PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:

MATADOR PRODUCTION COMPANY

HOBBS OCD

RECEIVED

LEASE NO.:

NMLC0063798

WELL NAME & NO.:

Charles Ling Fed Com 202H

SURFACE HOLE FOOTAGE:

360'/N & 1875'/W

BOTTOM HOLE FOOTAGE

240'/S & 2307'/W

LOCATION:

Section 11., T24S., R.33E., NMP

COUNTY: LEA Co

LEA County, New Mexico

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

A. Hydrogen Sulfide

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

B. CASING

- 1. The 13 3/8 inch surface casing shall be set at approximately 1345 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

Variance is approved to use 5M Annular which shall be tested to 5000 psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 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.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement

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

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

MHH 09292018

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

A. CASING

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

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

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Matador Production Company
NMLC0063798
202H:Charles Ling Fed Com
360'/N & 1875'/W
240'/S & 2307'/W
T-24S, R-33E, S11. NMPM
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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Karst
Range
Watershed
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☐ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

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.

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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.

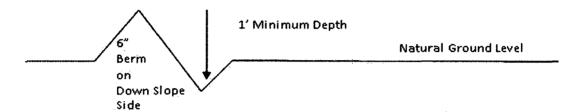
F. EXCLOSURE FENCING (CELLARS & PITS)

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Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope:
$$\frac{400'}{4\%} + 100' = 200'$$
 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.

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 1½ 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

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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.

12. The holder will reseed all disturbed seeding requirements, using the following	l areas. Seeding will be done according to the attached ng seed mix.
() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with the natural color of the lar	oject to safety requirements shall be painted by the holder indscape. The paint used shall be color which simulates ale Green, Munsell Soil Color No. 5Y 4/2.
way and at all road crossings. At a min number, and the product being transport	igns at the point of origin and completion of the right-of- imum, signs will state the holder's name, BLM serial ted. All signs and information thereon will be posted in a ill be maintained in a legible condition for the life of the

- 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. <u>Escape Ramps</u> 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

- 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

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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 (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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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 HermesEngineering

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

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 H₂S 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.

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 H2S 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 H2S areas. Such personnel include rig Site visitor, delivery and camp services personnel.

GENERAL:

Before this H₂S 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 H₂S training program at the drill site.

All In Scope Personnel shall be given H2S training and the steps to be taken during H2S conditions under which the well may be drilled. General information will be explained about toxic gases, as well as the physiological effects of H_2S 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 H₂S Safety Technician or MRC on-site RSE Technician shall make available the H2S 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 H2S 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 H2S awareness and general safety briefing. This briefing will consist of a H2S hazard overview, alarm review and required response to alarms.

C. DRILLING BELOW CONTINGENCY PLAN DEPTH

H2S 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 H2S 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. H2S 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, H₂S monitors and detectors. Knowledge of the location of the H₂S monitors and detectors are vital in determining as our gas location and the severity of the emergency conditions.

After any device has initially detected H2S, all areas of poor ventilation shall be inspected periodically by means of a portable H₂S 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 H2S Technician or designee will mask up, with a buddy and will verify source of H2S 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

III. CONDITIONS AND EMERGENCY PROCEDURES A. DEFINITION OF OPERATIONAL "CONDITIONS"

CONDITION I

"POSSIBLE DANGER"

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 H₂S is detected and it becomes necessary to go to Condition II.

General Action:

a. Be alert for a condition change

b. Check all safety equipment for availability and proper functioning.

c. Perform all drills for familiarization and proficiency.

CONDITION II

"MODERATE DANGER"

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:

a. Be alert for a condition change

b. 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

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 in 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 H2S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H₂S 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 systems shall be mobilized and utilized to conduct any additional on rig work required to correct the H2S release condition.
- i. If well is ignited do not assume area is safe. SO2 is hazardous and not all H2S will burn.

8. Check all of MRC Energy Co.'s monitoring devices and increase gasmonitoring activities with the portable hand-operated H₂S 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 H₂S 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 H₂S, 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 H₂S Monitor is checked and verified with a portable H₂S 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.

3. Mud Engineer

- a. Run a sulfide check on the flowline mud.
- b. Take steps to determine the source of the H₂S and suppress it. Lime and H₂S scavenger shall be added to the mud as necessary.

4. Total H₂S Safety Technician, if on location, or MRC Designee

- a. H2S 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 H₂S detector the alarm area indicated by the fixed H₂S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.
- b. If H₂S is flared, check for sulfur dioxide (SO₂) 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.

- 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 (H₂S) will convert to sulfur dioxide (SO₂), 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 H2S Technician will don a SCBA with a buddy assigned from the rig crew, and continuously monitor for H2S 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 H2S in confirmed by the Total H2S Technician.

Cores will be appropriately marked and sealed for transportation.

- 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 H₂S.

D. Total Safety H₂S 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 H₂S safety equipment to ensure that it is ready for emergency use:
 - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hippacks) 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 H₂S 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 H₂S detectors.
 - Proper location and working order of H₂S 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.

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

V – TOXICITY OF VARIOUS GASES

l adhal	Chemical	Specific		
Lethal Common Name ppm⁴	Formula	Gravity ¹	PEL (OSHA) ²	STEL ³
Hydrogen Cyanide 300	HCN	0.94	10	150
Hydrogen Sulfide 600	H ₂ S	1.18	20 Pea	ık- 50ppm
Note: The ACGIH(7) red	commends a TWA	(6) value of 10p	pm as the TLV(5) for	H2S and an STEL of
15ppm. Sulfur Dioxide 1000	SO ₂	2.21	2	5 ppm
Chlorine	CL ₂	2.45	1	
Carbon Monoxide 1000	СО	0.97	35	200/1 Hour
Carbon Dioxide 10%	CO ₂	1.52	5000	5%
Methane	CH₄	0.55	90000	

 $^{^{1}}$ Air = 1.0

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 rexource by OSHA. The ACGIH releases a biannual 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

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

³ **STEL -** Short Term Exposure Limit. A 15-minute time weighted average.

⁴ Lethal - Concentration that will cause death with short-term exposure.

¹ 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 H₂S 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 (SO₂) is a colorless, non-flammable, transparent gas.
- 2. SO₂ is produced during the burning of H₂S. Although SO₂ is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO₂ 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 SO₂:

CONCEN	TRATION	EFFECTS	
% SO ₂	PPM		
0.0005	3 to 5	Pungent odor, normally a person can detect SO ₂ 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	

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)

TOTAL SAFETY US INC., FIT TEST

X. EMPLOYEE INFORMATION

Employee Name:		**************************************	_ Date:	
Date of Employee Medica	ıl Evaluation:			
Medical Status (circle): Authorized	Unrestricted	Limitations	on Use	Use Not
RESPIRATOR INFORMAT	IOIN			
Respirator Type (Dustma	sk, SCBA, etc):		··· * · · · · · · · · · · · · · · · · ·	
Brand:				
Size: (circle): XS	S	M	L	XL
FIT TEST INFORMATION				
Type of Fit Test Performe	d:			
<u>Quantitative</u> Porta Coun	+	т	it Factor:	
Fittester 300				
Qualitative				
Irritant Smo			Passed / Fa	
Isoamyi Acc Saccharin	etate (Banana Oil	,	'assed / Fa 'assed / Fa	
			assed / Fa	
Bitrex				
Bitrex reby certify that this fittest w	as conducted in a	accordance wit	h the OSH	A Fit Testing

XI. H₂S SAFETY SERVICES

HYDROGEN SULFIDE SAFETY PACKAGE – Contained on location in Total Safety H2S Equipment Trailer, unless otherwise noted:

RESPIRATORY SAFETY SYSTEMS

OTY DESCRIPTION

- 30-Minute Pressure Demand SCBA
 (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

- H2S Fixed Monitor w/8Channels (Loc determined at rig up) suggested.
 (Mud pit area, shaker area, bell nipple area, floor/driller area, & outside quarters)
- 5 H2S Sensors
- 3 Explosion Proof Alarms (Light and Siren)
 (1 on floor, 1 in work area, 1 in trailer area where quarters are located)
- 2 Personal H2S monitors
- 1 Portable Tri-Gas Hand Held Meter (O2, LEL, H2S)
- 1 Sensidyne/Gastech Manual Pump Type Detector
- 8 Boxes H2S Tubes Various Ranges
- 2 Boxes SO2 Tubes Various Ranges
- 1 Calibration Gas
- 1 Set Paper Work for Records: Training, Cal, Inspection, other

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

Title	Names	Phone	Cell
Operations Manager			
Operation Supt.			
Operations			
Supervisor			
Operations			
Supervisor			
Office Supervisor			
HSE			
Scheduler Planner			

Hydrogen Sulfide Safety Consultants

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

State Police (911)

State Luffee (711)		
Texas DPS Loving co. 225 N.Pecos	Office Number	432-377-2411
Mentone, Texas 79754		
Texas DPS Winkler Co.		
100 E Winkler	Office Number	432-586-3465
Kermit, Texas 79745		
Texas DPS Pecos Co.		
148 N I-20 Frontage RD	Office Number	432-447-3532
Pecos, Texas 79772		
New Mexico State Police		
3300 W. Main St	Office Number	575-748-9718
Artesia, NM		
New Mexico State Police	}	
304 N. Canyon St	Office Number	575-885-3137
Carlsbad, NM 88220		
New Mexico State Police		
5100 Jack Gomez Blvd.	Office Number	575-392-5588
Hobbs, NM 88240		

Local Law Enforcement (911) (Sheriff)

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

XIII. EVACUATION OF THE GENERAL PUBLIC

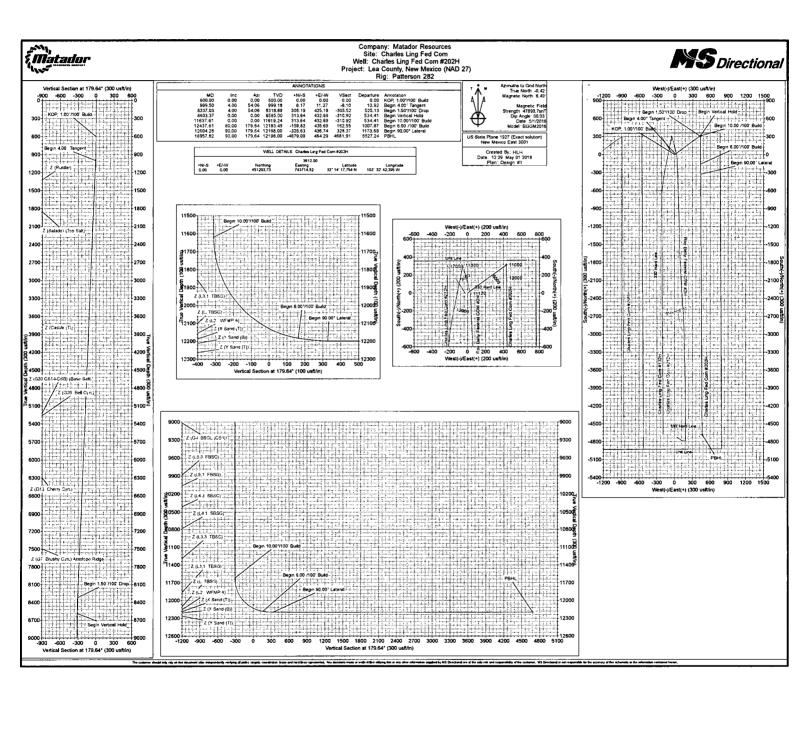
The procedure to be used in alerting nearby persons in the event of any occurrence that could pose a threat to life or property will be arranged and completed with public officials in detail, prior to drilling into the hydrogen sulfide formations.

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

- 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





MS Directional

Planning Report



Database: Company: EDM 5000.14 Conroe DB

Matador Resources

Project: Site: Well: Lea County, New Mexico (NAD 27)

Charles Ling Fed Com
Charles Ling Fed Com #202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282)

WELL @ 3640.50usft (Patterson 282)
WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

Project Lea County, New Mexico (NAD 27)

Map System: Geo Datum: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Well Charles Ling Fed Com #202H

Well Position +N/-S +E/-W 11.47 usft 1,289.46 usft Northing: Easting:

451,293.73 usft 743,714.52 usft Latitude: Longitude: 32° 14' 17.754 N 103° 32' 42.395 W

Position Uncertainty

0.00 usft

Wellhead Elevation:

Ground Level:

3,612.00 usft

Wellbore	Wellbore #1	gerigen in den generalen film er semenen en engel geste er ensembligtigen en generalen in den er in 1862 en 1862 en en e	er et fan de skrive en ster en skrive fan de skrive en skrive fan de skrive en skrive en skrive en skrive en s Andre er verken i trek en de skrive en de skrive en de skrive en skrive en skrive en skrive en skrive en de skrive		
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength (nT)
and the second s	BGGM2018	5/1/2018	6.92	60.03	47,900

Design	Design #1			
Audit Notes:			12-1	
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
1	(usft)	(usft)	(usft)	(°)
Proposition of Control of States of	0.00	0.00	0.00	179.64

	Plan Survey Tool P	rogram Date 5/1/2018		
	Depth From	Depth To		
	(usft)	(usft) Survey (Wellbore)	Tool Name	Remarks
į	1 0.00	16,957.82 Design #1 (Wellbore #1)	MWD	

OWSG MWD - Standard

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	-mingellingsplatepilling or some planes a taken opposite mines, open mysopoli
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
999.50	4.00	54.06	999.18	8.17	11.27	1.00	1.00	0.00	54.06	
8,337.03	4.00	54.06	8,318.88	308.19	425.18	0.00	0.00	0.00	0.00	
8,603.37	0.00	0.00	8,585.00	313.64	432.69	1.50	-1.50	0.00	180.00	VP - Charles Ling
11,637.61	0.00	0.00	11,619.24	313.64	432.69	0.00	0.00	0.00	0.00	
12,437.61	80.00	179.64	12,183.49	-159.82	435.69	10.00	10.00	0.00	179.64	PBHL - Charles L
12,604.28	90.00	179.64	12,198.00	-325.63	436.74	6.00	6.00	0.00	0.00	
16,957.82	90.00	179.64	12.198.00	-4.679.09	464.29	0.00	0.00	0.00	0.00	PBHL - Charles I



MS Directional

Planning Report



Database: EDM 5000.14 Conroe DB Matador Resources

Company: Project: Lea County, New Mexico (NAD 27)

Charles Ling Fed Com Site: Charles Ling Fed Com #202H Well:

Wellbore #1 Wellbore: Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Minimum Curvature

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Planned Survey		indeplated play integrals described and interview of comparations of programs. The second of the se							
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build *** Rate	Turn Rate
(usft)	· incunation	Azımum (°)	(usft)	(usft)	(usft)	(usft)	a series and a series are a series and a ser	(°/100usft)	
4,300.00	4.00	54.06	4,291.66	143.12	197.45	-141.88	0.00	0.00	0.00
4,400.00	4.00	54.06	4,391.41	147.21	203.09	-145.93	0.00	0.00	0.00
4,500.00	4.00	54.06	4,491.17	151.30	208.73	-149.99	0.00	0.00	0.00
4,600.00	4.00	54.06	4,590.93	155.39	214.37	-154.04	0.00	0.00	0.00
4,700.00	4.00	54.06	4,690.68	159.48	220.01	-158.09	0.00	0.00	0.00
4,800.00	4.00 4.00	54.06 54.06	4,790.44 4,890.20	163.57 167.66	225.65 231.30	-162.15	0.00	0.00 0.00	0.00 0.00
4,900.00 5,000.00	4.00	54.06 54.06	4,890.20	171.75	236.94	-166.20 -170.25	0.00 0.00	0.00	0.00
5,100.00	4.00	54.06	5,089.71	175.83	242.58	-174.31	0.00	0.00	0.00
5,200.00	4.00	54,06	5,189.47	179.92	248.22	-178.36	0.00	0.00	0.00
5,226.09	4.00	54.06	5,215.50	180.99	249.69	-179.42	0.00	0.00	0.00
Z (G30:CS	14-CSB) (Base	e Salt)							
5,269.20	4.00	54.06	5,258.50	182.75	252.12	-181.17	0.00	0.00	0.00
Z (G26: Be	• •								
5,300.00	4.00	54.06	5,289.23	184.01	253.86	-182.41	0.00	0.00	0.00
9 5/8"									
5,400.00	4.00	54.06	5,388.98	188.10	259.50	-186.47	0.00	0.00	0.00
5,500.00	4.00	54.06	5,488.74	192.19	265.14	-190.52	0.00	0.00	0.00
5,600.00	4.00	54.06	5,588.50	196.28	270.78	-194.57	0.00	0.00	0.00
5,700.00	4.00	54.06 54.06	5,688.25	200.37	276.42	-198.63	0.00	0.00	0.00
5,800.00	4.00	54.06	5,788.01	204.46	282.06	-202.68	0.00	0.00	0.00
5,900.00	4.00	54.06	5,887.77	208.55	287.70	-206.73	0.00	0.00	0.00
6,000.00	4.00	54.06	5,987.53	212.63	293.35	-210.79	0.00	0.00	0.00
6,100.00 6,200.00	4.00 4.00	54.06 54.06	6,087.28 6,187.04	216.72 220.81	298.99 304.63	-214.84 -218.89	0.00 0.00	0.00 0.00	0.00 0.00
6,300.00	4.00	54.06	6,286.80	224.90	310.27	-222.95	0.00	0.00	0.00
6,312.73	4.00	54.06	6,299.50	225.42	310.99	-223.46	0.00	0.00	0.00
	nerry Cyn.)	555			0.0.00				
6,400.00	4.00	54.06	6,386.55	228.99	315.91	-227.00	0.00	0.00	0.00
6,500.00	4.00	54.06	6,486.31	233.08	321.55	-231.05	0.00	0.00	0.00
6,600.00	4.00	54.06	6,586.07	237.17	327.19	-235.11	0.00	0.00	0.00
6,700.00	4.00	54.06	6,685.82	241.26	332.83	-239.16	0.00	0.00	0.00
6,800.00	4.00	54.06	6,785.58	245.35	338.47	-243.21	0.00	0.00	0.00
6,900.00	4.00	54.06	6,885.34	249.43	344.11	-247.27	0.00	0.00	0.00
7,000.00	4.00 4.00	54.06 54.06	6,985.10 7,084.85	253.52 257.61	349.75 355.40	-251.32 -255.37	0.00 0.00	0.00 0.00	0.00 0.00
7,100.00 7,200.00	4.00	54.06 54.06	7,064.65 7,184.61	261.70	361.04	-259.43	0.00	0.00	0.00
i									
7,300.00 7,400.00	4.00 4.00	54.06 54.06	7,284.37 7,384.12	265.79 269.88	366.68 372.32	-263.48 -267.53	0.00 0.00	0.00 0.00	0.00 0.00
7,400.00		54.06 54.06	7,364.12 7,483.88	273.97	377.96	-207.53 -271.59	0.00	0.00	0.00
7,510.65	4.00	54.06	7,494.50	274.40	378.56	-272.02	0.00	0.00	0.00
	shy Cyn.) Anto								
7,600.00	4.00	54.06	7,583.64	278.06	383.60	-275.64	0.00	0.00	0.00
7,700.00	4.00	54.06	7,683.40	282.15	389,24	-279.69	0.00	0.00	0.00
7,800.00	4.00	54.06	7,783.15	286.23	394.88	-283.75	0.00	0.00	0.00
7,900.00	4.00	54.06	7,882.91	290.32	400.52	-287.80	0.00	0.00	0.00
8,000.00	4.00	54.06	7,982.67	294.41	406.16	-291.85	0.00	0.00	0.00
8,100.00	4.00	54.06	8,082.42	298.50	411.80	-295.91	0.00	0.00	0.00
8,200.00	4.00	54.06	8,182.18	302.59	417.45	-299.96	0.00	0.00	0.00
8,300.00	4.00	54.06	8,281.94	306.68	423.09	-304.01	0.00	0.00	0.00
8,337.03	4.00	54.06	8,318.88	308.19	425.18	-305.52	0.00	0.00	0.00
)°/100' Drop	E4 00	0 204 70	240.46	400.04	207 77	4 50	. 4.50	0.00
8,400.00	3.05	54.06	8,381.73	310.46	428.31	-307.77	1.50	-1.50	0.00



MS Directional

Planning Report



Database: Company: Project: EDM 5000.14 Conroe DB

Matador Resources

Lea County, New Mexico (NAD 27)
Charles Ling Fed Com

Site: Well:

Charles Ling Fed Com #202H

Wellbore: . Design: Wellbore #1
Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
Z (L3.1: TE	BSG)	and the state of t		management, which is a substitute grant again	transport of approximation and			, reference in the control of the second sec	
11,900.00	26.24	179.64	11,872.56	254.60	433.06	-251.88	10.00	10.00	0.00
11,950.00	31.24	179.64	11,916.38	230.57	433.22	-227.84	10.00	10.00	0.00
12,000.00	36.24	179.64	11,957.95	202.81	433,39	-200.08	10.00	10.00	0.00
12,050.00	41.24	179.64	11,996.94	171.53	433.59	-168.80	10.00	10.00	0.00
12,100.00	46.24	179.64	12,033.05	136.97	433.81	-134.24	10.00	10.00	0.00
12,150.00	51.24	179.64	12,066.01	99.40	434.05	-96.67	10.00	10.00	0.00
12,200.00	56.24	179.64	12,095.58	59.10	434.30	-56.37	10.00	10.00	0.00
12,205.30	56.77	179.64	12,098.50	54.68	434.33	-51.95	10.00	10.00	0.00
Z (L. TBSC 12,250.00	61.24	179.64	12,121.52	16.37	434.57	-13.64	10.00	10.00	0.00
	66.24	179.64	12,121.52	-28.45	434.86	31.19	10.00	10.00	
12,300.00		179.64				55.05			0.00
12,325.82 Z (L2: WF	68.82 MP A)	179.04	12,153.50	-52.32	435.01	55.05	10.00	10.00	0.00
12,350,00	71.24	179.64	12,161.76	-75.04	435.15	77.77	10.00	10.00	0.00
•	71.24 76.24	179.64	12,161.76	-75.04 -123.02	435.15	17.77 125.75	10.00	10.00	0.00
12,400.00 12,437.61	76.2 4 80.00	179.64 179.64	12,175.75	-123.02 -159.82	435.45 435.69	162.55	10.00	10.00	0.00
	00.00 1°/ 100' Build - 7		12,100.78	-133.02	755.08	102.00	10.00	10.00	0.00
12,449.59 Z (X Sand	80.72	179.64	12,185.50	-171.63	435.76	174.36	6.00	6.00	0.00
12,450.00	80.74	179.64	12,185.57	-172.03	435.76	174.77	6.00	6.00	0.00
12.500.00	83.74	179.64	12,192,31	-221.57	436.08	224.30	6.00	6.00	0.00
12,550.00	86.74	179.64	12,196.46	-271.39	436.39	274.13	6.00	6.00	0.00
12,604.28	90.00	179.64	12,198.00	-325.63	436.74	328,37	6.00	6.00	0.00
Begin 90.0						-			
12,700.00	90.00	179.64	12,198.00	-421.36	437.34	424.10	0.00	0.00	0.00
12,800.00	90.00	179.64	12,198.00	-521.35	437.97	524.10	0.00	0.00	0.00
12,900.00	90.00	179.64	12,198.00	-621.35	438.61	624.10	0.00	0.00	0.00
13,000.00	90.00	179.64	12,198.00	-721.35	439.24	724.10	0.00	0.00	0.00
13,100.00	90.00	179.64	12,198.00	-821.35	439.87	824.10	0.00	0.00	0.00
13,200.00	90.00	179.64	12,198.00	-921.35	440.51	924.10	0.00	0.00	0.00
13,300.00	90.00	179.64	12,198.00	-1,021.34	441.14	1,024.10	0.00	0.00	0.00
13,400.00	90.00	179.64	12,198.00	-1,121.34	441.77	1,124.10	0.00	0.00	0.00
13,500.00	90.00	179.64	12,198.00	-1,221.34	442.41	1,224.10	0.00	0.00	0.00
13,600.00	90.00	179.64	12,198.00	-1,321.34	443.04	1,324.10	0.00	0.00	0.00
13,700.00	90.00	179.64	12,198.00	-1,421.34	443.67	1,424.10	0.00	0.00	0.00
13,800.00	90.00	179.64	12,198.00	-1,521.33	444.30	1,524.10	0.00	0.00	0.00
13,900.00	90.00	179.64	12,198.00	-1,621.33	444.94	1,624.10	0.00	0.00	0.00
14,000.00	90.00	179.64	12,198.00	-1,721.33	445.57	1,724.10	0.00	0.00	0.00
14,100.00	90.00	179.64	12,198.00	-1,821.33	446.20	1,824.10	0.00	0.00	0.00
14,200.00	90.00	179.64	12,198.00	-1,921.33	446.84	1,924.10	0.00	0.00	0.00
14,300.00	90.00	179.64	12,198.00	-2,021.32	447.47	2,024.10	0.00	0.00	0.00
14,400.00	90.00	179.64	12,198.00	-2,121.32	448.10	2,124.10	0.00	0.00	0.00
14,500.00	90.00	179.64	12,198.00	-2,221.32	448.73	2,224.10	0.00	0.00	0.00
14,600.00	90.00	179.64	12,198.00	-2,321.32	449.37	2,324.10	0.00	0.00	0.00
14,700.00 14,800.00	90.00 90.00	179.64 179.64	12,198.00 12,198.00	-2,421.32 -2,521.31	450.00 450.63	2,424.10 2,524.10	0.00 0.00	0.00 0.00	0.00 0.00
14,900.00 15,000.00	90.00 90.00	179.64 179.64	12,198.00 12,198.00	-2,621.31 -2,721.31	451.27 451.90	2,624.10 2,724.10	0.00 0.00	0.00 0.00	0.00 0.00
15,000.00	90.00	179.64	12,198.00	-2,721.31 -2,821.31	452.53	2,724.10	0.00	0.00	0.00
15,100.00	90.00	179.64	12,198.00	-2,021.31 -2,921.31	452.53 453.16	2,824.10	0.00	0.00	0.00
10,200.00									
15,300.00	90.00	179.64	12,198.00	-3,021.30	453.80	3,024.10	0.00	0.00	0.00



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 #202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

Formations			Canting and the second state of the second sta	
Measured Depth (usft)	Vertical Depth (usft)	Name L	Dip Dittiology	Dip rection (c)
1,321.61	1,320.50	Z (Rustler)	0.00	179.64
1,851.89	1,849.50	Z (Salado) (Top Salt)	0.00	179.64
3,747.50	3,740.50	Z (Castile (T))	0.00	179.64
5,226.09	5,215.50	Z (G30:CS14-CSB) (Base Salt)	0.00	179.64
5,269.20	5,258.50	Z (G26: Bell Cyn.)	0.00	179.64
6,312.73	6,299.50	Z (G13: Cherry Cyn.)	0.00	179.64
7,510.65	7,494.50	Z (G7: Brushy Cyn.) Antelope Ridge	0.00	179.64
9,034.87	9,016.50	Z (G4: BSGL (CS9))	0.00	179.64
9,899.87	9,881.50	Z (L5.3: FBSC)	0.00	179.64
10,077.87	10,059.50	Z (L5.1: FBSG)	0.00	179.64
10,428.87	10,410.50	Z (L4.3: SBSC)	0.00	179.64
10,802.87	10,784.50	Z (L4.1: SBSG)	0.00	179.64
11,309.87	11,291.50	Z (L3.3: TBSC)	0.00	179.64
11,886.64	11,860.50	Z (L3.1: TBSG)	0.00	179.64
12,205.30	12,098.50	Z (L. TBSG)	0.00	179.64
12,325.82	12,153.50	Z (L2: WFMPA)	0.00	179.64
12,449.59	12,185.50	Z (X Sand (T))	0.00	179.64

Plan Annotations Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	nates +E/-W (usft)	Comment
600.00	600.00	0.00	0.00	KOP, 1.00°/100' Build
999.50	999.18	8.17	11.27	Begin 4.00° Tangent
8,337.03	8,318.88	308.19	425.18	Begin 1.50°/100' Drop
8,603.37	8,585.00	313.64	432.69	Begin Vertical Hold
11,637.61	11,619.24	313.64	432.69	Begin 10.00°/100' Build
12,437.61	12,183.49	-159.82	435.69	Begin 6.00°/100' Build
12,604.28	12,198.00	-325.63	436.74	Begin 90.00° Lateral
16,957.82	12,198.00	-4,679.09	464.29	PBHL



Anticollision Report



Company: Matador Resources

Project: Lea County, New Mexico (NAD 27)

Reference Site: Charles Ling Fed Com

0.00 usft Site Error:

Reference Well: Charles Ling Fed Com #202H

Reference Wellbore | Wellbore #1

Well Error: 0.00 usft

Reference Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset Datum

Reference Design #1

NO GLOBAL FILTER: Using user defined selection & filtering criteria Filter type:

Interpolation Method: MD + Stations Interval 100.00usft

Depth Range: Unlimited

Results Limited by:

Maximum center-center distance of 10,000.00 u

Warning Levels Evaluated at:

Error Model:

Scan Method: **Error Surface:**

Casing Method:

ISCWSA

Closest Approach 3D Pedal Curve

Not applied

Survey Tool Program Date 5/1/2018 6:5

> From (usft)

То

(usft)

Survey (Wellbore)

2.00 Sigma

Tool Name

Description

0.00 16,957.82 Design#1 (Wellbore #1)

MWD

OWSG MWD - Standard

	Reference	Offset	Dista	nco		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses	Separation Factor	Warning
Charles Ling Fed Com	Action of the control	control of the second s	an a committee of the second s		the a total absolute from the contract of the	discharge the research statement with the research to the
Charles Ling Fed Com #132H - Wellbore #1 - Design #1	1,150.10	1,149.41	17.44	9.66	2.242 CC	
Charles Ling Fed Com #132H - Wellbore #1 - Design #1	1,200.00	1,199.19	17.78	9.64	2.184 ES,	SF
Charles Ling Fed Com #201H - Wellbore #1 - Design #1	8,173.44	8,248.44	1,312.84	1,253.64	22.175 CC	
Charles Ling Fed Com #201H - Wellbore #1 - Design #1	16,957.82	16,990.85	1,319.08	1,140.20	7.374 ES,	SF
Charles Ling Fed Com #212H - Wellbore #1 - Design #1	600.00	599.00	30.00	26.16	7.817 CC,	ES
Charles Ling Fed Com #212H - Wellbore #1 - Design #1	16,957.82	17,231.88	714.48	544.90	4.213 SF	
Roy Batty Federal COM						
Roy Batty Federal COM #2H - Wellbore #1 - Surveys	11,137.98	15,660.00	509.83	396.02	4.480 CC.	ES, SF
Roy Batty Federal COM #3H - Wellbore #1 - Surveys	11,159.38	15,392.00	1,184.99	1,069.46	10.258 CC,	•
Roy Batty Federal COM #3H - Wellbore #1 - Surveys	11,200.00	15,392.00	1,185.68	1,070.01	10.250 SF	
Stevens "11"						
Stevens 11 1 - Wellbore #1 - Surveys	15,215.75	12,207.22	337.76	4.50	1.014 Leve	el 2, CC, ES, SF

Offset D	esign	Charle	s Ling Fe	d Com - (Charles	Ling Fed Co	om #132H - \	Wellbore #	1 - Desig	n #1	an an employ of an and an an and	7	Offset Site Error:	0,00 usf
Survey Pro Refer	gram: 0-M ence			Semi Majo	1,344		and a region of the control of the c		Dista	٠.			Offset Well Error:	0,00 us
Veasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0,00	0.00	0.00	0.00	89.60	0.21	30.00	30.00					
100.00	100.00	100.00	100.00	0.13	0.13	89.60	0.21	30.00	30.00	29.75	0.26	117.054		
200.00	200.00	200.00	200.00	0.49	0.49	89.60	0.21	30.00	30.00	29.03	0.97	30,826		
300.00	300.00	300,00	300.00	0.85	0.85	89.60	0.21	30.00	30.00	28.31	1.69	17.750		
400.00	400.00	400.00	400.00	1.20	1.20	89.60	0.21	30.00	30.00	27.59	2.41	12.464		
500.00	500.00	500.00	500,00	1.56	1.56	89.60	0.21	30.00	30.00	26.88	3,12	9,603		
600.00	600.00	600.00	600.00	1.92	1.92	89.60	0.21	30.00	30.00	26.16	3.84	7.811		
700.00	699.99	699.99	699.99	2,28	2.28	90.59	0,21	30.00	29.30	24.74	4.55	6.432		
800,00	799.96	799.96	799.96	2.63	2.64	93,87	0,21	30,00	27.24	21.97	5.27	5.172		
900.00	899.86	899.86	899,86	2.99	3,00	100.54	0.21	30.00	24.05	18.07	5.98	4.022		
999.50	999.18	999.18	999.18	3.34	3.35	113.03	0.21	30.00	20.35	13.66	6.69	3.041		
1,000.00	999.68	999.68	999.68	3.34	3.35	113.11	0.21	30.00	20.33	13.64	6.69	3.037		
1,100.00	1,099.43	1,099.43	1,099.43	3.71	3.71	132.74	0.21	30,00	17.78	10.37	7.42	2.398		
1,150,10	1,149,41	1,149,41	1,149.41	3.89	3.89	144.06	0.21	30.00	17.44	9.66	7.78	2.242 (CC	



Anticollision Report



AND THE RESERVE AND ADDRESS OF THE PARTY OF

Company: Matador Resources

Project: Lea County, New Mexico (NAD 27)

Reference Site: Charles Ling Fed Com

Site Error: 0.00 usft

Charles Ling Fed Com #202H Reference Well:

Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

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7,000.00	6,800.00	6,785.58	6,796.49	6,785.58	24.92	24.55	-80.70	309.33	-52.14	395,81	346.81	49.00	8.078		
Table Tabl	6,900.00	6,885.34	6,896.24	6,885.34	25.29	24.90	-81,40	309.33	-52.14	400.75	351.04	49.71	8.061		
Table Tabl	7.000.00	6.985.10	6.996.00	6,985,10	25.66	25.25	-82.09	309.33	-52.14	405.75	355.32	50.43	8.046		
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8,63,37 8,585,00 8,595,90 8,595,00 8,161 30,88 -90.51 309.33 -52.14 484,84 423,02 61.83 7,842 8,700.00	8,500.00	8,481.64	8,492.55	8,481.64	31.25	30.52	-90.41	309.33	-52.14	483,71	422.61	61,10	7.917		
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9,400.00 9,381.63 9,392.54 9,381.63 34.33 33.70 -90.51 309.33 -52.14 484.84 417.44 67.40 7.193 9,500.00 9,481.63 9,592.54 9,581.63 34.68 34.05 -90.51 309.33 -52.14 484.84 416.74 68.11 7.119 9,600.00 9,581.63 9,592.54 9,581.63 35.02 34.41 -90.51 309.33 -52.14 484.84 416.04 68.81 7.046 9,700.00 9,681.63 9,692.54 9,881.63 35.36 34.76 -90.51 309.33 -52.14 484.84 416.04 68.81 7.046 9,700.00 9	9,200.00	9,181.63	9,192.54	9,181.63	33.65	32.99	-90.51	309.33	-52.14	484.84	418.84	66.00	7.346		
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10,900.00 10,881.63 10,892.54 10,881.63 39.51 39.02 -90.51 309.33 -52.14 484.84 406.89 77.96 6.219 11,000.00 10,981.63 10,992.54 10,981.63 39.85 39.38 -90.51 309.33 -52.14 484.84 406.18 78.66 6.163 11,100.00 11,081.63 11,092.54 11,081.63 40.20 39.73 -90.51 309.33 -52.14 484.84 406.47 79.37 6.109 11,200.00 11,181.63 11,192.54 11,181.63 40.55 40.09 -90.51 309.33 -52.14 484.84 404.77 80.08 6.055	10,700.00	10,001.03	10,092.54	10,001.03	30,01	35.31	- 3 0.51	309.33	-52.14	404.64	400,30	70.00	0.334		
10,900.00 10,881.63 10,892.54 10,881.63 39.51 39.02 -90.51 309.33 -52.14 484.84 406.89 77.96 6.219 11,000.00 10,981.63 10,992.54 10,981.63 39.85 39.38 -90.51 309.33 -52.14 484.84 406.18 78.66 6.163 11,100.00 11,081.63 11,092.54 11,081.63 40.20 39.73 -90.51 309.33 -52.14 484.84 405.47 79.37 6.109 11,200.00 11,181.63 11,192.54 11,181.63 40.55 40.09 -90.51 309.33 -52.14 484.84 404.77 80.08 6.055	10,800.00	10,781.63	10,792,54	10,781.63	39.16	38.67	-90,51	309.33	-52.14	484.84	407.59	77.25	6.276		
11,000.00 10,981.63 10,992.54 10,981.63 39.85 39.88 -90.51 309.33 -52.14 484.84 406.18 78.66 6.163 11,100.00 11,081.63 11,092.54 11,081.63 40.20 39.73 -90.51 309.33 -52.14 484.84 405.47 79.37 6.109 11,200.00 11,181.63 11,192.54 11,181.63 40.55 40.09 -90.51 309.33 -52.14 484.84 404.77 80.08 6.055									-52.14						
11,200.00 11,181.63 11,192.54 11,181.63 40.55 40.09 -90.51 309.33 -52.14 484.84 404.77 80.08 6.055					39.85	39,38			-52.14	484.84	406.18	78.66	6.163		
	11,100.00	11,081.63	11,092.54	11,081.63	40.20	39.73	-90.51	309.33	-52.14	484.84	405.47	79.37	6.109		
11,300.00 11,281.63 11,292.54 11,281.63 40.90 40.44 -90.51 309.33 -52.14 484.84 404.06 80.78 6.002	11,200.00	11,181.63	11,192.54	11,181.63	40.55	40.09	-90.51	309.33	-52.14	484.84	404.77	80.08	6.055		
11,000,00 11,201,00 11,202,04 11,201,00 40,40 40,40 40,00 00,70 00,00	11 200 00	11 201 62	11 202 54	11 201 62	. 40.00	40.44	_DO E4	300 33	_E2 14	101 04	404 0e	90.70	6 002		
	11,300.00	11,251.03	11,292.34	11,201.03	40,90	40,44	-30,01	309,33	-52.14	404.64	404.00	00.78	0.002		



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 #202H

Well Error: 0.00 usft
Reference Wellbore Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference;

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

at Co-ordinate Reference: Vveil Charles Ling

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset D	esign	- Charle	s Ling Fe			Ling Fed Co	om #132H - V			n#1	-	أيسلسها ويستسها	Offset Site Error: 0.00 us
urvey Pro Refer	gram: 10-M ence	WD Offs	i ét	Semi Majo					Dist	ince			Offset Well Error: 0.00 us
leasured Depth (usft)	. Depth :	Measured • Depth		Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W	Between Centres		Separation	Separation Factor	
15,200.00	12,198.00	15,020.81	12,006.00	65.73	64.89	-90.38	-2,925,69	-205.97	686.54	560.30	126.25	5.438	نه از دانده از دانده و بازه در در این در در این در
15,300.00	12,198.00	15,120.81	12,006.00	66.98	66.14	-90.38	-3,025.68	-205.31	686.51	557.85	128.67	5.336	
15,400.00	12,198.00	15,220.81	12,006.00	68.24	67.41	-90.38	-3,125.68	-204.64	686.48	555.36	131.12	5.235	
15,500.00	12,198.00	15,320.81	12,006.00	69.52	68.69	-90.38	-3,225.68	-203.98	686.45	552.85	133.61	5.138	
15,600.00	12,198,00	15,420,81	12,006.00	70.82	69.99	-90.38	-3,325.68	-203.31	686.42	550.30	136.12	5.043	
15,700.00	12,198.00	15,520.81	12,006.00	72.13	71.30	-90.38	-3,425.67	-202.65	686.39	547.73	138.67	4.950	
15,800.00	12,198.00	15,620.81	12,006.00	73.45	72.63	-90.38	-3,525.67	-201.98	686.36	545.13	141.24	4.860	
15,900.00	12,198.00	15,720.81	12,006.00	74.79	73.97	-90.38	-3,625.67	-201.32	686.33	542.50	143.83	4.772	
16,000.00	12,198.00	15,820.81	12,006,00	76.14	75.33	-90.38	-3,725.67	-200.65	686.30	539.85	146.45	4.686	
16,100.00	12,198.00	15,920.81	12,006.00	77.50	76.69	-90.38	-3,825.67	-199.99	686.27	537.18	149,10	4.603	
16,200.00	12,198.00	16,020.81	12,006.00	78.87	78.07	-90.38	-3,925.66	-199.33	686.24	534.48	151.76	4.522	
6,300.00	12,198.00	16,120.81	12,006.00	80.25	79.45	-90.38	-4,025.66	-198.66	686.21	531.77	154.44	4.443	
16,400.00	12,198.00	16,220.81	12,006.00	81.65	80.85	-90.38	-4,125.66	-198.00	686.18	529.03	157,15	4,366	
16,500.00	12,198.00	16,320.81	12,006.00	83.05	82.26	-90.38	-4,225.66	-197.33	686.15	526.28	159.87	4.292	
16,600,00	12,198,00	16,420,81	12,006,00	84,46	83.67	-90.38	-4,325.66	-196.67	686.12	523,51	162.61	4.219	
6,700.00	12,198.00	16,520.81	12,006.00	85.88	85.10	-90.38	-4,425.65	-196.00	686.09	520.72	165.37	4.149	,
6,800.00	12,198.00	16,620.81	12,006.00	87.31	86.53	-90.38	-4,525.65	-195.34	686.06	517.92	168,14	4.080	
16,900.00	12,198.00	16,720.81	12,006,00	88.74	87.97	-90.38	-4,625.65	-194.68	686.03	515,10	170.92	4.014	
6,957.82	12,198.00	16,778.63	12,006,00	89.57	88.80	-90.38	-4,683,47	-194.29	686.01	513.47	172.54	3.976	



Anticollision Report



Company: Matador Resources

Lea County, New Mexico (NAD 27) Project:

Reference Site: Charles Ling Fed Com

Site Error: 0.00 usft

Reference Well: Charles Ling Fed Com #202H

Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Offset TVD Reference:

Database:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset D	esign	Charle	s Ling Fe	ed Com - (Charles	Ling Fed C	om #201H - '	Wellbore #	1 - Desig	n#1		*	Offset Site Error:	0.00 usft
Survey Pro Refer				Semi Majo	1			28.		ance	The second secon		Offset Well Error:	0,00 usft
Measured		Measured		Reference	-	Azimuth	Offset Wellbo	re Centre			Minimum	Separation •	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usit)	from North (°)		+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		The state of the s	
5,100.00	5,089.71	5,174.99	5,164.26	18.57	18.87	-90.24	170.37	-1,068.56	1,313.27	1,276.50	36.77	35.716	liting additionant along the second	
5,200.00	5,189.47	5,274.99	5,264.01	18.94	19.25	-90.24	174.47	-1,062.91	1,313.25	1,275.75	37.50	35.021		
5,300.00	5,289.23	5,374.99	5,363.77	19.32	19.62	-90.24	178.56	-1,057.25	1,313.24	1,275.01	38.23	34.352		
5,400.00	5,388.98		5,463.53	19.69	19.99	-90.24	182.66	-1,051.60	1,313.23		38.96	33.708		
5,500.00	5,488.74		5,563,28	20.06	20,37	-90.24	186.76	-1,045.94	1,313.21		39.69	33.088		
5,600.00	5,588.50	5,674.99	5,663.04	20.44	20.74	-90.24	190.86	-1,040.29	1,313.20	1,272.78	40.42	32.490		
5,700.00	5,688.25		5,762.79	20.81	21.11	-90.24	194.96	-1,034.63	1,313.18		41.15	31,913		
5,800.00	5,788.01		5,862.55	21.18	21.49	-90.24	199.06	-1,028.98	1,313.17		41.88	31.357		
5,900.00	5,887.77		5,962.30	21.56	21.86	-90.24	203.16	-1,023.32	1,313.16		42.61	30.819		
6,000.00	5,987.53		6,062.06	21.93	22,23	-90,24	207.26	-1,017.67	1,313.14		43.34	30.300		
6,100.00	6,087.28	6,174.99	6,161.82	22.30	22.61	-90.23	211.35	-1,012.02	1,313.13	1,269.06	44.07	29.798		
6,200.00	6,187.04		6,261.57	22.68	22.98	-90.23	215.45	-1,006.36	1,313.12	1,268.32	44.80	29.312		
6,300.00	6,286.80		6,361,33	23.05	23,35	-90,23	219,55	-1,000,71	1,313.10		45.53	28.842		
6,400.00	6,386.55		6,461.08	23.42	23.73	-90.23	223.65	-995.05	1,313.09		46.26	28.386		
6,500.00	6,486.31		6,560,84	23.80	24.10	-90.23	227.75	-989.40	1,313.07		46,99	27,945		
6,600.00	6,586.07	6,674.99	6,660.60	24.17	24.47	-90.23	231.85	-983.74	1,313.06	1,265.34	47.72	27.517		
6,700.00	6,685.82	6,774.99	6,760.35	24.54	24.85	-90.23	235.95	-978.09	1,313.05	1,264.60	48.45	27.102		
6,800.00	6,785,58	6,874.99	6,860,11	24.92	25.22	-90.23	240.05	-972.43	1,313.03	1,263,86	49.18	26,700		
6,900.00	6,885.34	6,974.99	6,959.86	25.29	25.59	-90.23	244.14	-966.78	1,313.02	1,263.11	49.91	26.309		
7,000.00	6,985.10	7,074.99	7,059.62	25.66	25.97	-90.23	248.24	-961.12	1,313.01	1,262.37	50.64	25.930		
7,100.00	7,084.85	7,174.99	7,159.37	26.04	26.34	-90.23	252.34	- 955.47	1,312.99	1,261.62	51.37	25.561		
7,200.00	7,184.61	7,274.99	7,259.13	26.41	26.71	-90.23	256.44	-949.81	1,312.98	1,260.88	52.10	25.202		
7,300.00	7,284.37	7,374.99	7,358.89	26.78	27.09	-90.23	260.54	-944.16	1,312.96	1,260.14	52.83	24.854		
7,400.00	7,384.12	7,474.99	7,458.64	27.16	27.46	-90.23	264.64	-9 38.51	1,312.95	1,259.39	53.56	24.515		
7,500.00	7,483.88	7,574.99	7,558.40	27.53	27.84	-90.23	268.74	-932.85	1,312.94	1,258.65	54.29	24,185		
7,600.00	7,583.64	7,674.99	7,658.15	27.91	28.21	-90.23	272.83	-927.20	1,312.92	1,257.91	55.02	23.864		
7,700.00	7,683.40	7,774.99	7,757.91	28.28	28.58	-90.23	276.93	-921.54	1,312.91	1,257.16	55.75	23.551		
7,800.00	7,783.15	7,874.99	7,857.67	28.65	28.96	-90.23	281.03	-915.89	1,312.90	1,256.42	56.48	23.246		
7,900.00	7,882.91	7,974.99	7,957.42	29.03	29.33	-90.23	285.13	-910.23	1,312.88	1,255.67	57.21	22.949		
8,000.00	7,982.67	8,074.99	8,057.18	29.40	29.70	-90.23	289.23	-904.58	1,312.87	1,254.93	57.94	22.660		
8,100.00	8,082.42	8,174.99	8,156.93	29.77	30.08	-90.23	293.33	-898.92	1,312.85	1,254.19	58.67	22.378		
8,173.44	8,155.69	8,248,44	8,230.20	30.05	30.35	-90.23	296.34	-894.77	1,312.84	1,253.64	59.20	22.175 C	С	
8,200.00	8,182.18	8,269.64	8,251.35	30.15	30.43	-90.24	297.18	-893.61	1,312.89	1,253.51	59.38	22.110		
8,300.00	8,281.94		8,329.38	30.52	30.72	-90.31	299.68	-890.15	1,314.12		60.02	21.895		
8,337.03	8,318.88		8,358.28	30,66	30.82	-90.34	300.37	-889.20	1,314.99		60.25	21.824		
8,400.00	8,381.73	8,425.87	8,407.42	30.89	31.00	-90.40	301.25	-887.99	1,316.58	1,255.94	60.64	21.710		
8,500.00	8,481.64	8,503.92	8,485.45	31.25	31.27	-90.48	301.88	-887.12	1,318.73	1,257.48	61.25	21.531		
8,600.00	8,581.63		8,581.63	31.60	31.60	-90.51	301.90	-887.10	1,319.85		61.92	21.314		
8,603.37	8,585.00		8,585.00	31.61	31.61	-90.51	301.90	-887.10	1,319.85		61.95	21.306		
8,700.00	8,681.63		8,681.63	31.94	31.94	-90.51	301.90	-887.10	1,319.85		62.61	21.079		
8,800.00	8,781.63		8,781,63	32.28	32.28	-90.51	301.90	-887.10	1,319.85		63.31	20.849		
8,900.00	8,881.63			32.62	32.62		301,90	-887.10		1,255,85	64,00	20,623		
	8,981.63	9,000.09		32.96	32.96	-90.51	301.90	-887.10		1,255.16	64.69	20.403		
9,100.00		9,100.09	9,081.63	33,31	33,30	-90,51	301.90	-887.10	1,319,85		65.38	20.186		
9,200.00			9,181.63	33.65	33,65	-90.51	301.90	-887.10		1,253.77	66.08	19.975		
9,300.00	9,281.63	9,300.09	9,281.63	33.99	33.99	-90.51	301.90	-887.10	1,319.85	1,253.08	66.77	19.767		
9,400.00	9,381,63	9,400.09	9,381.63	34.33	34.33	-90.51	301.90	-887.10	1,319.85		67.46	19.563		
9,500.00	9,481.63	9,500.09	9,481.63	34,68	34.67	-90,51	301.90	-887.10	1,319,85	1,251.69	68.16	19.364		
9,600.00			9,581.63	35.02	35.02	-90.51	301.90	-887.10		1,250.99	68.86	19.168		
9,700.00			9,681.63	35.36	35.36	-90.51	301.90	-887.10		1,250.30	69.55	18.977		
9,800.00	9,781.63	9,800.09	9,781.63	35,71	35,70	-90,51	301,90	-887.10	1,319.85	1,249.60	70.25	18,789		
9,900.00	9,881.63	9,900.09	9,881.63	36,05	36,05	-90.51	301.90	-887.10	1,319.85	1,248,90	70.94	18.604		



Anticollision Report



Company:

Matador Resources

Project:

Lea County, New Mexico (NAD 27)

Reference Site: Site Error:

Charles Ling Fed Com 0.00 usft

Reference Well: '

Well Error: Reference Wellbore Wellbore #1 Reference Design:

Charles Ling Fed Com #202H

0.00 usft Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference:

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset D	-	حددي بمارستين دين	s Ling Fe	ed Com - C	harles	Ling Fed C	om #201H - 1	Wellbore #	1 - Desig	n#1			Offset Site Error:	0.00 ust
survey Pro Refer	ogram: 0-M rence	`Offs	et	Semi Major	r Axis			* -	Dist	ance			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13.800.00	12.198.00	13.833.03	12.234.00	50.77	50.85	-90.38	-1.530.02	-875.05	1,319.87	1,218.73	101.14	13.050	Pour de la recht aus methode again, des avec aft a décimalement	
	12,198.00	13,933.03	•	51.64	51.72	-90.38	-1,630.01	-874.39	1,319,85		102.89	12.828		
14,000.00	12,198.00	14,033.03	12,234.00	52.55	52.62	-90.38	-1,730.01	-873,74	1,319.82	1,215.12	104.71	12.605		
14,100.00	12,198.00	14,133.03	12,234.00	53.49	53,56	-90.38	-1,830.01	-873.08	1,319.80	1,213.20	106.60	12.381		
14,200.00	12,198.00	14,233.03	12,234.00	54.47	54.54	-90.38	-1,930,01	-872.42	1,319,77	1,211,22	108.55	12,158		
14,300.00	12,198.00	14,333.03	12,234.00	55.48	55,54	-90.38	-2,030.00	-871.76	1,319.75	1,209.18	110.57	11.935		
14,400.00	12,198.00	14,433.03	12,234.00	56.51	56.58	-90.38	-2,130.00	-871.10	1,319.72	1,207.07	112.66	11.715	•	
14,500.00	12,198.00	14,533.03	12,234.00	57.58	57.65	-90.38	-2,230.00	-870.45	1,319.70	1,204.90	114.80	11.496		
14,600.00	12,198.00	14,633.03	12,234.00	58.68	58.74	-90.38	-2,330.00	-869.79	1,319.67	1,202.68	116.99	11.280		
14,700.00	12,198.00	14,733.03	12,234.00	59.80	59.85	-90.38	-2,430.00	-869.13	1,319,65	1,200.42	119.23	11.068		
14,800.00	12,198.00	14,833.03	12,234.00	60.94	61.00	-90.38	-2,529.99	-868.47	1,319.62	1,198.10	121.53	10.859		
	12,198.00	14,933.03		62.11	62.16	-90.38	-2,629.99	-867.81	1,319.60	1,195.73	123.87	10.653		
	12,198.00	15,033.03	•	63.30	63,35	-90.38	-2,729,99	-867.16	1,319.57	1,193.33	126.25	10.452		
•	12,198.00	15,133.03		64.51	64.55	-90.38	-2,829.99	-866.50	1,319.55	1,190.88		10.255		
	12,198.00	15,233.03	12,234.00	65.73	65.78	-90.38	-2,929.98	-865.84	1,319.52	1,188,39	131.13	10.063		
15,300.00	12,198.00	15,333.03	12,234.00	66.98	67.02	-90.38	-3,029.98	-865.18	1,319.50	1,185.87	133.63	9.874		
	12,198.00	15,433.03		68.24	68.29	-90.38	-3,129.98	-864.52	1,319.47	1,183.31	136.16	9.691		
	12,198.00	15,533.03		69.52	69.56	-90.38	-3,229.98	-863.87	1,319.45	1,180.72	138,73	9.511		
	12,198.00	15,633.03		70.82	70.86	-90.38	-3,329.98	-863,21	1,319.42	1,178.10	141.32	9.336		
•	12,198.00	15,733.03		72.13	72.16	-90.38	-3,429.97	-862.55	1,319.40	1,175,45	143.94	9.166		
15,800.00	12,198.00	15,833.03	12,234.00	73.45	73.49	-90.38	-3,529.97	-861.89	1,319.37	1,172.78	146.60	9.000		
5,900.00	12,198.00	15,933.03		74.79	74.82	-90.38	-3,629,97	-861,23	1,319,35	1,170.07	149.27	8.838		
	12,198.00	16,033.03		76.14	76.17	-90.38	-3,729.97	-860.58	1,319.32	1,167.35	151.98	8.681		
	12,198.00	16,133.03		77.50	77.53	-90.38	-3,829.97	-859.92	1,319.30	1,164.60	154.70	8,528		
	12,198.00	16,233.03		78.87	78,90	-90,38	-3,929.96	-859.26	1,319.27	1,161.82	157.45	8.379		
16,300.00	12,198.00	16,333.03	12,234.00	80.25	80.28	-90.38	-4,029.96	-858.60	1,319.25	1,159.03	160.22	8.234		
6,400.00	12,198.00	16,433,03	12,234,00	81,65	81.67	-90,38	-4,129.96	-857.94	1,319.22	1,156.22	163.01	8.093		
16,500.00	12,198.00	16,533.03		83.05	83.07	-90.38	-4,229.96	-857.29	1,319.20	1,153.38	165.81	7.956		
16,600.00	12,198.00	16,633.03	12,234.00	84.46	84.48	-90.38	-4,329.95	-856.63	1,319.17	1,150.53	168.64	7.822		
16,700.00	12,198.00	16,733.03	12,234.00	85.88	85.90	-90.38	-4,429.95	-855.97	1,319.15	1,147.67	171.48	7.693		
16,800.00	12,198.00	16,833.03	12,234.00	87.31	87.32	-90.38	-4,529.95	-855.31	1,319.12	1,144.78	174.34	7.566		
16,900.00	12,198.00	16,933.03	12,234.00	88.74	88.76	-90.38	-4,629.95	-854.65	1,319,10	1,141,88	177.22	7.443		
6,957.82	12,198.00	16,990.85	12,234.00	89.57	89.59	-90.38	-4,687.77	-854.27	1,319.08	1,140.20	178.88	7.374 E	S, SF	



Anticollision Report



Company: Matador Resources

Project: Lea County, New Mexico (NAD 27)

Reference Site: Charles Ling Fed Com

0.00 usft Site Error:

Reference Well: Charles Ling Fed Com #202H

Well Error: 0.00 usft Reference Wellbore | Wellbore #1 Design #1 Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Output errors are at

Database:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282)

WELL @ 3640.50usft (Patterson 282)

EDM 5000.14 Conroe DB

Grid

Offset Datum Offset TVD Reference:

Offset D	esign	Charle	s Ling Fe	ed Com - (Charles	Ling Fed C	om #212H - \	Vellbore #	1 - Desig	n#1			Offset Site Error:	0.00 usft
Survey Pro	_				24				5 1-4		3		Offset Well Error:	0.00 usft
Refer Measured		Offs Measured		Semi Majo Reference		Azimuth	Offset Wellbo	ro Contro		ance Between	Minimum.	Separation	- Adla mala m	
Depth (usft)	Depth (usft)	Depth (usft)	Depth		(usft)	from North	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		Warning	
5,100.00	5,089.71	5,078.21	5,067.96	18.57	18.50	-80.16	251.04	-190.82	440.36	403.83		12.054		
5,200.00	5,189.47	5,177.75	5,167.26	18.94	18.87	-80.14	256.89	-194.56	449.91			12.074		
5,300.00	5,289.23	5,277.29	5,266.56	19.32	19.24	-80.12	262.73	-198.30	459.47	421.48	37.99	12.093		
5,400.00	5,388.98	5,376.83	5,365,86	19.69	19,61	-80.11	268.58	-202.04	469.03	430.30	38.73	12.111		
5,500.00	5,488.74	5,476.37	5,465.16	20.06	19.98	-80.09	274.42	-205.78	478.58	439.12	39.46	12.129		
5,600.00	5,588.50	5,575.92	5,564.46	20.44	20.36	-80.08	280.27	-209.52	488.14	447.95	40.19	12.146		
5,700.00	5,688.25	5,675.46	5,663.76	20.81	20.73	-80.07	286.11	-213.26	497.69	456.77	40.92	12.163		
5,800.00	5,788.01	5,775.00	5,763.06	21.18	21.10	-80.06	291.96	-217.01	507.25	465.60		12.179		
5,900.00		5,874.54	5,862.36	21.56	21.47	-80.04	297.80	-220.75	516.80			12.194		
6,000.00		5,980.58	5,968.18	21.93	21.86	-80.05	303.50	-224.39	525.97	482.82		12.188		
6,100.00	6,087.28	6,090.59	6,078.11	22.30	22.26	-80.26	306.94	-226.60	533.33	489.40	43.93	12.140		
6,200.00	6,187.04	6,198.53	6,186.04	22.68	22.64	-80.71	307.77	-227.13	538.82	494.14		12.059		
6,300.00	6,286,80	6,298.29	6,285.80	23.05	22.98	-81.23	307.77	-227.13	543.75	498.35	45.40	11.978		
6,400.00	6,386.55	6,398.05	6,385.55	23.42	23.32	-81.75	307.77	-227.13	548.72		46,11	11.901		
6,500.00		6,497.80	6,485.31	23.80	23.67	-82.25	307.77	-227.13	553.74	506.92		11.826		
6,600.00	6,586.07	6,597.56	6,585.07	24.17	24.01	-82.74	307.77	-227.13	558.80	511.26	47.54	11.755		
6,700.00	6,685.82	6,697.32	6,684.82	24.54	24.36	-83.23	307.77	-227.13	563.90	515.65	48.25	11.687		
6,800.00	6,785.58	6,797.07	6,784.58	24.92	24.71	-83.70	307.77	-227.13	569,04	520.07	48,96	11.622		
6,900.00	6,885.34	6,896.83	6,884.34	25.29	25.05	-84.17	307.77	-227.13	574.21	524.54	49.67	11.560		
7,000.00	6,985.10	6,996.59	6,984.10	25,66	25,40	-84.63	307.77	-227,13	579.43	529.04	50.39	11.499		
7,100.00	7,084.85	7,096.35	7,083.85	26.04	25.74	-85.08	307.77	-227.13	584.68	533.58	51.10	11.442		
7,200.00	7,184.61	7,196.10	7,183,61	26,41	26.09	-85.52	307.77	-227,13	589.97	538.15	51.81	11.386	•	
7,300.00	7,284.37	7,295.86	7,283.37	26.78	26.44	-85.96	307.77	-227.13	595.29	542.76	52.53	11.333		
7,400.00	7,384,12	7,395,62	7,383.12	27.16	26.79	-86.38	307.77	-227.13	600.64	547.40	53.24	11.282		
7,500.00	7,483.88	7,495.37	7,482.88	27.53	27,13	-86.80	307,77	-227.13	606,03	552,08	53.95	11.233		
7,600.00	7,583.64	7,595.13	7,582.64	27.91	27.48	-87.21	307.77	-227.13	611.45	556.78	54.67	11.185		
7,700.00	7,683.40	7,694.89	7,682.40	28.28	27.83	-87.62	307.77	-227.13	616.90	561.52	55.38	11.140		
7,800.00	7,783.15	7,794.64	7,782.15	28.65	28.18	-88.02	307.77	-227.13	622.38	566.29	56.09	11.096		
7,900.00	7,882.91	7,894.40	7,881.91	29.03	28.53	-88.41	307.77	-227.13	627.89	571.09	56.81	11.053		
8,000.00	7,982.67	7,994.16	7,981.67	29.40	28.88	-88.79	307.77	-227.13	633.43	575.91	57.52	11.013		
8,100.00	8,082.42	8,093.92	8,081.42	29.77	29.23	-89.17	307.77	-227.13	639.00	580.77	58.23	10.973		
8,200,00	8,182.18	8,193.67	8,181.18	30,15	29,58	-89.54	307.77	-227.13	644,59	585,65	58.95	10,935		*
8,300.00	8,281.94	8,293.43	8,280.94	30.52	29.93	-89.90	307.77	-227.13	650.21	590.56	59.66	10.899		
8,337.03	8,318.88	8,330.37	8,317.88	30.66	30.06	-90.04	307.77	-227.13	652.30	592.38	59.92	10.886		
8,400.00	8,381.73	8,393.22	8,380.73	30.89	30.28	-90.24	307.77	-227.13	655.44	595.07	60.37	10.857		
8,500.00	8,481.64	8,493.14	8,480.64	31.25	30.63	-90.44	307.77	-227.13	658.70	597.62	61.08	10.784		
8,600.00	8,581.63	8,593.12	8,580.63	31.60	30.98	-90.51	307.77	-227.13	659.84	598.06	61.78	10.680		
8,603.37	8,585.00	8,596.49	8,584.00	31.61	30.99	-90.51	307.77	-227.13	659.84	598.04		10.676		
8,700.00	8,681.63	8,693.12	8,680.63	31.94	31.33	-90.51	307.77	-227.13	659.84	597.36		10,561		
8,800.00	8,781.63	8,793,12	8,780.63	32.28	31.68	-90.51	307.77	-227.13	659.84	596.66		10.444		
8,900.00	8,881.63	8,893,12	8,880,63	32.62	32.03	-90.51	307.77	-227.13	659.84	595.97	63.88	10.330		
9,000.00	8,981.63		8,980.63	32.96	32.38	-90.51	307.77	-227,13	659,84	595.27	64.58	10.218		
9,100.00	9,081.63	9,093.12	9,080.63	33.31	32.73	-90.51	307.77	-227.13	659.84	594.57	65.28	10.109		
9,200.00	9,181.63	9,193.12	9,180.63	33,65	33,09	-90.51	307.77	-227.13	659.84	593.87	65.98	10.001		
9,300.00	9,281.63	9,293.12	9,280.63	33.99	33.44	-90.51	307.77	-227.13	659.84	593.17	66.68	9.896		
9,400.00	9,381.63	9,393.12	9,380.63	34.33	33.79	-90.51	307.77	-227.13	659.84	592.47	67.38	9.793		
9,500.00	9,481.63	9,493.12	9,480.63	34.68	34.14	-90.51	307.77	-227.13	659.84	591.77	68.08	9,693		
9,600.00	9,581,63	9,593.12	9,580.63	35.02	34,50	-90.51	307.77	-227.13	659,84	591.07	68.78	9.594		
9,700.00	9,681.63	9,693,12	9,680.63	35.36	34.85	-90.51	307.77	-227.13	659.84	590.37	69.48	9.497		
9,800.00	9,781.63	9,793.12	9,780.63	35.71	35.20	-90.51	307.77	-227.13	659.84	589.66	70.18	9.402		
9,900.00	9,881,63	9,893.12	9,880.63	36.05	35,55	-90.51	307.77	-227.13	659.84	588.96	70.88	9.309		
10,000.00	9,981.63	9,993,12	9,980.63	36.40	35.91	-90.51	307,77	-227.13	659.84	588.26	71.58	9.218		



Anticollision Report



Company: Matador Resources

Project: Lea County, New Mexico (NAD 27) Charles Ling Fed Com

Reference Site: Site Error:

0.00 usft

Reference Well: Charles Ling Fed Com #202H

Onanes L Well Error: 0.00 usft
Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at-

Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset D	esign	Charle	s Ling Fe	ed Com - (Charles	Ling Fed Co	om #212H -	Wellbore #	1 - Desig	n#1			Offset Site Error:	0.00 ust
urvey Pro	gram: 0-N	IWD	1 - 4 - 4 - 46							1144			Offset Well Error:	0,00 ust
Refer easured		Offs Measured		Semi Majo Reference		Azimuth	Offset Wellbo	ro Contro	2 24 10 10 2	ance.	Minimum	Separation		
Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres			w that y was s	The second secon	
(usft)	(usft)	(usft)	(üsft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		(usft)			
3,900.00	12,198.00	14,174.06	12,474.00	51.64	52.19	-90.38	-1,625.67	-214.41	715.18	616.49	98.69	7.247	and the second second second second second	and the second
4,000.00	12,198.00	14,274.06	12,474.00	52.55	53.08	-90.38	-1,725.67	-213.75	715.16	614.77	100.38	7.124		
4,100.00	12,198.00	14,374.06	12,474.00	53.49	54.01	-90.38	-1,825.67	-213.09	715.13	613.00	102.14	7.002		
4,200.00	12,198.00	14,474.06	12,474.00	54.47	54.98	-90.38	-1,925.66	-212.43	715.11	611.15	103.96	6.879		
4,300.00	12,198.00	14,574.06	12,474.00	55.48	55.97	-90.38	-2,025.66	-211.78	715.09	609,25	105,84	6.756		
14,400.00	12,198.00	14,674.06	12,474.00	56,51	57.00	-90.38	-2,125.66	-211.12	715.07	607.29	107.78	6.635		
14,500.00	12,198.00	14,774.06	12,474.00	57.58	58.05	-90.38	-2,225.66	-210.46	715.04	605.28	109.77	6.514		
4,600.00	12,198.00	14,874.06	12,474.00	58.68	59.14	-90.38	-2,325.66	-209.80	715.02	603.21	111.81	6.395		
4,700.00	12,198.00	14,974.06	12,474.00	59.80	60.24	-90.38	-2,425.65	-209.14	715.00	601.10	113.90	6.278		
14,800.00	12,198.00	15,074.06	12,474.00	60.94	61.38	-90.38	-2,525,65	-208.49	714.97	598.94	116.03	6,162		
4,900.00	12,198.00	15,174.06	12,474.00	62.11	62.53	-90.38	-2,625.65	-207.83	714.95	596.74	118.21	6.048		
5,000.00	12,198.00	15,274.06	12,474.00	63.30	63.71	-90.38	-2,725.65	-207.17	714.93	594.50	120.43	5.937		
5,100.00	12,198.00	15,374.06	12,474.00	64.51	64.91	-90.38	-2,825,64	-206,51	714.90	592.22	122.69	5.827		
5,200.00	12,198.00	15,474.06	12,474.00	65.73	66.13	-90.38	-2,925.64	-205.86	714.88	589.90	124.98	5.720		
5,300.00	12,198.00	15,574.06	12,474.00	66.98	67.36	-90.38	-3,025.64	-205,20	714.86	587.55	127.31	5.615		
5,400.00	12,198.00	15,674.06	12,474.00	68.24	68.62	-90.38	-3,125.64	-204.54	714.84	585.17	129.67	5.513		
5,500.00	12,198.00	15,774.06	12,474.00	69.52	69.89	-90.38	-3,225.64	-203,88	714.81	582.75	132,06	5,413		
5,600.00	12,198.00	15,874.06	12,474.00	70,82	71,17	-90,38	-3,325.63	-203.22	714.79	580.31	134.48	5.315		
5,700.00	12,198.00	15,974.06	12,474.00	72.13	72.47	-90.38	-3,425.63	-202.57	714.77	577.84	136.93	5.220		
5,800.00	12,198.00	16,074.06	12,474.00	73,45	73,79	-90.38	-3,525.63	-201.91	714.74	575.34	139.40	5,127		
5,900.00	12,198.00	16,174.06	12,474.00	74.79	75.12	-90.38	-3,625.63	-201.25	714.72	572.82	141.90	5.037		
6,000.00	12,198.00	16,274.06	12,474.00	76.14	76,46	-90.38	-3,725.62	-200.59	714.70	570.27	144.43	4.949		
6,100.00	12,198.00	16,374.06	12,474.00	77.50	77.81	-90.38	-3,825.62	-199.93	714.67	567.70	146.97	4.863		
6,200.00	12,198.00	16,474.06	12,474.00	78.87	79,18	-90.38	-3,925,62	-199.28	714.65	565,11	149.54	4.779		
6,300.00	12,198.00	16,574.06	12,474.00	80.25	80.55	-90.38	-4,025.62	-198.62	714.63	562.50	152.13	4.698		
6,400.00	12,198.00	16,674.06	12,474.00	81.65	81.94	-90.38	-4,125.62	-197.96	714.61	559.87	154.73	4.618		
6,500.00	12,198.00	16,774.06	12,474.00	83.05	83.33	-90.38	-4,225.61	-197.30	714.58	557.23	157,36	4.541		
6,600.00	12,198.00	16,874.06	12,474.00	84.46	84.74	-90.38	-4,325.61	-196.65	714.56	554.56	160.00	4.466		
6,700.00	12,198.00	16,974.06	12,474.00	85.88	86.15	-90.38	-4,425.61	-195.99	714.54	551.88	162.65	4.393		
6,800.00	12,198.00	17,074.06	12,474.00	87.31	87.57	-90.38	-4,525.61	-195.33	714.51	549.19	165.33	4.322		
6,900.00	12,198.00	17,174.06	12,474.00	88.74	89.00	-90.38	-4,625.61	-194.67	714.49	546.47	168.02	4.253		
6,957,82	12.198.00	17,231,88	12.474.00	89,57	89,83	-90,38	-4,683,42	-194.29	714.48	544.90	169.58	4.213 \$	SF.	



Anticollision Report



Company: Matador Resources

Project: Lea County, New Mexico (NAD 27)

Reference Site:
Site Error:

Charles Ling Fed Com 0.00 usft

Site Error: 0.00 us Reference Well: Charles

Charles Ling Fed Com #202H

Well Error: 0.00 usft
Reference Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Grid Minimum

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282)

WELL @ 3640.50usft (Patterson 282)

·	gram: 100		er.		٠.	*.							Offset Well Error:	0.00 usf
Refer		Offs		Semi Majo	_					ance		_		
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,989.96	4,900.00	4,899.73	18.20	16.93	-177.81	-4,733.22	49.03	4,909.08	4,874.11	34.98	140.345	THE COMMENT OF THE PARTY OF THE	
5,100.00	5,089.71	4,953.42	4,953.08	18.57	17.12	-177.77	-4,734.47	51.39	4,915.45	4,879.92	35.53	138.363		
5,200.00	5,189.47	5,045.22	5,044.78	18.94	17.45	-177.75	-4,737.04	55.02	4,922.37	4,886.15	36.22	135.913		
5,300.00	5,289.23	5,193.78	5,193.23	19.32	17.97	-177.74	-4,740.35	59.47	4,928.80	4,891.68	37.12	132.766		
5,400.00	5,388.98	5,313.08	5,312.48	19.69	18.40	-177.71	-4,742.08	62,48	4,934.46	4,896.54	37.92	130.130		
5,500.00	5,488.74	5,414.22	5,413.58	20.06	18.76	-177.68	-4,743.30	65.08	4,939.87	4,901.22	38.65	127.820		
5,600.00	5,588.50	5,500.00	5,499.31	20.44	19.06	-177.64	-4,744.67	67.58	4,945.63	4,906.31	39.32	125.787		
5,700.00	5,688.25	5,576.76	5,576.02	20.81	19.33	-177.61	-4,746.18	69.85	4,951.74	4,911.79	39.95	123.937		
5,800.00	5,788.01	5,690.95	5,690.15	21.18	19.74	-177.58	-4,748.35	72.97	4,957.86	4,917.13	40.73	121.719		
5,900.00	5,887.77	5,783.64	5,782.79	21.56	20.07	-177.55 477.53	-4,749.99 4.754.94	75,49	4,963,83	4,922.40	41.43	119.816		
6,000.00	5,987.53	5,881.33	5,880.43	21.93	20.42	-177.52	-4,751.84	78.02	4,969.93		42.14	117.925		
6,100.00	6,087.28	5,985.20	5,984.25	22.30	20.79	-177.49	-4,753.77	80.73	4,976.00	4,933.12	42.88	116.033		
6,200.00	6,187.04	15,660.00		22.68	88.30	-129.26	-1.83	32.18	4,945.10	4,892.20	52,90	93,474		
6,300.00	6,286.80	15,660.00		23.05	88.30	-129.19	-1.83	32.18	4,846.12		53.14	91.192		
6,400.00 6,500.00	6,386.55 6,486.31	15,660.00 15,660.00		23.42 23.80	88.30 88.30	-129.13 -129.07	-1.83 -1.83	32.18 32.18	4,747.17 4,648.27	4,693.78 4,594.63	53.39 53.63	88.922 86.665		
6,600.00	6,586.07	15,660.00	11,101.11	24.17	88.30	-129.01	-1.83	32.18	4,549.41	4,495.52	53.89	84.421		
6,700.00	6,685.82	15,660.00	11,101.11	24.54	88.30	-128.96	-1.83	32,18	4,450.61	4,396.46	54,15	82.189		
6,800.00	6,785.58	15,660.00	11,101.11	24.92	88.30	-128.90	-1.83	32.18	4,351.86	4,297.45	54.42	79.970		
6,900.00	6,885.34	15,660.00	11,101.11	25,29	88,30	-128.85	-1.83	32.18	4,253,18	4,198,48	54,69	77,764		
7,000.00	6,985.10	15,660.00	11,101.11	25.66	88.30	-128.80	-1.83	32.18	4,154.55	4,099.57	54.97	75.572		
7,100.00	7,084.85	15,660.00	11,101,11	26.04	88.30	-128.75	-1.83	32,18	4,055,99	4,000.73	55,26	73,392		
7,200.00	7,184.61	15,660.00	11,101.11	26.41	88.30	-128.71	-1.83	32.18	3,957.50	3,901.94	55,56	71,226		
7,300.00	7,284.37	15,660.00	11,101.11	26.78	88.30	-128.66	-1.83	32.18	3,859,09	3,803,23	55.87	69.074		
7,400.00	7,384.12	15,660,00	11,101.11	27.16	88.30	-128.62	-1.83	32.18	3,760.77	3,704.58	56,18	66.936		
7,500.00	7,483.88	15,660.00	11,101.11	27.53	88.30	-128.58	-1.83	32.18	3,662.53	3,606.02	56.51	64.811		
7,600.00	7,583,64	15,660.00	11,101.11	27.91	88.30	-128.54	-1.83	32.18	3,564.40	3,507.55	56.85	62.700		
7,700.00	7,683.40	15,660.00	11,101.11	28.28	88.30	-128.50	-1.83	32.18	3,466.37	3,409.17	57.20	60.603		
7,800.00	7,783.15	15,660.00	11,101.11	28.65	88.30	-128.46	-1.83	32.18	3,368.46	3,310.89	57.56	58.520		
7,900.00	7,882.91	15,660.00	11,101.11	29.03	88.30	-128.42	-1.83	32.18	3,270.67	3,212.73	57.94	56.451		
8,000.00	7,982.67	15,660.00	11,101.11	29.40	88.30	-128.38	-1.83	32.18	3,173.02	3,114.69	58.33	54.397		
8,100.00	8,082.42	15,660.00	11,101.11	29.77	88.30	-128.35	-1.83	32.18	3,075.52	3,016.78	58.74	52.357		
8,200.00	8,182.18	15,660.00		30.15	88.30	-128 .31	-1.83	32.18	2,978.19	2,919.02	59.17	50.332		
8,300.00	8,281.94	15,660.00		30.52	88.30	-128.28	-1.83	32.18	2,881.04	2,821.42	59.62	48.322		
8,337.03	8,318.88	15,660.00		30.66	88.30	-128.27	-1.83	32.18	2,845.11	2,785.31	59.80	47.581		
8,400.00	8,381.73	15,660.00	11,101.11	30.89	88.30	-128.25	-1.83	32.18	2,783.96	2,723.87	60.09	46.328		
8,500.00	8,481.64	15,660.00		31.25	88.30	-128.23	-1.83	32.18	2,686.52	2,625.95	60.57	44.357		
8,600.00	8,581.63	15,660.00		31.60	88.30	-128.23	-1.83	32.18	2,588.68	2,527.65	61.03	42.413		
8,603.37	8,585.00	15,660.00		31.61	88.30	-128.23	-1.83	32.18	2,585.38		61.05	42.348		
8,700.00 8,800.00	8,681.63 8,781.63	15,660.00 15,660.00		31.94 32.28	88.30 88.30	-128.23 -128.23	-1.83 -1.83	32.18 32.18	2,490.72 2.392.92	2,429.21 2,330.91	61.51 62.01	40.492 38.586		
		15,660,00		32.62	88.30	-128,23	-1.83	32.18	2,295.32		62.55	36.697		
9,000.00		15,660.00		32.96	88.30	-128.23	-1.83	32.18	2,197.93		63.12	34.822		
9,100.00		15,660.00		33.31	88.30	-128.23	-1.83	32.18	2,100.78		63.73	32.964		
		15,660.00		33.65	88.30	-128.23	-1.83	32.18		1,939.53	64.39	31.123		
9,300.00		15,660.00		33,99	88.30	-128,23	-1.83	32.18	1,907.38		65.10	29.298		
9,400.00	9,381.63	15,660.00	11,101.11	34.33	88.30	-128.23	-1.83	32.18	1,811.21	1,745.33	65.88	27.491		
9,500.00	9,481.63	15,660.00	11,101.11	34,68	88.30	-128.23	-1.83	32.18	1,715.49	1,648.74	66.75	25.702		
9,600.00	9,581.63	15,660.00	11,101.11	35,02	88.30	-128.23	-1.83	32,18	1,620,28	1,552.58	67.70	23,933		
9,700.00		15,660.00		35.36 35.71	88.30	-128.23	-1.83	32.18	1,525.68		68.77	22.185		
9,800.00	9,781.63	15,660.00	11.101.11	35.71	88.30	-128.23	-1.83	32.18	1,431.82	1,361.84	69,98	20,460		



Anticollision Report



Company:

Project:

Lea County, New Mexico (NAD 27)

Reference Wellbore

Matador Resources

Local Co-ordinate Reference:

TVD Reference:

Well Charles Ling Fed Com #202H WELL @ 3640.50usft (Patterson 282)

Reference Site: Charles Ling Fed Com WELL @ 3640.50usft (Patterson 282) MD Reference: 0.00 usft Site Error: North Reference: Grid Reference Well: Charles Ling Fed Com #202H **Survey Calculation Method:** Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma Wellbore #1 Database: EDM 5000.14 Conroe DB Offset TVD Reference: Reference Design: Design #1 Offset Datum

Refer	gram: 100	-NIVVD Offs	at.	Semi Major					D*-4				Offset Welf Error:	0.00 us
rerer feasured		Measured	Vertical	Reference		Azimuth	Offset Wellbo	ro Contro	Dist	ance Between	Minimum	Separation	* Manualina	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
13,600.00	12,198.00	14,340.04	11,097.20	49.15	69.23	-89.90	-1,320.70	79.76	1,141.64	1,071.80	69.84	16.346	- N. C. Company and C. C. Company and Comp	. and a second s
13,700.00	12,198.00	14,222.75	11,097.32	49.94	67.64	-92.62	-1,437,99	80.08	1,141.75	1,072.33	69.42	16,447		
13,800.00	12,198.00	14,087.17	11,102.35	50.77	65.80	-98.20	-1,573.43	82.87	1,137.37	1,068.46	68.91	16.506		
13,900.00	12,198.00	14,001.90	11,104.60	51.64	64.66	-95.94	-1,658,59	86.80	1,133.60	1,064.95	68.65	16.513		
14,000.00	12,198.00	13,902.62	11,106.17	52.55	63,34	-95,87	-1,757.75	91.32	1,130.86	1,062,55	68.32	16.553		
14,100.00	12,198.00	13,813.06	11,107.54	53.49	62.17	-94.22	-1,847.17	96.09	1,127.98	1,059.92	68.06	16.572		
14,200.00	12,198.00	13,731.95	11,107.35	54.47	61,12	-91.13	-1,928.17	100.31	1,126.78	1.058.88	67.90	16.595		
14,228.00	12,198.00	13,708.56	11,107.03	54.75	60.82	-90.36	-1,951.51	101.62	1,126.72	1,058,87	67.85	16.606		
14,300.00	12,198.00	13,647.38	11,105,65	55.48	60.03	-88.53	-2,012.57	105.27	1,127.09	1,059.38	67.71	16.646		
14,400.00	12,198.00	13,542.04	11,102.55	56.51	58.70	-89.39	-2,117.71	111.11	1,128.45	1,061.08	67,37	16,750		
14,500.00	12,198.00	13,417.36	11,102.22	57.58	57.16	-93.61	-2,242.22	117.33	1,127.30	1,060.35	66.95	16.837		
14 600 00	12,198.00	13,332.09	11 101 81	58,68	56.13	-91.05	-2,327.31	122.88	1,126.08	1,059.24	66.84	16.847		
•	12,198.00	13,317.47		58.88	55.95	-90.36	-2,341.89	123.85	1,126.05	1,059.21	66.84	16,848		
•	12,198.00	13,228.13		59.80	54.89	-91.74	-2,431.02	129.81	1,126.06	1,059.47	66.59	16.910		
	12,198.00	13,110.93		60.94	53.53	-94,87	-2,547.97	137.64	1,124.53	1,058.25	66.28	16.967		
	12,198.00	12,992.02		62.11	52.18	-98.42	-2,666.60	145.18	1,120.82	1,054.78	66.03	16.973		
15 000 00	12,198.00	12,916.00	11 102 01	63.30	51.34	-94,01	2.742.40	140.40	4 440 EE	1.050.40	66.42	40.044		
	12,198.00	12,877.01		64.00	50.93	-94.01 -90.36	-2,742.49 -2,781.43	149.49 151,45	1,118.55 1,118.32	1,052.42 1,052.07	66.13	16,914		
	12,198,00	12,838,72		64.51	50.53	-90.36 -89.69	-2,761.43 -2,819.68	151,45	1,118.32	1,052.07	66.26 66.28	16.878		
	12,198.00	12,742.76		65.73	49.51	-88.90	-2,019.66 -2,915.59			•		16.874		
	12,198.00	12,742.76		66.98	49.51	-97.48	-3,060.03	156.07 158.90	1,118.92 1,117.21	1,052.58 1,051.02	66.35 66.19	16.865 16.879		
							0,000.00		٠,٠٠٠.	1,001.02	00.10	10.010		
	12,198.00	12,497.40		68.24	47.10	-97.66	-3,160.83	160.53	1,114.06	1,047.70	66.37	16.786		
	12,198.00	12,404.85		69.52	46.25	-96.25	-3,253.30	162,93	1,110.55	1,043.95	66.60	16.676		
	12,198.00	12,327.31		70.82	45.56	-91.87	-3,330.79	165.49	1,109.05	1,042.14	66.91	16.575		
	12,198.00	12,231.78	•	72.13	44.76	-90,99	-3,426.29	168.03	1,108.30	1,041.14	67.16	16.502		
15,711.89	12,198.00	12,223.05	11,109.34	72.29	44.69	-90.36	-3,435.01	168.22	1,108.29	1,041.08	67.21	16.490		
15,800,00	12,198.00	12,156.00	11,108.32	73.45	44,15	-86.17	-3,502.04	169.59	1,109,22	1,041.65	67.57	16.415		
15,900.00	12,198.00	12,068.90	11,105.80	74.79	43.47	-83.58	-3,589.09	171.29	1,111.69	1,043.75	67.93	16.364		
16,000.00	12,198.00	11,939.25	11,103.64	76.14	42.56	-89.47	-3,718.67	174,38	1,112.67	1,044.64	68.04	16.354		
16,100.00	12,198.00	11,857.20	11,102.21	77.50	42.03	-85.83	-3,800.69	176.19	1,113.95	1,045.46	68.49	16.264		
16,200.00	12,198.00	11,749.72	11,099.36	78.87	41.38	-87.31	-3,908.11	178.47	1,116.18	1,047.36	68.81	16.220		
16,300.00	12,198.00	11,619.49	11,100.30	80.25	40.69	-93.48	-4,038,32	180.08	1,115.07	1,045.96	69,11	16.134		
	12,198.00	11,533.44		81.65	40.30	-90,63	-4,124.35	181.70	1,114.21	1.044.55	69.66	15.994		
	12,198.00	11,527,50		81.75	40.27	-90.36	-4,130.29	181.79	1,114.21	1,044.50	69.71	15.984		
-	12,198.00	11,452.66		83.05	39.96	-86.68	-4,205.13	182.66	1,114.89	1,044.61	70.28	15.864		
	12,198.00	11,396.00		84,46	39.75	-77.94	-4,261.72	183.32	1,118.63	1,047.56	71.07	15.741		
16 700 00	12,198.00	11,365.00	11 004 94	85.88	39.64	-65.25	-4,292.58	183.54	1,127.36	1.055.26	72.10	15.636		
	12,198.00	11,365.00		87.31	39.64	-65.∠5 -57.01	-4,292.58 -4,339.80	183.54 183.77	1,127.36	1,055.26	72.10	15.635 15.615		
	12,198.00	11,274.00		88.74	39.48	-37.01 -49.48	-4,382.23	184,19	1,159.76	1,085.69	73.00	15.658		
16,957.82		11,274.00		89.57	39.33	-49.48 -43.34	-4,382.23 -4,382.23	184.19		1,085,69	74.07	15,658		



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 #202H

Well Error: 0.00 usft
Reference Wellbore Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Offset TVD Reference:

Database:

Grid Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282)

WELL @ 3640.50usft (Patterson 282)

	urvey Pro	gram: 10	D-GYRO-NS,	10518-MVVL	,									Offset Well Error:	0.00 us
Pepth Pept					•							.i			
1,000 1,00	Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
5.1000	(usit)	(usft)	(usn)	(usit)	(usit)	(usit)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)	· Consequenting and the second of the second		
2,200.00 6,1989.47 5,100.85 5,099.91 18,94 1,76.19 18,54.26 5,051.09 5,017.59 133,356 3,000.00 5,388.98 5,203.05 5,275.79 18,00 16,200 4,702.82 1,146.57 5,000.60 3,000.70 37,60 13,200.40 14,200.40 13,200.40 14,200.40 <td>5,000.00</td> <td>4,989.96</td> <td>4,832.94</td> <td>4,832.39</td> <td>18.20</td> <td>16.68</td> <td>165.08</td> <td>-4,696.77</td> <td>1,534.26</td> <td>5,040.42</td> <td>5,005.60</td> <td>34.82</td> <td>144.767</td> <td></td> <td></td>	5,000.00	4,989.96	4,832.94	4,832.39	18.20	16.68	165.08	-4,696.77	1,534.26	5,040.42	5,005.60	34.82	144.767		
5,300.0 5,288.2 3	5,100.00	5,089.71	4,926.44	4,925.80	18.57	17.01	165,12	-4,698.70	1,537.55	5,045.82	5,010.30	35.51	142.081		
5.480.00 5.888.98 5.388.98 5.388.98 5.388.98 5.398.98 5.398.98 5.208.98 5.208.99 5.398.99 13.580.00 5.888.25 5.588.26 5.	5,200.00	5,189.47	5,100.65	5,099.91	18.94	17.61	165.15	-4,701.92	1,542.63	5,051.09	5,014.58	36.51			
5,800.00 5,488.74 5,43.22 5,431.41 2.006 18.77 165.31 4.704.30 1,548.77 5,062.11 5,023.33 8.78 130.524 1.005.24	5,300.00	5,289.23		5,217.59	19.32	18.03	165.20	-4,702.82	1,544.98	5,054.83	5,017.54	37.29	135.547		
5,000.00 5,588.50 5,528.04 6,528.22 20.44 19.11 165.37 4,704.69 1,550.45 5,065.48 5,025.99 39.49 128.266 1,700.00 5,588.25 5,588.60 5,618.06 20.81 19.42 165.43 4,705.23 1,555.91 5,069.00 5,028.83 40.18 124.170 1,500.00 5,589.77 5,581.25 5,617.38 21.58 20.12 185.54 4,706.86 1,565.20 5,076.52 5,004.00 41.61 12.95 0,500.00 5,887.77 5,581.25 5,617.38 21.68 20.12 185.54 4,706.86 1,565.20 5,076.52 5,004.00 41.61 12.95 0,500.00 5,887.75 5,582.55 5,875.77 21.83 20.50 185.64 4,706.86 1,565.20 5,076.52 5,004.00 41.61 17.91 1,561.00 0,587.25 1,589.31 5,000.00 5,887.75 1,589.31 1,589.20 1,126.11 23.05 18.64 1,706.86 1,565.70 1,568.20 1,569.31 5,004.00 41.61 17.91 1,561.00 0,589.25 1,589.31 5,000.00 5,887.75 1,589.31 1,589.20 1,126.11 23.05 18.24 1,706.86 1,708.23 1,569.31 5,588.25 5,040.38 41.11 17.91 1,561.00 0,589.25 1,589.31 5,589.20 1,126.11 23.05 18.24 21.01 1,261.11 23.05 18.24 2.01 11.26 11 24.54 18.24 2.02 11.25 11	5,400.00	5,388,98	5,308.38	5,307.59	19,69	18,34	165.26	-4,703.56	1,546.57	5,058.59	5,020.61	37,98	133,204		
5,700.00 5,888.25 5,818.90 5,818.00 5,818.00 5,800.00 5,8	5,500.00	5,488.74	5,432.22	5,431.41	20.06	18.77	165.31	-4,704.30	1,548.71	5,062.11	5,023.33	38.78	130.524		
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8,100.00															
8.200.00	6,000.00	5,987.53	5,928.55	5,927.67	21.93	20.50	165.60	-4,707.56	1,556.70	5,080.00	5,037.63	42.37	119.891		
5.300.00 6.286.80 15,382.00 11,125.11 23.05 82.92 109.97 -206.52 1.497.41 5.015.85 4.981.30 5.455 91.947 98.000 6.386.31 15,382.00 11,126.11 23.80 82.92 110.50 -206.52 1.497.41 4.918.38 4.883.48 54.89 98.99 99.90 99.	6,100.00	6,087.28			22.30	20.87	165.66	-4,708.23	1,558.07	5,083.50	5,040.38	43.11	117.911		
8.600.00 6.386.55 15.392.00 11.126.11 23.42 82.92 110.50 -206.52 1.497.41 4.918.38 4.863.48 54.99 89.99 8.600.00 6.865.00 15.382.00 11.126.11 24.17 82.92 110.50 -206.52 1.497.41 4.226.65 4.576.6 55.25 87.266 87.266 87.000 6.865.02 15.392.00 11.126.11 24.54 82.92 111.03 -206.52 1.497.41 4.226.65 4.570.61 55.99 82.645 89.000 6.865.02 15.392.00 11.126.11 25.09 82.92 111.130 -206.52 1.497.41 4.226.65 4.570.61 55.99 82.645 89.000 6.865.04 15.392.00 11.126.11 25.09 82.92 111.130 -206.52 1.497.41 4.226.65 4.570.61 55.99 82.645 89.000 6.865.04 15.392.00 11.126.11 25.09 82.92 111.130 -206.52 1.497.41 4.226.65 4.570.61 55.99 82.645 89.000 6.865.04 15.392.00 11.126.11 25.09 82.92 111.130 -206.52 1.497.41 4.226.86 4.570.65 55.77 78.088 77.000.00 7.004.85 15.392.00 11.126.11 26.04 82.92 112.12 -206.52 1.497.41 4.325.86 4.575.60 75.18 75.83 80.359 80.270 77.000.00 7.004.85 15.392.00 11.126.11 26.04 82.92 112.59 -206.52 1.497.41 4.229.4 4.004.66 85.04 71.375 75.00 75.00 77.000.00 7.004.85 15.392.00 11.126.11 26.04 82.92 112.59 -206.52 1.497.41 4.02.90 4.004.66 85.04 71.375 75.00 77.000.00 7.384.12 15.392.00 11.126.11 27.16 82.92 112.67 -206.52 1.497.41 3.850.56 3.891.59 88.99 6.895 6.9171 74.000.00 7.000.00 7.384.12 15.392.00 11.126.11 27.58 82.92 112.67 -206.52 1.497.41 3.850.56 3.891.59 88.99 6.895 77.000.00 7.883.86 15.392.00 11.126.11 27.59 82.92 113.80 -206.52 1.497.41 3.856.69 3.795.22 89.47 64.816 87.000.00 7.783.16 15.392.00 11.126.11 27.91 82.92 113.00 -206.52 1.497.41 3.750.00 3.890.04 89.99 62.666 87.000.00 7.783.16 15.392.00 11.126.11 26.05 82.92 113.00 -206.52 1.497.41 3.750.00 3.890.04 89.99 62.666 87.000.00 7.783.16 15.392.00 11.126.11 26.05 82.92 113.00 -206.52 1.497.41 3.750.00 3.890.04 89.99 62.666 87.000.00 7.783.16 15.392.00 11.126.11 26.00 82.92 113.000.00 8.100.00 8	6,200,00	6,187.04	6,191.73	6,190.83	22.68	21.42	165.72	-4,708,22	1,559,33	5,086,25	5,042.21	44.04	115.492		
6.500.00 6.868.01 15.392.00 11.128.11 23.80 82.92 110.50 208.52 1.497.41 4.821.00 4.766.76 55.25 87.266 6.600.00 6.866.72 15.392.00 11.128.11 24.17 82.92 111.03 -20.652 1.497.41 4.723.74 4.684.31 55.61 8.4948 6.700.00 6.865.92 15.392.00 11.128.11 24.92 22.92 111.30 -20.652 1.497.41 4.629.67 4.473.21 56.37 80.359 8.00.00 8.865.01 15.392.00 11.128.11 25.66 82.92 111.57 -20.652 1.497.41 4.335.94 4.278.76 57.18 75.834 7.00.00 7.084.61 15.392.00 11.128.11 26.04 82.92 112.29 -20.652 1.497.41 4.239.34 4.181.74 57.834 7.00.00 7.834.61 15.392.00 11.128.11 26.74 82.92 112.67 -20.652 1.497.41 4.048.04 4.084.8 58.04 71.375	6,300.00			11,126.11	23.05	82.92	109.97	-206.52	1,497.41	5,015.85	4,961.30	54.55	91.947		
6,500.00 6,586.07 15,392.00 11,126.11 24,17 82,92 110,76 -206.52 1,497.41 4,723.74 4,686.13 55.61 84,948 8,700.00 6,885.82 15,992.00 11,126.11 24,54 82,92 111,03 -206.52 1,497.41 4,262.60 4,770.61 55.89 82,645 8,000.00 6,785.50 15,392.00 11,126.11 25.29 82.92 111,57 -206.52 1,497.41 4,392.68 4,375.92 56.77 78.088 7,000.00 7,000.00 15,392.00 11,126.11 26.09 20 111,84 -206.52 1,497.41 4,392.68 4,375.60 75.18 75.894 7,000.00 7,004.65 15,392.00 11,126.11 26.41 82.92 112.12 -206.52 1,497.41 4,293.44 4,181.74 75.60 75.18 75.69 75.99 7,000.00 7,894.65 15,392.00 11,126.11 27.16 82.92 112.67 -206.52 1,497.41 4,046.80 89.	6,400.00						110.23	-206.52	1,497.41	4,918.38	4,863.48	54,89	89.599		
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8.700.00 6.885.82 15.392.00 11.126.11 24.94 82.92 111.30 -206.52 1.497.41 4.526.80 4.570.61 55.98 82.645 86.000 6.755.85 15.392.00 11.126.11 25.29 82.92 111.37 -206.52 1.497.41 4.526.80 4.752.95 53.7 80.38 8.700.00 6.985.10 15.392.00 11.126.11 25.66 82.92 111.36 -206.52 1.497.41 4.325.84 4.778.75 57.18 75.834 7.700.00 7.884.85 15.392.00 11.126.11 26.41 82.92 112.19 -206.52 1.497.41 4.335.84 4.778.75 57.18 75.834 7.700.00 7.884.85 15.392.00 11.126.11 26.41 82.92 112.99 -206.52 1.497.41 4.432.88 4.375.92 56.77 78.088 7.700.00 7.884.85 15.392.00 11.126.11 26.41 82.92 112.99 -206.52 1.497.41 4.432.84 4.787.75 57.18 75.894 7.700.00 7.884.85 15.392.00 11.126.11 26.41 82.92 112.99 -206.52 1.497.41 4.442.90 4.084.86 58.04 71.375 7.700.00 7.884.81 15.392.00 11.126.11 26.78 82.92 112.95 -206.52 1.497.41 4.442.90 4.084.86 58.04 71.375 7.700.00 7.884.81 15.392.00 11.126.11 27.16 82.92 112.95 -206.52 1.497.41 3.666.4 3.988.14 58.50 68.171 7.700.00 7.884.81 15.392.00 11.126.11 27.91 82.92 113.33 -206.52 1.497.41 3.566.99 3.795.22 59.47 64.816 7.700.00 7.883.40 15.392.00 11.126.11 28.26 82.92 113.51 -206.52 1.497.41 3.566.99 3.609.00 59.99 62.666 7.780.00 7.783.84 15.392.00 11.126.11 28.65 82.92 114.08 -206.52 1.497.41 3.686.41 3.697.33 61.08 58.42 7.700.00 7.892.67 15.392.00 11.126.11 29.40 82.92 114.37 -206.52 1.497.41 3.686.41 3.697.33 61.08 58.42 7.700.00 7.892.67 15.392.00 11.126.11 29.40 82.92 114.56 -206.52 1.497.41 3.686.41 3.697.33 61.08 58.42 7.700.00 7.892.67 15.392.00 11.126.11 30.65 82.92 114.56 -206.52 1.497.41 3.698.40 13.097.33 61.08 58.42 7.700.00 7.892.67 15.392.00 11.126.11 30.65 82.92 114.56 -206.52 1.497.41 3.698.40 13.097.33 61.08 58.42 7.700.00 7.892.67 15.392.00 11.126.11 30.65 82.92 116.04 -206.52 1.497.41 3.698.40 13.097.07 3.032.76 64.30 48.165 7.700.00 7.892.67 15.392.00 11.126.11 30.65 82.92 116.04 -206.52 1.497.41 3.698.40 13.700.50 6.77 40.283 7.700.00 7.892.67 15.392.00 11.126.11 30.65 82.92 116.04 -206.52 1.497.41 3.698.50 1.290.50 6.77 40.283 7.700.00 8.891	6,600.00	6,586.07	15,392.00	11,126,11	24,17	82.92	110.76	-206.52	1,497.41	4,723.74	4,668.13	55.61	84.948		
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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 #202H

Well Error: 0.00 usft
Reference Wellbore Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

offset D	esign	🐼 Roy B	atty Fede	rai COM -	Roy Ba	ity ⊦ederai (COM #3H - \	/velibore#	:1 - Surve	ys			Offset Site Error:	0.00 us
		GYRO-NS.	10518-MWC		1 74 S	- 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			e Take				Offset Well Error:	0.00 us
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		Measured		Reference	Offset		Offset Wellbor				Minimum		Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North	+Ñ/-S	+EI-W			Separation (usft)	N S Y MA		
Jusin	(Hoir)	(USI)	(usit)	Tale ((usit)	(°). _{**}	(usft)	(usft)	(usft)	(usft)	washi washi	day yatika		
3,600.00	12,198.00	14,293.97	11,156.74	49.15	67.01	89.06	-1,303.79	1,517.64	1,486.10	1,390.38	95.72	15.526		
3,700.00	12,198.00	14,204.57	11,157.27	49.94	65.77	88.50	-1,393.15	1,520.09	1,487.22	1,391.75	95.46	15.579		
3,800.00	12,198.00	14,122.15	11,157.12	50.77	64.63	87.57	-1,475.53	1,522.61	1,489.12	1,393.79	95.33	15.621		
3,900.00	12,198.00	14,036.99	11,156.33	51.64	63.46	86.79	-1,560.61	1,526.34	1,492.44	1,397.24	95.20	15.677		
4,000.00	12,198.00	13,945.08	11,153,99	52.55	62.21	86,36	-1,652.44	1,529.31	1,496.10	1,401.13	94.97	15.753		
4,100.00	12,198.00	13,859.98	11,151.51	53.49	61.07	85.59	-1,737.41	1,533.24	1,500.96	1,406.08	94.88	15.819		
4,200.00	12,198.00	13,759.25	11,149.42	54.47	59.72	85.63	-1,837.98	1,538.51	1,505.72	1,411.06	94.67	15.905		
4,300.00	12,198.00	13,678.26	11,147.91	55.48	58.65	84.66	-1,918.76	1,544.16	1,511.58	1,416.83	94.76	15.952		
4,400.00	12,198.00	13,567.52	11,146.25	56.51	57.21	85.23	-2,029.18	1,552.37	1,517.55	1,422.99	94.56	16.049		
4,500.00	12,198.00	13,472.05	11,146.99	57.58	55.98	85.01	-2,124,27	1,560,80	1,523,04	1,428.39	94.65	16.092		
4,600.00	12,198.00	13,389.92	11,146.81	58.68	54.94	84.12	-2,206.03	1,568.58	1,529.66	1,434.77	94.89	16.120		
4.700.00	12,198.00	13,295.44	11.145.40	59.80	53.76	83.86	-2,300.12	1,577,06	1,536.81	1,441.80	95.00	16,176		
	12,198.00	13,201.24		60.94	52.61	83.59	-2,393.92	1,585.40	1,544,71	1,449.58	95,13	16,238		
	12,198.00	13,060.00		62.11	50.92	85.67	-2,534.52	1,598.58	1,550.90	1,455.98	94.92	16.340		
	12,198.00	12,925.03	-	63.30	49.36	87.41	-2,668,88	1,610,63	1,554.74		94.89	16.385		
	12,198.00	12,845.00		64.51	48.47	86,43	-2,748.67	1,616.38	1,558.12		95.35	16.341		
5 200 00	12,198.00	12,761.41	11 149 65	65.73	47.56	85.63	-2,832.07	1,621,90	1,562,66	1,466,90	95,76	16,318		
	12,198.00	12,673,94		66.98	46.62	85.04	-2,919.35	1,627,69	1,568,01	1,471,87	96.14	16.310		
	12,198.00	12,513.62	-	68.24	45.01	87.97	-3,079.47	1,635.20		1,474.72	95.86	16.384		
	12,198,00	12,419,62		69,52	44,11	87,68	-3,173,40	1,639.06	1,573.21	1,476.94	96.27	16.342		
	12,198.00	12,314.78		70.82	43.15	87.92	-3,278.13	1,643.68		1,478.88	96.64	16.302		
5 700 00	12,198,00	12,231,10	11 140 84	72,13	42.42	87,14	-3,361,71	1,647.68	1,578,13	1,480,87	97.26	16,225		
	12,198.00	12,139.80	-	73.45	41.66	86.72	-3,452.89	1,652,14	1,582,03	1,484,21	97.82	16,173		
	12,198.00	12,025.35		74.79	40.77	87.42	-3,567.25	1,654,63	1,585,35	1,487.23	98.12	16.157		
•	12,198.00	11,869,49		76,14	39.68	90.09	-3,723.08	1,656,20	1,586.58	1,488.44	98.14	16,166		
,	12,198.00	11,712.00		77.50	38.71	92.84	-3,880.53	1,654.16	1,584.54	1,486.29	98.24	16.129		
6 200 00	12,198.00	11,618.00	11 146 40	78.87	38.21	92,55	-3,974,47	1,651.54	1,580.68	1,481.71	98.97	15.971		
	12,198.00	11,546,79		80,25	37.88	91.17	-4,045.66	1,650.28	1,578.10	1,478.16	99.94	15.790		
	12,198.00	11,489.47		81.50	37.63	89.64	-4,102.99	1,649.60		1,476.17	100.87	15.635		
	12,198.00	11,483.55		81.65	37.61	89.40	-4,108.90	1,649.54	1,577.05	1,476.17	100.98	15.617		
	12,198.00	11,429.00		83.05	37.38	87.21	-4,163.40	1,649.14	1,578.79		102.04	15.472		
				94.40	27.00									
	12,198.00	11,384.87		84.46	37.23	84.52	-4,207.34 4,246.69	1,648.82	1,583.74	1,480.61	103.13	15,357		
	12,198.00	11,345.13	•	85.88 87.31	37.10	81.62	-4,246.68 4,273.05	1,648.61	1,592.30	1,488.14	104.16	15.287		
	12,198.00	11,317.32 11,303.00		87.31 88.74	37.01 36.97	78.21	-4,273.95 4.297.92	1,648.53	1,604.95	1,499.76	105.19	15.257		
	12,198.00					74.28	-4,287.82 4,317.33	1,648.52	1,622.30		106.21	15.275		
0,957.82	12,198.00	11,272.00	11,116.55	89.57	36.89	73.01	-4,317.32	1,648.57	1,634.30	1,527.74	106.56	15.337		



Anticollision Report



Company:

Matador Resources

Project:

Lea County, New Mexico (NAD 27)

Reference Site:

Charles Ling Fed Com 0.00 usft

Site Error: Reference Well:

Well Error: 0.00 usft Reference Wellbore | Wellbore #1

Reference Design:

Charles Ling Fed Com #202H

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282)

WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

	Offset D	esign	Steven	is "11" -	Stevens 11	1 - We	llbore #1 - S	Surveys					رة استان ما المساسرة ا	Offset Site Error:	0.00 usft
Name		-	D-INC-ONLY									- 1,5 3, 5 4,141		Offset Well Error:	0.00 usft
	Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
5,100.00 5,09971 5,00885 5,009.21 18,77 0,029.20 115.52 3,117.62 2,998.22 12,100 25,78 5,000.00 5,299.32 5,298.44 5,298.72 1,100.20 1,177.66 2,999.20 115.52 3,110.27 3,000.20 128.11 24.791 5,500.00 5,898.27 5,998.44 1,989.20 115.52 3,110.22 3,002.20 128.21 24.390 5,500.00 6,889.27 5,898.58 5,898.58 5,898.58 5,898.58 5,898.58 5,898.58 5,898.58 5,898.58 5,898.59 2,404.61 118.50 1,170.70 2,999.20 115.52 3,114.62 3,001.10 3,117.22 2,207.00 2,207.00 3,000.00 3,899.20 115.52 3,114.89 3,006.20 3,117.22 2,207.00 3,000.00 3,000.00 3,000.00 5,899.20 5,899.20 115.52 3,114.90 3,000.00 3,000.00 2,999.20 115.52 3,114.90 3,000.00 2,999.20 115.52 3,114.90 3,000.00	4,900.00	4,890.20	4,876.87	4,876.44	17.82	97.43	-177.87	2,938.54	115.52	3,108.42	2,993.31	115.11	27.003	Martin Michael, et	
					18.20		-177.76		115.52	3,113.31	2,994.96	118.35	26.305		
										3,117.62	2,996.62		25.765		
5,40000 5,388.08 5,980.20 5,990.20 115.52 3,130.61 20,022 128.38 24,300 5,500.00 5,688.00 5,981.01 5,991.00 20,000 117.73 2,998.80 115.52 3,134.62 3,006.11 130.51 24,018 5,700.00 5,888.00 5,988.81 5,989.81 5,989.00 20,441.71 115.00 115.52 3,134.62 3,006.11 135.17 22,227 5,700.00 5,889.77 5,880.00 2,889.70 115.52 3,143.68 3,006.61 135.17 22,226 5,800.00 5,889.77 5,886.00 2,189.20 115.52 3,143.61 3,006.11 135.77 2,226.00 6,000.00 6,889.78 5,997.20 115.50 115.52 3,145.13 3,012.24 136.67 2,288.00 6,000.00 6,889.60 6,908.78 2,230 120.00 115.52 3,165.20 3,016.30 144.42 2,188.00 8,000.00 6,889.60 6,208.20 2,209.20 115.52															
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6,900.00 5,987.70 5,888.79 5,888.79 28.86 21.58 118.02 -3,151.91 3,012.24 139.67 22.967 6,000.00 6,007.28 6,007.28 6,007.28 6,009.37 22.30 122.31 176.67 2,939.02 115.52 3,161.25 3,018.38 144.42 2,1889 6,000.00 6,197.44 1,943.11 1,193.54 2,268 124.20 1,76.67 2,939.20 115.52 3,165.63 3,018.99 146.68 21.583 6,000.00 6,386.55 5,338.22 8,330.05 22.42 1,77.67 4,76.89 2,939.20 115.52 3,174.62 3,023.34 15.18 2,939.20 115.52 3,174.62 3,023.34 15.18 2,023.34 15.18 2,009.20 15.00 3,174.62 3,023.34 15.18 2,009.20 15.00 3,174.62 3,023.34 15.18 2,071.83 2,009.20 15.52 3,174.62 3,023.73 15.00 3,009.71 15.00 2,009.20 15.00 1,009.20 15.00			•												
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6,800.00 6,785.58 6,786.33 6,786.45 24.92 135.37 -175.90 -2,937.85 115.52 3,190.73 3,003.67 160.05 19,996 6,900.00 6,885.34 6,881.58 6,887.02 25.56 133.00 -175.80 -2,938.24 115.52 3,196.43 3,003.26 162.24 19,996 7,000.00 7,084.95 7,797.25 2,666 133.00 -175.61 2,938.23 115.52 3,205.39 3,038.78 168.61 19,239 7,000.00 7,284.47 7,291.71 7,299.87 2,793.20 115.52 3,205.39 3,038.79 168.61 19,239 7,000.00 7,384.12 7,399.21 7,399.37 145.62 2,393.20 115.52 3,218.56 3,045.61 173.70 18,231 7,500.00 7,683.64 7,591.07 7,689.37 1,750.60 1,755.33 2,938.84 115.52 3,223.56 3,047.68 176.24 18,332 7,500.00 7,883.64 7,591.07 7,689.99 2,885.91	6,600.00	6,586.07	6,592.82	6,592.03	24.17	131.73	-176.19	-2,937.33	115.52	3,181.55	3,025.87	155.68	20.436		
6,900.00 6,885.74 6,887.89 25.29 137.18 -175.90 -2,937.65 115.52 3,195.48 3,033.28 162.24 19,696 7,000.00 6,985.10 6,977.82 6,977.02 25.66 140,82 -175.71 2,938.73 115.52 3,205.39 3,035.96 164.42 19,496 7,200.00 7,184.61 7,191.95 7,191.11 26.41 140,82 -175.71 2,393.20 115.52 3210.30 3,041.09 169.21 18,972 7,400.00 7,384.12 7,390.21 7,389.37 27.16 146.80 -175.42 2,939.20 115.52 3,218.86 3,045.16 173.70 18,531 7,500.00 7,483.88 7,890.14 7,791 150.60 -175.24 2,938.27 115.52 3,228.60 3,045.16 173.70 18,531 7,500.00 7,883.40 7,690.76 7,698.90 28.28 152.87 -175.53 2,938.20 115.52 3,223.60 3,050.17 178.23 18,113 7,500	6,700.00	6,685.82	6,689,08	6,688.29	24.54	133.55	-176.09	-2,937.40	115.52	3,186.08	3,028.21	157.87	20.182		
7,000.00 6,985.10 6,977.82 6,977.02 25.66 139.00 -175.80 2,938.24 115.52 3,200.38 3,035.96 164.42 19.464 7,100.00 7,084.85 7,074.05 7,073.25 26.04 140.82 -175.71 2,938.73 115.62 3,205.39 3,038.78 166.61 19.239 7,200.00 7,184.61 7,191.95 7,191.11 26.41 143.05 -175.61 2,339.20 115.62 3,205.39 3,038.78 166.61 19.239 7,200.00 7,284.37 7,291.71 7,290.87 26.78 144.94 -175.52 2,939.20 115.52 3,214.81 3,043.35 171.47 18.749 7,400.00 7,384.12 7,390.21 7,389.37 27.15 146.80 -175.42 2,938.72 115.52 3,218.80 3,045.16 173.70 18.531 7,500.00 7,883.64 7,591.00 7,690.14 27.91 150.60 -175.24 2,939.20 115.52 3,228.40 3,050.17 178.23 18.113 7,700.00 7,883.40 7,590.07 7,898.89 28.28 152.87 175.14 2,939.20 115.52 3,228.40 3,050.17 178.23 18.113 7,700.00 7,883.40 7,590.75 7,889.81 29.03 157.40 -175.42 2,939.20 115.52 3,228.40 3,050.17 178.23 18.113 8,000.00 7,982.91 7,889.87 7,888.81 29.03 157.40 -174.86 2,938.24 115.52 3,245.81 3,054.99 186.13 17.413 8,000.00 7,982.24 8,075.81 8,074.94 29.77 161.63 174.77 2,938.86 115.52 3,245.81 3,054.09 186.13 17.413 8,000.00 7,982.91 7,889.89 8,188.68 30.15 164.24 174.68 2,939.20 115.52 3,250.72 3,059.63 191.09 17.00 18.20 18.00 8,082.42 8,075.81 8,074.94 29.77 161.63 174.77 2,938.66 115.52 3,245.81 3,054.09 186.13 17.413 8,000.00 8,082.42 8,075.81 8,074.94 29.77 161.63 174.77 2,938.66 115.52 3,245.81 3,054.09 186.13 17.413 8,000.00 8,181.63 8,889.89 8,289.89 8,275.66 3,052.2 174.85 2,239.20 115.52 3,268.80 3,068.04 199.64 16.353 8,000.00 8,891.63 8,898.83 3,388.83 3,388 198.00 173.81 174.43 2,239.20 115.52 3,268.28 3,063.17 205.99 16.53 16.584 8,000.00 8,891.63 8,898.83 3,888.81 3,28 173.81 173.81 173.44 2,239.20 115.52 3,268.28 3,063.00 205.19 15.92 8,289.83 30.66 166.93 174.43 2,239.20 115.52 3,268.28 3,063.00 205.19 15.92 8,200.00 18.81 3 18.81 8,775.68 8,774.63 3,22.8 174.43 2,239.20 115.52 3,268.28 3,063.00 205.19 15.92 8,200.00 18.81 3 18.81 3 19.94 176.43 2,239.20 115.52 3,268.28 3,063.00 205.19 15.92 8,200.00 15.92 3,268.83 3,068.00 21.47 14.75 15.94 9,200.00 9,281.63 9,288.45 9,888.13	6,800.00	6,785.58	6,785.33	6,784.54	24.92	135.37	-175.99	-2,937.57	115,52	3,190.73	3,030.67	160.05	19,936		
7,000.00 7,084.85 7,074.05 7,073.25 26.04 140.82 -175.71 -2,938.73 115.52 3,205.39 3,038.78 166.61 19.239 7,200.00 7,184.61 7,191.95 7,191.11 26.41 143.05 -175.61 -2,938.20 115.52 3,210.30 3,041.09 169.21 18.972 7,200.00 7,284.37 7,291.71 7,290.87 26.78 144.94 -175.52 -2,939.20 115.52 3,218.86 3,045.16 173.70 18.531 7,400.00 7,384.12 7,390.21 7,389.37 27.16 146.80 -175.42 -2,938.22 115.52 3,218.86 3,045.16 173.70 18.531 7,700.00 7,483.88 7,484.01 7,483.17 27.53 148.58 -175.33 -2,938.40 115.52 3,228.40 3,050.17 176.24 18.332 7,700.00 7,893.64 7,591.00 7,590.14 27.91 150.60 -175.24 -2,939.20 115.52 3,228.40 3,050.17 176.24 18.332 7,800.00 7,883.60 7,590.16 7,688.90 28.28 152.87 -175.14 -2,939.20 115.52 3,223.50 3,045.08 180.87 17.874 7,800.00 7,883.61 7,800.7 8,98.89 28.28 152.87 -175.14 -2,939.20 115.52 3,223.50 3,052.08 180.87 17.874 17,900.00 7,882.91 7,889.78 7,888.91 29.03 157.40 -174.98 -2,938.24 115.52 3,233.95 3,052.08 180.87 17.413 18.000.00 8,082.42 8,075.81 8,074.94 29.77 161.63 174.74 88 -2,938.25 115.52 3,245.81 3,057.20 188.61 17.209 18.000 8,082.42 8,075.81 8,074.94 29.77 161.63 174.74 88 -2,938.65 115.52 3,259.82 3,052.08 18.01 16.776 8,300.00 8,281.94 8,276.98 8,285.89 30.52 166.37 174.55 -2,938.65 115.52 3,259.82 3,052.08 18.01 16.776 8,300.00 8,381.73 8,388.8 8,299.96 8,288.83 31.56 166.37 174.55 -2,938.65 115.52 3,268.68 3,063.29 180.67 16.584 8,300.00 8,381.73 8,388.8 8,299.96 8,288.83 31.25 171.19 174.45 -2,938.65 115.52 3,268.68 3,063.29 180.67 16.584 8,000.00 8,381.73 8,388.8 8,888.13 31.25 171.19 174.43 -2,939.20 115.52 3,268.26 3,063.00 205.09 15.93 15.93 8,000.00 8,881.63 8,899.26 8,888.13 31.94 176.26 174.43 -2,939.20 115.52 3,268.26 3,063.00 205.09 15.93 15.93 8,000.00 8,881.63 8,889.38 8,888.13 31.94 176.26 174.43 -2,939.20 115.52 3,268.26 3,063.00 205.09 15.93 15.93 8,000.00 8,881.63 8,889.38 8,888.13 32.62 181.15 174.43 -2,939.20 115.52 3,268.26 3,048.60 205.14 16.163 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.00 8,000.0	6,900.00	6,885.34	6,881.58	6,880.79	25.29	137.18	-175.90	-2,937.85	115.52	3,195.49	3,033.26	162.24	19.696		
7,200.00 7,184.61 7,191.95 7,191.91 26.41 143.05 -175.61 2,939.20 115.52 3,210.30 3,041.09 189.21 18,972 7,300.00 7,284.17 7,291.71 7,299.87 27.16 146.80 -175.42 2,939.20 115.52 3,218.81 3,043.35 171.47 18,791 7,500.00 7,883.88 7,691.00 7,590.14 2,793.20 175.32 2,938.20 115.52 3,223.52 3,047.68 175.84 18,332 7,500.00 7,883.86 7,590.00 7,898.97 7,890.00 2,828.16.28 175.33 -2,939.20 115.52 3,223.52 3,047.68 175.84 18,332 7,800.00 7,883.45 7,790.50 7,898.98 2,865 155.14 -175.94 -2,939.20 115.52 3,227.51 3,064.00 183.51 17,442 7,900.00 7,882.96 7,988.98 7,888.98 7,889.88 7,889.78 7,888.98 1,742.99 185.21 3,245.81 3,054.99 186.13 17,	7,000.00	6,985.10	6,977.82	6,977.02	25.66	139.00	-175.80	-2,938.24	115.52	3,200.38	3,035,96	164.42	19.464		
7,300.00 7,284.37 7,291.71 7,290.87 26.78 144.94 -175.52 2,939.20 115.52 3,218.86 3,045.16 173.70 18.531 7,400.00 7,883.86 7,789.21 7,389.37 27.16 146.80 -175.42 -2,938.72 115.52 3,218.86 3,045.16 173.70 18.531 7,500.00 7,883.86 7,789.00 7,893.64 7,591.00 7,590.00 7,689.90 28.28 152.87 -175.14 -2,939.20 115.52 3,228.40 3,050.17 178.23 18.113 7,000.00 7,883.40 7,690.76 7,689.80 28.28 152.87 -175.14 -2,939.20 115.52 3,228.40 3,050.17 178.23 18.113 7,000.00 7,882.91 7,889.80 28.28 152.87 -174.96 -2,938.24 115.52 3,228.40 3,054.00 183.51 17.642 7,800.00 7,882.87 7,888.80 29.03 157.40 -174.96 -2,938.24 115.52 3,258.14 3,054.00	7,100.00	7,084.85	7,074.05	7,073.25	26.04	140.82	-175.71	-2,938.73	115.52	3,205,39	3,038.78	166.61	19,239		
7,400.00 7,384.12 7,390.21 7,389.37 27.16 146.80 -175.42 -2,938.72 115.52 3,218.86 3,045.16 173.70 18.531 7,500.00 7,883.88 7,484.01 7,483.17 27.53 148.58 -175.33 -2,938.84 115.52 3,223.52 3,047.68 175.84 18.332 7,000.00 7,883.68 7,591.00 7,590.14 27.91 150.60 -175.24 -2,939.20 115.52 3,223.53 3,020.00 7,074.00 7,680.00 7,780.00 7,889.65 28.65 155.14 -175.05 -2,939.20 115.52 3,221.51 3,054.00 183.51 17.642 7,900.00 7,882.91 7,889.85 28.65 155.14 -175.05 -2,939.20 115.52 3,221.12 3,054.00 183.51 17.642 7,900.00 7,882.97 7,889.89 2,889.51 157.40 -174.86 -2,938.24 115.52 3,245.81 3,054.99 186.11 17.209 8,100.00 8,092.76 8,818.68 <td>7,200.00</td> <td>7,184.61</td> <td>7,191.95</td> <td>7,191.11</td> <td>26.41</td> <td>143.05</td> <td>-175.61</td> <td>-2,939.20</td> <td>115.52</td> <td>3,210,30</td> <td>3,041,09</td> <td>169.21</td> <td>18,972</td> <td></td> <td></td>	7,200.00	7,184.61	7,191.95	7,191.11	26.41	143.05	-175.61	-2,939.20	115.52	3,210,30	3,041,09	169.21	18,972		
7,500.00 7,483.88 7,484.01 7,483.17 27,53 148.58 -175.33 -2.938.84 115.52 3,223.52 3,047.68 175.84 18,332 7,800.00 7,583.64 7,591.00 7,590.14 27,91 150.60 -175.24 -2.939.20 115.52 3,228.40 3,050.17 178.23 18.113 7,700.00 7,683.01 7,780.75 7,780.52 7,789.55 28.68 155.14 -175.05 -2.939.20 115.52 3,228.53 1,050.08 180.87 17.874 7,800.00 7,783.15 7,790.52 7,789.65 28.68 155.14 -175.05 -2.939.20 115.52 3,235.13 1,054.00 180.51 17.642 1,000.00 7,882.91 7,888.91 29.03 157.40 -174.96 -2.938.24 115.52 3,241.12 3,054.99 188.13 17.413 17.413 18.000.00 7,882.81 8,189.69 8,188.68 30.15 164.24 -174.68 -2.938.25 115.52 3,245.81 3,057.20 188.61 17.00 8,000.00 8,082.42 8,075.81 8,074.94 29.77 161.63 -174.77 -2.938.66 115.52 3,255.82 3,061.74 194.08 16.776 8,300.00 8,281.94 8,275.98 8,275.98 30.62 166.37 -174.59 -2.938.61 115.52 3,255.82 3,061.74 194.08 16.776 8,300.00 8,281.94 8,275.99 8,289.99 8,289.89 30.66 166.93 -174.55 -2.938.75 115.52 3,261.79 3,064.53 187.72 16.53 8,400.00 8,381.73 8,389.30 8,389.23 30.89 169.06 -174.55 -2.939.20 115.52 3,264.68 3,065.04 199.64 16.353 8,500.00 8,881.63 8,580.08 8,582.63 8,581.3 31.60 173.81 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.37 8,585.00 8,592.63 8,591.50 31.61 173.89 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.37 8,585.00 8,592.63 8,591.50 31.61 173.89 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.38 8,775.68 8,774.55 32.26 174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.92 8,700.00 8,881.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.38 8,800.08 8,775.68 8,774.55 32.26 183.27 174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.39 8,775.68 8,774.55 32.26 183.27 174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.39 8,775.68 8,774.55 32.26 183.27 174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.93 8,600.00 8,881.63 8,888.83 3,888.83 3,365 188.11 -174.43 -2.939.20 115.52 3,268.26 3,064.80 213.47 15.310 8,965.23 8,966.83 3,975.76 8,974.51 32.99 183.20 -174.4	7,300.00	7,284.37	7,291.71	7,290.87	26.78	144.94	-175.52	-2,939.20	115.52	3,214.81	3,043.35	171.47	18.749		
7,800,00 7,583,64 7,591,00 7,590,14 27,91 150,60 -175,24 2,939,20 115,52 3,228,40 3,050,17 178,23 18,113 7,700,00 7,683,40 7,690,50 7,882,91 7,886,5 28,65 155,14 -175,05 -2,939,20 115,52 3,232,95 3,052,00 180,87 17,642 7,900,00 7,882,91 7,889,78 7,888,91 29,03 157,40 -174,98 -2,938,24 115,52 3,237,51 3,054,09 186,13 17,413 8,000,00 7,982,67 7,982,60 7,981,93 29,40 159,51 -174,98 -2,938,24 115,52 3,245,81 3,057,20 188,61 17,209 8,100,00 8,182,18 8,1899 8,188,68 30,15 164,24 -174,76 -2,939,20 115,52 3,255,72 3,061,99 17,011 8,200,00 8,281,94 8,276,98 30,52 166,37 -174,57 -2,938,61 115,52 3,255,82 3,061,99 191,09 17,011 15,76	7,400.00	7,384.12	7,390.21	7,389.37	27.16	146.80	-175.42	-2,938.72	115.52	3,218.86	3,045.16	173.70	18.531		
7,700.00 7,683,40 7,690,76 7,689,80 28,28 152,87 -175,14 -2,939,20 115,52 3,232,95 3,052,08 180,87 17,674 7,800,00 7,882,91 7,889,78 7,888,81 29,03 157,40 -174,96 -2,938,21 115,52 3,241,12 3,054,99 186,13 17,413 17,413 18,000,00 7,882,47 7,982,80 7,981,93 29,40 159,51 -174,86 -2,938,35 115,52 3,241,12 3,054,99 186,13 17,413 18,000,00 8,082,42 8,075,81 8,074,94 29,77 161,63 -174,77 -2,938,66 115,52 3,265,72 3,059,63 191,09 17,011 18,200,00 8,281,94 8,276,98 8,276,99 8,276,99 8,276,99 9	7,500.00	7,483.88	7,484.01	7,483.17	27.53	148.58	-175.33	-2,938.84	115.52	3,223.52	3,047.68	175,84	18,332		
7,800.00 7,783.15 7,790.52 7,789.65 28.65 155.14 -175.05 -2,939.20 115.52 3,237.51 3,064.00 183.51 17,642 7,900.00 7,882.67 7,889.78 7,888.81 29.03 157.40 -174.96 -2,938.24 115.52 3,241.12 3,064.99 188.13 17,413 8,000.00 7,882.67 7,888.81 29.01 159.61 -174.86 -2,938.35 115.52 3,245.81 3,067.20 188.61 17,209 8,100.00 8,082.42 8,075.81 8,074.94 29.77 161.63 -174.77 -2,938.61 115.52 3,255.82 3,061.74 194.08 16.776 8,300.00 8,281.94 8,276.98 3,052.99 30.66 166.93 -174.59 -2,938.61 115.52 3,261.74 194.08 16.776 8,300.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,938.65 115.52 3,261.79 3,064.53 197.26 16.63	7,600.00	7,583.64	7,591.00	7,590.14	27.91	150.60	-175.24	-2,939.20	115.52	3,228.40	3,050.17	178.23	18.113		
7,900.00 7,882.91 7,889.78 7,888.91 29.03 157.40 -174.96 -2,938.24 115.52 3,241.12 3,054.99 186.13 17,413 8,000.00 7,982.67 7,982.80 7,981.93 29.40 159.51 -174.86 -2,938.35 115.52 3,245.81 3,067.20 188.61 17,209 8,100.00 8,082.42 8,075.81 8,074.94 29.77 161.63 -174.77 -2,938.66 115.52 3,255.82 3,061.74 194.08 16.776 8,200.00 8,281.94 8,276.98 8,276.96 30.52 166.37 -174.59 -2,938.75 115.52 3,265.82 3,061.74 194.08 16.776 8,307.03 8,381.83 8,299.96 8,298.93 30.66 166.93 -174.55 -2,938.75 115.52 3,264.68 3,065.04 199.64 16.536 8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,939.20 115.52 3,268.68 3,065.04 199.64	7,700.00	7,683.40	7,690.76	7,689.90	28.28	152.87	-175.14	-2,939.20	115.52	3,232.95	3,052.08	180.87	17.874		
8,000.00 7,982.67 7,982.80 7,981.93 29.40 159.51 -174.86 -2,938.35 115.52 3,245.81 3,057.20 188.61 17.209 8,100.00 8,082.42 8,075.81 8,074.94 29.77 161.63 -174.77 -2,938.66 115.52 3,250.72 3,059.63 191.09 17.011 8,200.00 8,182.18 8,189.69 8,188.68 30.15 164.24 174.68 -2,939.20 115.52 3,255.82 3,051.74 194.08 16.776 8,300.00 8,281.94 8,276.98 8,275.96 30.52 166.37 -174.59 -2,938.61 115.52 3,255.82 3,051.74 194.08 16.776 8,300.00 8,381.83 8,299.96 8,299.93 30.66 166.93 -174.55 -2,938.61 115.52 3,265.86 3,063.29 196.57 16.536 8,400.00 8,381.63 8,388.23 30.89 169.06 -174.50 -2,938.61 115.52 3,266.80 3,064.53 197.26 16.536 8,600.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,738.38 8,720.01 8,726.68 8,725.53 32.07 177.17 -174.43 -2,938.21 115.52 3,268.26 3,053.07 207.88 15.722 8,738.38 8,720.01 8,726.68 8,774.53 32.28 178.37 -174.43 -2,938.21 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.28 178.37 -174.43 -2,938.21 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.28 183.20 -174.43 -2,938.21 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,954.51 32.96 183.20 -174.43 -2,938.21 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,954.51 32.96 183.20 -174.43 -2,938.20 115.52 3,268.26 3,044.20 214.7 14.757 9,300.00 9,181.63 9,884.5 9,288.13 33.61 185.84 -174.43 -2,938.20 115.52 3,268.26 3,044.20 214.7 14.757 9,300.00 9,281.63 9,894.5 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.20 214.7 14.757 9,300.00 9,281.63 9,894.5 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.20 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40	7,800.00	7,783.15	7,790.52	7,789.65	28.65	155.14	-175.05	-2,939.20	115.52	3,237.51	3,054.00	183.51	17.642		
8,100.00 8,082.42 8,075.81 8,074.94 29.77 161.63 -174.77 -2.938.66 115.52 3,250.72 3,059.63 191.09 17.011 8,200.00 8,182.18 8,189.69 8,188.68 30.15 164.24 -174.65 -2.939.20 115.52 3,255.82 3,061.74 194.08 16.776 8,307.03 8,318.68 8,299.96 8,275.96 30.62 166.93 -174.59 -2.938.61 115.52 3,259.86 3,063.29 196.57 16.584 8,375.03 8,318.68 8,299.96 8,298.93 30.66 166.93 -174.55 -2.938.75 115.52 3,261.79 3,064.63 197.26 16.536 8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2.939.20 115.52 3,261.79 3,064.63 197.26 16.536 8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2.938.65 115.52 3,266.80 3,063.07 205.09 15.935 8,500.00 8,481.83 8,599.26 8,588.13 31.60 173.81 -174.43 -2.939.20 115.52 3,268.26 3,063.17 205.09 15.935 8,700.00 8,881.63 8,699.26 8,688.13 31.94 176.26 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,781.63 8,699.26 8,688.13 31.94 176.26 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,781.63 8,774.53 32.28 178.37 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2.939.20 115.52 3,268.26 3,063.08 205.19 15.534 8,900.00 8,781.63 8,899.38 8,888.13 32.62 181.15 -174.43 -2.939.20 115.52 3,268.26 3,063.09 210.34 15.534 8,900.00 8,781.63 8,955.56 8,953.31 32.84 182.69 -174.43 -2.939.20 115.52 3,267.93 3,052.60 215.24 15.83 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2.939.20 115.52 3,268.26 3,064.00 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 33.95 183.19 185.84 -174.43 -2.939.20 115.52 3,268.26 3,044.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.95 180.14 174.43 -2.939.20 115.52 3,268.26 3,044.42 218.84 14.934 9,200.00 9,281.63 9,189.45 9,188.13 33.95 190.32 -174.43 -2.939.20 115.52 3,268.26 3,044.42 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.99 190.32 -174.43 -2.939.20 115.52 3,268.26 3,044.42 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.99 190.32 -174.43 -2.939.20 115.52 3,268.26 3,044.42 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13	7,900.00	7,882.91	7,889.78	7,888.91	29.03	157.40	-174.96	-2,938.24	115.52	3,241.12	3,054.99	186.13	17.413		
8,200.00 8,182.18 8,189.69 8,188.68 30.15 164.24 -174.68 -2,939.20 115.52 3,255.82 3,061.74 194.08 16.776 8,300.00 8,281.94 8,276.98 8,275.96 30.52 166.37 -174.59 -2,938.61 115.52 3,269.86 3,063.29 196.57 16.584 8,337.03 8,388.23 30.66 166.93 -174.55 -2,938.75 115.52 3,261.79 3,064.53 197.26 16.536 8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,939.20 115.52 3,266.80 3,063.04 199.64 16.353 8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.17 205.09 15.935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,681.63 8,725.53 32.07 177.17 -174.43 -2,939.20 115.52 3,268.26 3,060.38 207.88 15.722 8,738.38 8,720.01 8,726.68 8,775.56 8,774.53 32.28 178.37 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.524 8,900.00 8,881.63 8,809.26 8,688.13 32.62 181.15 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.524 8,900.00 8,881.63 8,809.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.38 8,889.33 32.62 181.15 -174.43 -2,939.20 115.52 3,268.26 3,054.00 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.64 182.69 -174.43 -2,938.76 115.52 3,268.26 3,054.00 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.64 182.69 -174.43 -2,938.76 115.52 3,268.26 3,054.00 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.64 182.69 -174.43 -2,939.20 115.52 3,268.26 3,054.00 213.47 15.310 8,965.00 9,881.63 9,884.59 9,881.3 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,054.00 221.47 14.757 9,300.00 9,881.63 9,889.45 9,888.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,889.45 9,388.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,889.45 9,388.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,041.69 225.57 14.425 9,441.03 9,422.67 9,428.95 9,42	8,000.00	7,982.67	7,982.80	7,981.93	29.40	159.51	-174.86	-2,938.35	115.52	3,245.81	3,057.20	188.61	17,209		
8,300.00 8,281.94 8,276.98 8,275.96 30.52 166.37 -174.59 -2,938.61 115.52 3,259.86 3,063.29 196.57 16.584 8,337.03 8,318.88 8,299.96 8,298.93 30.66 166.93 -174.55 -2,938.75 115.52 3,261.79 3,064.53 197.26 16.536 8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,939.20 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.07 205.09 15.935 8,603.37 8,585.00 8,592.63 8,591.50 31.61 173.89 -174.43 -2,939.20 115.52 3,268.26 3,063.08 207.88 15.722 8,736.38 8,720.01 8,726.68 8,725.53 32.07 177.17 -174.43 -2,939.20 115.52 3,268.26 3,063.08 207.88 15.722 8,738.38 8,720.01 8,726.68 8,774.53 32.28 178.37 -174.43 -2,939.20 115.52 3,267.19 3,058.26 208.93 15.638 8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2,939.20 115.52 3,268.26 3,063.08 207.88 15.534 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2,939.20 115.52 3,268.26 3,063.08 207.89 15.935 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2,939.20 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 9,081.63 9,089.42 9,088.13 33.91 185.84 -174.43 -2,939.20 115.52 3,268.26 3,048.80 213.47 15.310 9,100.00 9,081.63 9,089.42 9,088.13 33.91 185.84 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.91 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 33.91 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.69 221.47 14.767 9,300.00 9,381.63 9,389.45 9,388.13 33.91 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427	8,100.00	8,082.42	8,075.81	8,074.94	29.77	161.63	-174.77	-2,938.66	115.52	3,250.72	3,059.63	191.09	17.011		
8,337.03 8,318.88 8,299.96 8,298.93 30.66 166.93 -174.55 -2,938.75 115.52 3,261.79 3,064.53 197.26 16.536 8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,939.20 115.52 3,264.68 3,065.04 199.64 16.353 8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,268.26 3,063.17 205.09 15,935 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.17 205.09 15,935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15,928 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,938.12 115.52 3,267.19 3,058.26 208.93 15.638 8,800.00 8,781.63 8,774.53 32.28 17	8,200.00	8,182.18	8,189.69	8,188.68	30.15	164.24	-174.68	-2,939.20	115.52	3,255.82	3,061.74	194.08	16.776		
8,400.00 8,381.73 8,389.30 8,388.23 30.89 169.06 -174.50 -2,939.20 115.52 3,264.68 3,065.04 199.64 16.353 8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.17 205.09 15.935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2,938.23 115.52 3,268.26 3,063.08 207.88 15.722 8,965.23 8,946.86 8,964.56 8,953.31 32.84 182.69 -174.43 -2,938.21 115.52 3,267.93 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2,938.21 115.52 3,268.26 3,044.24 218.84 14.934 9,200.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388	8,300.00	8,281.94	8,276.98	8,275.96	30.52	166.37	-174.59	-2,938.61	115.52	3,259.86	3,063.29	196.57	16.584		
8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.17 205.09 15.935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,681.63 8,700.00	8,337.03	8,318.88	8,299.96	8,298.93	30.66	166.93	-174.55	-2,938.75	115.52	3,261.79	3,064.53	197.26	16.536		
8,500.00 8,481.64 8,479.16 8,478.08 31.25 171.19 -174.45 -2,938.65 115.52 3,266.80 3,064.69 202.11 16.163 8,600.00 8,581.63 8,589.26 8,588.13 31.60 173.81 -174.43 -2,939.20 115.52 3,268.26 3,063.17 205.09 15.935 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,681.63 8,700.00	8,400.00	8,381.73	8,389.30	8,388.23	30.89	169.06	-174.50	-2,939.20	115.52	3,264.68	3,065.04	199.64	16.353		
8,603.37 8,585.00 8,592.63 8,591.50 31.61 173.89 -174.43 -2,939.20 115.52 3,268.26 3,063.08 205.19 15.928 8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2,939.20 115.52 3,268.26 3,060.38 207.88 15.722 8,738.38 8,720.01 8,726.68 8,725.53 32.07 177.17 -174.43 -2,938.12 115.52 3,267.19 3,058.26 208.93 15.638 8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2,938.23 115.52 3,267.33 3,056.99 210.34 15.534 8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2,938.23 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2,938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2,938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,044.24 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	8,500.00		8,479.16	8,478.08	31.25	171.19	-174.45	-2,938.65	115.52	3,266.80	3,064.69	202.11	16.163		
8,700.00 8,681.63 8,689.26 8,688.13 31.94 176.26 -174.43 -2.939.20 115.52 3,268.26 3,060.38 207.88 15.722 8,738.38 8,720.01 8,726.68 8,725.53 32.07 177.17 -174.43 -2.938.12 115.52 3,267.19 3,058.26 208.93 15.638 8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2.938.23 115.52 3,267.33 3,056.99 210.34 15.534 8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2.938.20 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2.938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2.938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2.939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2.939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2.937.88 115.52 3,268.95 3,039.36 227.59 14.355	8,600.00	8,581.63	8,589.26	8,588.13	31,60	173,81	-174.43	-2,939.20	115,52	3,268,26	3,063.17	205,09	15,935		
8,738.38 8,720.01 8,726.68 8,725.53 32.07 177.17 -174.43 -2.938.12 115.52 3.267.19 3.058.26 208.93 15.638 8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2.938.23 115.52 3.267.33 3.056.99 210.34 15.534 8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2.938.20 115.52 3.268.26 3.054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2.938.76 115.52 3.267.83 3.052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2.938.81 115.52 3.267.90 3.052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2.939.20 115.52 3.268.26 3.049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2.939.20 115.52 3.268.26 3.049.42 218.44 14.934 9,200.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2.939.20 115.52 3.268.26 3.046.80 221.47 14.757 9,300.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2.939.20 115.52 3.268.26 3.044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2.939.20 115.52 3.268.26 3.041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2.937.88 115.52 3.266.95 3.039.36 227.59 14.355	8,603.37	8,585.00	8,592.63	8,591.50	31.61	173.89	-174.43	-2,939.20	115.52	3,268.26	3,063.08	205.19	15.928		
8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2.938.23 115.52 3,267.33 3,056.99 210.34 15.534 8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2.939.20 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2.938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2.938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2.939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2.939.20 115.52 3,268.26 3,046.80 221.47 14.757 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2.939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2.939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2.937.88 115.52 3,266.95 3,039.36 227.59 14.355	8,700.00	8,681.63	8,689.26	8,688.13	31.94	176.26	-174.43	-2,939.20	115.52	3,268.26	3,060.38	207.88	15.722		
8,800.00 8,781.63 8,775.68 8,774.53 32.28 178.37 -174.43 -2.938.23 115.52 3,267.33 3,056.99 210.34 15.534 8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2.939.20 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2.938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2.938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2.939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2.939.20 115.52 3,268.26 3,046.80 221.47 14.757 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2.939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2.939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2.937.88 115.52 3,266.95 3,039.36 227.59 14.355	8,738.38	8,720.01	8,726.68	8,725.53	32.07	177.17	-174,43	-2,938.12	115.52	3,267.19	3,058.26	208.93	15.638		
8,900.00 8,881.63 8,889.38 8,888.13 32.62 181.15 -174.43 -2,939.20 115.52 3,268.26 3,054.80 213.47 15.310 8,965.23 8,946.86 8,954.56 8,953.31 32.84 182.69 -174.43 -2,938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2,938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,046.80 221.47 14.757 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355															
8,965,23 8,946,86 8,954,56 8,953,31 32.84 182.69 -174.43 -2,938.76 115.52 3,267.83 3,052.60 215.24 15.183 9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2,938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>213.47</td><td></td><td></td><td></td></td<>												213.47			
9,000.00 8,981.63 8,975.76 8,974.51 32.96 183.20 -174.43 -2,938.81 115.52 3,267.90 3,052.05 215.85 15.140 9,100.00 9,081.63 9,089.42 9,088.13 33.31 185.84 -174.43 -2,939.20 115.52 3,268.26 3,049.42 218.84 14.934 9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,046.80 221.47 14.757 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,268.95 3,039.36 227.59 14.355															
9,200.00 9,181.63 9,189.45 9,188.13 33.65 188.11 -174.43 -2,939.20 115.52 3,268.26 3,046.80 221.47 14.757 9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	9,000.00									3,267.90					
9,300.00 9,281.63 9,289.45 9,288.13 33.99 190.32 -174.43 -2,939.20 115.52 3,268.26 3,044.24 224.02 14.589 9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	9,100,00	9,081.63	9,089,42	9,088,13	33.31	185.84	-174.43	-2,939.20	115.52	3,268,26	3,049.42	218,84	14.934		
9,400.00 9,381.63 9,389.45 9,388.13 34.33 192.53 -174.43 -2,939.20 115.52 3,268.26 3,041.69 226.57 14.425 9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	9,200.00	9,181.63	9,189.45	9,188.13	33.65	188.11	-174.43	-2,939.20	115.52	3,268.26	3,046.80	221.47	14.757		
9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	9,300.00	9,281.63	9,289,45	9,288,13	33,99	190.32	-174.43	-2,939.20	115.52	3,268.26	3,044.24	224,02	14.589		
9,441.03 9,422.67 9,428.95 9,427.62 34.47 193.40 -174.43 -2,937.88 115.52 3,266.95 3,039.36 227.59 14.355	9,400.00	9,381.63	9,389.45	9,388.13	34.33	192.53	-174.43	-2,939.20	115.52	3,268.26	3,041.69	226.57	14.425		
9,500.00 9,481.63 9,480.40 9,479.07 34.68 194.54 -174.43 -2,937.96 115.52 3,267.05 3,038.12 228.93 14.271	9,441.03	9,422.67	9,428.95			193,40			115,52	3,266,95					
	9,500.00	9,481,63	9,480.40	9,479.07	34.68	194.54	-174.43	-2,937.96	115,52	3,267.05	3,038,12	228,93	14.271		



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 #202H

Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Charles Ling Fed Com #202H

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

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urvey Pro Refer		DINC-ONLY Offs	At	Somi Maio	Avio				A CARLON AND AND AND AND AND AND AND AND AND AN	1 5 5 4 1 6 5 M			Offset Well Error: 0.	00 us
				Semi Majo Reference		Azimuth	Offset Wellb	ore Centre		ance Retween	Minimum	Separation	F- 5 Miller	
Depth	Depth	Depth	Depth			from North	2+N/-S.	*E/-W	Centres			Factor		4
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
2 604 28	12,198.00	12,207.22	12.204.50	43.89	267.56	-172.99	-2,939.20	115.52	2,633.23	2,322.22	311.01	8.467	a antario anni alla massa di mondia di Alla Solidado Alla di di	
	12,198.00			44.17	267.56	-172.72	-2,939.20	115.52	2,538.33		311.06	8.160		
	12,198.00			44.51	267.56	-172.40	-2,939.20	115.52	2,439.25			7.841		
	12,198.00			44.91	267.56	-172.06	-2,939.20	115.52	2,340.26			7.521		
	12,198,00			45.37	267.56	-171.70	-2,939.20	115.52	2,241,35			7.202		
	12,198.00			45.87	267.56	-171.29	-2,939.20	115.52	2,142.54			6.883		
3.200.00	12,198.00	12,207.22	12.204.50	46.43	267.56	-170.85	-2,939.20	115.52	2,043.85	1,732.48	311.37	6.564		
	12,198.00			47.04	267.56	-170.36	-2,939.20	115.52	1,945.30			6.246		
	12,198.00			47.69	267.56	-169.83	-2,939.20	115.52	1,846.90		311.57	5.928		
	12,198.00			48.40	267.56	-169.23	-2,939,20	115.52	1,748.68		311.69	5,610		
3,600.00	12,198.00	12,207.22	12,204.50	49.15	267.56	-168.56	-2,939.20	115.52	1,650,68		311.83	5.294		
3,700.00	12,198.00	12,207.22	12,204.50	49.94	267.56	-167.80	-2,939.20	115.52	1,552.93	1,240.93	312.00	4.977		
	12,198.00			50.77	267.56	-166.94	-2,939.20	115,52	1,455,49		312,19	4.662		
3,900.00	12,198.00	12,207.22	12,204.50	51.64	267.56	-165.97	-2,939.20	115.52	1,358.41	-	312.43	4.348		
14,000.00	12,198.00	12,207.22	12,204.50	52.55	267.56	-164.84	-2,939.20	115.52	1,261.80	949.09	312.71	4.035		
4,100.00	12,198.00	12,207.22	12,204.50	53.49	267.56	-163.52	-2,939.20	115.52	1,165.76	852.70	313.06	3.724		
4,200.00	12,198.00	12,207.22	12,204.50	54.47	267.56	-161.97	-2,939.20	115.52	1,070.44	756.94	313,49	3,415		
	12,198.00			55.48	267.56	-160.12	-2,939.20	115.52	976,06		314.05	3.108		
4,400.00	12,198.00	12,207.22	12,204,50	56.51	267.56	-157.87	-2,939.20	115.52	882,91	568.16	314.76	2.805		
4,500.00	12,198.00	12,207.22	12,204.50	57.58	267.56	-155.10	-2,939.20	115,52	791.44	475,76	315.69	2.507		
4,600.00	12,198.00	12,207.22	12,204.50	58.68	267.56	-151.62	-2,939.20	115.52	702.30	385.37	316.93	2.216		
14,700.00	12,198.00	12,207.22	12,204.50	59.80	267,56	-147,14	-2,939.20	115.52	616.51	297.89	318.61	1,935		
4,800.00	12,198.00	12,207.22	12,204.50	60.94	267.56	-141.27	-2,939,20	115.52	535,66	214.76	320.90	1.669		
4,900.00	12,198.00	12,207.22	12,204.50	62.11	267.56	-133.43	-2,939,20	115.52	462.36	138.44	323.92	1.427 L	evel 3	
5,000.00	12,198.00	12,207.22	12,204.50	63.30	267.56	-122.93	-2,939.20	115,52	400,79	73,17	327.62	1.223 L	evel 2	
5,100.00	12,198.00	12,207.22	12,204.50	64.51	267.56	-109.28	-2,939.20	115.52	357.04	25.78	331.26	1.078 L	evel 2	
5,200.00	12,198.00	12,207,22	12,204.50	65.73	267,56	-93.03	-2,939.20	115.52	338,12	4.91	333.21	1.015 L	evel 2	
5,215.75	12,198.00	12,207.22	12,204.50	65.93	267.56	-90.36	-2,939.20	115.52	337.76	4.50	333.26		evel 2, CC, ES, SF	
5,300.00	12,198.00	12,207.22	12,204.50	66.98	267,56	-76.36	-2,939.20	115.52	348.10	15.91	332.19	1.048 L		
5,400.00	12,198.00	12,207.22	12,204.50	68.24	267.56	-61.75	-2,939.20	115.52	384.74	55.80	328.94	1.170 L	evel 2	
5,500.00	12,198.00	12,207.22	12,204.50	69.52	267.56	-50.28	-2,939.20	115.52	441.45	116.25	325.20	1.357 L	evel 3	
5,600.00	12,198.00	12,207.22	12,204.50	70.82	267.56	-41.68	-2,939.20	115.52	511,59	189.59	322.00	1.589		
5,700.00	12,198.00	12,207.22	12,204.50	72.13	267.56	-35.26	-2,939.20	115.52	590.40	270.84	319.56	1.848		
5,800.00	12,198.00	12,207.22	12,204.50	73.45	267.56	-30.40	-2,939.20	115.52	674.85	357.07	317.78	2.124		
5,900.00	12,198.00	12,207.22	12,204.50	74.79	267.56	-26.63	-2,939.20	115.52	763.07	446.59	316.48	2.411		
6,000.00	12,198.00	12,207.22	12,204.50	76.14	267.56	-23.66	-2,939.20	115.52	853.89	538.35	315.53	2.706		
6,100.00	12,198.00	12,207.22	12,204.50	77.50	267.56	-21.27	-2,939.20	115.52	946.56	631.72	314.83	3.007		
	12,198.00			78.87	267.56	-19.30	-2,939.20	115.52	1,040.59	726.28	314.31	3.311		
	12,198.00			80.25	267.56	-17.67	-2,939.20	115.52	1,135.64	821.73	313,91	3.618		
	12,198.00			81.65	267.56	-16.28	-2,939.20	115.52	1,231.47	917.86	313.61	3.927		
6,500.00	12,198.00	12,207.22	12,204.50	83.05	267.56	-15.10	-2,939.20	115.52	1,327.92	1,014.54	313,38	4.237		
6,600.00	12,198.00	12,207.22	12,204.50	84.46	267.56	-14.07	-2,939.20	115.52	1,424.86	1,111.66	313.20	4.549		
6,700.00	12,198.00	12,207.22	12,204.50	85.88	267.56	-13.18	-2,939.20	115.52	1,522.19	1,209.13	313.06	4.862		
6,800.00	12,198,00	12,207.22	12,204.50	87,31	267.56	-12.40	-2,939.20	115.52	1,619.85	1,306.90	312.96	5,176		
6,900.00	12,198.00	12,207.22		88.74	267.56	-11.70	-2,939.20	115.52	1,717.78		312.88	5.490		
6,957.82	12,198.00	12,207.22	12,204.50	89.57	267.56	-11.34	-2,939.20	115.52	1,774.51	1,461.66	312.84	5.672		



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 #202H

Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database: Offset TVD Reference:

WELL @ 3640.50usft (Patterson 282) WELL @ 3640.50usft (Patterson 282)

Well Charles Ling Fed Com #202H

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Conroe DB

Offset Datum

Reference Depths are relative to WELL @ 3640.50usft (Patterson 282) Coordinates are relative to: Charles Ling Fed Com #202H

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.42°

