PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Matador Prod Co

LEASE NO.: | NM135247

WELL NAME & NO.: 121H-Nina Cortell Fed Com

SURFACE HOLE FOOTAGE: 150'/S & 585'/W BOTTOM HOLE FOOTAGE 240'/N & 990'/W

LOCATION: Section 3, T. 22 S., R. 32 E. COUNTY: Lea County, New Mexico

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

A. Hydrogen Sulfide

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

B. CASING

- 1. The 13 3/8 inch surface casing shall be set at approximately 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 **24 hours in the Potash Area** 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

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement

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

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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.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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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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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Matador Prod Co
NM135247
121H-Nina Cortell Fed
150'/S & 585'/W
240'/N & 990'/W
LOCATION:
COUNTY: Lea County, New Mexico

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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.

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.

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.

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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

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

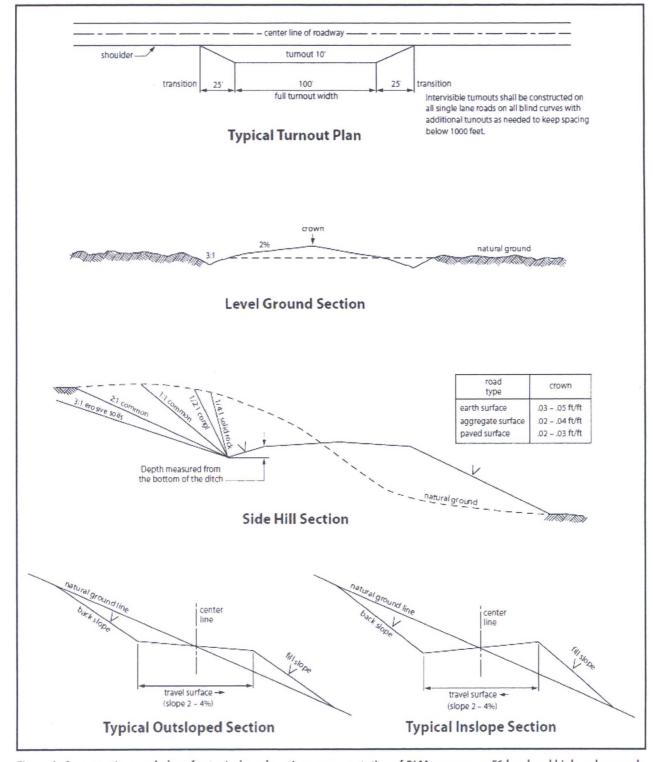


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Containment Structures

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

Painting Requirement

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

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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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	1 <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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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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• 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 ½ 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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VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

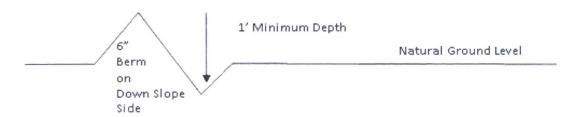
F. EXCLOSURE FENCING (CELLARS & PITS)

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

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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.

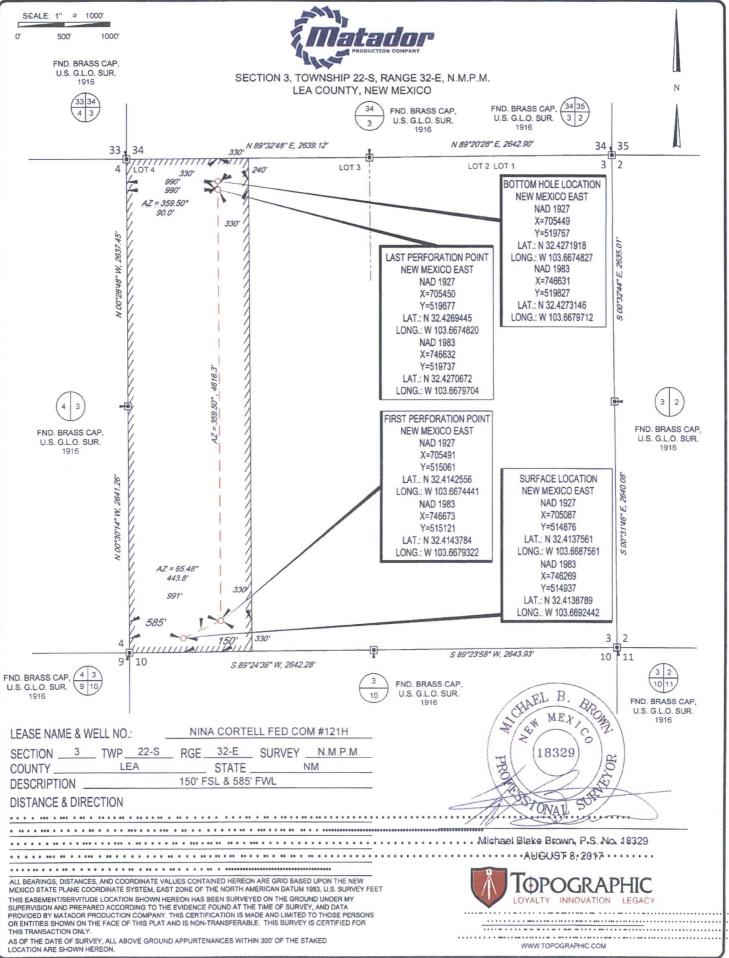
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Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the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





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.

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 (Lovingto	n)	575-391-2983	
New Mexico Oil Conservation Divisi	on (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 (Commission (Santa Fe)	505-476-9600	
New Mexico Emergency Response (Commission (Santa Fe) 24 hrs	505-827-9126	
New Mexico State Emergency Oper	ations Center	505-476-9635	
National			
National Emergency Response Cent	er (Washington, D.C.)	800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbo	ck, TX	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd		505-842-4433	
SB Air Med Service- 2505 Clark Carr	Loop SE; Albuquerque, NM	505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	
NM Dept. of Transportation (Roswe	II)	575-637-7200	

Survey Report

Company:

Matador Resources

Project:

Lea County, NM

Site:

Nina Cortell Fed Com

Well: Wellbore: No. 121H

Design:

OH

Prelim Plan B

Local Co-ordinate Reference:

Survey Calculation Method:

Well No. 121H Well @ 3836.00usft

TVD Reference: MD Reference:

North Reference:

Well @ 3836.00usft Grid

Minimum Curvature

Database:

WellPlanner1

Project

Lea County, NM

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site

Nina Cortell Fed Com

Site Position:

Мар

Northing:

514,876.00 usft

Latitude:

32.413755°N

From:

0.00 usft

Easting:

705,087.00 usft

Longitude:

103.668756°W

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

0.36 °

No. 121H

Well Position

+N/-S +E/-W 0.00 usft 0.00 usft Northing:

514.876.00 usft 705,087.00 usft

Latitude:

Longitude:

32.413755°N

Position Uncertainty

0.00 usft

Easting:

Wellhead Elevation:

usft

Ground Level:

103.668756°W 3,807.00 usft

Wellbore

ОН

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle

Field Strength

(nT)

359.50

HDGM

7/31/2017

0.00

6.95

60.30

48,279.90

Design

Prelim Plan B

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

0.00

Vertical Section:

Depth From (TVD)

(usft)

+N/-S (usft)

0.00

+E/-W (usft)

Direction

(°)

Survey Tool Program

Date 8/11/2017

From (usft)

To (usft)

Survey (Wellbore)

Tool Name

Description

0.00 1,200.00 5.000.00

1,200.00 Prelim Plan B (OH) 5,000.00 Prelim Plan B (OH) 15,653.32 Prelim Plan B (OH) MWD+HDGM MWD+HDGM MWD+HDGM

OWSG MWD + HRGM OWSG MWD + HRGM OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0 00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00

Survey Report

Company:

Matador Resources

Project:

Lea County, NM

Site: Well: Nina Cortell Fed Com No. 121H

Wellbore:

ОН

Design:

Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 121H

Well @ 3836.00usft Well @ 3836.00usft

Grid

Minimum Curvature

WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	5.00	89.29	4,986.43	3.93	318.11	1.15	0.00	0.00	0.00
5,013.62	5.00	89.29	5,000.00	3.94	319.30	1.16	0.00	0.00	0.00
9 5/8"									
5,100.00	5.00	89.29	5,086.05	4.03	326.82	1.18	0.00	0.00	0.00
5,200.00	5.00	89.29	5,185.67	4.14	335.54	1.21	0.00	0.00	0.00
5,300.00	5.00	89.29	5,285.29	4.25	344.25	1.25	0.00	0.00	0.00
5,400.00	5.00	89.29	5,384.91	4.36	352.97	1.28	0.00	0.00	0.00
5,500.00	5.00	89.29	5,484.53	4.47	361.68	1.31	0.00	0.00	0.00
5,600.00	5.00	89.29	5,584.14	4.57	370.40	1.34	0.00	0.00	0.00
5,700.00	5.00	89.29	5,683.76	4.68	379.11	1.37	0.00	0.00	0.00
5,746.89	5.00	89.29	5,730.48	4.73	383.20	1.39	0.00	0.00	0.00
5,800.00	4.47	89.29	5,783.40	4.78	387.58	1.40	1.00	-1.00	0.00
5,900.00	3.47	89.29	5,883.16	4.87	394.50	1.43	1.00	-1.00	0.00
6,000.00	2.47	89.29	5,983.03	4.93	399.68	1.45	1.00	-1.00	0.00
6,100.00	1.47	89.29	6,082.97	4.98	403.12	1.46	1.00	-1.00	0.00
6,200.00	0.47	89.29	6.182.95	5.00	404.81	1.46	1.00	-1.00	0.00
6.246.89	0.00	0.00	6,229.84	5.00	405.00	1.47	1.00	-1.00	0.00
6.300.00	0.00	0.00	6,282.95	5.00	405.00	1.47	0.00	0.00	0.00
6,400.00	0.00	0.00	6,382.95	5.00	405.00	1.47	0.00	0.00	0.00
6,500.00	0.00	0.00	6,482.95	5.00	405.00	1.47	0.00	0.00	0.00
0.000.00	0.00	0.00	6 500 05	5.00	105.00	4.47	0.00	0.00	0.00
6,600.00 6,700.00	0.00	0.00	6,582.95 6,682.95	5.00 5.00	405.00 405.00	1.47 1.47	0.00	0.00	0.00
6,800.00	0.00	0.00	6,782.95	5.00	405.00	1.47	0.00	0.00	0.00
6,900.00	0.00	0.00	6,882.95	5.00	405.00	1.47	0.00	0.00	0.00
7,000.00	0.00	0.00	6,982.95	5.00	405.00	1.47	0.00	0.00	0.00
,,,,,,,,,,									
7,100.00	0.00	0.00	7,082.95	5.00	405.00	1.47	0.00	0.00	0.00
7,200.00	0.00	0.00	7,182.95	5.00	405.00	1.47	0.00	0.00	0.00
7,300.00	0.00	0.00	7,282.95	5.00	405.00	1.47	0.00	0.00	0.00
7,400.00	0.00	0.00	7,382.95	5.00	405.00	1.47	0.00	0.00	0.00
7,500.00	0.00	0.00	7,482.95	5.00	405.00	1.47	0.00	0.00	0.00
7,600.00	0.00	0.00	7,582.95	5.00	405.00	1.47	0.00	0.00	0.00
7,700.00	0.00	0.00	7,682.95	5.00	405.00	1.47	0.00	0.00	0.00
7,800.00	0.00	0.00	7,782.95	5.00	405.00	1.47	0.00	0.00	0.00
7,900.00	0.00	0.00	7,882.95	5.00	405.00	1.47	0.00	0.00	0.00
8,000.00	0.00	0.00	7,982.95	5.00	405.00	1.47	0.00	0.00	0.00
8,100.00	0.00	0.00	8,082.95	5.00	405.00	1.47	0.00	0.00	0.00
8,200.00	0.00	0.00	8,182.95	5.00	405.00	1.47	0.00	0.00	0.00
8,300.00	0.00	0.00	8,282.95	5.00	405.00	1.47	0.00	0.00	0.00
8,400.00	0.00	0.00	8,382.95	5.00	405.00	1.47	0.00	0.00	0.00
8,500.00	0.00	0.00	8,482.95	5.00	405.00	1.47	0.00	0.00	0.00
			0.500.05		105.05		0.00	0.00	
8,600.00	0.00	0.00	8,582.95	5.00	405.00	1.47	0.00	0.00	0.00
8,700.00	0.00	0.00	8,682.95	5.00	405.00	1.47	0.00	0.00	0.00
8,800.00	0.00	0.00	8,782.95	5.00 5.00	405.00 405.00	1.47 1.47	0.00	0.00	0.00
8,900.00	0.00	0.00	8,882.95	5.00	405.00	1.47	0.00	0.00	0.00

Survey Report

Company:

Matador Resources

Project:

Lea County, NM Nina Cortell Fed Com

Site: Well:

No. 121H

Wellbore: Design:

ОН Prelim Plan B Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Database:

Well No. 121H

Well @ 3836.00usft Well @ 3836.00usft

Grid

Minimum Curvature

WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.00	90.00	359.50	10,996.00	1,437.81	392.39	1,434.33	0.00	0.00	0.00
12,300.00	90.00	359.50	10,996.00	1,537.81	391.51	1,534.33	0.00	0.00	0.00
12,400.00	90.00	359.50	10,996.00	1,637.81	390.63	1,634.33	0.00	0.00	0.00
12,500.00	90.00	359.50	10,996.00	1,737.80	389.75	1,734.33	0.00	0.00	0.00
12,600.00	90.00	359.50	10,996.00	1,837.80	388.87	1,834.33	0.00	0.00	0.00
12,700.00	90.00	359.50	10,996.00	1,937.79	387.99	1,934.33	0.00	0.00	0.00
12,800.00	90.00	359.50	10,996.00	2,037.79	387.11	2,034.33	0.00	0.00	0.00
12,900.00	90.00	359.50	10,996.00	2,137.79	386.23	2,134.33	0.00	0.00	0.00
13,000.00	90.00	359.50	10,996.00	2,237.78	385.35	2,234.33	0.00	0.00	0.00
13,100.00	90.00	359.50	10,996.00	2,337 78	384.47	2,334.33	0.00	0.00	0.00
13,200.00	90.00	359.50	10,996.00	2,437.77	383.59	2,434.33	0.00	0.00	0.00
13,300.00	90.00	359.50	10,996.00	2,537.77	382.71	2,534.33	0.00	0.00	0.00
13,400.00	90.00	359.50	10,996.00	2,637.77	381.83	2,634.33	0.00	0.00	0.00
13,500.00	90.00	359.50	10,996.00	2,737.76	380.95	2,734.33	0.00	0.00	0.00
13,600.00	90.00	359.50	10,996.00	2,837.76	380.07	2,834.33	0.00	0.00	0.00
13,700.00	90.00	359.50	10,996.00	2,937.76	379.19	2,934.33	0.00	0.00	0.00
13,800.00	90.00	359.50	10,996.00	3,037.75	378.31	3,034.33	0.00	0.00	0.00
13,900.00	90.00	359.50	10,996.00	3,137.75	377.43	3,134.33	0.00	0.00	0.00
14,000.00	90.00	359.50	10,996.00	3,237.74	376.55	3,234.33	0.00	0.00	0.00
14,100.00	90.00	359.50	10,996.00	3,337.74	375.67	3,334.33	0.00	0.00	0.00
14,200.00	90.00	359.50	10,996.00	3,437.74	374.79	3,434.33	0.00	0.00	0.00
14,300.00	90.00	359.50	10,996.00	3,537.73	373.91	3,534.33	0.00	0.00	0.00
14,400.00	90.00	359.50	10,996.00	3,637.73	373.03	3,634.33	0.00	0.00	0.00
14,500.00	90.00	359.50	10,996.00	3,737.72	372.15	3,734.33	0.00	0.00	0.00
14,600.00	90.00	359.50	10,996.00	3,837 72	371.27	3,834.33	0.00	0.00	0.00
14,700.00	90.00	359.50	10,996.00	3,937.72	370.39	3,934.33	0.00	0.00	0.00
14,800.00	90.00	359.50	10,996.00	4,037.71	369.51	4,034.33	0.00	0.00	0.00
14,900.00	90.00	359 50	10,996.00	4,137.71	368.63	4,134.33	0.00	0.00	0.00
15,000.00	90.00	359.50	10,996.00	4,237 71	367 75	4,234.33	0.00	0.00	0.00
15,100.00	90.00	359.50	10,996.00	4,337.70	366.87	4,334.33	0.00	0.00	0.00
15,200.00	90.00	359.50	10,996.00	4.437.70	365.99	4,434.33	0.00	0.00	0.00
15,300.00	90.00	359.50	10,996.00	4,537.69	365.11	4,534.33	0.00	0.00	0.00
15,400.00	90.00	359.50	10,996.00	4,637.69	364.23	4,634.33	0.00	0.00	0.00
15,500.00	90.00	359.50	10.996.00	4,737.69	363.35	4,734.33	0.00	0.00	0.00
15,600.00	90.00	359.50	10,996.00	4,837.68	362.47	4,834.33	0.00	0.00	0.00
15,653.32	90.00	359.50	10,996.00	4,891.00	362.00	4,887.65	0.00	0.00	0.00

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM

Reference Site:

Nina Cortell Fed Com

Site Error: Reference Well: 0.00 usft No. 121H

Well Error: Reference Wellbore 0.00 usft OH

Reference Design:

Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

Well No. 121H Well @ 3836.00usft Well @ 3836.00usft

MD Reference: North Reference:

Grid

Survey Calculation Method:

Output errors are at

Minimum Curvature 2.00 sigma

Database:

Offset TVD Reference:

WellPlanner1 Offset Datum

Reference Filter type: Prelim Plan B

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method:

Stations Unlimited

(usft)

Depth Range: Results Limited by:

Warning Levels Evaluated at:

Maximum center-center distance of 9,999.98 usft

Error Model:

ISCWSA

Scan Method: Error Surface: Closest Approach 3D

Pedal Curve

Date 8/11/2017

Survey (Wellbore)

2.00 Sigma

Casing Method:

Not applied

Survey Tool Program From

(usft)

To

Tool Name Description

0.00 1,200.00 5,000.00

1,200.00 Prelim Plan B (OH) 5,000.00 Prelim Plan B (OH) 15,653.32 Prelim Plan B (OH)

MWD+HDGM MWD+HDGM MWD+HDGM OWSG MWD + HRGM

OWSG MWD + HRGM OWSG MWD + HRGM

	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. 131H - OH - Prelim Plan B	1,100.00	1,100.00	60.00	52.58	8.082	CC, ES	
No. 131H - OH - Prelim Plan B	1,300.00	1,300.04	63.49	55.00	7.477	SF	
No. 201H - OH - Prelim Plan B	1,100.00	1,100.00	30.00	22.58	4.041	CC, ES	
No. 201H - OH - Prelim Plan B	10,450.00	10,451.78	100.09	50.94	2.037	SF	

Offset De	-					- Prelim Pi	an B						Offset Site Error:	0.00 us
urvey Prog Refer	-	WD+HDGM, 12 Offse		DGM, 5000-MW Semi Major					Dista				Offset Well Error:	0.00 u
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	on Contro	Between	Between	Minimum	Consenting		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-60.00	60.00					
100.00	100.00	100.00	100.00	0 13	0.13	-90.00	0 00	-60.00	60.00	59.75	0.25	235.742		
200.00	200.00	200 00	200.00	0.49	0 49	-90.00	0 00	-60.00	60.00	59.03	0.97	61 763		
300.00	300.00	300.00	300.00	0 84	0.84	-90 00	0.00	-60 00	60 00	58.31	1.69	35 537		
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0 00	-60.00	60.00	57.59	2.41	24 944		
500.00	500.00	500.00	500.00	1.56	1.56	-90 00	0 00	-60.00	60 00	56.88	3.12	19.217		
600.00	600.00	600.00	600 00	1.92	1.92	-90.00	0.00	-60.00	60.00	56.16	3.84	15 628		
700 00	700 00	700.00	700 00	2.28	2.28	-90.00	0.00	-60.00	60.00	55.44	4.56	13 169		
800.00	800.00	800.00	800.00	2.64	2.64	-90 00	0.00	-60 00	60 00	54 73	5.27	11 378		
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-60.00	60.00	54.01	5.99	10 017		
1,000.00	1,000.00	1.000.00	1,000.00	3.35	3.35	-90.00	0.00	-60.00	60.00	53.29	6.71	8.946		
1,100.00	1,100.00	1,100.00	1,100 00	3.71	3.71	-90 00	0.00	-60.00	60.00	52.58	7.42	8.082 CC, E	S	
1,200.00	1,199.99	1,200.01	1,199.99	4.06	4.07	-179 30	0.00	-60.00	60.87	52.74	8.13	7 485		
1.300 00	1,299 96	1.300.04	1,299 96	4.24	4.25	-179.33	0 00	-60 00	63 49	55.00	8 49	7.477 SF		
1,400.00	1,399 86	1 400 14	1,399.86	4.27	4.28	-179.37	0.00	-60 00	67.85	59.30	8.55	7.934		
1,500 00	1.499 68	1,499.68	1 499.68	4 33	4 34	-179 42	0.00	-60.00	73.96	65.28	8.67	8.527		
1,600.00	1,599.37	1,598.11	1,598.11	4 43	4 43	-179.75	-0 39	-60.74	82.56	73.71	8.85	9.330		
1.700.00	1,698.99	1,696.16	1,696.12	4.55	4.53	179.52	-1.56	-62.97	93.55	84.48	9.07	10.314		
1,800.00	1.798 60	1,793.83	1,793 70	4 70	4 66	178.54	-3.51	-66.67	106.09	96.75	9.34	11.360		
1,900.00	1,898 22	1,891.07	1,890.76	4 88	4.82	177 43	-6.21	-71.81	120.18	110.53	9.65	12.454		
2,000.00	1,997 84	1,987.82	1,987.23	5.07	4.99	176.28	-9.66	-78.37	135.84	125.84	10.00	13.586		

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM Nina Cortell Fed Com

Reference Site: Site Error:

0.00 usft

Reference Well:

No. 121H

Well Error: Reference Wellbore 0.00 usft

Reference Design:

OH Prelim Plan B Local Co-ordinate Reference:

TVD Reference:

Well @ 3836.00usft

MD Reference:

Well @ 3836.00usft

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at

2.00 sigma

Well No. 121H

Database: Offset TVD Reference: WellPlanner1 Offset Datum

	sign					I - Prelim Pl	an B						Offset Site Error:	0.00
vey Prog				Sami Major					Diete	200			Offset Well Error:	0.00
Refer	Vertical	Offse	Vertical	Semi Major Reference	Offset	Highside	Offset Wellborn	Centre	Dista	Between	Minimum	Sanaration	***	
Depth	Depth	Depth	Depth			Toolface	+NI-S	+E/-W	Centres	Ellipses	Separation	Separation Factor	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
7,100.00	7,082.95	7,108.11	7,082.95	16.73	16.11	-99.22	-102.00	-254.00	667.63	635.72	31 91	20.922		
7,200.00	7,182.95	7,208.11	7,182.95	16.89	16.28	-99.22	-102.00	-254.00	667.63	635.37	32.26	20.697		
7,300.00	7,282.95	7,308.11	7,282.95	17.06	16.46	-99.22	-102.00	-254 00	667.63	635.01	32.62	20.469		
7,400.00	7,382.95	7,408.11	7,382.95	17.24	16.65	-99.22	-102.00	-254.00	667.63	634.64	32.99	20.238		
7,500.00	7,482.95	7,508.11	7,482.95	17.42	16.84	-99 22	-102.00	-254.00	667.63	634 26	33.37	20.006		
7,600.00	7,582.95	7,608.11	7,582.95	17.61	17.04	-99.22	-102.00	-254.00	667.63	633.87	33.76	19.773		
7,700.00	7,682.95	7,708.11	7,682.95	17.80	17.24	-99.22	-102.00	-254.00	667.63	633.46	34.17	19.540		
,800.00	7,782.95	7,808.11	7,782.95	18.00	17.45	-99.22	-102.00	-254.00	667.63	633.05	34.58	19.306		
7,900.00	7,882.95	7,908.11	7,882.95	18.20	17.66	-99.22	-102.00	-254.00	667.63	632.62	35.01	19.072		
3,000.00	7,982.95	8,008.11	7,982.95	18.40	17.88	-99.22	-102.00	-254.00	667.63	632.19	35.44	18.839		
,100.00	8,082.95	8,108.11	8,082.95	18.61	18.10	-99.22	-102 00	-254.00	667.63	631.75	35.88	18.607		
,200.00	8,182.95	8,208.11	8,182.95	18.83	18.33	-99.22	-102.00	-254.00	667.63	631.30	36.33	18.376		
,300.00	8,282.95	8,308.11	8,282.95	19.05	18.56	-99.22	-102 00	-254.00	667.63	630.84	36.79	18.146		
.400.00	8,382.95	8,408.11	8,382.95	19.27	18.79	-99.22	-102.00	-254.00	667.63	630.37	37.26	17.919		
,500.00	8,482.95	8,508 11	8,482.95	19.50	19.03	-99.22	-102.00	-254.00	667.63	629.90	37.73	17.693		
,600.00	8,582.95	8,608 11	8,582.95	19.73	19.27	-99.22	-102.00	-254.00	667.63	629.41	38.22	17.469		
,700.00	8,682.95	8,708 11	8,682.95	19.97	19.52	-99.22	-102.00	-254.00	667.63	628.92	38.71	17.248		
800.00	8.782.95	8,808.11	8,782.95	20.21	19.77	-99.22	-102.00	-254.00	667.63	628.43	39.21	17.029		
900.00	8,882.95	8,908.11	8,882.95	20.45	20 02	-99.22	-102.00	-254.00	667.63	627.92	39.71	16.813		
.000.000	8,982.95	9.008 11	8,982.95	20.70	20.28	-99.22	-102.00	-254.00	667.63	627.41	40.22	16.600		
100.00	9,082.95	9,108.11	9.082.95	20.95	20.54	-99.22	-102 00	-254.00	667.63	626.89	40 74	16.389		
200.00	9,182.95	9,208.11	9,182.95	21.20	20.80	-99.22	-102.00	-254.00	667 63	626.37	41.26	16 182		
300.00	9,282.95	9,308.11	9.282.95	21.45	21 06	-99.22	-102.00	-254.00	667.63	625.84	41.79	15.977		
400 00	9,382.95	9,408.11	9,382.95	21.71	21.33	-99.22	-102.00	-254.00	667 63	625 31	42.32	15.775		
,500 00	9.482.95	9,508.11	9,482.95	21.97	21.60	-99.22	-102.00	-254.00	667.63	624.77	42.86	15.577		
,600 00	9,582.95	9,608.11	9,582.95	22.24	21.87	-99.22	-102.00	-254 00	667.63	624.23	43.40	15.382		
,700.00	9,682.95	9,708.11	9.682.95	22.50	22.15	-99.22	-102.00	-254.00	667.63	623.68	43.95	15 189		
,800.00	9,782.95	9,808.11	9.782.95	22.77	22.42	-99.22	-102.00	-254.00	667.63	623.12	44.51	15.000		
,900 00	9,882.95	9.908.11	9.882.95	23.04	22.70	-99.22	-102.00	-254.00	667.63	622.56	45.07	14.814		
0,000.00	9,982.95	10,008.11	9,982.95	23.32	22.98	-99.22	-102.00	-254.00	667.63	622.00	45.63	14.631		
,100.00		10,108 11	10,082.95	23.59	23.27	-99.22	-102.00	-254.00	667.63	621.43	46.20	14.452		
200.00	10,182.95	10,208 11	10.182.95	23.87	23.55	-99.22	-102 00	254.00	667.63	620.86	46 77	14.075		
,200.00	10,182.95	10,308.11	10,282.95	24 15	23.84	-99.22	-102 00	-254.00 -254.00	667.63	620.29	47.34	14 275 14 102		
,400.00	10,382.95	10,408 11	10,382.95	24.44	24.13	-99.22	-102.00	-254.00	667.63	619.71	47.92	13 931		
440.09	10,423.04	10,431.97	10,423.04	24.55	24.13	-99.22	-102.00	-254.00	667.63	619.52	48.11	13.877		
450.00	10,432.95	10,441.89	10.432.95	24.58	24.23	-98.72	-102.00	-254.00	667.64	619 48	48 17	13.861		
500.00	10,482.84	10,508.22	10.482 84	24.72	24.42	-98.94	-102.00	-254.00	668, 11	619.61	48 51	13.774		
500.00	10,482.84	10,508.22	10.482 84	24.72	24.52	-99.43	-102.00	-254.00	669.30	620.56	48 74	13.774		
550.00	10,532.28	10,541.21	10.532 28	25.00	24.52	-100.19	-102.00	-254.00	671 35	620.56	49 03	13.731		
,600.00	10,580.88	10,589.52	10,580.88	25.00	24.80	-100 19	-102.00	-254.00	674.44	625.14	49.30	13.694		
700.00	10,674.13	10,683.06	10,674.13	25.27	24.94	-102.23	-102.00	-254.00	678 83	629.27	49.57	13.695		
				05.45	25.07	100.07		05 1 05	60.0-	00.00	40.55	40.744		
750.00		10,726.99	10,718.06	25.40	25.07	-103.37	-102.00	-254 00	684.82	634.99	49.83	13.744		
,800.00	10,759.74	10,768 68	10.759 74	25.52	25.19	-104.48	-102 00	-254.00	692.70	642.62	50.08	13.833		
,850.00	10,798.87	10.807 80		25 64	25.31	-105.45	-102.00	-254.00	702.78	652 47	50.31	13 968		
900.00		10.844 06 10.877 19	10,835.13 10,868.26	25.76 25.88	25.42 25.51	-106.21 -106.65	-102.00 -102.00	-254 00 -254 00	715.34 730.60	664.80 679.86	50.54 50.74	14.155 14.398		
00.000	10,897.99	10,906.93	10,897 99	26.00	25 60	-106 69	-102.00	-254 00	748.72	697.79	50.93	14 700		
050.00	10.924 12	10,933.05	10,924.12	26.14	25.68	-105.24	-102 00	-254.00	769.77	718.66	51 11	15.062		
100.00	10,946.43	10,955.36	10,946.43	26.28	25 75	-105.21	-102.00	-254.00	793 72	742.47	51.26	15 485		
150.00	10.964.75	10,973.69	10,964.75	26.44	25.80	-103.53	-102.00	-254.00	820 47	769.09	51.39	15 966		
.200.00	10,978.96	10,987.89	10,978.96	26.61	25.85	-101.11	-102.00	-254.00	849.83	798.33	51 49	16 504		
250.00	10,988.93	11,002.14	10,988.93	26.80	25 89	-97.90	-102.00	-254.00	881.51	829.92	51.59	17 087		

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM

Reference Site: Site Error:

0.00 usft

Reference Well: Well Error:

No. 121H 0.00 usft

Reference Wellbore

OH

Reference Design:

Nina Cortell Fed Com

Prelim Plan B

MD Reference: North Reference:

> Survey Calculation Method: Output errors are at

TVD Reference:

Database: Offset TVD Reference:

Local Co-ordinate Reference:

Well No. 121H

Well @ 3836.00usft Well @ 3836.00usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

ffset De				Com - No. 2									Offset Site Error:	0.00 us
rvey Prog Refer		ND+HDGM, 12 Offse		Semi Major		12292-MWD+HD	OGM		Dista	nce			Offset Well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	re Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+NI-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Training	
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.00	30.00					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.75	0.25	117.871		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-30.00	30 00	29.03	0.97	30.881		
300.00	300.00	300.00	300.00	0.84	0.84	-90.00	0.00	-30.00	30.00	28.31	1.69	17.768		
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-30.00	30.00	27.59	2.41	12.472		
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-30.00	30.00	26.88	3.12	9.608		
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-30.00	30.00	26.16	3.84	7.814		
700.00	700.00	700.00	700.00	2.28	2.28	-90 00	0.00	-30.00	30.00	25.44	4.56	6.584		
800.00	800.00	800.00	800.00	2.64	2 64	-90.00	0.00	-30.00	30.00	24.73	5.27	5.689		
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-30.00	30.00	24.01	5.99	5.008		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.00	0.00	-30.00	30.00	23.29	6.71	4.473		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-90.00	0.00	-30.00	30.00	22.58	7.42	4.041 0	C, ES	
1,200.00	1,199 99	1,200.01	1,199.99	4.06	4.07	-179.31	0.00	-30.00	30.87	22.74	8 13	3.796		
1,300.00	1,299.96	1,299.96	1,299.96	4.24	4.25	-179.37	0.00	-30.00	33.49	25.00	8.49	3.944		
1,400.00	1,399.86	1.400.50	1,400,50	4.27	4.28	-179.73	-0.19	-29.14	37 00	28.45	8.55	4.327		
1,500.00	1,499.68	1,501.10	1,501.06	4.33	4.34	179.40	-0.75	-26.55	40.54	31.88	8.67	4.679		
1,600.00	1,599.37	1,601.75	1,601.61	4 43	4 43	178.16	-1.69	-22.24	44.14	35.30	8.84	4.995		
1,700.00	1,698.99	1,702.48	1,702.15	4.55	4.55	176.57	-3.01	-16.19	46.94	37 88	9.06	5.179		
1,800.00	1,798.60	1,803.25	1,802.61	4.70	4.69	174.51	-4.71	-8.42	48.10	38.76	9.34	5.150		
1,900.00	1,898.22	1,903.21	1.902.18	4.88	4 86	172.23	-6.56	0.09	48.55	38.88	9.67	5.019		
2,000.00	1,997.84	2,003.19	2,001.78	5.07	5.06	169.99	-8.42	8.60	49.07	39 02	10.05	4 883		
2,100.00	2,097.46	2,103,17	2,101.38	5.29	5.27	167.81	-10.28	17.12	49.67	39.20	10.46	4.746		
2,200.00	2.197.08	2,203.17	2,200.98	5.53	5.50	165.68	-12.14	25.63	50.34	39.42	10.91	4.612		
2,300.00	2,296.70	2,303.13	2,300.58	5.78	5.74	163.61	-13.99	34.15	51.07	39.68	11.40	4.482		
2,400.00	2.396.32	2,403 11	2,400.18	6.04	6 00	161.60	-15.85	42.66	51.87	39.97	11.90	4.357		
2,500.00	2,495.94	2,503.09	2,499.78	6.31	6.28	159.65	-17.71	51.17	52.73	40.30	12.44	4.240		
2 620 00	2,595.56	2,603.07	2,599 38	6.60	6.56	157 77	-19.56	59.69	53.65	40.66	12.99	4 129		
2,600.00	2,595.56	2,703.05	2,599 30	6.89	6.85	155.95	-21.42	68.20	54.63	41.06	13.57	4.027		
2,800.00	2,794.80	2,803.03	2,798 58	7 19	7 15	154.20	-23.28	76.71	55.66	41 50	14 16	3.931		
2.900.00	2,894.42	2,903.01	2.898 18	7.50	7 46	152.51	-25 14	85.23	56.74	41.97	14.77	3.842		
3,000.00	2,994.04	3,002.99	2,997 78	7.82	7.77	150.89	-26.99	93.74	57.87	42 48	15.39	3.761		
				0						10.00	40.00	2.005		
3,100.00	3,093.66	3,102.97	3.097 38	8.46	8.09	149.33 147.84	-28.85 -30.71	102.25 110.77	59.04 60.25	43 02 43 59	16.02 16.66	3.685 3.616		
3,300.00	3,292.90	3,302.94	3,296.58	8.79	8.74	146.40	-32.56	119.28	61 50	44 19	17.32	3.552		
3,400.00	3,392.52	3,402.92	3,396 18	9 12	9.07	145.02	-34.42	127.80	62.79	44 82	17 98	3.493		
3,500.00	3,492.14	3,502 90	3.495.78	9.46	9.41	143.70	-36.28	136.31	64.12	45 47	18.65	3 439		
			0.505.00	0.00	0.75	440.40	25.44	444.00	05.40	10.15	40.00			
3,600.00	3.591 76	3,602 88	3,595.38	9 80	9 75	142 43	-38 14	144.82	65 48	46 15	19 32	3 389		
3,700.00	3.691.37	3,702 86	3,694 98 3,794.58	10 14	10.09	141.21 140.05	-39.99 -41.85	153.34 161.85	66.87 68.28	46.86 47.59	20.69	3.342		
3,800.00	3,790.99 3,890.61	3,802.84	3,794.58	10.83	10.43	138.93	-41.85 -43.71	170.36	69.73	47.59	20.69	3.300		
4,000.00	3.990.23	4.002 80	3,993 78	11.18	11.13	137 86	-45.56	178.88	71.20	49 11	22 08	3.224		
4,100.00	4.089 85	4.102.78	4.093.38	11.53	11.48	136.83	-47.42	187 39	72.69	49.91	22.78	3.190		
4,200.00	4.189.47	4,202.76	4.192.98	11 88	11.83	135 84	-49.28	195 90	74.21	50.72	23 49	3 159		
4,300.00	4,289 09	4.302 74	4.292.58	12.23	12.18	134.89	-51.14	204.42	75.75	51.55	24.20	3.130		
4,400.00	4.388 71	4.402 72	4,392.18	12.59 12.95	12.54	133.98	-52.99 -54.85	212.93 221.45	77.30 78.88	52.39 53.25	24 91 25 63	3.103		
4,500.00	4,488.33	4,502.70	4,491.78	12.95	12 89	133.11	-54.85	221.45	70.08	53.25	25 63	3.078		
4,600 00	4,587 95	4.602 68	4,591 38	13 30	13 25	132 27	-56 71	229.96	80 47	54 13	26 34	3.055		
4,700.00	4,687.57	4,702.66	4,690.98	13.66	13.61	131 46	-58.56	238.47	82.08	55.02	27 06	3.033		
4,800 00	4.787.19	4,802.64	4,790 58	14.02	13.97	130 69	-60.42	246.99	83.71	55 93	27 78	3 013		
4,900.00	4,886.81	4,902.62	4,890.18	14.38	14.33	129.94	-62.28	255.50	85.35	56.85	28 50	2.994		
5,000 00	4.986 43	5,002.60	4,989 78	14.58	14 52	129.23	-64.14	264.01	87.01	58.12	28 89	3.012		
	5,086.05	5,102.58	5,089.38	14.61	14.55	128.54	-65.99	272.53	88.67	59.72	28 95	3.063		

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM

Reference Site:

Nina Cortell Fed Com

Site Error: Reference Well: 0.00 usft No. 121H

Well Error:

Reference Wellbore

OH

Reference Design:

0.00 usft

Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

Well No. 121H Well @ 3836.00usft Well @ 3836.00usft

MD Reference:

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at Database:

2.00 sigma

Offset TVD Reference:

WellPlanner1 Offset Datum

Offset De	sign	Nina Co	ortell Fed	Com - No. 2	201H - O	H - Prelim Pla	an B						Offset Site Error:	0.00 usft	
Survey Prog		WD+HDGM, 1	200-MWD+H	DGM, 5000-MV	D+HDGM.	12292-MWD+HD	GM						Offset Well Error:	0.00 usft	١
Refer		Offs		Semi Major					Dista						١
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellborn	+E/-W	Between Centres	Between	Minimum Separation	Separation Factor	Warning		١
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)	1 4 6 1 0 1			
10,100.00	10,082.95	10,101.78	10,082.95	23.59	23.64	179.71	-95.00	405.50	100.00	52.81	47.19	2.119			-
10,200.00	10,182.95	10,201.78	10,182.95	23.87	23.92	179.71	-95.00	405.50	100.00	52.26	47 74	2.095			
10,300.00	10,282.95	10.301.78	10,282.95	24.15	24 19	179.71	-95.00	405.50	100.00	51.70	48.30	2.070			
10,400.00	10,382.95	10,401.78	10,382.95	24.44	24.47	179.71	-95.00	405.50	100.00	51.14	48.86	2.047			
10,440.09	10,423.04	10,441.87	10,423.04	24.55	24.59	179.71	-95.00	405.50	100.00	50.91	49.09	2.037			
10,450.00	10,432.95	10,451.78	10,432.95	24.58	24.61	-179.78	-95.00	405.50	100.09	50.94	49.15	2.037 SF			
10,500.00	10,482.84	10.501.67	10,482 84	24.72	24 75	-179.79	-95.00	405.50	103.13	53.70	49.43	2.086			
10,550.00	10,532.28	10,551.10	10,532.28	24.86	24 89	-179.80	-95.00	405.50	110.51	60.80	49.71	2.223			
10,600.00	10,580.88	10,600.29	10,580.88	25.00	25.03	-179.81	-95.00	405.50	122.17	72.18	49.99	2 444			
10,650.00	10,628.29	10,647.11	10,628.29	25.14	25.17	-179.83	-95.00	405.50	138.02	87.76	50.26	2 746			1
10,700.00	10,674.13	10,707.05	10,674 13	25.27	25.34	-179.85	-95.00	405.50	157.95	107.39	50.56	3 124			100
10,750.00	10,718.06	10,736.89	10,718.06	25.40	25.42	-179.86	-95.00	405.50	181.79	131.02	50.77	3.581			
10,800.00	10,718.00	10,778.57	10,718.00	25 52	25.54	-179.87	-95.00	405.50	209.37	158.37	51.00	4 105			
10,850.00	10,798.87	10,817.69	10,798.87	25.64	25.65	-179.88	-95 00	405.50	240.48	189 26	51.22	4 695			
10,900.00	10.835.13	10,853.96	10,835 13	25.76	25.76	-179.89	-95.00	405.50	274.88	223.46	51.42	5.345			
10,950.00	10,868.26	10,887.08	10,868.26	25.88	25.85	-179.89	-95.00	405.50	312.32	260.71	51.61	6.052			
11 000 00	10 907 00	10,916.82	10,897 99	26.00	25.94	-179.89	-95.00	405 50	252.40	300.73	51.77	6.809			
11,000.00	10.897.99	10,916.82	10,897 99	26.00	26.02	-179.89	-95.00	405.50 405.50	352.49 395 11	343.20	51.77	7.612			١
11,100.00	10,924.12	10,965.25	10.946.43	26.28	26.08	-179.88	-95.00	405.50	439.83	387.81	52.02	8.455			
11,150.00	10,964.75	10,983.58	10,964.75	26.44	26.13	-179.86	-95.00	405.50	486.34	434.22	52 12	9.332			
11,200.00	10,978.96	11,002.22	10,978.96	26.61	26 19	-179.83	-95.00	405.50	534.26	482.06	52.20	10.235			
							200	700 80	100000000000000000000000000000000000000		5000 to 10	5000 000000			
11,250.00	10.988.93	11,007.76	10,988.93	26.80	26.21	-179.76	-95.00	405.50	583 24	531.00	52.24	11 165			
11,300.00	10,994.60	11.013.42	10,994.60	26.99 27 15	26.22 26.23	-179.51 -90.05	-95.00 -95.00	405.50 405.50	632.90 672.96	580.63 620.68	52.27 52.28	12.108 12.872			
11,400.00	10,996.00	11,014.82	10,996 00	27.41	26.23	-90.06	-95.00	405.50	732.87	680.58	52.29	14.015			
11,500.00	10,996.00	11,014.82	10,996.00	27.90	26.23	-90.06	-95.00	405.50	832.87	780.57	52.30	15.924			
11,600.00	10,996.00	11,014.82	10,996.00	28 46	26.23	-90 07	-95.00	405.50	932 87	880.55	52 32	17 830			
11,700.00	10,996.00	11,014.82	10,996.00	29.07	26.23	-90 08	-95.00	405.50	1,032 87	980.53	52.34	19.735			1
11,800.00	10,995.00	12,947 36 13,047 36	12,051.00	29.75 30.47	35 36 35.52	-179.98 -179.98	1,037.83 1,137.82	395.62 394.74	1,055 00	1,006.38 1,005.96	48 62 49 05	21.699			1
12,000.00	10,996.00	13,147 36	12,051.00	31.25	35.72	179.98	1.237 82	393.87	1,055.00	1,005.90	49 52	21 306			
12,000.00	10,000.00	10,111	12,00 1100					000.01	1,000.00	1,000.10					1
12,100.00	10,996.00	13,247.36	12,051.00	32.07	36.00	-179.99	1,337 82	393.00	1,055 00	1.004.97	50.03	21 087			
12,200.00	10,995.00	13,347.36	12,051.00	32 94	36.36	-179 99	1,437.81	392.13	1,055 00	1.004.41	50.59	20 854			
12,300 00	10,996.00	13,447.36	12,051.00	33 84	36.85	-179.99	1,537.81	391.25	1,055 00	1.003.81	51 19	20.609			1
12,400.00	10,996.00	13,547.36 13,647.36	12,051.00	34 78 35 76	37.45 38.16	-179.99 -179.99	1,637.80 1,737.80	390.38 389.51	1,055 00	1,003.17	51.83 52.51	20.354			
12,500.00	10,595.00	15,547 50	12,031.00	35 76	30.10	5.55	1,757.00	305.31	1,000.00	1,002.49	32.31	20 001			
12,600 00	10,996.00	13,747.36	12,051 00	36 76	38.95	-179.99	1,837 80	388.64	1,055 00	1,001 77	53.23	19.820			-
12,700 00	10,996.00	13.847 36	12,051.00	37 80	39.81	-179.99	1,937 79	387.76	1,055.00	1,001 02	53.98	19 543			
12,800 00	10,996.00	13,947.36	12.051.00	38 85	40 73	-179.99	2,037 79	386.89	1.055.00	1,000.23	54.77	19.262			-
12,900.00	10,996.00	14,047.36	12,051.00	39.94	41.68 42.68	-179.99 -179.99	2,137.78	386.02	1,055.00	999 41	55.59	18.978			1
13,000.00	10,996.00	14,147 36	12,051 00	41 04	42 00	-110 99	2,237.78	385.15	1,055.00	998 56	56.44	18.691			
13,100.00	10,996.00	14,247.36	12,051 00	42 17	43 70	-179 99	2.337.78	384 27	1.055.00	997 68	57 33	18.403			
13,200.00	10,996 00	14,347.36	12,051.00	43.31	44.75	-179.99	2 437 77	383 40	1.055.00	996 76	58.24	18 115			
13,300.00	10,996 00	14,447 36	12,051 00	44.48	45.83	-179.99	2,537.77	382.53	1,055.00	995.83	59.18	17 828			
13,400.00	10,996.00	14.547 36	12,051 00	45.65	46 93	-179.99	2.637.77	381.66	1.055.00	994.86	60 14	17 542			
13,500.00	10,996 00	14,647 36	12,051.00	46.85	48 05	-179.99	2 737.76	380 79	1,055.00	993.87	61 13	17.258			
13,600.00	10,996.00	14,747 36	12,051 00	48 05	49 18	-179 99	2.837.76	379 91	1,055 00	992.86	62.15	16.976			
13,700 00	10,996.00	14,847 36	12,051.00	49 27	50.34	-179.99	2 937.75	379.04	1.055.00	991.82	63.18	16.698			
13,800.00	10,996.00	14,947.36	12.051 00	50 50	51 51	-179 99	3.037.75	378.17	1,055 00	990 76	64.24	16 423			
13,900.00	10.996.00	15,047 36	12,051.00	51 75	52.69	-179.99	3.137 75	377.30	1,055 00	989.68	65 32	16.152			
14,000.00	10,996.00	15,147 36	12.051.00	53.00	53.89	-179.99	3,237 74	376.42	1,055.00	988.59	66 42	15.885			
		45.0.00	10.051.05	****	55.40	470.00	2 007 7	275.55	100000	007 /=	07.50	45.000			
14,100.00	10,996.00	15,247.36	12,051.00	54.26	55.10	-179 99	3,337 74	375.55	1,055.00	987.47	67.53	15.622			

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM

Reference Site: Site Error:

Nina Cortell Fed Com 0.00 usft

Reference Well: Well Error:

No. 121H 0.00 usft

Reference Wellbore Reference Design:

Prelim Plan B

Local Co-ordinate Reference:

Well No. 121H Well @ 3836.00usft

TVD Reference: MD Reference:

Well @ 3836.00usft Grid

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at Database:

WellPlanner1

Offset TVD Reference:

Offset Datum

Reference Depths are relative to Well @ 3836.00usft

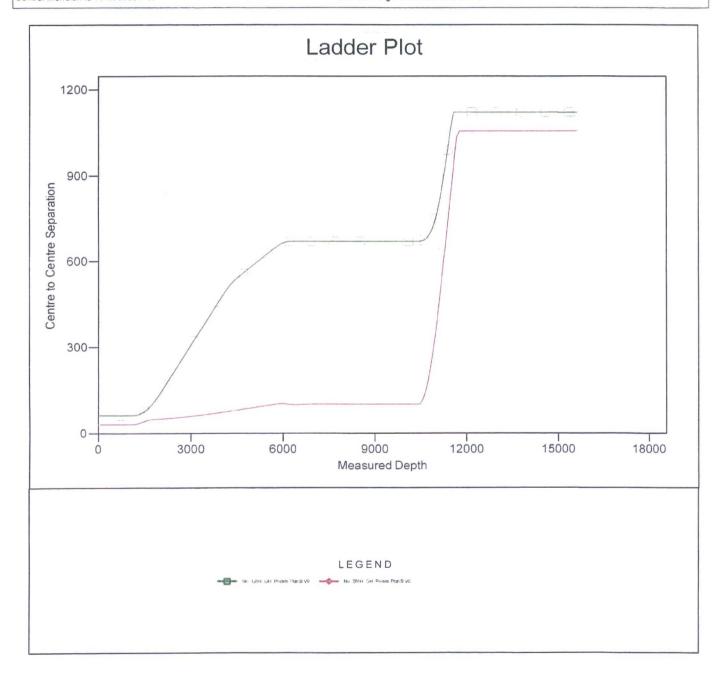
Offset Depths are relative to Offset Datum

Central Meridian is 104.333334°W

Coordinates are relative to: No. 121H

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

Grid Convergence at Surface is: 0.36°



Matador Production Company Nina Cortell Fed Com 121H SHL 150' FSL & 585' FWL BHL 240' FNL & 990' 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 tested 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 121H SHL 150' FSL & 585' FWL BHL 240' FNL & 990' 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' - 15653'	9.0	30-32	NC

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈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

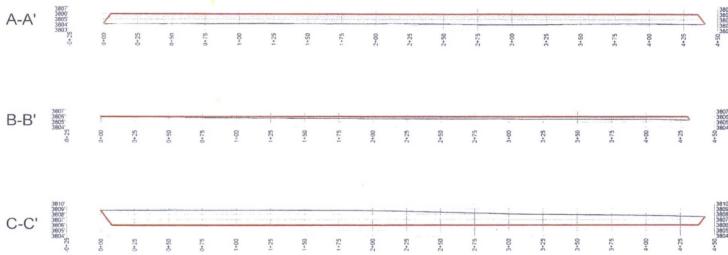
No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 6000 psi. Expected bottom hole temperature is ≈ 155 ° F.

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.



TOP OF PAD ELEVATION, 3805 9477 CUT SLOPE 33 33% 3 000 1 18 43° FILL SLOPE 33 33% 3 000 1 18 43° BALANCE TOLERANCE (C Y) 0.00 CUT SWELL FACTOR 1.00 FILL SHRINK FACTOR: 1 00 PAD EARTHWORK VOLUMES CUT 96,480 4 C F , 3,573 35 C Y FILL 96,480 4 C F , 3,573 35 C Y AREA 167913 7 SQ FT . 3 855 ACRES

SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M. LEA COUNTY, NEW MEXICO





NINA CORTELL	REVISION:		NOTES.
FED COM 201H SURFACE PAD SITE PROFILE	GLH	05/01/17	2 ALL BEARING: BASED UPON SURVEY FEET 3 CERTIFICATIO EVIDENCE FO SUPERVISION
DATE: 04/17/17			SURVEY, WITH OF WHICH I H
FILE: CO, NNA, CORTELL FED, CON, 2014, SLEFACE, FAD, STE, REVI			FOR THIS TRA
DRAWN BY: GJU			
SHEET: 2 OF 2			

Horizontal Scale = 1:50



1400 EVERMAN PARKWAY, SIe. 197 - FT. WORTH, TEXAS 75140 TELEPHONE: (817) 744-7512 - FAX (817) 744-7546 TEXAS FIRM REGISTRATION NO. 10042504 WWW TOPOGRAPHIC COM

CMAP 11



Michael Blake Brown, P.S. No. 18329 MAY 01, 2017

Field note description of even date accompanies this plat.

SURFACE PLAN PAGE 1

Matador Production Company Nina Cortell Fed Com 121H SHL 150' FSL & 585' FWL BHL 240' FNL & 990' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (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 very large oil tank and go E 2/3 mile on caliche road
Then turn left and go N 0.5 mile on caliche road
Then turn right and go East 1.4 mile on caliche road
Then turn right and go South 0.6 mile on caliche road
Then turn left and go East 0.3 mile on caliche road
Then turn right and go South 0.9 mile on caliche road
Then turn left and go Northeast 1.2 mile on 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 1,404.27' 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. ROAD TO BE BUILT OR UPGRADED (See MAPS 4 & 5)

The 1,404.27' 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°



SURFACE PLAN PAGE 3

Matador Production Company
Nina Cortell Fed Com 121H
SHL 150' FSL & 585' FWL
BHL 240' FNL & 990' 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. <u>RECLAMATION</u> (See MAPS 9-11)

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad $\approx 18\%$ (0.65 acre) by removing caliche and reclaiming the northwest corner (150' x 380' x 408'). This will leave 3.00 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 on the



SURFACE PLAN PAGE 5

Matador Production Company Nina Cortell Fed Com 121H SHL 150' FSL & 585' FWL BHL 240' FNL & 990' 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 19th 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

