HOBBS OCD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

FEB 2 8 2018

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OPERATOR'S NAME:	Matador Prod Co	
LEASE NO.:	NM135247	
WELL NAME & NO.:	132H-Nina Cortell Fed Com	
SURFACE HOLE FOOTAGE:	150'/S & 1847'/W	
BOTTOM HOLE FOOTAGE	240'/N & 1650'/W	
LOCATION:	Section 3, T. 22 S., R. 32 E.	
COUNTY:	Lea County, New Mexico	

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

A. Hydrogen Sulfide

 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 1200 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 <u>24 hours in the Potash Area</u> 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,

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whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 9 5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.
- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least **500** feet into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13 3/8 inch first surface casing shoe shall be 2000 (2M) psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9** 5/8 inch intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

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- 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. <u>When the Communitization Agreement number is known, it shall also be</u> on the sign.

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GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours).
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - \boxtimes Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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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8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

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

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

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C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM135247
WELL NAME & NO.:	132H-Nina Cortell Fed
SURFACE HOLE FOOTAGE:	150'/S & 1847'/W
BOTTOM HOLE FOOTAGE	240'/N & 1650'/W
LOCATION:	Section 3, T. 22 S., R. 32 E.
COUNTY:	Lea County, New Mexico

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

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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

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

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

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Watershed/Water Quality:

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

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

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• Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1 \frac{1}{2}$ times the content of the largest tank or 24 hour production. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Construction of the new access road through the existing fence which separates the proposed Nina Cortell Fed Com Slot 1 and Slot 2 well pads on New Mexico State Trust lands from the proposed Nina Cortell Fed Com Slot 3 and Slot 4 well pads on Federal lands (Exhibits 24 and 25) would require that a new fence and a cattle guard be installed.

Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the private surface landowner and grazing allotment holders prior to crossing any fences.

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 the Applicant. The Applicant 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.

Prior to construction of the Nina Cortell Slot 3 and Slot 4 well pads, a straw wattle and earthen berm would be placed along the southern edges of the well pads (Exhibits 12 and 22 – Slot 3 well pad, Exhibits 15 and 23 – Slot 4 well pad) to avoid impacts to the un-named drainage feature located approximately 400-feet south of the two well pads. These measures would also be maintained during interim reclamation earthwork.

Production facilities on the four 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 berms. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pads. The berms around the production facilities shall be maintained through the life of the wells and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

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Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

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

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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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

Drainage

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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: 400' + 100' = 200' lead-off ditch interval 4%

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.

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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

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Containment Structures

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

Painting Requirement

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

VRM Facility Requirement

Low-profile tanks not greater than eight-feet-high shall be used.

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

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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 <u>no</u> 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	l <u>b/acre</u>
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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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM135247
WELL NAME & NO.:	132H-Nina Cortell Fed
SURFACE HOLE FOOTAGE:	150'/S & 1847'/W
BOTTOM HOLE FOOTAGE	240'/N & 1650'/W
LOCATION:	Section 3, T. 22 S., R. 32 E.
COUNTY:	Lea County, New Mexico

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

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] Permit Expiration

Archaeology, Paleontology, and Historical Sites

Noxious Weeds

Special Requirements

Lesser Prairie-Chicken Timing Stipulations Ground-level Abandoned Well Marker Hydrology Cave/Karst

Range

Construction

Notification

Topsoil

Closed Loop System

Federal Mineral Material Pits

Well Pads

Roads

Road Section Diagram

Production (Post Drilling)

Well Structures & Facilities

Interim Reclamation
Final Abandonment & Reclamation

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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V. SPECIAL REQUIREMENT(S)

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

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

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

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Watershed/Water Quality:

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

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

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• Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1 \frac{1}{2}$ times the content of the largest tank or 24 hour production. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Construction of the new access road through the existing fence which separates the proposed Nina Cortell Fed Com Slot 1 and Slot 2 well pads on New Mexico State Trust lands from the proposed Nina Cortell Fed Com Slot 3 and Slot 4 well pads on Federal lands (Exhibits 24 and 25) would require that a new fence and a cattle guard be installed.

Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the private surface landowner and grazing allotment holders prior to crossing any fences.

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 the Applicant. The Applicant 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.

Prior to construction of the Nina Cortell Slot 3 and Slot 4 well pads, a straw wattle and earthen berm would be placed along the southern edges of the well pads (Exhibits 12 and 22 – Slot 3 well pad, Exhibits 15 and 23 – Slot 4 well pad) to avoid impacts to the un-named drainage feature located approximately 400-feet south of the two well pads. These measures would also be maintained during interim reclamation earthwork.

Production facilities on the four 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 berms. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pads. The berms around the production facilities shall be maintained through the life of the wells and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

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Any water erosion that may occur due to the construction of the well pads or during the life of the wells and associated infrastructure would be corrected within two weeks and proper measures would be taken to prevent future erosion.

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

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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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

Drainage

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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: 400' + 100' = 200' lead-off ditch interval 4%

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.

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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 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.

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Species	l <u>b/acre</u>
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*Pounds of pure live seed:

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

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Hydrogen Sulfide Drilling

Operations Plan

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

See attachments

6 Communication:

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



7 Drilling Stem Testing:

• No DSTs or cores are planned at this time.

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

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

11 Emergency Contacts

• See following page
H2S Contingency Plan Emergency Contacts Nina Cortell wells Matador Production Company Sec. 3, T22S, R32E Lea County, NM

Company Office			
Matador Production Company	(972)-371-5200		- · · · · · · · · · · · · · · · · · · ·
Key Personnel	·····		
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Adam Lange	Drilling Engineer	972-371-5427	626-318-5808
Lea County			
Ambulance	·	911	
Nor Lea General Hospital (Hobbs)		575-397-0560	
State Police (Hobbs)		575-392-5580	
City Police (Hobbs)		575-397-9625	
Sheriff's Office (Lovington)		575-396-3611	
Fire Marshall (Lovington)		575-391-2983	
Volunteer Fire Dept. (Eunice)		575-394-3258	
Emergency Management (Lovington)		575-391-2983	
New Mexico Oil Conservation Division	(Hobbs)	575-393-6161	575-390-3186
BLM (Hobbs)		575-393-3612	
Hobbs Animal Clinic		575-392-5563	
Dal Paso Animal Hospital (Hobbs)		575-397-2286	
Mountain States Equine (Hobbs)	· · · · · · · · · · · · · · · · · · ·	575-392-7488	
Carlsbad			
BLM		575-234-5972	
Santa Fe			
New Mexico Emergency Response Cor	nmission (Santa Fe)	505-476-9600	
New Mexico Emergency Response Cor	nmission (Santa Fe) 24 hrs	505-827-9126	
New Mexico State Emergency Operation	ons Center	505-476-9635	
National			
National Emergency Response Center	(Washington, D.C.)	800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock,	ТХ	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd SE	, D3; Albuquerque, NM	505-842-4433	
SB Air Med Service- 2505 Clark Carr Lo	op SE; Albuquerque, NM	505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	
NM Dept. of Transportation (Roswell)	•	575-637-7200	

H2S Rig Diagram







Survey Report

Company: Project: Site: Well: Wellhom:	Matador Resource Lea County, NM Nina Cortell Fed C No. 132H	es Com		Local Co TVD Refe MD Refe North Re	o-ordinate Refere erence: rence: oference:	ence:	Well No. 132H Well @ 3837.00 Well @ 3837.00 Grid	Dusft Dusft		
Design:	Prelim Plan B			Database	9:	.	WellPlanner1	nurc		
Project	Lea County,	NM	· · · · · · · · · · · · · · · · · · ·							
Map System: Geo Datum: Map Zone:	US State Plan NAD 1927 (NA New Mexico El	e 1927 (Exact so DCON CONUS) ast 3001	lution)	System	n Datum:		Mean Sea Lev	el		
Site	Nina Cortell F	ed Com								
Site Position: From: Position Uncertai	Map inty:	0.00 usft	Northing: Easting: Slot Radius:		514,876.00 usft 705,087.00 usft 13-3/16 "	Latitude: Longitude Grid Conv	e: vergence:		32.413 103.668 0.3	3755°N 1756°W 36°
Well	No. 132H		<u></u>							
Well Position	+N/-S	0.00 usft	Northing:		514,889.0	D0 usft	Latitude:		32.41	3770°N
	+E/-W	0.00 usft	Easting:		706,348.0	00 usft	Longitude:		103.664	1670°W
Position Uncerta		0.00 Δ5π	vvelinead Ele	evation:		USIL	Ground Level:		3,808.	ου usπ
Wellbore	OH	• .					• •,.		• <u>• • • • • • • • • • • • • • • • • • </u>	
Magnetics	Model N	ame	Sample Date	De	clination (°))ip Angle (°)	Field	l Strength (nT)	
		HDGM	7/31/2017		6.95		60.3	0 	48,279.80	
Design	Prelim Plan E	3			1				· · · · · · · · · · · · · · · · · · ·	
Audit Notes:										
Version:			Phase:	PLAN		Tie On Depth	:			0.00
Vertical Section:		Depth Fr	rom (TVD)	+N/	-Ś	+E/-W		Direction		
		(U	0.00	(usi	0.00	0.00		3	59.49	1
									· · · · · · · · · · · · · · · · · · ·	i
Survey Tool Prog	jr am	Date 8/11/2	017				. •			
From	То	o		• .	T		Deservicetion			
(USR)	(USR)	Survey (wellbo	ore)					UDON		
1,200	.00 1,200.00) Prelim Plan B (() Prelim Plan B ((0H) 0H)		MWD+HDGM		OWSG MWD	+ HRGM + HRGM		
5,000	.00 16,675.25	i Prelim Plan B (OH)		MWD+HDGM		OWSG MWD	+ HRGM		
Planned Survey										
Measure	d		Vertical		,	Vertical	Dogleg	Build	Turn	
Depth	Inclination	Azimuth	Depth (usft)	+N/-S	+E/-W	Section	Rate	Rate	Rate (%/100ucft)	
(usπ)	(*)	(*)	(usit)	(usit)	(usπ)	(usit)	(/ ivusit)	(/ iousity	(mousic)	
0	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Í
200) 0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300	.00 0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400	.00 0.00	. 0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500		0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600	.00 0.00) 0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	I
700	.00 0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800	.00 0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	

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COMPASS 5000.14 Build 85

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Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Well:	No. 132H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0,00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	1.00	242.39	1,599.99	-0.40	-0.77	-0,40	1.00	1.00	0.00
1,700.00	2.00	242.39	1,699,96	-1.62	-3.09	-1.59	1.00	1.00	0.00
1,800.00	3.00	242.39	1,799.86	-3.64	-6.96	-3.58	1.00	1.00	0.00
1,900.00	4.00	242.39	1,899.68	-6.47	-12.37	-6.36	1.00	1.00	0.00
2,000.00	5.00	242.39	1,999.37	-10.11	-19.32	-9.93	1.00	1.00	0.00
2,100.00	5.00	242.39	2,098.99	-14.15	-27.04	-13.90	0.00	0.00	0.00
2,200.00	5.00	242.39	2,198.60	-18,18	-34.77	-17.87	0.00	0.00	0.00
2,300.00	5.00	242.39	2,298.22	-22.22	-42.49	-21.85	0.00	0.00	0.00
2,400.00	5.00	242.39	2,397.84	-26.26	-50.21	-25.82	0.00	0.00	0.00
2,500.00	5.00	242.39	2,497.46	-30.30	-57.93	-29.79	0.00	0.00	0.00
2,600.00	5.00	242.39	2,597.08	-34.34	-65.66	-33.76	0.00	0.00	0.00
2,700.00	5.00	242.39	2,696.70	-38.38	-73.38	-37.73	0.00	0.00	0.00
2,800.00	5.00	242.39	2,796.32	-42.42	-81.10	-41.70	0.00	0.00	0.00
2,900.00	5.00	242.39	2,895.94	-46.46	-88.83	-45.67	0.00	0.00	0.00
3,000.00	5.00	242.39	2,995.56	-50.50	-96.55	-49.64	0.00	0.00	0.00
3,100.00	5.00	242.39	3,095.18	-54.54	-104.27	-53.61	0.00	0.00	0.00
3,200.00	5.00	242.39	3,194.80	-58,58	-111.99	-57.58	0.00	0.00	0.00
3,300.00	5.00	242.39	3,294.42	-62.62	-119.72	-61.55	0.00	0.00	0.00
3,400.00	5.00	242.39	3,394.04	-66.66	-127.44	-65.52	0,00	0.00	0.00
3,500.00	5.00	242.39	3 493.66	-70.70	-135.16	-69.49	0.00	0.00	0.00
3,600.00	5.00	242.39	3,593.28	-74.74	-142.89	-73.47	0.00	0.00	0.00
3,700.00	5.00	242.39	3,692.90	-78.78	-150.61	-77.44	0.00	0.00	0.00
3,800.00	5.00	242.39	3,792.52	-82.82	-158.33	-81.41	0.00	0.00	0.00
3,900.00	5.00	242.39	3,892.14	-86.86	-166.05	-85.38	0.00	0.00	0.00
4,000.00	5.00	242.39	3,991.76	-90.90	-173.78	-89.35	0.00	0.00	0.00
4,024.66	5.00	242.39	4,016.32	-91.89	-175.68	-90.33	0.00	0.00	0.00
4,100.00	4.25	242.39	4,091.42	-94.71	-181.06	-93.09	1.00	-1.00	0.00
4,200.00	3.25	242.39	4,191.20	-97.74	-186.85	-96.07	1.00	-1.00	0.00
4,300.00	.2.25	242.39	4,291.08	-99.96	-191.10	-98.25	1.00	-1.00	0.00
4,400.00	1.25	242.39	4,391.04	-101.37	-193.80	-99.64	1.00	-1.00	0.00
4,500.00	0.25	242.39	4,491.03	-101.98	-194.95	-100.24	1.00	-1.00	0.00
4,524.66	0.00	0.00	4,515.68	-102.00	-195.00	-100.26	1.00	-1.00	0.00
4,600.00	0.00	0.00	4,591.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
4,700.00	0.00	0.00	4,691.03	-102.00	-195.00	-100.26	0.00	0,00	0.00
4,800.00	0.00	0.00	4,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00

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COMPASS 5000.14 Build 85

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Well:	No. 132H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Planned Survey

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	0.00	0.00	4.891.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,000.00	0.00	0.00	4,991.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5.008.97	0.00	0.00	5.000.00	-102.00	-195.00	-100.26	0.00	0.00	0.00
9 5/8"			•						••••
5,100.00	0.00	0.00	5,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,200.00	0.00	0.00	5,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,300.00	0.00	0.00	5,291.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,400.00	0.00	0.00	5,391.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,500.00	0.00	0.00	5,491.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,600.00	0.00	0.00	5,591.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,700.00	0.00	0.00	5,691.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,800.00	0.00	0.00	5,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
5,900.00	0.00	0.00	5,891.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,000.00	0.00	0.00	5,991.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,100.00	0.00	0.00	6,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,200.00	0.00	0.00	6,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,300.00	0.00	0.00	6,291.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,400.00	0.00	0.00	6,391.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,500.00	0.00	0.00	6,491.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,600.00	0.00	0.00	6,591.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,700.00	0.00	0.00	6,691.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,800.00	0.00	0.00	6,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
6,900.00	0.00	0.00	6,891.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,000.00	0.00	0.00	6.991.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,100.00	0.00	0.00	7,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,200.00	0.00	0.00	7,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,300.00	0.00	0.00	7,291.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,400.00	0.00	0.00	7,391.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,500.00	0.00	0.00	7,491.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,600.00	0.00	0.00	7,591.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,700.00	0.00	0.00	7,691.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,800.00	0.00	0.00	7,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
7,900.00	0.00	0.00	7,891.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,000.00	0.00	0.00	7,991.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,100.00	0.00	0.00	8,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,200.00	0.00	0.00	8,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,300.00	0.00	0.00	8,291.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,400,00	0.00	0.00	8.391.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8 500 00	0.00	0.00	8,491.03	-102.00	-195.00	-100 26	0.00	0.00	0.00
8 600 00	0.00	0.00	8 591 03	-102.00	-195.00	-100.26	0.00	0.00	0.00
0,000.00	0.00	0.00	8,001.00	102.00	105.00	100.20	0,00	0.00	0.00
8,700.00	0.00	0.00	0,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,800.00	0.00	0.00	8,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
8,900.00	0.00	0.00	8,891.03	-102.00	-195.00	-100.26	0.00	0.00	0,00
9,000,00	0.00	0.00	8,991.03	-102.00	-195.00	-100.26	0.00	0.00	0.00

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COMPASS 5000.14 Build 85

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Well:	No. 132H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Planned Survey

	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	9,100.00	0.00	0.00	9,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9,200.00	0.00	0.00	9,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9,300.00	0.00	0.00	9,291.03	-102.00	-195,00	-100,26	0.00	0.00	0.00
	9,400.00	0.00	0.00	9.391.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9 500 00	0.00	0.00	9,491.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9,600.00	0.00	0.00	9,591.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9 700.00	0.00	0.00	9.691.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9.800.00	0.00	0.00	9,791.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	9 900 00	0.00	0.00	9,891.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	10 000 00	0.00	0.00	9 991.03	-102 00	-195 00	-100 26	0.00	0.00	0 00
	10,100.00	0.00	0.00	10,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	10 200 00	0.00	0.00	10.191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
ļ.	10,300,00	0.00	0.00	10,291 03	-102.00	-195.00	-100.26	0.00	0.00	0.00
1	10,000.00	0.00	0.00	10 391 03	-102.00	-195.00	-100 26	0.00	0.00	0.00
1	10,500,00	0.00	0.00	10 491 03	-102.00	-195.00	-100 26	0.00	0.00	0.00
i	10,600.00	0.00	0.00	10,591.03	-102.00	-195.00	-100.26	0.00	0,00	0.00
1	10 700 00	0.00	0.00	10 691 03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	10,700.00	0.00	0.00	10,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
1	10,800.00	0.00	0.00	10,791.03	-102.00	-195.00	100.20	0.00	0.00	0.00
	10,900.00	0.00	0.00	10,091.03	-102.00	-195.00	-100.20	0.00	0.00	0.00
	11,100.00	0.00	0.00	11,091.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
l	11,200.00	0.00	0.00	11,191.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	11,300.00	0.00	0.00	11,291.03	-102.00	-195.00	-100.26	0.00	0.00	0.00
	11,363.01	0.00	0.00	11,354.04	-102.00	-195.00	-100.26	0.00	0.00	0.00
	11,400.00	3.70	359.49	11,391.00	-100.81	-195.01	-99.07	10.00	10.00	0.00
	11,450.00	8.70	359.49	11,440.69	-95.41	-195.06	-93.67	10.00	10.00	0.00
	11,500.00	13.70	359.49	11,489.73	-85.70	-195.14	-83.96	10.00	10.00	0.00
	11,550.00	18.70	359.49	11,537.73	-71.76	-195.27	-70.02	10.00	10.00	0.00
	11,600.00	23.70	359.49	11,584.33	-53.69	-195.43	-51,94	10.00	10.00	0.00
	11,650.00	28,70	359.49	11,629,18	-31.62	-195.62	-29.88	10.00	10.00	0.00
	11,700.00	33.70	359.49	11,671.93	-5.73	-195.85	-3.98	10.00	10.00	0.00
	11,750.00	38.70	359.49	11,712.27	23.79	-196.11	25.54	10.00	10.00	0.00
	11,800.00	43.70	359.49	11,749.88	56.71	-196.40	58.46	10.00	10.00	0.00
	11,850.00	48.70	359.49	11,784.47	92.79	-196.72	94.53	10.00	10.00	0.00
	11,900.00	53.70	359.49	11,815.80	131.74	-197.06	133.49	10.00	10.00	0.00
	11,950.00	58.70	359.49	11,843.60	173.27	-197,43	175.02	10.00	10.00	0.00
	12 000 00	63 70	359 49	11.867.68	217 07	-197.82	218 82	10 00	10 00	0.00
	12 050 00	68 70	359 49	11 887 86	262.80	-198 22	264.56	10.00	10.00	0.00
	12,000,00	73.70	359 49	11 903 96	310 12	-198.64	311.87	10.00	10.00	0.00
	12 150 00	78.70	350 40	11 915 89	358.66	-199.07	360 42	10.00	10.00	0.00
1	12,200.00	83.70	359.49	11,923.54	408.05	-199.50	409.81	10.00	10.00	0.00
	12,250.00	88.70	359.49	11,926.85	457.92	-199.94	459.69	10.00	10.00	0.00
L	12,263.01	90.00	359.49	11,927.00	470.94	-200.06	472.70	10.00	10.00	0.00

COMPASS 5000.14 Build 85

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Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Well:	No. 132H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Planned Survey

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)
12 300 00	90.00	359 49	11 927 00	507.92	-200 38	509.68	0.00	0.00	0.00
12 400 00	90.00	359 49	11,927,00	607 92	-201 27	609 68	0.00	0.00	0.00
12,500.00	90.00	359.49	11,927.00	707.91	-202.15	709.68	0.00	0.00	0.00
40.000.00	00.00	050.40	44 007 00						0.00
12,600.00	90.00	359.49	11,927.00	807.91	-203.03	809.68	0.00	0.00	0.00
12,700.00	90.00	359.49	11,927.00	907.91	-203.91	909.68	0.00	0.00	0.00
12,800.00	90.00	359.49	11,927.00	1,007.90	-204.80	1,009.68	0.00	0.00	0.00
12,900.00	90.00	359,49	11,927.00	1,107.90	-205.68	1,109.68	0.00	0.00	0.00
13,000.00	90.00	359.49	11,927.00	1,207.89	-206.56	1,209.68	0.00	0.00	0.00
13,100.00	90.00	359.49	11,927.00	1,307.89	-207.44	1,309.68	0.00	0.00	0.00
13,200.00	90.00	359.49	11,927.00	1,407.89	-208.33	1,409.68	0.00	0.00	0.00
13,300.00	90.00	359.49	11,927.00	1,507.88	-209.21	1,509.68	0.00	0.00	0.00
13,400.00	90.00	359.49	11,927.00	1,607.88	-210.09	1,609.68	0.00	0.00	0.00
13,500.00	90.00	359.49	11,927.00	1,707.87	-210.97	1,709.68	0.00	0.00	0.00
13,600,00	90.00	359,49	11,927.00	1.807.87	-211.86	1,809.68	0.00	0.00	0.00
13,700.00	90.00	359,49	11.927.00	1,907,87	-212.74	1,909.68	0.00	0.00	0.00
13,800.00	90.00	359.49	11,927.00	2,007.86	-213.62	2.009.68	0.00	0.00	0.00
13,900.00	90.00	359,49	11,927.00	2,107.86	-214.51	2,109.68	0.00	0.00	0.00
14,000.00	90.00	359.49	11,927.00	2,207.85	-215.39	2,209.68	0.00	0.00	0.00
14,100.00	90.00	359.49	11,927.00	2,307.85	-216.27	2,309.68	0.00	0.00	0.00
14,200.00	90.00	359.49	11,927.00	2,407.85	-217.15	2,409.68	0.00	0.00	0.00
14,300.00	90.00	359.49	11,927.00	2,507.84	-218.04	2,509.68	0.00	0.00	0.00
14,400.00	90.00	359.49	11,927.00	2,607.84	-218.92	2,609.68	0.00	0.00	0.00
14,500.00	90.00	359.49	11,927.00	2,707.84	-219.80	2,709.68	0.00	0.00	0.00
14,600.00	90.00	359.49	11,927.00	2,807.83	-220.68	2,809.68	0.00	0.00	0.00
14,700.00	90.00	359.49	11,927.00	2,907.83	-221.57	2,909.68	0.00	0.00	0.00
14,800.00	90.00	359.49	11,927.00	3,007.82	-222.45	3,009.68	0.00	0.00	0.00
14,900.00	90.00	359.49	11,927.00	3,107.82	-223.33	3,109.68	0.00	0.00	0.00
15,000.00	90.00	359.49	11,927.00	3,207.82	-224.21	3,209.68	0.00	0.00	0.00
15,100.00	90.00	359.49	11,927.00	3,307.81	-225.10	3,309.68	0.00	0.00	0.00
15,200.00	90.00	359.49	11,927.00	3,407.81	-225.98	3,409.68	0.00	0.00	0.00
15,300.00	90.00	359.49	11,927.00	3,507.80	-226.86	3,509.68	0.00	0.00	0.00
15,400.00	90.00	359.49	11,927.00	3,607.80	-227.74	3,609.68	0.00	0.00	0.00
15,500.00	90.00	359.49	11,927.00	3,707.80	-228.63	3,709.68	0.00	0.00	0.00
15.600.00	90.00	359.49	11,927,00	3,807,79	-229,51	3,809,68	0.00	0.00	. 0.00
15,700.00	90.00	359,49	11,927,00	3,907,79	-230.39	3,909,68	0.00	0.00	0.00
15 800 00	90.00	359.49	11,927.00	4 007.78	-231.27	4 009.68	0.00	0.00	0.00
15 900.00	90.00	359.49	11.927.00	4.107.78	-232.16	4 109.68	0.00	0.00	0.00
16.000.00	90.00	359.49	11,927.00	4.207.78	-233.04	4,209.68	0.00	0.00	0.00
			,						
16,100.00	90.00	359.49	11,927.00	4,307.77	-233.92	4,309.68	0.00	0.00	0.00
16,200.00	90.00	359.49	11,927.00	4,407.77	-234.81	4,409.68	0.00	0.00	0.00
16,300.00	90.00	359.49	11,927.00	4,507.77	-235.69	4,509.68	0.00	0.00	0.00
16,400.00	90.00	359,49	11,927.00	4,607.76	-236.57	4,609.68	0.00	0.00	0.00
16,500.00	90.00	359.49	11,927.00	4,707.76	-237.45	4,709.68	0.00	0.00	0.00
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COMPASS 5000.14 Build 85

Survey Report

Company: Project: Site: Well: Wellbore: Design:	Matador Resou Lea County, NN Nina Cortell Fe No. 132H OH Prelim Plan B	rrces M d Com			Local Co-or TVD Refere MD Referen North Refer Survey Calo Database:	dinate Referent nce: loce: rence: rence: culation Meth	ence: od:	Well No. 132H Well @ 3837.00 Well @ 3837.00 Grid Minimum Curva WellPlanner1	Dusft Dusft Nure		
Planned Survey			<u>_</u> , ., .								
Measur Depti (usft)	red h Inclinatio) (°)	n Azimuth (°)	Vertic Dep (usl	cal th it)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	B R (°/10	uild Rate DOusft) (°	Turn Rate (100usft)
16,60 16,67	0.00 90 5.25 90	0.00 359.4 0.00 359.4	9 11,9 9 11,9	927.00 927.00	4,807.75 4,883.00	-238.34 -239.00	4,809.68 4,884.93	0.00 0.00		0.00 0.00	0.00 0.00
Design Targets										······································	
Target Name - hit/miss tar - Shape	get Dip Ang (°)	gle Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northir (usft)	ng E	asting (usft)	Lati	tude	Longitude
[NinaCort#132H - plan misse - Point	I]LPP es target center by	0.00 0.00 • 4798.91usft at 0	0.00 00usft MD.	4,793 (0.00 TVE	.00 -238.0 9, 0.00 N, 0.00 E	0 519.6 E)	682.00	706,110.00	32	2.426948°N	103.665344°W
[NinaCort#132H - plan misse - Point	IJFPP es target center by	0.00 0.00 245.66usft at 11	11,500.00 626.63usft	178 MD (11608	.00 -197.0 8.46 TVD, -42.4	0 515,(2 N, -195.53	067.00 E)	706,151.00	33	2.414262°N	103.665305°W
[NinaCort#132H - plan hits ta - Point	I]BHL arget center	0.00 0.00	11,927.00	4,883	.00 -239.0	0 519,7	772.00	706,109.00	3:	2.427196°N	103.665345°V
Casing Points											
	Measured Depth (usft)	Vertical Depth (usft)			Name	Ð		Casir Diame (")	ig ter	Hole Diameter (")	
	1,200.00 5,008.97	1,200.00 5,000.00	13 3/8" 9 5/8"					1	3-3/8 9-5/8	17-1/ 12-1/	'2 '4
Formations									•		
	Measured Depth (usft)	Vertical Depth (usft)		Name			Lithology	Di (°	ip ')	Dip Direction (°)	
	11,585.52	11,571.00 TI	BSG				···••••		0.00		
Checked By:				Appro	ved Bv:				Da	te:	

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H	
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft	
Reference Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft	
Site Error:	0.00 usft	North Reference:	Grid	
Reference Well:	No. 132H	Survey Calculation Method:	Minimum Curvature	
Well Error:	0.00 usft	Output errors are at	2.00 sigma	
Reference Wellbore	ОН	Database:	WellPlanner1	
Reference Design:	Prelim Plan B	Offset TVD Reference:	Offset Datum	
Reference	Prelim Plan B	allen d'errer , errer		
Filter type:	NO GLOBAL FILTER: Using user defined selectio	n & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA	
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D	
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Pedal Curve	

Warning Levels Evaluated at:

2.00 Sigma

Survey Tool Program		Date 8/11/2017		······································	-
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,200.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	
1,200.00	5,000.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	
5,000.00	16,675.25	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	

Casing Method:

Not applied

mmary							
· · ·	·* .	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	· .	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Nina Cortell Fed Com					··· -		
No. 122H - OH - Prelim Plan B		1,100.00	1,100.00	60.01	52.58	8.083	CC, ES
No. 122H - OH - Prelim Plan B		1,300.00	1,297.85	63.46	54.98	7.481	SF
No. 202H - OH - Prelim Plan B		1,300.00	1,300.00	30.02	21,51	3.529	CC, ES, SF

Offset De	sign	Nina Co	ortell Fed (Com - No.	122H - OF	I - Prelim Pl	an B					· ·	Offset Site Error:	0.00 usft
Survey Prog	ram: 0-M	WD+HDGM, 12	200-MWD+H	DGM, 5000-MV	VD+HDGM								Offset Well Error:	0,00 usft
Refer	ence	Offse	et	Semi Major	Axis				Dist	ance				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellboi	re Centre	Between Contres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usfl)			
0.00	0.00	0,00	0.00	0.00	0.00	89,05	1.00	60,00	60.01					
100.00	100,00	100.00	100.00	0.13	0.13	89.05	1.00	60.00	60.01	59.75	0.25	235.775		
200.00	200.00	200.00	200.00	0.49	0.49	89.05	1.00	60.00	60.01	59.04	0,97	61.771		
300.00	300.00	300.00	300.00	0.84	0,84	89.05	1.00	60.00	60.01	58,32	1,69	35.542		
400.00	400.00	400.00	400.00	1.20	1.20	89.05	1.00	60.00	60.01	57.60	. 2.41	24.948		
500.00	500.00	500.00	500.00	1.56	1,56	89.05	1.00	60.00	60.01	56.89	3.12	19.219		
600.00	600.00	600.00	600.00	1,92	1.92	89.05	1.00	60.00	60,01	56,17	3.84	15.630		
700.00	700.00	700.00	700.00	2.28	2,28	89.05	1.00	60,00	60.01	55,45	4.56	13.171		
800.00	800.00	800.00	800.00	2.64	2.64	89.05	1,00	60.00	60.01	54.74	5.27	11.380		
900.00	900.00	900.00	900.00	3.00	3.00	89.05	1.00	60.00	60.01	54.02	5,99	10.018		
1,000.00	1,000.00	1,000.00	1,000.00	3,35	3.35	89.05	1.00	60.00	60.01	53.30	6.71	8.947		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3,71	89.05	1.00	60.00	60.01	52.58	7.42	8.083 CC,	ES	
1,200.00	1,200.00	1,198.95	1,198.95	4.07	4.06	89.05	1.01	60.85	60.87	52.74	8.13	7.489		
1,300.00	1,300.00	1,297.85	1,297.81	4.25	4.23	89.06	1.04	63.42	63.46	54.98	8.48	7.481 SF		
1,400.00	1,400.00	1,396.63	1,396.49	4.28	4.27	89.07	1.09	67.68	67.78	59.23	8.54	7.935		
1,500.00	1,500.00	1,495.23	1,494.91	4.34	4.33	89.09	1.17	73.62	73.81	65,16	8.65	8.529		
1,600.00	1,599,99	1,606.57	1,592.82	4,43	4.43	-153.51	1.26	81.23	82.33	73.50	8.83	9,323		
1,700.00	1,699,96	1,707,19	1,691,82	4.54	4.56	-154.14	1.37	89.89	93.39	84,32	9,06	10.307		
1,800.00	1,799,86	1,808.01	1,790,63	4.67	4,71	-155.02	1.47	98,53	106,02	96,68	9,34	11,349		
1,900.00	1,899.68	1,909.05	1,889.21	4.83	4.89	-156.05	1.58	107.16	120.25	110.58	9.67	12,435		
2,000.00	1,999,37	1,989.65	1,987.54	5.01	5.05	-157.13	1.69	115.76	136.11	126.11	10.00	13.610		
2,100.00	2,098.99	2,088.22	2,085.72	5.22	5.27	-158.16	1.79	124.35	152.80	142.40	10.40	14.693		

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

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COMPASS 5000.14 Build 85

Anticollision Report

Company:	Matador Resources
Project:	Lea County, NM
Reference Site:	Nina Cortell Fed Com
Site Error:	0.00 usft
Reference Well:	No. 132H
Well Error:	0.00 usft
Reference Wellbore	ОН
Reference Design:	Prelim Plan B

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

Offset Site Error:

Offset Well Error:

0.00 usft

0.00 usft

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM Reference Offset Semi Major Axis 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM

Reference Offset Semi Major Axis Distance								Gilaet Well Elfor.	0.00 031					
Measured	Vertical	Measured	Verticat	Reference	Offset	Highside	Offset Weilbo	re Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(")	(usft)	(usft)	(usft)	(usit)	(usft)			
2 200 00	2,198.60	2 186 78	2 183 91	5 44	5 49	-158.99	1.90	132 94	169 54	158 71	10.83	15 655		
2 300 00	2 298 22	2 285 34	2 282 10	5.68	5 74	-159.67	2.00	141 53	186.30	175.01	11 29	16 501		
2 400 00	2 397 84	2,200.04	2 380 20	5.94	6.00	-160 23	2.00	150 12	203.09	101 31	11 78	17 245		
2,400.00	2 407 40	2,303.31	2,300.25	5.54	6.00	160.23	1 1 2	159.12	210.00	207.60	12.20	17.808		
2,000,00	2,497.40	2,462.47	2,470.40	6.20	6.64	161 13	2.22	157.30	215.05	201.00	12.23	19.470		
2,800.00	2,097.00	2,581.03	2,3/0.00	0.40	0.04	-101,12	2.32	107.30	200.70	223.09	12.02	18.470		
2,700.00	2,090.70	2,079.39	2,0/4.00	0.77	0.03	-101,40	2.43	175.69	253.53	290.17	13,30	18.972		
2 800 00	2 796 32	2 778 16	2 773 04	7 07	7 13	-161 79	2 53	184 48	270.36	256.43	13.93	19 413		
2 900 00	2 895 94	2 876 72	2 871 23	7.37	7 43	-162.07	2.64	193.07	287 20	272 70	14 50	19 802		
3,000,00	2 995 56	2 975 28	2 969 42	7.68	7 74	-162.32	2.74	201.65	304.05	288.95	15.09	20 144		
3 100 00	3,095,19	2,073,25	3 067 60	8.00	8.05	162.52	2.85	210.25	320.90	305.20	15.69	20.447		
3,700,00	3 194 80	3 172 41	3 165 79	8 3 2	8 37	-162.04	2.00	218.84	337 75	371.45	16 30	20.715		
3,200.00	9,134.00	3,172.41	3,103.15	0.52	0.57	102.75	2.50	210.04	337.75	521.45	10.50	20.115		
3,300.00	3.294.42	3 270 97	3 263.98	8.65	8.69	-162.91	3.06	227.42	354.61	337.69	16.92	20.954		
3,400,00	3,394.04	3 369 54	3 362 17	8.98	9 02	-163.08	3.17	236.01	371.47	353 92	17.55	21,165		
3 500 00	3,493,66	3 468 10	3 460 36	9.31	9.35	+163 23	3 27	244.60	388.33	370 15	18 18	21.356		
3,600,00	3 593 28	3,566,66	3 558 54	9.65	0.60	-163.36	3 39	253.19	405.20	386.38	18.82	21.526		
3,700,00	3 692 90	3,565,22	3,555,54	0.00	10.02	-163.40	. 3.49	261.78	422.07	402.60	10.02	21.678		
3,100.00	0,052.30	5,005.22	3,030.75	5.55	10.02	103.43	5.45	201.70	422.07	402 00	13,47	21,070		
3,800.00	3,792,52	3,763,79	3,754,92	10.34	10.36	- 163.60	3.59	270.37	438.94	418.82	20.12	21.815		
3 900.00	3.892.14	3 862 35	3 853 11	10 68	10 70	-163 71	3.70	278.96	455 81	435.03	20.78	21.939		
4.000.00	3.991.76	3,960,91	3.951.30	11.03	11.04	-163.81	3.80	287.55	472.68	451.25	21.44	22.051		
4 024 66	4 016 32	3 985 21	3 975 50	11 12	11 13	-163.83	3.83	289.67	476 84	455 25	21.60	22 077		
4 100 00	4 091 42	4 059 56	4 049 55	11 38	11 39	-163.92	3.91	296.15	489.09	466.99	22.10	22 132		
4,100.00		4,005.50	4,040.00	11.00	11,05	100.02	0.51	230.10	105.05	100,55	22.10	22.102		
4,200.00	4,191.20	4,158.45	4,148.08	11.72	11.74	-163,98	4.01	304.77	503.89	481.12	22.76	22.135		
4,300.00	4,291.08	4,257.58	4,246.84	12.06	12.08	-163.98	4.12	313.41	517.03	493.59	23.43	22.065		
4,400,00	4,391.04	4.356.92	4.345.79	12.40	12.44	-163.92	4.23	322.06	528.50	504.40	24.10	21,927		
4,500.00	4,491.03	4,456,43	4,444,92	12.73	12.79	-163.81	4.33	330,74	538 31	513.53	24.77	21.728		
4,524,66	4,515.68	4 480 99	4 469 39	. 12.81	12.88	78.6t	4 36	332.88	540 47	515 53	24 94	21 673		
4,600.00	4,591.03	4,556.04	4,544.16	13.04	13.15	78.74	4.44	339.42	546.93	521.50	25.43	21.507		
4,700.00	4,691.03	4,655.66	4,643.40	13.35	13.50	78.90	4.55	348.10	555.50	529.41	26.09	21.295		
4,800.00	4,791.03	4,755.28	4,742.64	13.66	13.86	79.06	4.65	356,78	564.07	537.33	26.75	21.090		
4,900.00	4,891.03	4,854.90	4,841,88	13.97	14.22	79.22	4.76	365.46	572.65	545.25	27.41	20.893		
5,000.00	4,991.03	4,954.52	4,941.12	14.13	14.49	79.37	4.87	374.14	581.24	553.42	27.81	20.898		
1														
5,100.00	5,091.03	5,054.14	5,040.36	14.14	14.60	79.51	4.98	382.83	589.83	561,92	27.91	21.134		
5,200.00	5,191.03	5,153.76	5,139.60	14.16	14.64	79.65	5.08	391.51	598.42	570,47	27.94	21.416		
5,300.00	5,291.03	5,253.38	5,238.84	14.19	14.69	79.79	5,19	400.19	607.01	579.02	28.00	21.682		
5,400.00	5,391.03	5,353.00	5,338.08	14.22	14.75	79,92	5.30	408.87	615.61	587.54	28.07	21.933		
5,500.00	5,491.03	5,452.62	5,437.32	14.27	14.82	80.06	5.40	417.55	624.21	596.06	28,16	22.169		
										•				
5,600.00	5,591.03	5,552.24	5,536.56	14.32	14.90	80.18	5.51	426.24	632.82	604.55	28.26	22.389		
5,700.00	5,691.03	5,651,86	5,635.80	14.38	14,99	80.30	5.62	434,92	641,43	613.04	28.39	22.593		
5,800.00	5,791.03	5,751.48	5,735.04	14.45	15.09	80,43	5.72	443.60	650.04	621.50	28.53	22.782		
5,900.00	5,891.03	5,862.97	5,846,19	14.53	15.20	80.54	5,83	452.36	657.81	629.09	28.73	22.898		
6,000.00	5,991.03	5,975.64	5,958.67	14.62	15.32	80.63	5,91	459,03	663.66	634.72	28.94	22.935		
6,100.00	6,091.03	6,088.53	6,071.47	14.72	15.44	80.69	5.97	463.48	667.56	638.41	29.16	22.897		
6,200.00	6,191.03	6,201.55	6,184.46	14.82	15.56	80.72	6.00	465.72	669.52	640.13	29.39	22.784		
6,300.00	6,291.03	6,308.12	6,291.03	14.94	15.67	80.72	6.00	466.00	669.76	640.15	29 62	22.616		
6,400.00	6,391.03	6,408,12	6,391,03	15.06	15.78	60.72	6.00	466.00	669.76	639,91	29.85	22,436		
6,500.00	6,491.03	6.508.12	6,491,03	15.18	15,90	80.72	6.00	466.00	669,76	639.66	30.10	22,249		
								*						
6,600.00	6,591.03	6,608.12	6,591.03	15.32	16.02	80.72	6.00	466.00	669.76	639.39	30.37	22.053		
6,700.00	6,691.03	6,708.12	6,691.03	15.46	16.16	80.72	6.00	466.00	669.76	639,11	30.65	21.851		
6,800.00	6,791.03	6,808,12	6,791.03	15.61	16.29	80.72	6.00	456.00	669,76	638.82	30.95	21.643		
6,900.00	6,891.03	6,908,12	6,891.03	15.76	16.44	80.72	6.00	466.00	669.76	638.51	31.26	21.429		
7.000.00	6.991.03	7 008 12	6 991 03	15 93	16 59	80.72	6.00	466.00	669.76	638 10	31 58	21 210		
.,200.00		1,000.12	0,001.00	12.00	.0.00		5,50		202.70		51.50	21.210		
7,100.00	7,091.03	7,108,12	7,091.03	16.09	16.75	80.72	6.00	466.00	669.76	637,85	31.91	20.988		
·														
			CC - Min d	centre to cei	nter dista	nce or cover	rgent point, SP	- min sepa	ration facto	or, ES - m	in ellipse s	eparation		

8/11/2017 9:38:30AM

COMPASS 5000.14 Build 85

Anticollision Report

Company:	Matador Resources
Project:	Lea County, NM
Reference Site:	Nina Cortell Fed Com
Site Error:	0.00 usft
Reference Well:	No. 132H
Well Error:	0.00 usft
Reference Wellbore	ОН
Reference Design:	Prelim Plan B

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

04 D		Nies Cr											Official Sile Server	0.00.000
Unset Des	sign ·		DITELL FED V	DOM - NO. 1	122H - UF	1 - Preim Pi	an B						Unset Site Error.	0.00 USA
Survey Progr	ann: u-m ènce	Offs:	et	Semi Malor	Axis				Dista	nce			Offset Well Error:	0.00 ush
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbon	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+NI-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usit)	(usft)			
7,200.00	7,191.03	7,208.12	7,191.03	16.27	16.91	80.72	6.00	466.00	669,76	637.51	32.26	20.762		
7,300.00	7,291.03	7,308.12	7,291,03	16.45	17.08	80.72	6.00	466.00	669,76	637.15	32.62	20.533		
7,400.00	7,391.03	7,408.12	7,391.03	16.64	17.26	80.72	6.00	466.00	669.76	636.78	32.99	20,302		
7,500.00	7,491.03	7,508.12	7,491.03	16.83	17.44	80.72	6.00	466.00	669.76	636.39	33.37	20.070		
7,600.00	7,591.03	7,608,12	7,591.03	17.03	17.63	80.72	6.00	466.00	669.76	636.00	33,77	19,836		
7,700.00	7,691.03	7,708.12	7,691.03	17.23	17.82	80.72	6.00	466,00	669.76	635.60	34.17	19,601		
7,800.00	7,791.03	7,808.12	7,791.03	17.44	18,01	80.72	6.00	466,00	669.76	635.18	34.58	19.367		
7,900.00	7,891.03	7,908.12	7,891.03	17.65	18.22	80.72	6.00	466.00	669.76	634.76	35.01	19.132		
B,000.00	7,991.03	8,008.12	7,991.03	17.87	18,42	80.72	6.00	466.00	669.76	634.33	35.44	18.899		
8,100.00	8,091.03	8,108.12	8,091.03	18.09	18,63	80.72	6.00	466.00	669.76	633,88	35,88	18,666		
8,200.00	8,191.03	8,208.12	8,191.03	18.31	18.85	80.72	6.00	466.00	669.76	633.43	36.33	18.434		
8 300 00	8 291 03	8 308 12	8 291 03	18 54	19.07	80.72	6.00	466.00	650 76	832 07	36 70	18 204		
8,400,00	B 391 03	8 408 12	8 391 03	18.78	19.30	80 72	6.00	466.00	669.76	632.57	37.26	17 975		
8,500.00	8,491.03	8,508.12	8,491,03	19.02	19.52	80.72	6.00	466,00	669,76	632.03	37.74	17.749		
8,600.00	8,591.03	8,608.12	8,591.03	19.26	19,76	80.72	6.00	465.00	669,76	631.55	38.22	17.525		
8,700.00	8,691.03	8,708,12	8,691,03	19.50	19.99	80.72	6.00	466.00	669.76	631.06	38.71	17.303		
8,800.00	8,791,03	8,809,12	8,791.03	19.75	20.23	80.72	6.00	465.00	669,76	630.56	39.21	17.083		
8,900.00	8,891.03	8,908.12	8,891,03	20.00	20.47	80.72	6.00	466.00	669.76	630.06	39.71	16.667		
9,000.00	9.091.03	9,000.12	9.061.03	20.20	20.72	80.72	6.00	466.00	669.70	629.04	40.22	16.441		
9 200 00	9 191 03	9 208 12	9 191 03	20.32	21.27	80 72	6.00	465.00	669.76	628.51	41.26	16 233		
-,		-,	-,											
9,300.00	9,291.03	9,308.12	9,291.03	21.04	21.48	80.72	6.00	466.00	669.76	627.98	41.79	16,028		
9,400.00	9,391.03	9,408.12	9,391.03	21,31	21,74	80,72	6.00	465.00	669.76	627.44	42.32	15.826		
9,500.00	9,491.03	9,508.12	9,491.03	21.58	22.00	80.72	6.00	466.00	669,76	626.90	42.86	15.627		
9,600.00	9,591.03	9,608.12	9,591.03	21.85	22.26	80.72	6.00	466.00	669,76	626.36	43.40	15,431		
9,700.00	9,691.03	9,708.12	9,691,03	22.13	22.53	80.72	6.00	455.00	669.76	625.81	43.95	15.238		
9,800.00	9,791.03	9,808.12	9,791,03	22.40	22.80	80.72	6.00	465,00	669.76	625.26	44,51	15,048		
9,900.00	9,891.03	9,908.12	9,891.03	22.68	23.07	80.72	6.00	466.00	669.76	624.70	45.07	14.862		
10,000.00	9,991.03	10,008.12	9,991.03	22.96	23,34	80,72	6.00	466.00	669.76	624.13	45.63	14.678		
10,100.00	10,091.03	10,108.12	10,091.03	23.25	23.62	80.72	6.00	466.00	669.76	623.57	46.20	14,498		
10,200.00	10,191.03	10,208.12	10.191.03	23.53	23.90	80,72	6.00	466,00	669.76	623.00	46.77	14.321		
10.300.00	10.291.03	10,308,12	10.291.03	23.82	24.18	80.72	6 00	466.00	669.76	622 42	47.34	14,147		
10,400,00	10,391.03	10,408.12	10,391,03	24.11	24.46	80.72	6.00	466.00	669,76	621.84	47.92	13.976		
10,500.00	10,491.03	10,494,41	10,477.11	24.40	24,71	80.31	10.81	465,96	670.66	622.20	48.46	13,839		
10,600.00	10,591.03	10,575,79	10,556,79	24.70	24,93	78.95	27.01	465.81	674.15	625.18	48.97	13.767		
10,700.00	10,691.03	10,650.00	10,626.79	24,99	25,13	76.92	51.49	465.58	681.21	631.79	49.42	13.783		
10 800 00	10 701 03	10 710 08	10 699 61	25.20	25 31	74.41	. 83.24	465 30	602 12	647.71	40.81	12 014		
10,000.00	10,791,00	10,719.00	10,000.01	25.25	25.46	71.83	114.66	465.00	711 14	661.04	~9,01 50.10	14 193		
11.000.00	10,991,03	10.830.78	10,779.42	25.88	25.58	69.32	146.96	464.70	736.18	685.89	50.29	14.640		
11,100.00	11,091,03	10,875.65	10,812.07	26,19	25,69	67.01	177.73	464.42	768.70	718.33	50.37	15.262		
11,200.00	11,191.03	10,914.35	10,838.21	26.49	25,78	64.94	206.25	464.15	808.69	758.32	50.37	16.054		
11,300.00	11,291.03	10,950.00	10,860.54	26,79	25.87	62.98	234.03	463,90	855.79	805.45	50.34	17.000		
11,363.01	11,354.04	10,966.53	10,870.30	26.98	25,91	62.06	247.36	463.78	888.84	838.56	50.28	17.676		
11,400.00	11.440.60	11,977,24	10,070,42	27.10	20.94	56 14	235.16	403.09	908,91	000.05	50.26	18.085		
11,450,00	11 489 73	11,000,00	10,008,87	21.20	20.00	53.64	275.21	403.02	961 94	003.46	50.14	10.013		
1,000.00	11,403,13	1,000.00	10,000.07	27.33	20.00	55.64	213.21	403.32	501.04	311,09	50,14	15,102		
11,550.00	11,537.73	11,024,12	10,901.22	27.53	26.06	50.44	295.93	463.33	986.96	936.79	50,17	19.674		
11,600.00	11,584.33	11,050.00	10,913.49	. 27.65	26.14	47.55	318.71	463.12	1,011.13	960,93	50,20	20.144		
11,650.00	11,629.18	11,050.00	10,913.49	27.79	26.14	45.70	318,71	463.12	1,033.86	983.79	50.08	20.645		
11,700.00	11,671.93	11,075.01	10,924,36	27.91	26.21	43,45	341,23	462.91	1,055.09	1,004.98	50.11	21.057		
11,750.00	11,712.27	11,100.00	10,934.23	28.02	26.29	41.52	364.19	462.70	1,074.82	1,024.69	50,14	21.438		
11,800,00	11,749,88	11,100.00	10,934,23	28,13	26.29	40,26	364.19	462.70	1,092.81	1,042.77	50.04	21.837		

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Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Reference Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	No. 132H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	WellPlanner1
Reference Design:	Prelim Plan B	Offset TVD Reference:	Offset Datum

Offset Design Nina Cortell Fed Com - No. 122H - OH - Prelim Plan B

Sur	vey Progra	am: 0-M	WD+HDGM, 1	200-MWD+H	DGM, 5000-MW	D+HDGM				5 1-1-				Offset Well Error:	0.00 usft
	Retere	ince Madical	Uns	et Maniaai	Semi Major	AXIS	Misheldo	Officet Wallbar	n Cantm	Dista	Returned	Minimum	Secondian		
me C	asured Jeoth	Denth	Depth	Deoth	Reference	Unset	Toolface	ANI S	e Centre	Centres	Ellioses	Separation	Factor	Warning	
1	usit)	(usft)	(usft)	(usit)	(usft)	(usft)	(7)	(usft)	(usft)	(usft)	(usft)	(usft)			
		44 704 47	41 100 50	10 044 76	20.24	76.70	28 77	200.85	467.46	1 109 75	1 058 65	50.10	12 120		
	1,850.00	11,/04.47	11,120.00	10,944.25	20.24	20.30	30.77	390.00	402.40	1 122 88	1,030.03	50.10	22.130		
	1,900.00	11,013.00	11 165 11	10,930,92	28.30	20.45	36.72	411.30	402.20	1,122.00	1,072.73	50.14	22.335		
	2,000,00	11,043.00	11 193 60	10,955,15	28.40	26.50	35.97	443.70	461.97	1 144 95	1 094 77	50.19	22.034		
	2,000.00	11 887 85	11 200 00	10,959,61	28.75	26.63	35.42	459.68	461.87	1 152 80	1 102 56	50.23	22.015		
	2,000.00	11 003 05	11 220 85	10 967 42	28.89	26.00	35.00	480.15	461.63	1 158 44	1 108 13	50.31	23.026		
1 "	2,100.00	11,003.00	11,220.05	10,007.42	20.00	20.71	00.00	400.10	401.00	7,100.44	1,100.10		20,020		
1	2,150.00	11,915.89	11,250.00	10,971,71	29.04	26.82	34.74	508.98	461.36	1,162.00	1,111.57	50.43	23.042		
1	2,200.00	11,923.54	11,250.00	10,971.71	29.19	26.82	34.68	508.98	461.36	1,163.14	1,112.65	50.49	23.038		
1 13	2,250.00	11,926.85	11,277.01	10,974,38	29.35	26.92	34.75	535.85	461.12	1,162.01	1,111.37	50.64	22.946		
1	2,263.01	11,927.00	11,281.88	10,974.72	29.39	26.94	34.79	540.71	461.07	1,161.37	1,110.69	50.68	22.916		
1	2,300.00	11,927.00	11,300.00	10,975.64	29.52	27.02	34.82	558.81	460.90	1,159.73	1,108.92	50.80	22.828		
1	2,400.00	11,927.00	11,355.22	10,976.00	29.90	27.25	34.83	614.02	460,40	1,158.55	1,107.36	51.19	22.632		
1	2,437.04	11,927.00	11,407.75	10,976.00	30.07	27.49	34.83	651.05	460.05	1,158.54	1,107.11	51.43	22.528		
1	2,500.00	11,927.00	11,455.22	10,976.00	30.35	27.73	34.83	714.01	459.47	1,158.53	1,106.80	51.73	22.396		
1 1	2,600.00	11.927.00	11,555.22	10,976.00	30.85	28.27	34.83	814.01	458.55	1,158.50	1,106.16	52.34	22.132		
1	2,700.00	11.927.00	11,655 22	10,976.00	31.42	28.87	34.82	914.00	457.63	1,158.48	1,105.45	53.04	21.843		
	2 800 00	11 977 00	11 755 23	10 976 00	32.04	20 63	34.82	1.014.00	455 71	1 158 46	1 104 66	53.80	21 533		
	2,000.00	11,927.00	11 955 22	10,370.00	32.04	30.25	34.82	1 114 00	455.79	1 158 44	1 103 80	54.63	21.333		
	3,000.00	11 927 00	11 955 22	10,976,00	33.43	31.01	34.82	1 213 99	454 87	1 158 41	1 102 88	55 53	20.850	-	
	3 100 00	11 927 00	12 055 22	10,976,00	34 20	31.82	34.82	1 313 99	453.94	1 158 39	1 101 90	56.49	20 504		
	3 200 00	11 927 00	12 155 22	10,375,00	35.00	32.68	34.82	1 413 98	453.02	1 158 37	1 100 85	57 52	20 139		
I .	0,200.00		12,100 21	10,010.00	00.00										
1	3,300.00	11,927.00	12,255.22	10,976.00	35.85	33.58	34.82	1,513.98	452.10	1,158.35	1,099,75	58.60	19,768		
1 1	3,400.00	11,927.00	12,355.22	10,976.00	36.74	34.51	34.81	1,613.97	451,18	1,158.33	1,098.59	59.73	19.392		
1 1	3,500.00	11,927.00	12,455.22	10,976.00	37.66	35.48	34.81	1,713.97	450.26	1,158.30	1,097.39	60.92	19.015		
1 1	3,600.00	11,927.00	12,555.22	10,976.00	38.61	36.47	34.81	1,813.97	449,34	1,158.28	1,096,13	62.15	18.638		
1	3,700.00	11,927,00	12,655.22	10,976.00	39.59	37.50	34.81	1,913.96	448.41	1,158.26	1,094.83	63.42	18.262		
1	3,800.00	11,927.00	12,755.22	10,976.00	40.60	38.56	34.81	2,013 96	447.49	1,158.24	1,093.49	64.74	17.889		
1 1	3,900.00	11,927.00	12,855.22	10,976.00	41.63	39.63	34.81	2,113.95	446.57	1,158.21	1,092.11	66,10	17.521		
1	4,000.00	11,927.00	12,955.22	10,976.00	42.69	40.74	34.80	2,213.95	445.65	1,158.19	1,090.69	67.50	17,158		
1	4,100.00	11,927.00	13,055.22	10,976.00	43.77	41.86	34.80	2,313.94	444.73	1,158.17	1,089.24	BB.93	16.802		
1.	4,200.00	11,927.00	13,155.22	10,976.00	44.87	43.00	34.80	2,413.94	443.80	1,158.15	1,087.75	70,40	16,452		
1.	4 300 00	11 927.00	13 255 22	10.976.00	45.99	44,16	34.80	2,513,94	442.88	1,158,12	1.086.23	71.89	16,109		
1	4 400 00	11 927 00	13 355 22	10 976.00	47 13	45.33	34.80	2.613.93	441.96	1,158,10	1.084.68	73.42	15.774		
1.	4,500.00	11,927.00	13,455 22	10,976.00	48.28	46.52	34.80	2,713.93	441.04	1,158.08	1,083.11	74,97	15.447		
1.	4,600,00	11,927.00	13,555 22	10,976.00	49.45	47.73	34.79	2,813,92	440,12	1,158.06	1,081.51	76.55	15.129		
1.	4,700.00	11,927.00	13,655 22	10,976.00	50.64	48.94	34.79	2,913.92	439.20	1,158.04	1,079.89	78,15	14.818		
1	4,800.00	11,927.00	13,755.22	10,976.00	51.83	50.17	34.79	3,013.91	438.27	1,158.01	1.078.24	79.77	14.516		
14	4,900.00	11,927.00	13,855 22	10,976.00	53.04	51.41	34.79	3,113.91	437.35	1,157.99	1.076.57	81.42	14.223		
1	5,000.00	11,927.00	13,955 22	10,976.00	54.26	52,66	34.79	3,213.91	436.43	1,157.97	1,074.88	63.08	13.937		
1	5,100.00	11,927.00	14,055 22	10,976.00	55.49	53.92	34.79	3,313.90	435.51	1.157.95	1.073.18	B4.77	13.660		
1	5,200.00	11,927.00	14,155 22	10,976.00	56.73	55.19	34.79	3,413.90	434.59	1,157.92	1,071.45	86.47	13.391		
	r 200 00	44 007 00		10 070 00	E7 00	EC 47	74 70	2 5 1 2 90	100 67	1 157 00	1 060 71	89.10	12 120		
	5,300.00	11,927.00	14,255.22	10,975.00	57.98	57.76	34.78	3,513,89	433.67	1,157,90	1,069.71	80.03	13,130		
	5,400.00	11,927.00	14,355.22	10,976,00	59.24	57.75	34.78	3,013.09	432.74	1,157.00	1,007.90	69.92	12.076		
	5,500.00	11,927.00	14,455.22	10,976,00	60.51	59.05	34.78	3,713.00	431.02	1,137.00	1,000.10	91.07	12.030		
1	5.500.00	11,927.00	14,000.22	10,975.00	61,70	61.65	34.70	3,013.00	430.90	1,157.05	1,063,60	93,44	12.392		
"	3,700.00	11,927.00	14,003.22	10,970.00	DJ.U0	01,03	34,70	3,913,00	423.38	1,197,61	1,002.00	90.21	12.100		
12	5.800.00	11,927.00	14,755.22	10,976.00	64.35	62.96	34.78	4,013.87	429.06	1,157.79	1,060.79	97.00	11.936		
1	5 900 00	11,927.00	14,855.22	10,976.00	65.65	64.28	34.77	4,113.87	428.14	1,157.77	1.058.97	98.80	11.718		
1	5.000.00	11.927.00	14,955,22	10.976.00	66,95	65.60	34.77	4,213,86	427,21	1.157.75	1.057.13	100 61	11,507		
11	6,100.00	11,927.00	15,055.22	10,976.00	68.26	66.93	34.77	4,313.86	426.29	1,157,72	1,055.29	102.43	11.302		
1 10	5,200.00	11,927.00	15,155.22	10,976.00	69.57	68.26	34.77	4,413.85	425.37	1,157.70	1,053.43	104.27	11.103		
<u>ו</u>								· -							
L 16	6,300.00	11,927.00	15,255.22	10.976.00	70.88	69.60	34.77	4,513.85	424.45	1,157.68	1,051,57	106.11	10.910		
				CC - Mi-	contro to co	ntor dista		roont point CE	. min	aration fact	or E9	in ellipse s	onaration		
				- Will)	centre to ce	mer uista	nce or cover	igen point, or	- min sepa	and up in raci	o, co - m	uu amhaa a	oparation		

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0.00 usft

Offset Site Error.

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Reference Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	No. 132H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	WellPianner1
Reference Design:	Prelim Plan B	Offset TVD Reference:	Offset Datum

Offset De	sign	Nina Co	ortell Fed (Com - No. '	122H - OF	I - Prelim Pl	an B						Offset Site Error:	0.00 usft
Survey Prog	ram: 0-M	WD+HDGM, 1	200-MWD+H	DGM, 5000-MM	D+HDGM								Offset Well Error:	0.00 usft
Refer	ence	Offs	et	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	-	
(usft)	(usit)	(usft)	(usit)	(usit)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usit)			
16,400.00	11,927.00	15,355.22	10,976.00	72.21	70.94	34.77	4,613.85	423.53	1,157.66	1,049.70	107.96	10.723		
16,500.00	11,927.00	15,455.22	10,976.00	73.53	72.29	34.76	4,713.84	422.61	1,157.63	1,047.82	109.82	10.541		
16,600.00	11,927.00	15,555.22	10,976.00	74.86	73.63	34.76	4,813,84	421.68	1,157.61	1,045.93	111.69	10.365		
16,675.25	11,927. 00	15,630.47	10,976.00	75.67	74.65	34.76	4,889.08	420.99	1,157.59	1,044.50	113.09	10.236		

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

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Reference Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	No. 132H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	WellPlanner1
Reference Design:	Prelim Plan B	Offset TVD Reference:	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM

Survey Prog	am: 0-M	WD+HDGM, 12	00-MWD+H	DGM, 5000-MW	/D+HDGM,	12303-MWD+H	DGM		D /				Offset Well Error:	0.00 usît
Refer	ence	Offse	N	Semi Major	Axis	bil-bald-	0 //		Dista	nce Detreme		•		
Denth	Death	Death	Depth	Reference	Unset	Toolface	UTISEL WEILDON	e Centre	Centres	Ellipses	Minimum Senaration	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	+nu~3 (usft)	rest)	(usft)	(usft)	(usft)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	0.00		0.00				1		20.00					
0.00	100.00	0.00	0.00	0.00	0.00	88.09	1.00	30.00	30.02	20.76	0.25			
100.00	100.00	100.00	100.00	0.13	0.13	88.09	1.00	30,00	30.02	29.70	0.25	117,937		
200.00	200.00	200.00	200.00	0.49	0.49	60.09	1.00	30,00	30.02	29.00	0.97	30.699		
300.00	300.00	300.00	300.00	0.84	1.00	88,09	1.00	30.00	30.02	20.33	1,69	17.778		
400.00	400.00	400.00	400.00	1.20	1.20	88.09	1.00	30.00	30.02	27.01	2.41	12.479		
500.00	500.00	500.00	500.00	1.56	1.50	00.09	1.00	30.00	30.02	20.09	3.12	9.014		
600.00	600.00	600.00	600.00	1.92	1.92	88.09	1.00	30.00	30.02	26.18	3.84	7,818		
700.00	700.00	700.00	700.00	2.28	2.28	88.09	1.00	30.00	30.02	25 46	4.56	6.588		
800.00	800.00	800.00	800.00	2.64	2.64	88.09	1.00	30.00	30.02	24.74	5.27	5.692		
900.00	900.00	900.00	900.00	3.00	3.00	88.09	1,00	30.00	30.02	24.03	5.99	5.011		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	88.09	1.00	30.00	30.02	23.31	6.71	4.475		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	88.09	1.00	30.00	30.02	22.59	7.42	4.043		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	88.09	1.00	30.00	30.02	21.88	8.14	3.687		
1,300.00	1,300.00	1,300.00	1,300.00	4.25	4.25	88.09	1.00	30.00	30.02	21.51	8.51	3.529 C	C, ES, SF	
1,400.00	1,400.00	1,399.48	1,399,48	4.28	4.28	88.49	0.81	30.84	30.86	22.29	8.57	3.603		
1,500.00	1,500.00	1,498.91	1,498.87	4.34	4.34	89,55	0.26	33.37	33.39	24.71	8.68	3.847		
					4.47	161.07	0.66	37 60	20.40	20.55	0.05			
1,600.00	1,038,98	1,398.18	1,398.04	4.43	4.43	-131.97	-0.06	37.30	30.40	29,00	6.65	4.341		
1,700.00	1,099.90	1,697.12	1,090.80	4.54	4.34	-151.90	-1.95	43,44	40.04	37.30	9.06	5.146		
1,000.00	1,799.00	1,004.40	1,794.92	4.07	4,70	-152.20	-3.39	50.91	30,08	40.74	9.34	0.219		
1,900.00	1,099.00	7,905,44	1,093.37	4.63	4.07	-152.99	-5.45	59,34 67,75	/ 1.50 87.43	77.40	9.00	7.440		
2,000,00	1,999.37	2,000.05	1,991.90	5.01	3.00	-155.90	-1.29	07.75	07.43	77.40	10.03	0.713		
2,100.00	2,098.99	2,107.99	2,090.26	5.22	5.28	-154.90	-9.14	76.15	103.68	93.25	10.44	9.933		
2,200.00	2,198.60	2,209,33	2,188.54	5.44	5.51	-155.58	-10.98	84.55	119.96	109.08	10.88	11.028		
2,300.00	2,298.22	2,289.32	2,286.83	5.68	5.71	-156.10	-12.83	92.95	136.24	124.95	11.29	12.062		
2,400.00	2,397.84	2,387.98	2,385.11	5.94	5.97	-156.51	-14.67	101.35	152.53	140.75	11.78	12,947		
2,500.00	2,497.46	2,486.64	2,483.39	6 20	6.23	-156.84	- 16.52	109.75	168.83	156.54	12.29	13.736		
2,600.00	2,597.08	2,585.30	2,581.68	6.48	6.51	-157.12	-18.36	118.14	185.14	172.31	12.82	14.439		
2,700.00	2,696.70	2,683.96	2,679.96	6.77	6.79	-157.34	-20.21	126.54	201,44	188.07	13.37	15.066		
2,800.00	2,796.32	2,782.62	2,778.24	7.07	7.09	-157.54	-22.05	134,94	217,75	203.82	13.94	15.626		
2,900.00	2,895.94	2,881.27	2,876.53	7.37	7.39	-157.70	-23.90	143.34	234.07	219.55	14.51	16,126		
3,000.00	2,995.56	2,979.93	2,974.81	7.68	7.70	-157.85	-25.74	151,74	250.38	235.27	15.11	16.575		
3 100 00	3 095 18	3 078 59	3 073 09	8.00	8.01	.157.98	.27 59	160 14	266.69	250.99	15 71	16 978		
3,700.00	3 194 80	3 177 25	3 171 38	8 32	8.33	-158.09	-29.43	168 53	283.01	266.69	16.32	17 341		
3 300 00	3 294 42	3 275 91	3 269 66	8 6 5	8 65	-158 19	-31.28	176.93	299.33	282.38	16.94	17 668		
3 400 00	3 394.04	3.374.57	3.367.94	8.98	8 98	-158.28	-33.12	185.33	315 64	298 07	17.57	17.964		
3,500.00	3,493 66	3,473,23	3,466.22	9.31	9.31	-158,36	-34,97	193,73	331.96	313.76	18,21	18.233		
	-,	-,	-										-	
3,600.00	3,593.28	3,571.88	3,564.51	9.65	9.64	-158.43	-36.81	202.13	348.28	329.43	18.85	18.477		
3,700.00	3,692.90	3,670,54	3,662.79	9.99	9.98	-158.50	-38.66	210.53	364.60	345.10	19.50	18.700		
3,800.00	3,792.52	3,769.20	3,761.07	10.34	10.32	-158.56	-40.50	218.93	380.92	360.77	20.15	18.904		
3,900.00	3,892.14	3,867.86	3,859.36	10.68	10.66	-158.62	-42.35	227.32	397.24	376.43	20.81	19.090		
4,000.00	3,991.76	3,966.52	3,957.64	11.03	11.00	-158.67	-44.19	235.72	413.56	392.09	21.47	19.262		
				_										
4,024.66	4,016.32	4,009.16	3,981.87	11,12	11.15	-158.68	-44.65	237.79	417.59	395.89	21.70	19.247		
4,100.00	4,091.42	4,065.25	4,056.00	11.38	11.35	-158.74	-46.04	244.13	429.43	407.29	22.14	19.399		
4,200.00	4,191.20	4,164.22	4,154.59	11.72	11.69	-158.73	-47.89	252.55	443.73	420.93	22.80	19.459		
4,300.00	4,291.08	4,263.40	4,253.40	12.06	12.04	-158.64	-49,74	260.99	456.43	432.96	23.47	19.444		
4,400.00	4,391.04	4,362.77	4,352.39	12.40	12.40	-158.48	-51.60	269.45	467.52	443.37	24.15	19.363		
4 600 00	4 491 02	4 469 20	4 451 57	13 73	10 7=	-158 74	-52 45	277 67	477 00	467 40	54 85	10 000		
4,500,00	4 515 69	4,402.29	4,431.33	12.73	12.13	84 22	-00.40	211.53	470.00	454 11	24.02	10.170		
4,524.00	4 501.00	4,400.00	4,41,2,22	12.01	12.04	84.46	-55.52	200.02	410.00	450.84	24.00	10.052		
4 700.00	4 601 07	4 661 57	4 650 01	13.04	13.46	RA 77	-53.53	200.41	402.54	467 51	23.47	18.901		
4,200,00	2 701 03	4 761 15	4 740 25	13.55	13.40	85.07	-50.19	301 17	501 05	475 16	20.13	19 717		
4,000.00	-,. = 1.03	4,707.13	-,/-0.23	13.00	13.02	55.67	-35.03	10.00	561.55	475.10	20.79	10.737		
4,900.00	4,891.03	4,860.77	4,848.49	13.97	14.18	85.37	-60.92	311,85	510.28	482.83	27.45	18.588		
L														
		(CC - Min (centre to ce	nter dista	ance or cove	rgent point, Sf	 min sepa 	aration fact	or, ES - m	nin ellipse s	eparation		

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0.00 usft

Offset Site Error.

Anticollision Report

Company: Matador Resources Project: Lea County, NM **Reference Site:** Nina Cortell Fed Com Site Error: 0.00 usft **Reference Well:** No. 132H 0.00 usft Well Error: **Reference Wellbore** OН Reference Design: Prelim Plan B

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

Offset De Survey Prog	sign ram: 0-M	Nina Ci wo+нодм, 1	ortell Fed (200-MWD+H	Сот No. 2 DGM, 5000-,мм	202H - OI /D+HDGM,	Ч - Prelim Pl 12303-мwD+нi	lan B ром						Offset Site Error: Offset Well Error:	ยม 00.0 2น 00.0
Refer	ence	Offs	et	Semi Major	Axis			*	Olsta	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,991.03	4,960.39	4,947.73	14.13	14.44	85.65	-62.78	320.33	518.63	490.78	27.85	18.623		
5,100.00	5,091.03	5,060.01	5,046.97	14,14	14.54	85.92	-64.64	328.81	526.98	499.05	27.94	18.864		
5,200.00	5,191.03	5,159.63	5,146.21	14.16	14.58	86.18	-66.50	337.29	535.35	507.38	27.97	19,139		
5,300.00	5,291.03	5,259.25	5,245.45	14.19	14.63	86.44	-68.37	345.77	543.72	515.70	28.03	19.401		
5,400.00	5,391.03	5,358.87	5,344.69	14.22	14.69	86.69	-70.23	354.25	552.11	524.01	28.10	19.649		
5,500.00	5,491.03	5,458.49	5,443.93	14.27	14.76	86.93	-72.09	362.73	560.51	532.32	28.19	19.884		
5,600,00	5,591,03	5,558,11	5,543,17	14.32	14.84	87,16	-73.96	371.21	568,92	540.62	. 28.30	20,104		
5,700.00	5,691.03	5,657.72	5,642,41	14.38	14.93	87.39	-75.82	379.69	577.33	548.91	28.43	20.311		
5,800.00	5,791.03	5,757.34	5,741.65	14.45	15.02	87.61	-77.68	388.17	585.76	557,19	28.57	20.503		
5,900.00	5,891.03	5,856.96	5,840.89	14.53	15.13	87.83	-79.55	396.65	594.19	565.46	28,73	20.681		
6,000.00	5,991.03	5,956.58	5,940.13	14.62	15.24	88.03	-81.41	405.13	602.63	573.72	28.91	20.845		
6 100 00	6 001 03	6 056 20	6 030 37	14 72	15 37	89.24	_93 27	413.61	611.09	591 08	20.11	20.005		
6 200 00	6 191 03	6 155 82	6 138 61	14.82	15.50	88.43	-85.13	472.09	619.54	590.22	29.11	20.555		
6 300 00	6 291 03	6 255 44	6 237 85	14.94	15.64	88 63	-87.00	430 57	628.00	598.46	29.52	21.152		
6,400.00	6,391.03	6,355.06	6,337.09	15.06	15.7B	88.81	-88,86	439.05	636.47	605.68	29,79	21.366		
6,500.00	6,491.03	6,457.32	6,438.96	15.18	15.94	89.00	-90,76	447.70	644.91	614.85	30.06	21.456		
6.600.00	6,591.03	6,569.40	6,550.74	15.32	16.12	89.17	-92.52	455.72	652.03	621.66	30.37	21.469		
6,700.00	6,691.03	6,681.75	6,662.94	15.46	16.29	89.29	-93.82	451.61	657.26	626.57	30.69	21.415		
6,800.00	6,791.03	6,794,31	6.//5.42	15.01	10.4/	89.30	-94.64	460.30	661.09	629.50	31.02	21.294		
7,000,00	6,091.03	7 009 93	6 991 03	15.03	16.79	89.39	-94.99	467.00	662.04	630.36	31.50	21.111		
7.000.00	0,001.00	1,000.00	0,001.00	10.50	10,70	05.05	-35.00		002.04	000.00	01.00	20.000		
7,100.00	7,091.03	7,109,93	7,091,03	16.09	16.94	89.39	-95.00	467.00	662.04	630.03	32.01	20.683		
7,200.00	7,191.03	7,209.93	7,191.03	16.27	17,10	89.39	-95.00	467.00	662.04	629.69	32.35	20.465		
7,300.00	7,291.03	7,309.93	7,291,03	16.45	17.26	89.39	-95.00	467.00	662,04	629.33	32.70	20.243		
7,400.00	7,391.03	7,409.93	7,391.03	16.64	17.43	89.39	-95.00	467.00	662.04	628.97	33.07	20.020		
7,500.00	7,491.03	7,509.93	7,491.03	16.83	17.61	89.39	-95.00	467.00	662.04	628.59	33.45	19.794		
7.600.00	7.591.03	7.609.93	7.591.03	17.03	17,79	69.39	-95.00	467.00	662.04	628.20	33.83	19.567		
7,700.00	7,691,03	7,709,93	7,691,03	17.23	17.98	89.39	-95,00	467,00	662.04	627,81	34,23	19,340		
7,800.00	7,791.03	7,809.93	7,791.03	17,44	18.17	89.39	-95.00	467.00	662.04	627.40	34,64	19.112		
7,900.00	7,891.03	7,909.93	7,891.03	17.65	18.36	89.39	-95.00	467.00	662.04	626.98	35.06	18.884		
8,000.00	7,991.03	8,009.93	7,991.03	17.87	18.57	89.39	-95.00	467.00	662.04	626.55	35.49	18.656		
R 100 00	8 001 00	P 100 02	0.001.02	18.00	10 77	80.20	05.00	467.00	662.04	676 11	25.02	10 100		
8,100.00	8 101 03	6, 109.93 8 200 03	B 101 03	18.09	18.77	80.30	-95,00	467.00	662.04	625.67	35.92	19 202		
8 300 00	8 291 03	8 309 93	8 291 03	18 54	19.20	89.39	-95.00	467.00	662.04	625.07	36.83	17 978		
8,400.00	8.391.03	8,409,93	8.391.03	18,78	19.42	89.39	-95.00	467.00	662.04	624.75	37 29	17.755		
B,500.00	8,491.03	8,509.93	8,491.03	19.02	19.64	89.39	-95.00	467.00	662.04	624,28	37,76	17.533		
													•	
8,600.00	8,591.03	8,609.93	8,591.03	19.26	19.87	89.39	-95.00	467.00	662.04	623.80	38.24	17.314		
6,700.00	8,691.03	8,709.93	8,691.03	19.50	20.10	89,39	-95.00	467.00	662.04	623.31	38.72	17.097		•
8,800.00	8,791.03	8,809.93	8,791.03	19.75	20.33	89.39	-95.00	467.00	662.04	622.82	39.22	10.882		
0,000,00	8 001 03	0,909.93	8 001 03	20.00	20.57	69,39 80,30	-95,00	467.00	662.04	621.32	39.72	16.009		
5,000,00	0,551,05	3,005,55	0,991.03	20.20	20.01	05.35	-55,60	407.00	002.04	021.01	40.22	10,405		
9,100.00	9,091.03	9,109.93	9,091.03	20.52	21.06	89.39	-95.00	467.00	662.04	621.30	40.73	16.252		
9,200.00	9,191.03	9,209.93	9,191.03	20.78	21,31	89.39	-95.00	467.00	. 662.04	620.78	41,25	16.048		
9,300.00	9,291.03	9,309.93	9,291.03	21.04	21.56	89.39	-95.00	467.00	662.04	620.26	41.78	15.846		
9,400.00	9,391.03	9,409.93	9,391.03	21.31	21.81	89.39	-95.00	467.00	662.04	619.73	42.31	15.648		
9,500.00	9,491.03	9,509,93	9,491.03	21.58	22.07	89.39	-95.00	467.00	662.04	619.19	42.84	15.452		
9 600 00	9 591 03	9 609 93	9 591 03	21 A5	22.33	89.39	-95.00	467 00	662.04	618 65	43.30	15 260		
9 700 00	9 691 03	9 709 93	9 691 03	21.00	22.53	89.39	-95.00	467.00	662.04	618 11	43.03	15 070		
9,800.00	9,791.03	9,809,93	9,791.03	22.40	22.86	89.39	-95 00	467.00	662.04	617 56	44 48	14 883		
9,900.00	9,891.03	9,909.93	9,891.03	22.68	23.13	89.39	-95.00	467.00	662.04	617.00	45.04	14.700		
10,000.00	9,991,03	10,009,93	9,991.03	22.96	23.40	89.39	•95.00	467.00	662.04	616.44	45.60	14,519		
10 100 00	10.091.03	10,109,93	10.091.03	23.25	23.67	89.39	-95.00	467,00	662.04	615,88	46,16	14,342		

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

8/11/2017 9:38:30AM

COMPASS 5000.14 Build 85

Anticollision Report

Company:	Matador Resources
Project:	Lea County, NM
Reference Site:	Nina Cortell Fed Co
Site Error:	0.00 usft
Reference Well:	No. 132H
Well Error:	0.00 usft
Reference Wellbore	ОН
Reference Design:	Prelim Plan B

Local Co-ordinate Reference: **TVD Reference:** MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

Offset Site Error:

Offset Weil Error:

0.00 usft

0.00 usft

Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B Offset Design Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM

Com

Refere	ence	Offs	et	Semi Major	Axis				Dista	nce			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbon	e Centre	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+EL-W	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	e	(11517)	(usft)	(usft)	(usft)	(usft)		
	1	(/			,,		(0311)	(03/1)					
10,200.00	10,191.03	10,209.93	10,191.03	23.53	23.94	89.39	-95.00	467.00	662.04	615.31	46.73	14.167	
10,300,00	10 291 03	10.309.93	10.291.03	23.82	24.22	89.39	-95.00	467.00	662.04	614.73	47.30	13,996	
10 400 00	10 301 03	10 400 03	10 201 03	24.11	24.50	80 30	.95 00	467.00	662.04	614 16	47.88	13 927	
10,400.00	10,391,03	10,409.93	10,351.03	24.11	24.50	05.55	+55.00	407.00	002.04	014,10	47.00	10.027	
10,500.00	10,491.03	10,509.93	10,491.03	24.40	24.78	89.39	-95.00	467.00	662.04	613.58	48,46	13.662	
10,600.00	10,591.03	10,609.93	10,591.03	24.70	25.06	89.39	-95.00	467.00	662.04	612.99	49.04	13,499	
10,700.00	10,691.03	10,709.93	10,691.03	24.99	25.35	89.39	-95.00	467.00	662.04	612.41	49.63	13.339	
10 800 00	10 791 03	10 809 93	10 791 03	25 29	25.64	89.39	-95.00	467.00	662.04	611.82	50.22	13,182	
10,000,00	10 891 03	10,000,00	10 801 03	25.58	25.02	80.30	-95.00	467.00	662.04	611 72	50.81	13.028	
10,900,00	10,091.03	10,909,93	10,091.03	23.36	23.82	09.39	-95.00	407.00	002.04	011.22	50.01	13.020	
11,000.00	10,991.03	11,009,93	10,991.03	25.88	26.22	89,39	-95.00	467.00	662.04	610.62	51.41	12.877	
11,100.00	11,091.03	11,109.93	11,091.03	26.19	26.51	89.39	-95.00	467.00	662.04	610.02	52.01	12.729	
11,200.00	11,191.03	11,209.93	11,191.03	26.49	26.80	89,39	-95.00	467.00	662.04	609.42	52.62	12.583	
11,300.00	11,291.03	11,309.93	11,291,03	26.79	27.10	89.39	-95.00	467.00	662.04	608.82	53,22	12.439	
11 363 01	11 354 04	11 372 94	11 354 04	26.98	27.28	89 39	-95 00	467.00	662 04	608 43	53.60	12,350	
11,000,01	11,000,000	11,072.04	44,200,42	22.00	27.20	00.00	05.00	467.00	662.04	608.31	52.00	12 200	
11,399.43	11,390.43	11,409.33	11,390.43	27.09	27.38	90.00	-93.00	467.00	062.04	000.21	33.62	12.300	
11,400.00	11,391.00	11,409.90	11,391.00	27.10	27,39	90.00	-95.00	467.00	662.04	608.21	53.83	12.299	
11,450.00	11,440.69	11,459.59	11,440.69	27.25	27.54	90.46	-95.00	467.00	662.06	607.93	54.13	12.232	
11,500.00	11,489.73	11,508.95	11,490.05	27.39	27,69	91.27	-94.87	467.00	662.21	607.79	54.42	12,169	
11.550.00	11.537.73	11.559.60	11.540.58	27.53	27.84	92,18	-91.56	466,97	662.54	607.83	54,70	12.111	
11 600 00	11 584 33	11 6 11 29	11 591 63	27.66	27 99	93.08	-83.60	466 89	663.04	608.05	54 99	12 058	
11,000.00	11,004.00	11,011.25	11,031.00	27.00	27,00	00.00	-00.00	400.00	665.64	000.00	54.55	12.000	
11,650,00	11,629,18	11,664.04	11,642.78	27.79	28.13	93.97	-70,76	400.78	663.69	608.43	55.26	12.010	
11,700.00	11,671.93	11,717.92	11.693.57	27.91	28.28	94.84	-52.86	466.61	664.49	608.95	55.53	11.966	
11,750.00	11,712.27	11,772.94	11,743.47	28.02	28.41	95.68	-29.74	466 40	665.40	609.60	55.79	11.926	
11,800.00	11,749.88	11,829.12	11,791.90	28,13	28.54	96.48	-1,30	466.13	666.40	610.34	56.05	11.889	
11 850 00	11 784 47	11 886 47	11,838,21	28 24	28.67	97.24	32.47	465 82	667.45	611.14	56.31	11.854	
11 000 00	11 915 90	11 044 95	11 891 77	28.36	28 79	07 03	71.50	465 46	668 52	611.96	56 56	11 820	
11,900.00	11,013.00	11,944.95	11,001.73	20.30	20.70	57.53	71.50	403.40	20.000	071.50	50.50	11.020	
11,950.00	11,843.60	12,004.53	11,921.74	28.48	28.89	98.57	115.61	465.05	669.55	612.75	56.82	11.785	
12,000.00	11,867.69	12,065.13	11,957.51	28.61	28.99	99.13	164.49	464.60	670.54	613.47	57.08	11.748	
12,050.00	11,887.85	12,126.65	11,988.34	28.75	29.11	99.62	217.69	464.11	671.42	614.08	57.35	11.708	
12,100.00	11,903.96	12,188.97	12,013.58	28.89	29.24	100.01	274.64	463.58	672.17	614.54	57.63	11.664	
12 150 00	11 915 89	12 251 94	12 032 64	29.04	29.40	100.31	334 62	463 03	672 74	614.81	57 93	11.613	
12,100,00	11,022,54	10 211 20	12,002.00	20.10	22.12	100.61	207.01	462.40	672.16	614.03	69.22	11 56 1	
12,200.00	11,923.54	12,311.39	12,044.09	29.19	32,13	100.51	392.01	462.49	073.10	014.93	50.25	11.301	
		10 207 15	12 052 24	20.25	24.82	100.94	447.80	461.09	672.07	616 40	60 A0	11 676	
12,250.00	11,920.00	12.307.15	12,053.51	29.33	34.65	100.84	447.05	401.90	6/3.9/	013.49	36.40	11.525	
12,263.01	11,927.00	12,382.09	12,055.08	29.39	34.84	100.95	462.72	461.84	674.23	615.69	58.54	11.517	
12,300.00	11,927.00	12,424.76	12,058.88	29.52	34.87	101.27	505.22	461.45	674.85	616.11	58,74	11.489	
12,400.00	11,927.00	12,533 61	12,061.00	29,90	34.95	101.45	614.02	460.44	675.17	615.75	59.42	11.363	
12 500 00	11 927.00	12 633 61	12.061.00	30.35	35.03	101.45	714.02	459.52	675.13	614.91	60.22	11.211	
											,		
12 600 00	11.927.00	12 733 61	12 061 00	30.85	35 13	101.45	814.02	458.60	675.09	613.94	61 15	11 040	
+2,000.00	11 007 00	10 000 61	12 061 00	21.42	25.00	101.45	014.01	AE7 69	676.05	610 ac	en 10	10.055	
12,700,00	11,927.00	12,033.01	12,001.00	31.42	35.23	101.45	914,01	437.00	0/0.05	012.00	02.19	10.005	
12,800.00	11,927.00	12,933.61	12,061.00	32.04	35.36	101.45	1,014.01	456.75	675.01	611.67	63.34	10.655	
12,900.00	11,927.00	13,033.61	12,061.00	32.71	35.51	101.45	1,114.00	455.83	674.97	610.37	64.60	10.448	
13.000.00	11.927.00	13,133.61	12.061.00	33,43	35,70	101.45	1,214.00	454.91	674.93	608.97	65.96	10.232	
			•										
13 100 00	11 027 00	13 233 61	12 061 00	34.20	35.96	101.45	1 313 99	453.98	674 89	607.48	67.41	10.012	
13,100.00	11,527.00	13,233 01	12,001.00	54.20	00.00	101.45	1,010.00	450.50	074.00	007.40	01.41	0.012	
13,200.00	11,927.00	13,333.61	12,061.00	35.00	30,30	101.45	1,413.99	453.06	6/4.85	002,91	68.95	9.788	
13,300.00	11,927.00	13,433.61	12,061.00	35.85	36.75	101.45	1,513.99	452.14	674.B1	604.25	70.56	9.563	
13,400.00	11,927.00	13,533 61	12,061.00	36.74	37.32	101.45	1,613.98	451.22	674.78	602.52	72.26	9.338	
13 500 00	11 927 00	13 633 61	12 061 00	37.66	38.00	101.46	1,713.98	450.29	674 74	600.71	74 02	9 115	
10,000.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.2,0000	000			.,				,02	0	
13 600 00	11 037 00	13 733 64	12 061 00	19 64	38 77	101.46	1 912 07	440 37	674 70	509 94	76.05	0 005	
13,000.00	11,927.00	13,73301	(2,001,00	30.01	30.77	101.40	1,013.9/	445,37	074.70	J90.04	75.65	0.093	
13,700.00	11,927.00	13,833.61	12,061.00	39.59	39,61	101.46	1,913.97	448.45	6/4.66	596.91	//.74	8.678	
13,800.00	11,927.00	13,933 61	12,061.00	40.60	40.51	101.46	2,013.96	447.52	674.62	594.93	79.69	8.465	
13,900.00	11,927.00	14,033.61	12,061.00	41.63	41.46	101.46	2,113.96	446.60	674.58	592.88	81,69	8.257	
14,000.00	11.927.00	14,133.61	12.061.00	42.69	42.44	101.46	2,213.96	445.68	674.54	590.80	83 74	8 055	
		.,		2.20			-,						
14 100 00	11 927 00	14 233 61	12 061 00	47 77	43.46	101 46	2 313 95	444 7F	674 50	588 66	85.84	7 850	
L	11,327.00	.4,200.01	12,001.00	-0.17	-5.40		2,010,00	10		500.00	05.04	010.1	

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

8/11/2017 9:38:30AM

Anticollision Report

.

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 132H
Project:	Lea County, NM	TVD Reference:	Well @ 3837.00usft
Reference Site:	Nina Cortell Fed Com	MD Reference:	Well @ 3837.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	No. 132H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	WellPlanner1
Reference Design:	Prelim Plan B	Offset TVD Reference:	Offset Datum

Offset Design Nina Cortell Fed Com - No. 202H - OH - Prelim Plan B Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 5000-MWD+HDGM, 12303-MWD+HDGM

Survey Progr	am: 0-1	WWD+HDGM, 12	200-MWD+Hi	DGM, 5000-MW	D+HDGM,	12303-MWD+HD	0GM						Offset Well Error:	0.00 usft
Refere	ince	Offse	et	Semi Major	Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth {usft}	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbon +N/-S (usit)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usit)	Minimum Separation (usft)	Separation Factor	Warning	
14,200.00	11,927.00	14,333.61	12,061.00	44.87	44.50	101,46	2,413.95	443,83	674.46	586.48	87.97	7.667		
14,300.00	11,927.00	14,433.61	12,061.00	45.99	45.57	101.46	2,513.94	442.91	674.42	584.27	90.15	7,481		
14,400.00	11,927.00	14,533.61	12,061.00	47.13	46.66	101,46	2,613.94	441.99	674.38	582.02	92.36	7.301		
14,500.00	11,927.00	14,633.61	12,061.00	48.28	47.78	101.46	2,713.93	441.06	674.34	579.73	94,61	7.128		
14,600.00	11,927.00	14,733.61	12,061.00	49.45	48.91	101.46	2,813.93	440.14	674.30	577.41	96.89	6,960		
14,700.00	11,927.00	14,833 61	12,061.00	50.64	50.06	101.46	2,913.93	439.22	674.26	575.07	99.20	6.797		
14,800.00	11,927.00	14,933.61	12,061.00	51.83	51,22	101.46	3,013.92	438.30	674.22	572.69	101.53	6.641		
14,900.00	11,927.00	15,033 61	12,061.00	53.04	52.40	101.46	3,113.92	437.37	674.18	570.29	103,89	6.489		
15,000.00	11,927.00	15,133.61	12,061.00	54.26	53.59	101.47	3,213.91	436.45	674.14	567.87	106.27	6.344		
15,100.00	11,927.00	15,233.61	12,061.00	55.49	54.80	101.47	3,313.91	435.53	674.10	565.43	108.68	6.203		
15,200.00	11,927.00	15,333.61	12,061.00	56.73	56.02	101.47	3,413.90	434.60	674.07	562.96	111, 11	6.067		
15,300.00	11,927.00	15,433.61	12,061.00	57.98	57.25	101.47	3,513.90	433.68	674.03	560.47	113.55	5,936		
15,400.00	11,927.00	15,533.61	12,061.00	59.24	58.48	101.47	3,613,90	432.76	673.99	557.97	116.02	5.809		
15,500.00	11,927.00	15,633.61	12,061.00	60.51	59,73	101.47	3,713.89	431.64	673,95	555,45	118.50	5.687		
15,600.00	11,927.00	15,733.61	12,061.00	61.78	60.99	101.47	3,813.89	430.91	673.91	552.91	120.99	5.570		
15,700.00	11,927.00	15,833 61	12,061.00	63.06	62.25	101.47	3,913.88	429.99	673.87	550.36	123.51	5.456		
15,800.00	11,927.00	15,933.61	12,061.00	64.35	63.53	101.47	4,013.88	429.07	673.83	547.80	126.03	5.346		
15,900.00	11,927.00	16,033.61	12,061.00	65.65	64.81	101.47	4,113.87	428.14	673.79	545.22	128.57	5.241		
16,000.00	11,927.00	16,133.61	12,061.00	66.95	66.09	101.47	4,213.87	427.22	673,75	542.62	131.13	5.138		
16,100.00	11,927.00	16,233.61	12,061,00	68.26	67,39	101.47	4,313.87	426.30	673,71	540.02	133.69	5.039		
16,200.00	11,927.00	16,333.61	12,061.00	69,57	68.6 9	101.47	4,413.86	425.38	673,67	537.41	136.26	4.944		
16,300.00	11,927.00	16,433.61	12,061.00	70.8B	69.99	101,47	4,513.86	424.45	673.63	534.78	138.65	4.851		
16,400.00	11,927.00	16,533.61	12,061.00	72.21	71.30	101.47	4,613.85	423.53	673.59	532.15	141.45	4.762		
16,500.00	11,927.00	16,633.61	12,061.00	73.53	72.62	101.48	4,713,85	422.61	673.55	529.50	144.05	4.676		
16,600.00	11,927.00	16,733.61	12,061,00	74.86	73,94	101.48	4,813.84	421.68	673.51	526.85	146.67	4.592		
16,675.25	11,927.00	16,808.86	12,061.00	75.87	74.93	101.48	4,889.09	420.99	673.48	524.85	148.64	4.531		i

Offset Site Error:

0.00 usft

Anticollision Report



Nina Cortell Fed Com

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

Reference Depths are relative to Well @ 3837.00usft Offset Depths are relative to Offset Datum Central Meridian is 104.333334°W

Coordinates are relative to: No. 132H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.36°



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

Anticollision Report



Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well No. 132H Well @ 3837.00usft Well @ 3837.00usft Grid Minimum Curvature 2.00 sigma WellPlanner1 Offset Datum

Reference Depths are relative to Well @ 3837.00usft Offset Depths are relative to Offset Datum Central Meridian is 104.333334°W Coordinates are relative to: No. 132H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.36°



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

8/11/2017 9:38:30AM

Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary	000′	000'	water
Dewey Lake sandstone	350′	361'	water
Rustler anhydrite	931′	931'	N/A
Top salt	1309'	1309′	N/A
Castile anhydrite	3483'	3589′	N/A
Base salt	4861'	4870'	N/A
Bell Canyon sandstone	4911'	4920′	hydrocarbons
Cherry Canyon sandstone	5915'	5924'	hydrocarbons
Brushy Canyon sandstone	6879'	6888′	hydrocarbons
Bone Spring limestone	8868'	8877′	hydrocarbons
1 st Bone Spring carbonate	9573'	9582′	hydrocarbons
1 st Bone Spring sandstone	9895'	9904'	hydrocarbons
2 nd Bone Spring carbonate	10194'	10203'	hydrocarbons
2nd Bone Spring sandstone	10487′	10496'	hydrocarbons
3 rd Bone Spring carbonate	11020′	11029′	hydrocarbon
(КОР	11391′	11400′	hydrocarbons)
3 rd Bone Spring sandstone	11555′	11568'	hydrocarbon & goal
TD	11927′	16675′	hydrocarbons

2. NOTABLE ZONES

Third Bone Spring sand is the goal. Hole will extend north of the last perforation point to allow for pump installation. All perforations will be \geq 330' from the dedication perimeter. Closest water well (C 03717) is 5254' west. Water bearing strata were found at 620'-630' in this 650' deep well.



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

3. PRESSURE CONTROL

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

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

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

A third party company will test the BOPs.

Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing and to 250 psi low and 2500 psi high on the intermediate casing.

In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high and the annular will be tested to 250 psi low and 2500 psi high. Wellhead seals will be tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

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



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0′ - 1200'	0′ - 1200'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0′ - 5000'	0′ - 4991'	Inter. 9.625"	40	J-55	втс	1.125	1.125	1.8
8.75"	0′ - 16675'	0′ – 11927′	Product. 5.5"	20	P-110	BTC/TXP	1.125	1.125	1.8

Casing Name Typ		Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Lead	250	1.82	455	12.8	Class C + bentonite + 2% CaCl ₂ +	
						3% NaCl + LCM	
	Tail	889	1.38	1226	14.8	Class C + 5% NaCl + LCM	
TOC = GL		1	00% Exces	55	Cer	ntralizers per Onshore Order 2	
Intermediate	Lond	1044	2 1 2	1112	126	Class C + Bentonite + 1% CaCl ₂ +	
interneulate	Leau	1044	2.15	2225	12.0	8% NaCl + LCM	
	Tail	554	1.38	764	14.8	Class C + 5% NaCl + LCM	
TOC = GL		100% Excess			2 on btn	n jt, 1 on 2nd jt, 1 every 4th jt to GL	
Production	Lead	965	2.35	2267	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
Ta		1668	1.39	2318	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 4000'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt t top of tail cement (500' above TOC)		



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

5. MUD PROGRAM

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

Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1200'	8.3	28	NC
brine water	1200' - 5000'	10.0	30-32	NC
fresh water & cut brine	5000' - 16675'	9.0	30-32	NC

6. <u>CORES, TESTS, & LOGS</u>

No core or drill stem test is planned.

A 2-person mud logging program will be used from \approx 5000' to TD.

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 6500 psi. Expected bottom hole temperature is $\approx 165^{\circ}$ F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H_2S safety package on all wells, an " H_2S Drilling Operations Plan" is attached.



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

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





For the latest performance data, always visit our website: <u>www.tenaris.com</u>

July 15 2015



Connection: TenarisXP[™] BTC **Casing/Tubing**: CAS **Coupling Option**: REGULAR

Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft Grade: P110-IC Min. Wall Thickness: 87.5 %

		PIPE BODY	DATA		
		GEOMET	RY		
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft	Standard Drift Diameter	4.653 in.
Nominal ID	4.778 in.	Wall Thickness	0.361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi
Collapse	12100 psi				
	TE		NNECTION D		
		CEONE		ATA	
		GEOME			
Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 Ibs	Structural Bending ⁽²⁾	92 °/100 ft
External Pressure Capacity	12100 psi				
	E	STIMATED MAKE-	UP TORQUES	3)	
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-lbs
		OPERATIONAL LI	MIT TORQUES	;	
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		

http://premiumconnectiondata.tenaris.com/tsh_print.php?hWall=0.361&hSize=5.500&hGr... 7/15/2015

DS-TenarisHydril TenarisXP BTC-5.500-20.000-P110-IC

BLANKING DIMENSIONS

Blanking Dimensions

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at <u>licensees@oilfield.tenaris.com</u>. Torque values may be further reviewed. For additional information, please contact us at <u>contact-tenarishydril@tenaris.com</u>

FMSS

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

APD ID: 10400025166

Operator Name: MATADOR PRODUCTION COMPANY **Well Name:** NINA CORTELL FED COM

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

NC_132H_Road_Map_20171201131104.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Max slope (%): 0

NC_132H_New_Road_Map_20171201131128.pdf

New road type: RESOURCE

Length: 83.13

Width (ft.): 30 Max grade (%): 5

Army Corp of Engineers (ACOE) permit required? NO

Feet

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Submission Date: 12/01/2017

Well Number: 132H

Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

02/20/2018

SUPO Data Report

Row(s) Exist? NO

Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Surface Use Plan

1. <u>ROAD DIRECTIONS & DESCRIPTIONS</u> (See MAPS 1 – 5)

From the junction of US 285 and US 62/180 in Carlsbad... Go E 29.75 miles on US 62/180 to the equivalent of Mile Post 66.6 Then turn right and go South 9.0 miles on paved Lea County Road 29 (It transitions into Eddy County Road 798) Then turn left at a very large oil tank and go E 2/3 mile on a caliche road Then turn left and go N 0.5 mile on a caliche road Then turn right and go East 1.4 mile on a caliche road Then turn right and go South 0.6 mile on a caliche road Then turn left and go South 0.6 mile on a caliche road Then turn left and go South 0.9 mile on a caliche road Then turn right and go South 0.9 mile on a caliche road Then turn left and go Northeast 1.2 mile on a caliche road Then turn right and go SE 0.4 mile on caliche road to the SW corner of a pad Then turn right and go West 83.13' cross-country to the NE pad corner

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

2. <u>ROAD TO BE BUILT OR UPGRADED</u> (See MAPS 4 & 5)

The 83.13' of new resource road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 5%. Maximum cut or fill = 3'. No culvert, cattle guard, or vehicle turn out is needed.

Upgrading will consist of draining and/or patching ten potholes with caliche. The potholes are located (from east to west and in NAD 83) at: 32.41494°, -103.67654°



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

32.41504°, -103.67879° 32.41512°, -103.68060° 32.41702°, -103.68328° 32.41873°, -103.68333° 32.42312°, -103.68326° 32.42402°, -103.68326° 32.42804°, -103.68354° 32.43641°, -103.68974° 32.43644°, -103.69497°

3. EXISTING WELLS (See MAP 3)

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

4. PROPOSED PRODUCTION FACILITIES

No pipeline or power line plans have been finalized at this time. Production equipment will be located on the south side of the pad.

5. <u>WATER SUPPLY</u> (See MAP 6)

Water will be trucked from existing water stations on private land. Berry's water station (CP 00802) is in NWNE 2-21s-33e.

6. <u>CONSTRUCTION MATERIALS & METHODS</u> (See MAPS 7 & 8)

NM One Call (811) will be notified before construction starts. Top \approx 6" of soil and brush will be stockpiled west of the pad. V-door will face south. Closed loop



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Mills) land in E2NE4 3-22s-32e.

7. WASTE DISPOSAL

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT (See MAP 7)

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

10. RECLAMATION (See MAPS 9-11)

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad $\approx 25\%$ (0.91 acre) by removing caliche and reclaiming a 120' x 330' area in the northwest part of the pad. This will leave 2.74 acres for the production equipment (e. g., tank battery, heater-treaters, separators, flare/CBU), pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed



PROVIDING PERMITS for LAND USERS

Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

on the contour. Disturbed areas will be seeded in accordance with the State Land Office's requirements.

Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the last well is plugged, then the rest of the pad and 83.13' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Land use:

 $83.13' \times 30' \text{ road} = 0.06 \text{ acre}$ $+ 370' \times 430' \text{ pad} = 3.65 \text{ acres}$ 3.71 acres short term - 0.91 acre interim reclamation 2.80 acres long term (0.06 ac. road + 2.74 ac. pad)

11. SURFACE OWNER

All construction will be on NM State Land Office land. Their address is PO Box 1148, Santa Fe, NM 87504. Phone is 505 827-5760.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf (BLM) on June 2, 2017. Lone Mountain will inspect and file an archaeology report.



Matador Production Company Nina Cortell Fed Com 132H SHL 150' FSL & 1847' FWL BHL 240' FNL & 1650' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 20th day of November, 2017.

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

Cellular: (505) 699-2276

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



PROVIDING PERMITS for LAND USERS



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

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):