       | 1,423.04               | 1,348.49                | 74.55             | 19.089  |                    |           |
| 17,100.00                                                                               | 12,474.00             | 11,321.97             | 11,089.15             | 88.02            | 39.49         | 59.66                  | -4,335.02                           | 213.74       | 1,436.09               | 1,360.61                | 75.48             | 19.025  |                    |           |
| 17,200.00                                                                               | 12,474.00             | 11,293.00             | 11,083.90             | 89.45            | 39.40         | 52.22                  | -4,363.51                           | 213.96       | 1,453.71               | 1,377.15                | 76.56             | 18.988  |                    |           |
| 17,226.60                                                                               | 12,474.00             | 11,285.94             | 11,082.40             | 89.83            | 39.37         | 50.40                  | -4,370.41                           | 214.03       | 1,459.20               | 1,382.34                | 76.85             | 18.987  |                    |           |
| 17,227.36                                                                               | 12,474.00             | 11,285.74             | 11,082.35             | 89.85            | 39.37         | 50.35                  | -4,370.61                           | 214.04       | 1,459.36               | 1,383.32                | 76.04             | 19.191  |                    |           |

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



# MS Directional Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Stevens "11" - Stevens 11 1 - Wellbore #1 - Surveys |                             |                             |                             |                     |                  |                              |                        |                 |                              |                               |                                 | Offset Site Error:   | 0.00 usft |
|-------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|-----------|
| Survey Program: 170-INC-ONLY                                      |                             |                             |                             |                     |                  |                              |                        |                 |                              |                               |                                 | Offset Well Error:   | 0.00 usft |
| Reference                                                         |                             | Offset                      |                             | Semi Major Axis     |                  | Azimuth<br>from North<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning   |
| Measured<br>Depth<br>(usft)                                       | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |           |
| 0.00                                                              | 0.00                        | 7.50                        | 7.50                        | 0.00                | 0.06             | 177.17                       | -2,939.00              | 145.51          | 2,942.60                     |                               |                                 |                      |           |
| 100.00                                                            | 100.00                      | 107.50                      | 107.50                      | 0.13                | 0.90             | 177.17                       | -2,939.00              | 145.51          | 2,942.60                     | 2,941.57                      | 1.03                            | 2,870.055            |           |
| 200.00                                                            | 200.00                      | 207.50                      | 207.50                      | 0.49                | 2.13             | 177.17                       | -2,939.00              | 145.51          | 2,942.60                     | 2,939.98                      | 2.62                            | 1,123.560            |           |
| 280.32                                                            | 280.32                      | 287.56                      | 287.55                      | 0.77                | 3.66             | 177.17                       | -2,938.62              | 145.51          | 2,942.22                     | 2,937.79                      | 4.43                            | 664.121              |           |
| 300.00                                                            | 300.00                      | 304.45                      | 304.44                      | 0.85                | 3.98             | 177.17                       | -2,938.63              | 145.51          | 2,942.23                     | 2,937.41                      | 4.82                            | 610.149              |           |
| 400.00                                                            | 400.00                      | 407.52                      | 407.50                      | 1.20                | 5.94             | 177.17                       | -2,939.00              | 145.51          | 2,942.60                     | 2,935.45                      | 7.14                            | 412.014              |           |
| 499.50                                                            | 499.50                      | 507.02                      | 507.00                      | 1.56                | 7.83             | 177.17                       | -2,938.77              | 145.51          | 2,942.37                     | 2,932.97                      | 9.39                            | 313.249              |           |
| 500.00                                                            | 500.00                      | 507.46                      | 507.44                      | 1.56                | 7.84             | 177.17                       | -2,938.77              | 145.51          | 2,942.37                     | 2,932.96                      | 9.40                            | 312.907              |           |
| 600.00                                                            | 600.00                      | 596.58                      | 596.56                      | 1.92                | 9.54             | 177.17                       | -2,938.93              | 145.51          | 2,942.55                     | 2,931.10                      | 11.46                           | 256.799              |           |
| 700.00                                                            | 699.99                      | 707.09                      | 707.06                      | 2.28                | 11.77            | 177.16                       | -2,938.69              | 145.51          | 2,943.05                     | 2,929.01                      | 14.04                           | 209.576              |           |
| 800.00                                                            | 799.96                      | 807.51                      | 807.46                      | 2.64                | 13.81            | 177.13                       | -2,939.00              | 145.51          | 2,945.63                     | 2,929.18                      | 16.44                           | 179.147              |           |
| 900.00                                                            | 899.86                      | 907.42                      | 907.36                      | 2.99                | 15.85            | 177.09                       | -2,939.00              | 145.51          | 2,949.41                     | 2,930.57                      | 18.84                           | 156.561              |           |
| 999.81                                                            | 999.49                      | 1,007.04                    | 1,006.99                    | 3.35                | 17.88            | 177.03                       | -2,939.00              | 145.51          | 2,954.71                     | 2,933.48                      | 21.23                           | 139.177              |           |
| 1,000.00                                                          | 999.68                      | 1,007.23                    | 1,007.18                    | 3.35                | 17.88            | 177.03                       | -2,939.00              | 145.51          | 2,954.72                     | 2,933.48                      | 21.23                           | 139.148              |           |
| 1,100.00                                                          | 1,099.43                    | 1,097.15                    | 1,097.08                    | 3.72                | 19.72            | 176.96                       | -2,938.19              | 145.51          | 2,959.99                     | 2,936.56                      | 23.43                           | 126.340              |           |
| 1,200.00                                                          | 1,199.19                    | 1,186.27                    | 1,186.20                    | 4.08                | 21.53            | 176.90                       | -2,938.65              | 145.51          | 2,966.56                     | 2,940.96                      | 25.61                           | 115.852              |           |
| 1,300.00                                                          | 1,298.95                    | 1,306.55                    | 1,306.45                    | 4.45                | 23.93            | 176.83                       | -2,939.00              | 145.51          | 2,972.91                     | 2,944.54                      | 28.37                           | 104.796              |           |
| 1,400.00                                                          | 1,398.70                    | 1,406.31                    | 1,406.20                    | 4.82                | 25.90            | 176.77                       | -2,939.00              | 145.51          | 2,978.99                     | 2,948.29                      | 30.70                           | 97.050               |           |
| 1,500.00                                                          | 1,498.46                    | 1,504.29                    | 1,504.18                    | 5.18                | 27.83            | 176.70                       | -2,938.18              | 145.51          | 2,984.25                     | 2,951.26                      | 32.99                           | 90.466               |           |
| 1,600.00                                                          | 1,598.22                    | 1,596.83                    | 1,596.72                    | 5.55                | 29.65            | 176.63                       | -2,938.35              | 145.51          | 2,990.51                     | 2,955.34                      | 35.17                           | 85.024               |           |
| 1,700.00                                                          | 1,697.97                    | 1,689.35                    | 1,689.24                    | 5.92                | 31.47            | 176.57                       | -2,938.74              | 145.51          | 2,997.02                     | 2,959.66                      | 37.36                           | 80.227               |           |
| 1,800.00                                                          | 1,797.73                    | 1,805.38                    | 1,805.23                    | 6.29                | 33.71            | 176.50                       | -2,939.00              | 145.51          | 3,003.32                     | 2,963.36                      | 39.95                           | 75.168               |           |
| 1,900.00                                                          | 1,897.48                    | 1,905.13                    | 1,904.98                    | 6.66                | 35.60            | 176.44                       | -2,939.00              | 145.51          | 3,009.41                     | 2,967.20                      | 42.21                           | 71.292               |           |
| 2,000.00                                                          | 1,997.24                    | 2,002.90                    | 2,002.74                    | 7.03                | 37.46            | 176.37                       | -2,938.20              | 145.51          | 3,014.71                     | 2,970.28                      | 44.43                           | 67.849               |           |
| 2,100.00                                                          | 2,097.00                    | 2,095.25                    | 2,095.10                    | 7.41                | 39.22            | 176.31                       | -2,938.37              | 145.51          | 3,021.00                     | 2,974.45                      | 46.55                           | 64.898               |           |
| 2,200.00                                                          | 2,196.75                    | 2,187.58                    | 2,187.42                    | 7.78                | 40.97            | 176.25                       | -2,938.77              | 145.51          | 3,027.54                     | 2,978.87                      | 48.67                           | 62.211               |           |
| 2,300.00                                                          | 2,296.51                    | 2,304.19                    | 2,304.01                    | 8.15                | 43.19            | 176.18                       | -2,939.00              | 145.51          | 3,033.82                     | 2,982.57                      | 51.25                           | 59.199               |           |
| 2,400.00                                                          | 2,396.27                    | 2,403.94                    | 2,403.77                    | 8.52                | 45.08            | 176.12                       | -2,939.00              | 145.51          | 3,039.93                     | 2,986.42                      | 53.51                           | 56.813               |           |
| 2,500.00                                                          | 2,496.02                    | 2,502.15                    | 2,501.97                    | 8.89                | 46.95            | 176.06                       | -2,938.46              | 145.51          | 3,045.51                     | 2,989.77                      | 55.74                           | 54.639               |           |
| 2,600.00                                                          | 2,595.78                    | 2,596.86                    | 2,596.67                    | 9.26                | 48.75            | 175.99                       | -2,938.59              | 145.51          | 3,051.76                     | 2,993.86                      | 57.90                           | 52.706               |           |
| 2,700.00                                                          | 2,695.54                    | 2,691.54                    | 2,691.36                    | 9.64                | 50.55            | 175.93                       | -2,938.87              | 145.51          | 3,058.18                     | 2,998.12                      | 60.06                           | 50.915               |           |
| 2,800.00                                                          | 2,795.29                    | 2,803.00                    | 2,802.79                    | 10.01               | 52.84            | 175.87                       | -2,939.00              | 145.51          | 3,064.41                     | 3,001.69                      | 62.72                           | 48.861               |           |
| 2,900.00                                                          | 2,895.05                    | 2,902.76                    | 2,902.55                    | 10.38               | 54.94            | 175.81                       | -2,939.00              | 145.51          | 3,070.54                     | 3,005.36                      | 65.18                           | 47.105               |           |
| 3,000.00                                                          | 2,994.81                    | 3,000.12                    | 2,999.91                    | 10.75               | 56.99            | 175.75                       | -2,938.19              | 145.51          | 3,075.88                     | 3,008.27                      | 67.60                           | 45.500               |           |
| 3,100.00                                                          | 3,094.56                    | 3,092.41                    | 3,092.20                    | 11.12               | 58.94            | 175.68                       | -2,938.38              | 145.51          | 3,082.21                     | 3,012.30                      | 69.91                           | 44.088               |           |
| 3,200.00                                                          | 3,194.32                    | 3,184.68                    | 3,184.46                    | 11.50               | 60.89            | 175.62                       | -2,938.79              | 145.51          | 3,088.79                     | 3,016.57                      | 72.22                           | 42.770               |           |
| 3,300.00                                                          | 3,294.08                    | 3,300.24                    | 3,299.95                    | 11.87               | 63.33            | 175.56                       | -2,938.57              | 145.51          | 3,094.67                     | 3,019.65                      | 75.03                           | 41.248               |           |
| 3,400.00                                                          | 3,393.83                    | 3,401.64                    | 3,401.33                    | 12.24               | 65.43            | 175.50                       | -2,939.00              | 145.51          | 3,101.24                     | 3,023.75                      | 77.49                           | 40.020               |           |
| 3,500.00                                                          | 3,493.59                    | 3,501.40                    | 3,501.09                    | 12.61               | 67.40            | 175.44                       | -2,939.00              | 145.51          | 3,107.39                     | 3,027.57                      | 79.82                           | 38.929               |           |
| 3,600.00                                                          | 3,593.35                    | 3,597.34                    | 3,597.03                    | 12.99               | 69.29            | 175.38                       | -2,938.40              | 145.51          | 3,112.96                     | 3,030.88                      | 82.07                           | 37.929               |           |
| 3,700.00                                                          | 3,693.10                    | 3,687.36                    | 3,687.04                    | 13.36               | 71.06            | 175.32                       | -2,938.65              | 145.51          | 3,119.39                     | 3,035.18                      | 84.21                           | 37.043               |           |
| 3,800.00                                                          | 3,792.86                    | 3,800.70                    | 3,800.36                    | 13.73               | 73.29            | 175.26                       | -2,939.00              | 145.51          | 3,125.87                     | 3,039.06                      | 86.81                           | 36.009               |           |
| 3,900.00                                                          | 3,892.62                    | 3,893.71                    | 3,893.36                    | 14.11               | 75.12            | 175.20                       | -2,938.68              | 145.51          | 3,131.72                     | 3,042.72                      | 89.00                           | 35.187               |           |
| 4,000.00                                                          | 3,992.37                    | 4,000.23                    | 3,999.87                    | 14.48               | 77.25            | 175.14                       | -2,939.00              | 145.51          | 3,138.20                     | 3,046.71                      | 91.49                           | 34.300               |           |
| 4,100.00                                                          | 4,092.13                    | 4,099.99                    | 4,099.63                    | 14.85               | 79.28            | 175.08                       | -2,939.00              | 145.51          | 3,144.37                     | 3,050.48                      | 93.89                           | 33.489               |           |
| 4,200.00                                                          | 4,191.89                    | 4,190.87                    | 4,190.51                    | 15.22               | 81.14            | 175.02                       | -2,938.58              | 145.51          | 3,150.14                     | 3,054.03                      | 96.11                           | 32.777               |           |
| 4,300.00                                                          | 4,291.64                    | 4,299.54                    | 4,299.14                    | 15.60               | 83.43            | 174.96                       | -2,939.00              | 145.51          | 3,156.72                     | 3,057.95                      | 98.77                           | 31.961               |           |
| 4,400.00                                                          | 4,391.40                    | 4,399.30                    | 4,398.90                    | 15.97               | 85.85            | 174.91                       | -2,939.00              | 145.51          | 3,162.90                     | 3,061.35                      | 101.55                          | 31.146               |           |
| 4,500.00                                                          | 4,491.16                    | 4,499.05                    | 4,498.66                    | 16.34               | 88.27            | 174.85                       | -2,939.00              | 145.51          | 3,169.09                     | 3,064.75                      | 104.33                          | 30.374               |           |
| 4,600.00                                                          | 4,590.91                    | 4,598.81                    | 4,598.41                    | 16.72               | 90.69            | 174.79                       | -2,939.00              | 145.51          | 3,175.28                     | 3,068.16                      | 107.12                          | 29.643               |           |
| 4,700.00                                                          | 4,690.67                    | 4,692.80                    | 4,692.38                    | 17.09               | 92.97            | 174.73                       | -2,937.57              | 145.51          | 3,180.05                     | 3,070.30                      | 109.76                          | 28.973               |           |
| 4,800.00                                                          | 4,790.43                    | 4,785.08                    | 4,784.66                    | 17.46               | 95.20            | 174.67                       | -2,937.85              | 145.51          | 3,186.55                     | 3,074.19                      | 112.36                          | 28.361               |           |

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



# MS Directional Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Pr</b>                 | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Error:</b>             | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Error:</b>             | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Stevens "11" - Stevens 11 1 - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | Offset Site Error: 0.00 usft |  |
|-------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|--|
| Survey Program: 170-INC-ONLY                                      |                       |                       |                       |                  |               |                        |                                     |                                     |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |  |
| 4,900.00                                                          | 4,890.18              | 4,877.34              | 4,876.91              | 17.83            | 97.44         | 174.62                 | -2,938.34                           | 145.51                              | 3,193.28               | 3,078.32                | 114.95                    | 27.779            |                              |  |
| 5,000.00                                                          | 4,989.94              | 4,998.08              | 4,997.44              | 18.21            | 100.32        | 174.56                 | -2,939.00                           | 145.51                              | 3,200.06               | 3,081.86                | 118.20                    | 27.073            |                              |  |
| 5,100.00                                                          | 5,089.70              | 5,097.84              | 5,097.20              | 18.58            | 102.60        | 174.50                 | -2,939.00                           | 145.51                              | 3,206.26               | 3,085.42                | 120.85                    | 26.532            |                              |  |
| 5,200.00                                                          | 5,189.45              | 5,171.71              | 5,171.04              | 18.95            | 104.29        | 174.44                 | -2,938.02                           | 145.51                              | 3,211.60               | 3,088.72                | 122.89                    | 26.134            |                              |  |
| 5,300.00                                                          | 5,289.21              | 5,297.43              | 5,296.71              | 19.33            | 106.96        | 174.39                 | -2,939.00                           | 145.51                              | 3,218.68               | 3,092.74                | 125.94                    | 25.558            |                              |  |
| 5,400.00                                                          | 5,388.97              | 5,397.18              | 5,396.47              | 19.70            | 108.84        | 174.33                 | -2,939.00                           | 145.51                              | 3,224.89               | 3,096.71                | 128.18                    | 25.159            |                              |  |
| 5,500.00                                                          | 5,488.72              | 5,491.91              | 5,491.19              | 20.07            | 110.63        | 174.28                 | -2,938.65                           | 145.51                              | 3,230.77               | 3,100.45                | 130.33                    | 24.790            |                              |  |
| 5,600.00                                                          | 5,588.48              | 5,584.42              | 5,583.70              | 20.45            | 112.37        | 174.22                 | -2,938.90                           | 145.51                              | 3,237.26               | 3,104.83                | 132.43                    | 24.445            |                              |  |
| 5,700.00                                                          | 5,688.24              | 5,696.47              | 5,695.74              | 20.82            | 114.56        | 174.17                 | -2,939.00                           | 145.51                              | 3,243.55               | 3,108.57                | 134.98                    | 24.029            |                              |  |
| 5,800.00                                                          | 5,787.99              | 5,796.23              | 5,795.49              | 21.19            | 116.52        | 174.11                 | -2,939.00                           | 145.51                              | 3,249.78               | 3,112.47                | 137.31                    | 23.668            |                              |  |
| 5,900.00                                                          | 5,887.75              | 5,887.47              | 5,886.72              | 21.57            | 118.31        | 174.05                 | -2,938.45                           | 145.51                              | 3,255.47               | 3,116.01                | 139.46                    | 23.343            |                              |  |
| 5,910.95                                                          | 5,898.68              | 5,897.34              | 5,896.60              | 21.61            | 118.50        | 174.05                 | -2,938.47                           | 145.51                              | 3,256.18               | 3,116.49                | 139.70                    | 23.309            |                              |  |
| 6,000.00                                                          | 5,987.57              | 5,977.71              | 5,976.96              | 21.93            | 120.08        | 174.01                 | -2,938.82                           | 145.51                              | 3,261.19               | 3,119.59                | 141.59                    | 23.032            |                              |  |
| 6,100.00                                                          | 6,087.51              | 6,095.78              | 6,095.01              | 22.29            | 122.34        | 173.98                 | -2,939.00                           | 145.51                              | 3,264.29               | 3,120.08                | 144.21                    | 22.635            |                              |  |
| 6,177.49                                                          | 6,165.00              | 6,173.27              | 6,172.50              | 22.56            | 123.80        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,119.05                | 145.95                    | 22.370            |                              |  |
| 6,200.00                                                          | 6,187.51              | 6,195.78              | 6,195.01              | 22.64            | 124.23        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,118.54                | 146.46                    | 22.293            |                              |  |
| 6,300.00                                                          | 6,287.51              | 6,295.78              | 6,295.01              | 22.99            | 126.12        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,116.30                | 148.70                    | 21.957            |                              |  |
| 6,400.00                                                          | 6,387.51              | 6,395.78              | 6,395.01              | 23.33            | 128.01        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,114.06                | 150.94                    | 21.631            |                              |  |
| 6,500.00                                                          | 6,487.51              | 6,495.78              | 6,495.01              | 23.68            | 129.89        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,111.82                | 153.18                    | 21.315            |                              |  |
| 6,584.27                                                          | 6,571.78              | 6,579.99              | 6,579.21              | 23.97            | 131.49        | 173.97                 | -2,937.13                           | 145.51                              | 3,263.14               | 3,108.07                | 155.07                    | 21.043            |                              |  |
| 6,600.00                                                          | 6,587.51              | 6,595.16              | 6,594.38              | 24.02            | 131.77        | 173.97                 | -2,937.13                           | 145.51                              | 3,263.14               | 3,107.73                | 155.41                    | 20.997            |                              |  |
| 6,700.00                                                          | 6,687.51              | 6,691.58              | 6,690.80              | 24.37            | 133.59        | 173.97                 | -2,937.20                           | 145.51                              | 3,263.21               | 3,105.63                | 157.58                    | 20.708            |                              |  |
| 6,800.00                                                          | 6,787.51              | 6,788.01              | 6,787.22              | 24.72            | 135.42        | 173.97                 | -2,937.38                           | 145.51                              | 3,263.40               | 3,103.64                | 159.76                    | 20.427            |                              |  |
| 6,900.00                                                          | 6,887.51              | 6,884.44              | 6,883.65              | 25.06            | 137.24        | 173.97                 | -2,937.66                           | 145.51                              | 3,263.69               | 3,101.76                | 161.93                    | 20.155            |                              |  |
| 7,000.00                                                          | 6,987.51              | 6,980.87              | 6,980.07              | 25.41            | 139.06        | 173.97                 | -2,938.05                           | 145.51                              | 3,264.09               | 3,099.99                | 164.10                    | 19.891            |                              |  |
| 7,100.00                                                          | 7,087.51              | 7,077.30              | 7,076.50              | 25.76            | 140.88        | 173.98                 | -2,938.55                           | 145.51                              | 3,264.61               | 3,098.33                | 166.28                    | 19.634            |                              |  |
| 7,200.00                                                          | 7,187.51              | 7,195.85              | 7,195.01              | 26.11            | 143.12        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,096.12                | 168.88                    | 19.333            |                              |  |
| 7,300.00                                                          | 7,287.51              | 7,295.85              | 7,295.01              | 26.45            | 145.02        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,093.87                | 171.12                    | 19.080            |                              |  |
| 7,374.87                                                          | 7,362.37              | 7,370.70              | 7,369.86              | 26.71            | 146.43        | 173.98                 | -2,938.51                           | 145.51                              | 3,264.52               | 3,091.71                | 172.80                    | 18.891            |                              |  |
| 7,400.00                                                          | 7,387.51              | 7,394.32              | 7,393.48              | 26.80            | 146.88        | 173.98                 | -2,938.52                           | 145.51                              | 3,264.53               | 3,091.18                | 173.34                    | 18.833            |                              |  |
| 7,500.00                                                          | 7,487.51              | 7,488.28              | 7,487.44              | 27.15            | 148.66        | 173.98                 | -2,938.65                           | 145.51                              | 3,264.66               | 3,089.19                | 175.47                    | 18.605            |                              |  |
| 7,600.00                                                          | 7,587.51              | 7,595.87              | 7,595.01              | 27.50            | 150.71        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,087.12                | 177.88                    | 18.355            |                              |  |
| 7,700.00                                                          | 7,687.51              | 7,695.87              | 7,695.01              | 27.85            | 152.99        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,084.49                | 180.51                    | 18.088            |                              |  |
| 7,800.00                                                          | 7,787.51              | 7,795.87              | 7,795.01              | 28.20            | 155.26        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,081.86                | 183.14                    | 17.828            |                              |  |
| 7,887.08                                                          | 7,874.58              | 7,882.95              | 7,882.08              | 28.50            | 157.24        | 173.97                 | -2,938.04                           | 145.51                              | 3,264.05               | 3,078.62                | 185.43                    | 17.603            |                              |  |
| 7,900.00                                                          | 7,887.51              | 7,895.00              | 7,894.12              | 28.55            | 157.52        | 173.97                 | -2,938.04                           | 145.51                              | 3,264.05               | 3,078.30                | 185.75                    | 17.573            |                              |  |
| 8,000.00                                                          | 7,987.51              | 7,988.22              | 7,987.35              | 28.90            | 159.64        | 173.97                 | -2,938.16                           | 145.51                              | 3,264.18               | 3,075.96                | 188.22                    | 17.343            |                              |  |
| 8,100.00                                                          | 8,087.51              | 8,081.45              | 8,080.57              | 29.25            | 161.76        | 173.98                 | -2,938.48                           | 145.51                              | 3,264.52               | 3,073.83                | 190.69                    | 17.120            |                              |  |
| 8,200.00                                                          | 8,187.51              | 8,196.02              | 8,195.01              | 29.60            | 164.40        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,071.31                | 193.69                    | 16.857            |                              |  |
| 8,264.35                                                          | 8,251.86              | 8,258.90              | 8,257.88              | 29.82            | 165.93        | 173.97                 | -2,938.37                           | 145.51                              | 3,264.38               | 3,068.93                | 195.45                    | 16.702            |                              |  |
| 8,300.00                                                          | 8,287.51              | 8,281.07              | 8,280.04              | 29.95            | 166.47        | 173.97                 | -2,938.43                           | 145.51                              | 3,264.47               | 3,068.36                | 196.11                    | 16.646            |                              |  |
| 8,400.00                                                          | 8,387.51              | 8,396.08              | 8,395.01              | 30.30            | 169.22        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,065.77                | 199.23                    | 16.388            |                              |  |
| 8,455.77                                                          | 8,443.28              | 8,450.90              | 8,449.83              | 30.50            | 170.52        | 173.97                 | -2,938.40                           | 145.51                              | 3,264.40               | 3,063.68                | 200.72                    | 16.264            |                              |  |
| 8,500.00                                                          | 8,487.51              | 8,484.37              | 8,483.29              | 30.65            | 171.31        | 173.98                 | -2,938.46                           | 145.51                              | 3,264.49               | 3,062.83                | 201.66                    | 16.188            |                              |  |
| 8,600.00                                                          | 8,587.51              | 8,596.14              | 8,595.01              | 31.00            | 173.98        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,060.31                | 204.69                    | 15.951            |                              |  |
| 8,700.00                                                          | 8,687.51              | 8,696.14              | 8,695.01              | 31.35            | 176.43        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,057.51                | 207.49                    | 15.736            |                              |  |
| 8,737.70                                                          | 8,725.21              | 8,731.61              | 8,730.46              | 31.49            | 177.29        | 173.97                 | -2,937.92                           | 145.51                              | 3,263.93               | 3,055.44                | 208.49                    | 15.655            |                              |  |
| 8,800.00                                                          | 8,787.51              | 8,781.17              | 8,780.01              | 31.70            | 178.50        | 173.97                 | -2,938.05                           | 145.51                              | 3,264.09               | 3,054.17                | 209.92                    | 15.549            |                              |  |
| 8,900.00                                                          | 8,887.51              | 8,896.25              | 8,895.01              | 32.06            | 181.31        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,051.91                | 213.09                    | 15.322            |                              |  |
| 8,960.06                                                          | 8,947.56              | 8,955.60              | 8,954.34              | 32.27            | 182.72        | 173.98                 | -2,938.56                           | 145.51                              | 3,264.57               | 3,049.86                | 214.71                    | 15.205            |                              |  |
| 9,000.00                                                          | 8,987.51              | 8,979.97              | 8,978.72              | 32.41            | 183.30        | 173.98                 | -2,938.62                           | 145.51                              | 3,264.67               | 3,049.25                | 215.42                    | 15.155            |                              |  |
| 9,100.00                                                          | 9,087.51              | 9,096.29              | 9,095.01              | 32.76            | 185.99        | 173.98                 | -2,939.00                           | 145.51                              | 3,265.00               | 3,046.52                | 218.48                    | 14.944            |                              |  |

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



# MS Directional Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Stevens "11" - Stevens 11 1 - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 170-INC-ONLY                                      |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 9,200.00                                                          | 9,187.51              | 9,196.33              | 9,195.01              | 33.11            | 188.27        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,043.89                | 221.11                    | 14.767            |                    |           |
| 9,300.00                                                          | 9,287.51              | 9,296.33              | 9,295.01              | 33.46            | 190.48        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,041.33                | 223.67                    | 14.597            |                    |           |
| 9,400.00                                                          | 9,387.51              | 9,396.33              | 9,395.01              | 33.82            | 192.68        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,038.76                | 226.24                    | 14.432            |                    |           |
| 9,440.69                                                          | 9,428.19              | 9,434.65              | 9,433.32              | 33.96            | 193.53        | 173.97                 | -2,937.68                           | 145.51       | 3,263.69               | 3,036.46                | 227.23                    | 14.363            |                    |           |
| 9,500.00                                                          | 9,487.51              | 9,486.42              | 9,485.08              | 34.17            | 194.67        | 173.97                 | -2,937.78                           | 145.51       | 3,263.80               | 3,035.22                | 228.58                    | 14.279            |                    |           |
| 9,600.00                                                          | 9,587.51              | 9,573.71              | 9,572.36              | 34.52            | 196.60        | 173.97                 | -2,938.22                           | 145.51       | 3,264.30               | 3,033.45                | 230.85                    | 14.140            |                    |           |
| 9,700.00                                                          | 9,687.51              | 9,696.42              | 9,695.01              | 34.87            | 199.37        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,031.01                | 233.99                    | 13.954            |                    |           |
| 9,800.00                                                          | 9,787.51              | 9,796.42              | 9,795.01              | 35.23            | 201.75        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,028.28                | 236.72                    | 13.793            |                    |           |
| 9,893.84                                                          | 9,881.34              | 9,889.78              | 9,888.35              | 35.56            | 203.97        | 173.97                 | -2,938.01                           | 145.51       | 3,264.02               | 3,024.75                | 239.27                    | 13.641            |                    |           |
| 9,900.00                                                          | 9,887.51              | 9,895.25              | 9,893.83              | 35.58            | 204.10        | 173.97                 | -2,938.02                           | 145.51       | 3,264.02               | 3,024.60                | 239.43                    | 13.633            |                    |           |
| 10,000.00                                                         | 9,987.51              | 9,984.08              | 9,982.65              | 35.93            | 206.21        | 173.97                 | -2,938.20                           | 145.51       | 3,264.23               | 3,022.34                | 241.89                    | 13.495            |                    |           |
| 10,100.00                                                         | 10,087.51             | 10,072.92             | 10,071.48             | 36.28            | 208.32        | 173.98                 | -2,938.69                           | 145.51       | 3,264.78               | 3,020.43                | 244.35                    | 13.361            |                    |           |
| 10,191.97                                                         | 10,179.48             | 10,188.50             | 10,186.94             | 36.61            | 211.33        | 173.97                 | -2,938.40                           | 145.51       | 3,264.41               | 3,016.71                | 247.70                    | 13.179            |                    |           |
| 10,200.00                                                         | 10,187.51             | 10,193.40             | 10,191.84             | 36.64            | 211.46        | 173.97                 | -2,938.41                           | 145.51       | 3,264.41               | 3,016.56                | 247.86                    | 13.171            |                    |           |
| 10,300.00                                                         | 10,287.51             | 10,296.64             | 10,295.01             | 36.99            | 214.24        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,014.00                | 250.99                    | 13.008            |                    |           |
| 10,352.30                                                         | 10,339.81             | 10,348.13             | 10,346.49             | 37.18            | 215.60        | 173.97                 | -2,938.29                           | 145.51       | 3,264.30               | 3,011.76                | 252.54                    | 12.926            |                    |           |
| 10,400.00                                                         | 10,387.51             | 10,376.20             | 10,374.56             | 37.34            | 216.34        | 173.97                 | -2,938.38                           | 145.51       | 3,264.45               | 3,011.01                | 253.44                    | 12.881            |                    |           |
| 10,500.00                                                         | 10,487.51             | 10,496.71             | 10,495.01             | 37.70            | 219.46        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,008.07                | 256.93                    | 12.708            |                    |           |
| 10,526.37                                                         | 10,513.87             | 10,522.09             | 10,520.38             | 37.79            | 220.11        | 173.97                 | -2,938.39                           | 145.51       | 3,264.40               | 3,006.73                | 257.67                    | 12.669            |                    |           |
| 10,600.00                                                         | 10,587.51             | 10,572.48             | 10,570.76             | 38.05            | 221.40        | 173.98                 | -2,938.59                           | 145.51       | 3,264.68               | 3,005.48                | 258.21                    | 12.595            |                    |           |
| 10,700.00                                                         | 10,687.51             | 10,696.79             | 10,695.01             | 38.41            | 224.73        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 3,002.09                | 262.91                    | 12.419            |                    |           |
| 10,724.64                                                         | 10,712.15             | 10,716.84             | 10,715.05             | 38.49            | 225.28        | 173.97                 | -2,938.27                           | 145.51       | 3,264.28               | 3,000.74                | 263.54                    | 12.386            |                    |           |
| 10,800.00                                                         | 10,787.51             | 10,766.55             | 10,764.75             | 38.76            | 226.64        | 173.98                 | -2,938.54                           | 145.51       | 3,264.68               | 2,999.53                | 265.15                    | 12.313            |                    |           |
| 10,884.95                                                         | 10,872.46             | 10,881.68             | 10,879.78             | 39.06            | 229.86        | 173.97                 | -2,938.32                           | 145.51       | 3,264.33               | 2,995.64                | 268.69                    | 12.149            |                    |           |
| 10,900.00                                                         | 10,887.51             | 10,890.37             | 10,888.48             | 39.11            | 230.10        | 173.97                 | -2,938.33                           | 145.51       | 3,264.34               | 2,995.35                | 268.99                    | 12.136            |                    |           |
| 11,000.00                                                         | 10,987.51             | 10,996.99             | 10,995.01             | 39.47            | 233.15        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,992.60                | 272.40                    | 11.986            |                    |           |
| 11,100.00                                                         | 11,087.51             | 11,096.99             | 11,095.01             | 39.82            | 236.08        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,989.32                | 275.68                    | 11.843            |                    |           |
| 11,136.92                                                         | 11,124.42             | 11,129.42             | 11,127.41             | 39.95            | 237.03        | 173.97                 | -2,937.63                           | 145.51       | 3,263.64               | 2,986.88                | 276.76                    | 11.792            |                    |           |
| 11,200.00                                                         | 11,187.51             | 11,175.87             | 11,173.86             | 40.18            | 238.39        | 173.97                 | -2,937.81                           | 145.51       | 3,263.89               | 2,985.55                | 278.33                    | 11.726            |                    |           |
| 11,300.00                                                         | 11,287.51             | 11,297.20             | 11,295.01             | 40.53            | 241.90        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,982.78                | 282.21                    | 11.569            |                    |           |
| 11,340.29                                                         | 11,327.80             | 11,337.48             | 11,335.27             | 40.67            | 243.01        | 173.97                 | -2,938.38                           | 145.51       | 3,264.39               | 2,980.92                | 283.47                    | 11.516            |                    |           |
| 11,400.00                                                         | 11,387.51             | 11,367.06             | 11,364.84             | 40.88            | 243.83        | 173.98                 | -2,938.52                           | 145.51       | 3,264.66               | 2,980.19                | 284.48                    | 11.476            |                    |           |
| 11,500.00                                                         | 11,487.51             | 11,497.27             | 11,495.01             | 41.24            | 247.33        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,976.64                | 288.36                    | 11.323            |                    |           |
| 11,600.00                                                         | 11,587.51             | 11,597.27             | 11,595.01             | 41.59            | 250.01        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,973.61                | 291.39                    | 11.205            |                    |           |
| 11,638.19                                                         | 11,625.70             | 11,629.84             | 11,627.55             | 41.73            | 250.88        | 173.97                 | -2,937.69                           | 145.51       | 3,263.71               | 2,971.31                | 292.39                    | 11.162            |                    |           |
| 11,700.00                                                         | 11,687.51             | 11,680.96             | 11,678.67             | 41.95            | 252.24        | 173.97                 | -2,937.86                           | 145.51       | 3,263.91               | 2,969.94                | 293.97                    | 11.103            |                    |           |
| 11,800.00                                                         | 11,787.51             | 11,763.69             | 11,761.39             | 42.30            | 254.45        | 173.98                 | -2,938.50                           | 145.51       | 3,264.68               | 2,968.15                | 296.52                    | 11.010            |                    |           |
| 11,900.00                                                         | 11,887.51             | 11,897.46             | 11,895.01             | 42.66            | 258.37        | 173.98                 | -2,939.00                           | 145.51       | 3,265.00               | 2,964.18                | 300.82                    | 10.854            |                    |           |
| 11,907.73                                                         | 11,895.24             | 11,903.21             | 11,900.75             | 42.68            | 258.54        | 173.97                 | -2,938.18                           | 145.51       | 3,264.18               | 2,963.16                | 301.02                    | 10.844            |                    |           |
| 11,912.77                                                         | 11,900.27             | 11,906.35             | 11,903.89             | 42.70            | 258.64        | 173.97                 | -2,938.18                           | 145.51       | 3,264.17               | 2,963.03                | 301.13                    | 10.840            |                    |           |
| 11,950.00                                                         | 11,937.47             | 11,929.58             | 11,927.10             | 42.82            | 259.35        | 173.97                 | -2,938.26                           | 145.51       | 3,262.76               | 2,960.80                | 301.96                    | 10.805            |                    |           |
| 12,000.00                                                         | 11,987.11             | 11,997.21             | 11,994.61             | 42.97            | 261.40        | 173.96                 | -2,939.00                           | 145.51       | 3,257.62               | 2,953.44                | 304.18                    | 10.710            |                    |           |
| 12,050.00                                                         | 12,036.05             | 12,046.15             | 12,043.55             | 43.12            | 262.80        | 173.95                 | -2,939.00                           | 145.51       | 3,247.51               | 2,941.78                | 305.73                    | 10.622            |                    |           |
| 12,100.00                                                         | 12,083.92             | 12,090.98             | 12,088.36             | 43.25            | 264.09        | 173.92                 | -2,937.98                           | 145.51       | 3,232.19               | 2,925.03                | 307.16                    | 10.523            |                    |           |
| 12,150.00                                                         | 12,130.35             | 12,117.55             | 12,114.92             | 43.37            | 264.85        | 173.89                 | -2,938.09                           | 145.51       | 3,213.97               | 2,905.92                | 308.05                    | 10.433            |                    |           |
| 12,200.00                                                         | 12,175.00             | 12,165.21             | 12,162.50             | 43.49            | 266.82        | 173.85                 | -2,939.00                           | 145.51       | 3,192.42               | 2,882.26                | 310.16                    | 10.293            |                    |           |
| 12,250.00                                                         | 12,217.51             | 12,227.73             | 12,225.01             | 43.59            | 268.24        | 173.80                 | -2,939.00                           | 145.51       | 3,166.27               | 2,854.57                | 311.70                    | 10.158            |                    |           |
| 12,300.00                                                         | 12,257.57             | 12,267.79             | 12,265.07             | 43.68            | 269.59        | 173.74                 | -2,939.00                           | 145.51       | 3,136.53               | 2,823.39                | 313.15                    | 10.016            |                    |           |
| 12,350.00                                                         | 12,294.88             | 12,305.09             | 12,302.38             | 43.76            | 270.84        | 173.68                 | -2,939.00                           | 145.51       | 3,103.44               | 2,788.95                | 314.49                    | 9.868             |                    |           |
| 12,400.00                                                         | 12,329.14             | 12,339.36             | 12,336.64             | 43.83            | 271.99        | 173.61                 | -2,939.00                           | 145.51       | 3,067.25               | 2,751.53                | 315.72                    | 9.715             |                    |           |
| 12,450.00                                                         | 12,360.10             | 12,370.32             | 12,367.60             | 43.90            | 273.03        | 173.53                 | -2,939.00                           | 145.51       | 3,028.22               | 2,711.40                | 316.83                    | 9.558             |                    |           |
| 12,500.00                                                         | 12,387.52             | 12,397.74             | 12,395.02             | 43.96            | 273.95        | 173.45                 | -2,939.00                           | 145.51       | 2,986.67               | 2,668.87                | 317.80                    | 9.398             |                    |           |

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



MS Directional  
Anticollision Report



**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

| Offset Design Stevens "11" - Stevens 11 1 - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | Offset Site Error:        | 0.00 usft |
|-------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 170-HNC-ONLY                                      |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning   |
| 12,550.00                                                         | 12,411.20             | 12,421.42             | 12,418.70             | 44.03            | 274.75        | 173.36                 | -2,939.00                           | 145.51       | 2,942.91               | 2,624.27                | 318.64                    | 9.236                     |           |
| 12,600.00                                                         | 12,430.95             | 12,441.17             | 12,438.45             | 44.11            | 275.41        | 173.26                 | -2,939.00                           | 145.51       | 2,897.27               | 2,577.93                | 319.34                    | 9.073                     |           |
| 12,650.00                                                         | 12,446.62             | 12,456.84             | 12,454.12             | 44.20            | 275.94        | 173.15                 | -2,939.00                           | 145.51       | 2,850.11               | 2,530.21                | 319.89                    | 8.910                     |           |
| 12,700.00                                                         | 12,458.10             | 12,468.07             | 12,465.33             | 44.29            | 276.31        | 173.03                 | -2,937.12                           | 145.51       | 2,799.92               | 2,479.63                | 320.29                    | 8.742                     |           |
| 12,707.73                                                         | 12,459.49             | 12,469.31             | 12,466.57             | 44.31            | 276.35        | 173.02                 | -2,937.12                           | 145.51       | 2,792.36               | 2,472.03                | 320.34                    | 8.717                     |           |
| 12,750.00                                                         | 12,465.91             | 12,475.02             | 12,472.28             | 44.39            | 276.55        | 172.92                 | -2,937.12                           | 145.51       | 2,750.87               | 2,430.33                | 320.54                    | 8.582                     |           |
| 12,800.00                                                         | 12,471.10             | 12,479.67             | 12,476.93             | 44.50            | 276.70        | 172.79                 | -2,937.13                           | 145.51       | 2,701.50               | 2,380.79                | 320.71                    | 8.424                     |           |
| 12,850.00                                                         | 12,473.69             | 12,482.01             | 12,479.26             | 44.61            | 276.78        | 172.66                 | -2,937.13                           | 145.51       | 2,651.93               | 2,331.13                | 320.80                    | 8.267                     |           |
| 12,874.40                                                         | 12,474.00             | 12,482.30             | 12,479.56             | 44.67            | 276.79        | 172.60                 | -2,937.13                           | 145.51       | 2,627.72               | 2,306.90                | 320.81                    | 8.191                     |           |
| 12,900.00                                                         | 12,474.00             | 12,482.32             | 12,479.58             | 44.73            | 276.79        | 172.53                 | -2,937.13                           | 145.51       | 2,602.31               | 2,281.49                | 320.82                    | 8.111                     |           |
| 13,000.00                                                         | 12,474.00             | 12,482.38             | 12,479.64             | 45.01            | 276.79        | 172.25                 | -2,937.13                           | 145.51       | 2,503.10               | 2,182.26                | 320.85                    | 7.802                     |           |
| 13,100.00                                                         | 12,474.00             | 12,482.45             | 12,479.71             | 45.35            | 276.80        | 171.94                 | -2,937.13                           | 145.51       | 2,403.97               | 2,083.09                | 320.88                    | 7.492                     |           |
| 13,200.00                                                         | 12,474.00             | 12,482.52             | 12,479.78             | 45.75            | 276.80        | 171.61                 | -2,937.13                           | 145.51       | 2,304.90               | 1,983.98                | 320.92                    | 7.182                     |           |
| 13,300.00                                                         | 12,474.00             | 12,482.59             | 12,479.84             | 46.20            | 276.80        | 171.25                 | -2,937.13                           | 145.51       | 2,205.92               | 1,884.96                | 320.96                    | 6.873                     |           |
| 13,400.00                                                         | 12,474.00             | 12,482.65             | 12,479.91             | 46.71            | 276.80        | 170.85                 | -2,937.13                           | 145.51       | 2,107.04               | 1,786.03                | 321.01                    | 6.564                     |           |
| 13,500.00                                                         | 12,474.00             | 12,482.72             | 12,479.98             | 47.26            | 276.80        | 170.42                 | -2,937.13                           | 145.51       | 2,008.27               | 1,687.20                | 321.06                    | 6.255                     |           |
| 13,600.00                                                         | 12,474.00             | 12,482.79             | 12,480.05             | 47.87            | 276.81        | 169.94                 | -2,937.13                           | 145.51       | 1,909.62               | 1,588.49                | 321.13                    | 5.947                     |           |
| 13,700.00                                                         | 12,474.00             | 12,482.86             | 12,480.12             | 48.53            | 276.81        | 169.40                 | -2,937.13                           | 145.51       | 1,811.12               | 1,489.92                | 321.20                    | 5.639                     |           |
| 13,800.00                                                         | 12,474.00             | 12,482.93             | 12,480.19             | 49.23            | 276.81        | 168.81                 | -2,937.13                           | 145.51       | 1,712.80               | 1,391.51                | 321.29                    | 5.331                     |           |
| 13,900.00                                                         | 12,474.00             | 12,483.00             | 12,480.26             | 49.97            | 276.81        | 168.15                 | -2,937.13                           | 145.51       | 1,614.69               | 1,293.29                | 321.40                    | 5.024                     |           |
| 14,000.00                                                         | 12,474.00             | 12,483.08             | 12,480.34             | 50.76            | 276.82        | 167.39                 | -2,937.13                           | 145.51       | 1,516.82               | 1,195.29                | 321.52                    | 4.718                     |           |
| 14,100.00                                                         | 12,474.00             | 12,483.15             | 12,480.41             | 51.59            | 276.82        | 166.54                 | -2,937.13                           | 145.51       | 1,419.24               | 1,097.57                | 321.67                    | 4.412                     |           |
| 14,200.00                                                         | 12,474.00             | 12,483.22             | 12,480.48             | 52.46            | 276.82        | 165.56                 | -2,937.13                           | 145.51       | 1,322.03               | 1,000.18                | 321.86                    | 4.108                     |           |
| 14,300.00                                                         | 12,474.00             | 12,483.30             | 12,480.56             | 53.37            | 276.82        | 164.42                 | -2,937.13                           | 145.51       | 1,225.27               | 903.19                  | 322.09                    | 3.804                     |           |
| 14,400.00                                                         | 12,474.00             | 12,483.37             | 12,480.63             | 54.31            | 276.83        | 163.09                 | -2,937.13                           | 145.51       | 1,129.08               | 806.70                  | 322.37                    | 3.502                     |           |
| 14,500.00                                                         | 12,474.00             | 12,483.45             | 12,480.71             | 55.28            | 276.83        | 161.51                 | -2,937.13                           | 145.51       | 1,033.60               | 710.86                  | 322.74                    | 3.203                     |           |
| 14,600.00                                                         | 12,474.00             | 12,483.52             | 12,480.78             | 56.29            | 276.83        | 159.62                 | -2,937.13                           | 145.51       | 939.07                 | 615.85                  | 323.22                    | 2.905                     |           |
| 14,700.00                                                         | 12,474.00             | 12,483.60             | 12,480.86             | 57.32            | 276.83        | 157.30                 | -2,937.13                           | 145.51       | 845.80                 | 521.94                  | 323.86                    | 2.612                     |           |
| 14,800.00                                                         | 12,474.00             | 12,483.68             | 12,480.94             | 58.39            | 276.84        | 154.41                 | -2,937.13                           | 145.51       | 754.25                 | 429.53                  | 324.72                    | 2.323                     |           |
| 14,900.00                                                         | 12,474.00             | 12,483.75             | 12,481.01             | 59.48            | 276.84        | 150.74                 | -2,937.13                           | 145.51       | 665.14                 | 339.21                  | 325.93                    | 2.041                     |           |
| 15,000.00                                                         | 12,474.00             | 12,483.83             | 12,481.09             | 60.60            | 276.84        | 145.96                 | -2,937.13                           | 145.51       | 579.60                 | 251.97                  | 327.63                    | 1.769                     |           |
| 15,100.00                                                         | 12,474.00             | 12,483.91             | 12,481.17             | 61.74            | 276.84        | 139.59                 | -2,937.13                           | 145.51       | 499.45                 | 169.42                  | 330.03                    | 1.513                     |           |
| 15,200.00                                                         | 12,474.00             | 12,483.99             | 12,481.25             | 62.90            | 276.85        | 130.94                 | -2,937.13                           | 145.51       | 427.76                 | 94.41                   | 333.35                    | 1.283 Level 3             |           |
| 15,300.00                                                         | 12,474.00             | 12,484.07             | 12,481.33             | 64.08            | 276.85        | 119.21                 | -2,937.13                           | 145.51       | 369.45                 | 31.97                   | 337.48                    | 1.095 Level 2             |           |
| 15,400.00                                                         | 12,474.00             | 12,484.15             | 12,481.41             | 65.29            | 276.85        | 104.01                 | -2,937.13                           | 145.51       | 331.69                 | -9.74                   | 341.43                    | 0.971 Level 1             |           |
| 15,482.40                                                         | 12,474.00             | 12,484.22             | 12,481.48             | 66.30            | 276.86        | 89.62                  | -2,937.13                           | 145.51       | 321.29                 | -21.82                  | 343.11                    | 0.936 Level 1, CC, ES, SF |           |
| 15,500.00                                                         | 12,474.00             | 12,484.24             | 12,481.50             | 66.51            | 276.86        | 86.49                  | -2,937.13                           | 145.51       | 321.77                 | -21.41                  | 343.17                    | 0.938 Level 1             |           |
| 15,600.00                                                         | 12,474.00             | 12,484.32             | 12,481.58             | 67.75            | 276.86        | 69.52                  | -2,937.13                           | 145.51       | 342.13                 | 0.46                    | 341.67                    | 1.001 Level 2             |           |
| 15,700.00                                                         | 12,474.00             | 12,484.40             | 12,481.66             | 69.01            | 276.86        | 55.51                  | -2,937.13                           | 145.51       | 388.04                 | 49.76                   | 338.28                    | 1.147 Level 2             |           |
| 15,800.00                                                         | 12,474.00             | 12,484.49             | 12,481.75             | 70.29            | 276.86        | 44.95                  | -2,937.13                           | 145.51       | 451.77                 | 116.99                  | 334.78                    | 1.349 Level 3             |           |
| 15,900.00                                                         | 12,474.00             | 12,484.57             | 12,481.83             | 71.58            | 276.87        | 37.20                  | -2,937.13                           | 145.51       | 526.89                 | 194.97                  | 331.92                    | 1.587                     |           |
| 16,000.00                                                         | 12,474.00             | 12,484.66             | 12,481.92             | 72.89            | 276.87        | 31.45                  | -2,937.13                           | 145.51       | 609.21                 | 279.43                  | 329.78                    | 1.847                     |           |
| 16,100.00                                                         | 12,474.00             | 12,484.75             | 12,482.01             | 74.20            | 276.87        | 27.11                  | -2,937.13                           | 145.51       | 696.17                 | 367.97                  | 328.21                    | 2.121                     |           |
| 16,200.00                                                         | 12,474.00             | 12,484.83             | 12,482.09             | 75.54            | 276.88        | 23.74                  | -2,937.13                           | 145.51       | 786.24                 | 459.19                  | 327.06                    | 2.404                     |           |
| 16,300.00                                                         | 12,474.00             | 12,484.92             | 12,482.18             | 76.88            | 276.88        | 21.08                  | -2,937.13                           | 145.51       | 878.46                 | 552.26                  | 326.20                    | 2.693                     |           |
| 16,400.00                                                         | 12,474.00             | 12,485.01             | 12,482.27             | 78.24            | 276.88        | 18.92                  | -2,937.13                           | 145.51       | 972.22                 | 646.66                  | 325.56                    | 2.986                     |           |
| 16,500.00                                                         | 12,474.00             | 12,485.10             | 12,482.36             | 79.61            | 276.88        | 17.15                  | -2,937.13                           | 145.51       | 1,067.12               | 742.04                  | 325.07                    | 3.283                     |           |
| 16,600.00                                                         | 12,474.00             | 12,485.19             | 12,482.45             | 80.99            | 276.89        | 15.66                  | -2,937.13                           | 145.51       | 1,162.86               | 838.17                  | 324.70                    | 3.581                     |           |
| 16,700.00                                                         | 12,474.00             | 12,485.29             | 12,482.55             | 82.37            | 276.89        | 14.40                  | -2,937.13                           | 145.51       | 1,259.28               | 934.87                  | 324.41                    | 3.882                     |           |
| 16,800.00                                                         | 12,474.00             | 12,485.38             | 12,482.64             | 83.77            | 276.89        | 13.33                  | -2,937.13                           | 145.51       | 1,356.21               | 1,032.03                | 324.18                    | 4.184                     |           |
| 16,900.00                                                         | 12,474.00             | 12,485.47             | 12,482.73             | 85.18            | 276.90        | 12.39                  | -2,937.13                           | 145.51       | 1,453.55               | 1,129.55                | 324.00                    | 4.486                     |           |
| 17,000.00                                                         | 12,474.00             | 12,485.57             | 12,482.83             | 86.59            | 276.90        | 11.58                  | -2,937.13                           | 145.51       | 1,551.24               | 1,227.38                | 323.86                    | 4.790                     |           |

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



MS Directional  
Anticollision Report



|                           |                                 |                                     |                                    |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well Charles Ling Fed Com #212H    |
| <b>Project:</b>           | Lea County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | WELL @ 3639.50usft (Patterson 282) |
| <b>Reference Site:</b>    | Charles Ling Fed Com            | <b>MD Reference:</b>                | WELL @ 3639.50usft (Patterson 282) |
| <b>Site Error:</b>        | 0.00 usft                       | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Charles Ling Fed Com #212H      | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                       | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                     | <b>Database:</b>                    | EDM 5000.14 Conroe DB              |
| <b>Reference Design:</b>  | Design #2                       | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design Stevens "11" - Stevens 11 1 - Wellbore #1 - Surveys |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 170-INC-ONLY                                      |                       |                       |                       |                  |               |                        |                                     |              |                        |                         |                           |                   | 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) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 17,100.00                                                         | 12,474.00             | 12,485.66             | 12,482.92             | 88.02            | 276.90        | 10.86                  | -2,937.13                           | 145.51       | 1,649.20               | 1,325.45                | 323.75                    | 5.094             |                    |           |
| 17,200.00                                                         | 12,474.00             | 12,485.76             | 12,483.02             | 89.45            | 276.91        | 10.22                  | -2,937.13                           | 145.51       | 1,747.39               | 1,423.72                | 323.67                    | 5.399             |                    |           |
| 17,226.60                                                         | 12,474.00             | 12,485.79             | 12,483.05             | 89.83            | 276.91        | 10.06                  | -2,937.13                           | 145.51       | 1,773.55               | 1,449.89                | 323.65                    | 5.480             |                    |           |
| 17,227.36                                                         | 12,474.00             | 12,485.79             | 12,483.05             | 89.85            | 276.91        | 10.06                  | -2,937.13                           | 145.51       | 1,774.29               | 1,445.34                | 328.95                    | 5.394             |                    |           |



MS Directional  
Anticollision Report

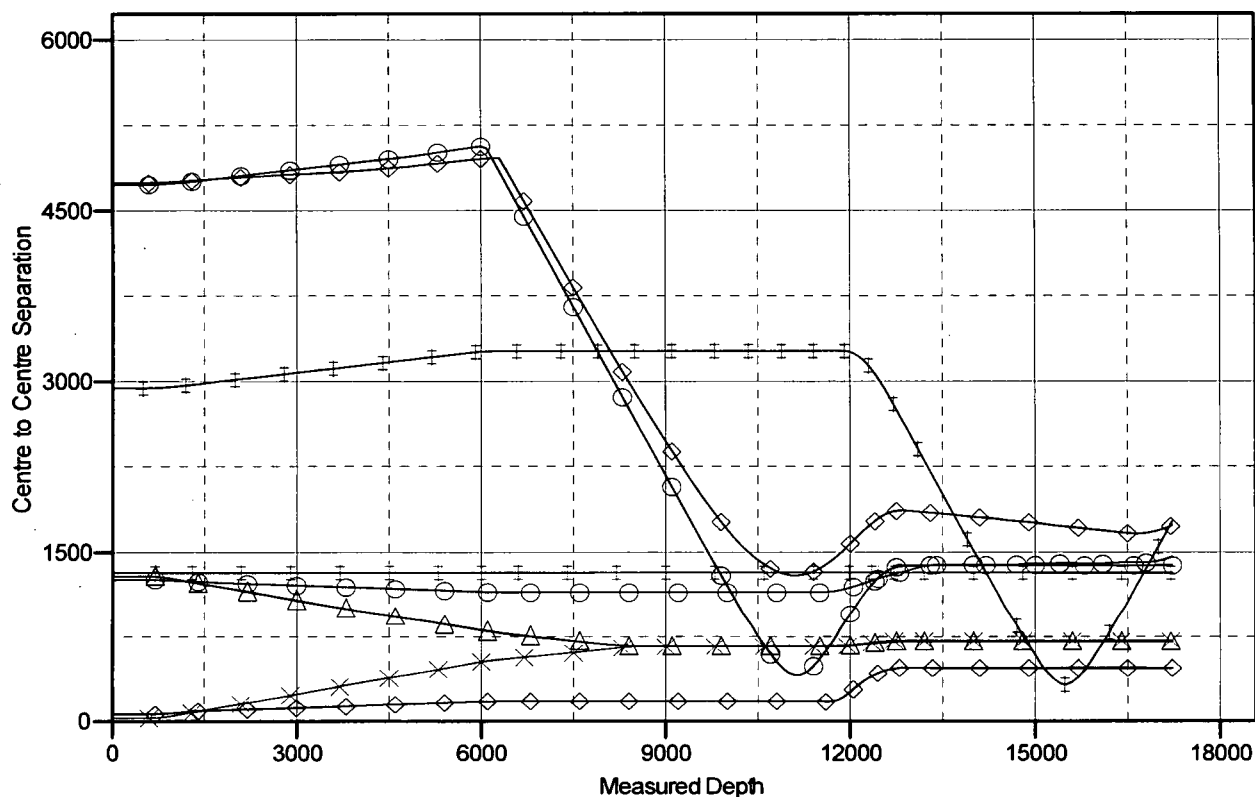


Company: Matador Resources  
Project: Lea County, New Mexico (NAD 27)  
Reference Site: Charles Ling Fed Com  
Site Error: 0.00 usft  
Reference Well: Charles Ling Fed Com #212H  
Well Error: 0.00 usft  
Reference Wellbore: Wellbore #1  
Reference Design: Design #2

Local Co-ordinate Reference: Well Charles Ling Fed Com #212H  
TVD Reference: WELL @ 3639.50usft (Patterson 282)  
MD Reference: WELL @ 3639.50usft (Patterson 282)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM 5000.14 Conroe DB  
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 3639.50usft (Patterson 282) Coordinates are relative to: Charles Ling Fed Com #212H  
Offset Depths are relative to Offset Datum  
Central Meridian is 104° 20' 0.000 W  
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
Grid Convergence at Surface is: 0.42°

### Ladder Plot



#### LEGEND

Charles Ling Fed Com #212H Wellbore #1, Survey MD  
Charles Ling Fed Com #212H Wellbore #1, Design MD  
Charles Ling Fed Com #212H Wellbore #1, Survey MD  
Charles Ling Fed Com #212H Wellbore #1, Design MD  
Charles Ling Fed Com #212H Wellbore #1, Survey MD  
Charles Ling Fed Com #212H Wellbore #1, Design MD  
Charles Ling Fed Com #212H Wellbore #1, Survey MD  
Charles Ling Fed Com #212H Wellbore #1, Design MD



MS Directional  
Anticollision Report

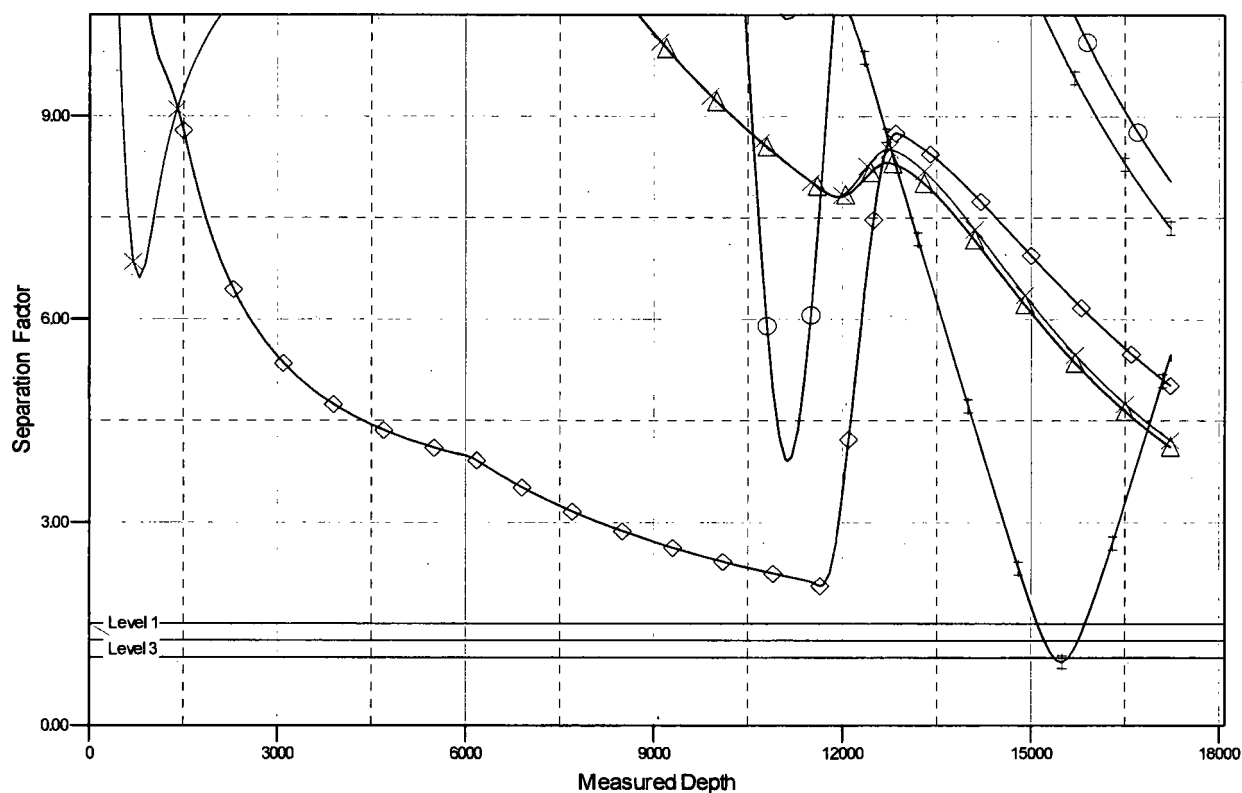


**Company:** Matador Resources  
**Project:** Lea County, New Mexico (NAD 27)  
**Reference Site:** Charles Ling Fed Com  
**Site Error:** 0.00 usft  
**Reference Well:** Charles Ling Fed Com #212H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Design #2

**Local Co-ordinate Reference:** Well Charles Ling Fed Com #212H  
**TVD Reference:** WELL @ 3639.50usft (Patterson 282)  
**MD Reference:** WELL @ 3639.50usft (Patterson 282)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM 5000.14 Conroe DB  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 3639.50usft (Patterson 282) Coordinates are relative to: Charles Ling Fed Com #212H  
Offset Depths are relative to Offset Datum  
Central Meridian is 104° 20' 0.000 W  
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
Grid Convergence at Surface is: 0.42°

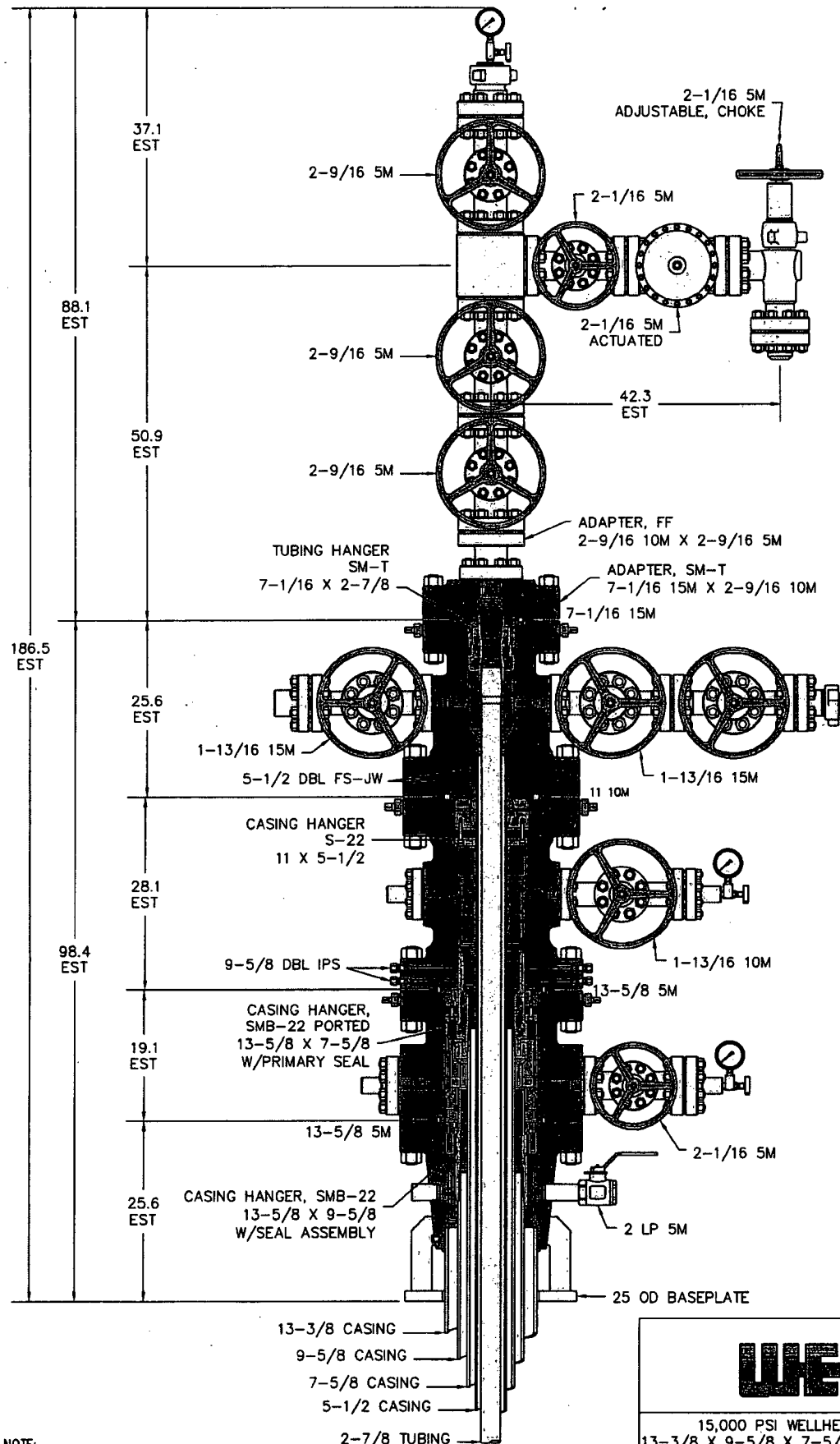
## Separation Factor Plot



### LEGEND

● RoySgtFederalCOMB1(Wellbore #1, Survey#0) ● CharlesLingFedCom#211HWellbore #1, Design#1 V0 ● CharlesLingFedCom#211HWellbore #1, Survey#0  
● RoySgtFederalCOMB1H(Wellbore #1, Survey#0) ● CharlesLingFedCom#212HWellbore #1, Design#1 V0 ● Stevenet11, Wellbore#1, Survey#0  
● CharlesLingFedCom#212HWellbore #1, Design#1 V0

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



**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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**WEIR**

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

|              |     |             |         |      |         |     |  |
|--------------|-----|-------------|---------|------|---------|-----|--|
| DRAWN BY:    | RPL | SCALE       | 1-11    | DATE | 06OCT17 | REV |  |
| CHECKED BY:  |     | DRAWING NO. | P-22401 |      |         |     |  |
| APPROVED BY: |     |             |         |      |         |     |  |

Drilling Program

1. ESTIMATED TOPS

| Formation Name                        | MD           | TVD          | Bearing              |
|---------------------------------------|--------------|--------------|----------------------|
| Quaternary                            | 000          | 000          | water                |
| Rustler anhydrite                     | 1851         | 1849         | N/A                  |
| Salado salt                           | 3325         | 3320         | N/A                  |
| Castile                               | 3747         | 3740         | N/A                  |
| Base salt                             | 5225         | 5215         | N/A                  |
| Bell Canyon                           | 5268         | 5257         | hydrocarbons         |
| Cherry Canyon                         | 6310         | 6298         | hydrocarbons         |
| Brushy Canyon                         | 7506         | 7493         | hydrocarbons         |
| Bone Spring Limestone                 | 9028         | 9016         | hydrocarbons         |
| 1 <sup>st</sup> Bone Spring carbonate | 9894         | 9882         | hydrocarbons         |
| 1 <sup>st</sup> Bone Spring sandstone | 10072        | 10060        | hydrocarbons         |
| 2 <sup>nd</sup> Bone Spring carbonate | 10421        | 10409        | hydrocarbons         |
| 2nd Bone Spring sandstone             | 10797        | 10784        | hydrocarbons         |
| 3 <sup>rd</sup> Bone Spring carbonate | 11304        | 11291        | hydrocarbon          |
| <b>(KOP</b>                           | <b>11908</b> | <b>11895</b> | <b>hydrocarbons)</b> |
| 3 <sup>rd</sup> Bone Spring sandstone | 12116        | 11861        | hydrocarbons         |
| Wolfcamp A carbonate <b>(Goal)</b>    | 12176        | 12153        | hydrocarbons         |
| <b>TD</b>                             | <b>17226</b> | <b>12474</b> | -                    |

2. NOTABLE ZONES

Wolfcamp A carbonate is the goal. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be  $\geq 330'$  from the dedication perimeter. Closest water well (C 02308) is 6935' southwest. Water bearing strata depth was reported in the 40' deep well. NMOSE estimated depth to groundwater is 175'.

### 3. PRESSURE CONTROL

#### Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head 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.

#### Testing Procedure

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in 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 surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and the BOPs are removed after setting Intermediate 2 casing, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed. After setting 7-5/8" x 7" Casing, pressure tests will be made to 250 psi low and 10,000 psi high. Annular will tested to 250 psi low and 5000 psi high.

#### Variance Request

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. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will

not be tested again until after setting 7-5/8" x 7" casing unless any flanges are separated. A diagram of the speed head is attached and does not require the hose 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. See attached casing assumption worksheet.

| Hole O. D. | Set MD          | Set TVD         | Casing O. D.           | Weight (lb/ft) | Grade | Joint           | Collapse | Burst | Tension |
|------------|-----------------|-----------------|------------------------|----------------|-------|-----------------|----------|-------|---------|
| 17.5"      | 0' - 1340'      | 0' - 1340'      | 13.375" surface        | 54.5           | J-55  | BTC             | 1.125    | 1.125 | 1.8     |
| 12.25"     | 0' - 5220'      | 0' - 5214'      | 9.625" inter. 1        | 40             | J-55  | BTC             | 1.125    | 1.125 | 1.8     |
| 8.75"      | 0' - 4920'      | 0' - 4890'      | 7.625" inter. 2 top    | 29.7           | P-110 | BTC             | 1.125    | 1.125 | 1.8     |
| 8.75"      | 4921' - 11800'  | 4891' - 11787'  | 7.625" inter. 2 middle | 29.7           | P-110 | VAM HTF-NR      | 1.125    | 1.125 | 1.8     |
| 8.75"      | 11801' - 12744' | 11788' - 12496' | 7.000" inter. 2 bottom | 29             | P-110 | VAM HTF-NR      | 1.125    | 1.125 | 1.8     |
| 6.125"     | 0' - 11700'     | 0' - 11688'     | 5.5" product. top      | 20             | P-110 | BTC             | 1.125    | 1.125 | 1.8     |
| 6.125"     | 11701' - 17226' | 11689' - 12511' | 4.5" product. Bottom   | 13.5           | P-110 | VAM DWC/C-IS MS | 1.125    | 1.125 | 1.8     |

#### Variance Request

Matador requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing which will be less than the 0.422" stand-off regulation. Matador has met with Christopher Walls and Mustafa Haque as well as other BLM representatives and determined that this would be acceptable as long as the 7-5/8" Flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

| Name           | Type | Sacks       | Yield | Cu. Ft. | Weight                                                                            | Blend                                                      |
|----------------|------|-------------|-------|---------|-----------------------------------------------------------------------------------|------------------------------------------------------------|
| Surface        | Lead | 800         | 1.82  | 1456    | 13.5                                                                              | Class C + Bentonite + 2% CaCl <sub>2</sub> + 3% NaCl + LCM |
|                | Tail | 340         | 1.38  | 469.2   | 14.8                                                                              | Class C + 5% NaCl + LCM                                    |
| TOC = GL       |      | 100% Excess |       |         | Centralizers per Onshore Order 2.III.B.1f                                         |                                                            |
| Intermediate 1 | Lead | 1290        | 1.82  | 2348    | 12.8                                                                              | Class C + Bentonite + 2% CaCl <sub>2</sub> + 3% NaCl + LCM |
|                | Tail | 500         | 1.38  | 690     | 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 | 520         | 2.36  | 1227    | 11.5                                                                              | TXI + Fluid Loss + Dispersant + Retarder + LCM             |
|                | Tail | 320         | 1.38  | 442     | 14.8                                                                              | TXI + Fluid Loss + Dispersant + Retarder + LCM             |
| TOC = 4200'    |      | 75% Excess  |       |         | 2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC) |                                                            |
| Production     | Tail | 500         | 1.17  | 585     | 15.8                                                                              | Class H + Fluid Loss + Dispersant + Retarder + LCM         |
| TOC = 11700'   |      | 10% 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 (MD)   | lb/gal | Viscosity | Fluid Loss |
|-------------------------|-----------------|--------|-----------|------------|
| fresh water spud        | 0' - 1340'      | 8.3    | 28        | NC         |
| brine water             | 1340' - 5220'   | 10.0   | 30-32     | NC         |
| fresh water & cut brine | 5220' - 12744'  | 9.0    | 30-31     | NC         |
| OBM                     | 12744' - 17226' | 12.5   | 50-60     | <10        |

**6. CORES, TESTS, & LOGS**

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈5,220' 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 ≈8730 psi. Expected bottom hole temperature is ≈178° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H<sub>2</sub>S safety package on all wells, an "H<sub>2</sub>S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

**8. OTHER INFORMATION**

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



## Well Control Plan For 10M MASP Section of Wellbore

### Component and Preventer Compatibility Table:

The table below covers the drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

| Component                   | OD         | Preventer                                | RWP |
|-----------------------------|------------|------------------------------------------|-----|
| Drill pipe                  | 4"         | Lower 3.5-5.5" VBR<br>Upper 3.5-5.5" VBR | 10M |
| HWDP                        | 4"         |                                          |     |
| Jars/Agitator               | 4.75-5"    |                                          |     |
| Drill collars and MWD tools | 4.75-5.25" |                                          |     |
| Mud Motor                   | 4.75-5.25" |                                          |     |
| Production casing           | 4.5-5.5"   | Annular                                  | 5M  |
| ALL                         | 0-13.625"  |                                          |     |
| Open-hole                   | -          |                                          |     |
|                             |            | Blind Rams                               | 10M |

VBR = Variable Bore Ram with compatible range listed in chart

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

### Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The maximum pressure at which well control is transferred from the annular to another compatible ram is 3,000 psi.

#### General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps and stop rotary
4. Shut-in well with the annular preventer (The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher and company representative
7. Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time of shut in
8. Regroup and identify forward plan
9. If pressure has increased or is anticipated to increase above 3,000 psi, confirm spacing and close the upper pipe rams

#### General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close



## Well Control Plan For 10M MASP Section of Wellbore

3. Space out drill string
4. Shut-in well with annular preventer (The HCR valve and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher and company representative
7. Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time of shut in
8. Regroup and identify forward plan
9. If pressure has increased or is anticipated to increase above 3,000 psi, confirm spacing and close the upper pipe rams

### General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in well with annular preventer (The HCR valve and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher and company representative
7. Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time of shut in
8. Regroup and identify forward plan
9. If pressure has increased or is anticipated to increase above 3,000 psi, confirm spacing and close the upper pipe rams

### General Procedure with No Pipe In Hole

1. At any point when the BOP stack is clear of pipe or BHA, the well will be shut in with blind rams, the HCR valve will be open, and choke will be closed. If pressure increase is observed:
2. Sound alarm (alert crew)
3. Confirm shut-in
4. Notify tool pusher and company representative
5. Read and record the following:
  - SICP
  - Time of shut in
6. Regroup and identify forward plan

### General Procedure While Pulling BHA through Stack

1. Prior to pulling last joint/stand of drill pipe through the stack, perform flow check. If flowing:
  - a. Sound alarm (alert crew)
  - b. Stab full opening safety valve and close
  - c. Space out drill string
  - d. Shut-in well with annular preventer (The HCR valve and choke will already be in the closed position)
  - e. Confirm shut-in



## Well Control Plan For 10M MASP Section of Wellbore

- f. Notify tool pusher and company representative
  - g. Read and record the following:
    - SIDPP and SICP
    - Pit gain
    - Time of shut in
  - h. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available:
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full opening safety valve and close
  - c. Space out drill string with the upset just beneath the compatible pipe ram
  - d. Shut-in well using compatible pipe rams (The HCR valve and choke will already be in the closed position)
  - e. Confirm shut-in
  - f. Notify tool pusher and company representative
  - g. Read and record the following:
    - SIDPP and SICP
    - Pit gain
    - Time of shut in
  - h. Regroup and identify forward plan
3. With BHA in the stack and no compatible ram preventer and pipe combo immediately available:
  - a. Sound alarm (alert crew)
  - b. If possible to pick up high enough, pull BHA clear of the stack
    - i. Follow "No Pipe in Hole" procedure above
  - c. If impossible to pick up high enough to pull string clear of the stack:
    - i. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
    - ii. Space out drill string with the upset just beneath the compatible pipe ram
    - iii. Shut-in well using compatible pipe rams (The HCR valve and choke will already be in the closed position)
    - iv. Confirm shut-in
    - v. Notify tool pusher and company representative
    - vi. Read and record the following:
      - SIDPP and SICP
      - Pit gain
      - Time of shut in
    - vii. Regroup and identify forward plan

### Well Control Drills

Well control drills are specific to the rig equipment, personnel, and operations. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log.

### **Casing Variance**

Matador requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing which will be less than the 0.422" stand-off regulation. Matador has met with Christopher Walls and Mustafa Haque as well as other BLM representatives and determined that this would be acceptable as long as the 7-5/8" Flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.



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

## SUPO Data Report

07/18/2018

APD ID: 10400030378

Submission Date: 05/18/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Number: 212H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data  
reflects the most  
recent changes

[Show Final Text](#)

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CL\_212H\_Existing\_Road\_Map\_MAP1\_20180518112438.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

CL\_212H\_New\_Road\_Map\_MAP2\_20180518112508.pdf

New road type: LOCAL,RESOURCE

Length: 4312.53

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

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