PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

HOBBS OCD FEB 2 8 2018 RECEIVED

OPERATOR'S NAME:

Matador Prod Co

LEASE NO.:

NM135247

WELL NAME & NO.:

202H-Nina Cortell Fed Com

SURFACE HOLE FOOTAGE:

150'/S & 1876'/W 240'/N & 2309'/W

BOTTOM HOLE FOOTAGE LOCATION:

Section 3, T. 22 S., R. 32 E.

COUNTY:

Lea County, New Mexico

Potash	None	© Secretary	CR-111-P
Cave/Karst Potential	• Low	○ Medium	C High
Variance	None	Flex Hose	Other
Wellhead	C 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

Page 1 of 9

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

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

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

- 2. The minimum required fill of cement behind the 9 5/8 inch first 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 7 inch second intermediate casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4 1/2 inch production casing is:
 - Cement as proposed. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch first intermediate casing shoe shall be 3000 (3M) psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 inch second intermediate casing shoe shall be 10,000 (10M) psi.

Page 2 of 9

Option 2:

- only be fested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the first casing shoe shall be 10,000 (10M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. After the 7" casing is set in the speed head, the BOP will then be lifted to install another casing head section for setting the production casing. Therefore, per Onshore Oil and Gas Order No. 2, the entire BOP/BOPE shall be tested prior to drilling out the second intermediate casing shoe.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - f. 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.

A 5M Annular variance sundry along with a 'well control plan' and 10M BOP/BOPE diagram must be submitted, in order to use a 5M Annular on top of a 10M BOP stack.

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.

MHH 02102018

Page 4 of 9

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)

 - ✓ Lea CountyCall 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.

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.

Page 6 of 9

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

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.

Page 8 of 9

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.

Page 9 of 9

DRILL PLAN PAGE 2

Matador Production Company
Nina Cortell Fed Com 202H
SHL 150' FSL & 1876' FWL
BHL 240' FNL & 2309' FWL
Sec. 3, T. 22 S., R. 32 E., Lea County, NM

3. PRESSURE CONTROL

(3,000

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.

After setting the surface casing, and before drilling the surface casing shoe, a minimum 2M BOPE system will be installed. It will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high.

After setting intermediate 1 casing, a minimum 3M BOPE system will be installed and tested to 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

After setting intermediate 2 casing, a minimum 5M BOPE system will be installed and tested to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Matador requests a variance to have the option of running a speed head for setting the intermediate 1 and 2 strings. In the case of running a speed head with landing mandrel for 9.625" and 7" casing, a minimum 3M BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 250 psi high before drilling below the surface shoe. After 7" casing is set in the speed head,



Matador Production Company
Nina Cortell Fed Com 202H
SHL 150' FSL & 1876' FWL
BHL 240' FNL & 2309' FWL
Sec. 3, T. 22 S., R. 32 E., Lea County, NM

the BOP will then be lifted to install another casing head section for setting the production casing. Matador will nipple up the casing head and BOP and a minimum SM BOPE system will be installed. Pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high. A diagram of the speed head is attached.

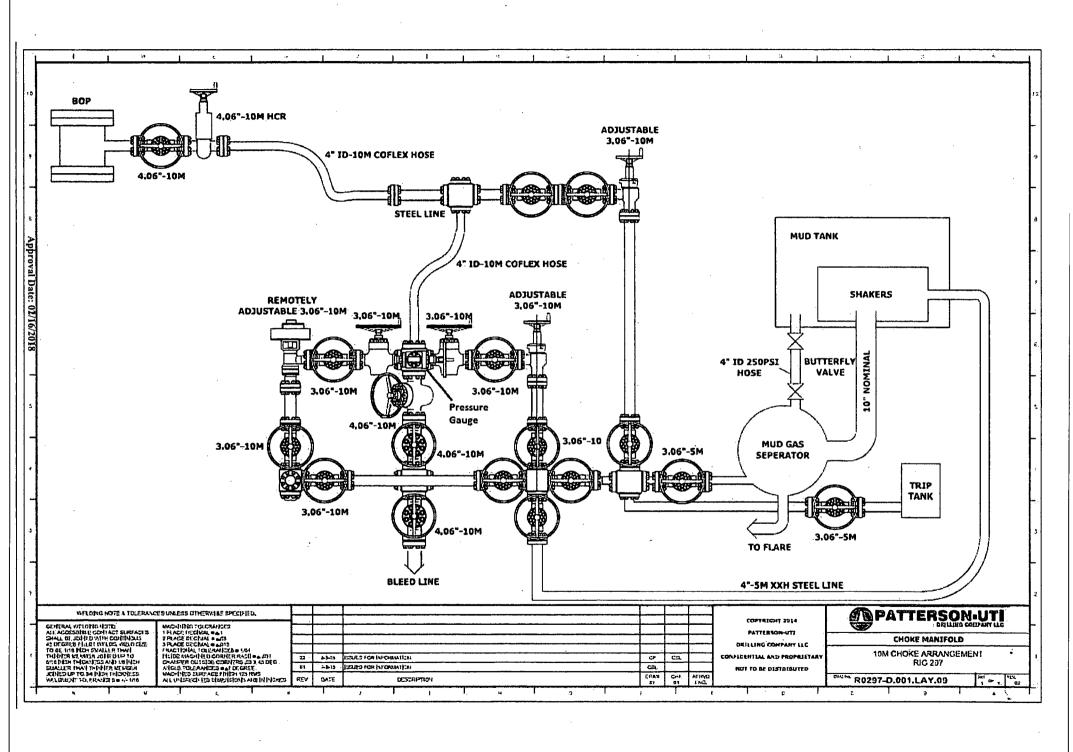
Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

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'	13.375" surface	54.5	J-55	втс	1.125	1.125	1.8
12.25"	0' - 5000'	0′ - 4987'	9.625" inter. 1	40	J-55	втс	1.125	1.125	1.8
8.75"	0' - 12313'	0′ – 12058′	7.0" inter. 2	29	P-110	втс	1.125	1.125	1.8
6.125"	0′ - 16824′	0′ - 12077′	4.5" product.	13.5	P-110	BTC/TXP	1.125	1.125	1.8





PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

HOBBS OCD
FEB 28 2018
RECEIVED

	· · · · · · · · · · · · · · · · · · ·
OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM135247
WELL NAME & NO.:	202H-Nina Cortell Fed
SURFACE HOLE FOOTAGE:	150'/S & 1876'/W
BOTTOM HOLE FOOTAGE	240'/N & 2309'/W
LOCATION:	Section 3, T. 22 S., R. 32 E.
COUNTY:	Lea County, New Mexico

TABLE OF CONTENTS

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

◯ General Provisions	
Permit Expiration	
TArchaeology, Paleontology, and Histor	ical Sites
Noxious Weeds	
🔀 Special Requirements	
Lesser Prairie-Chicken Timing Stipu	lations
Ground-level Abandoned Well Mark	er
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 & Declaration	

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.

Page 2 of 13

V. SPECIAL REQUIREMENT(S)

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

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.

• 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.

Page 4 of 13

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.

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)

Page 6 of 13

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

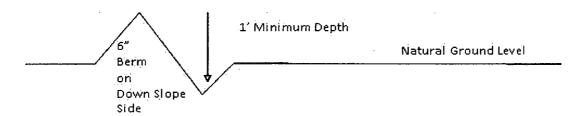
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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:
$$\frac{400'}{40'}$$
 + 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.

Page 8 of 13

Construction Steps

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

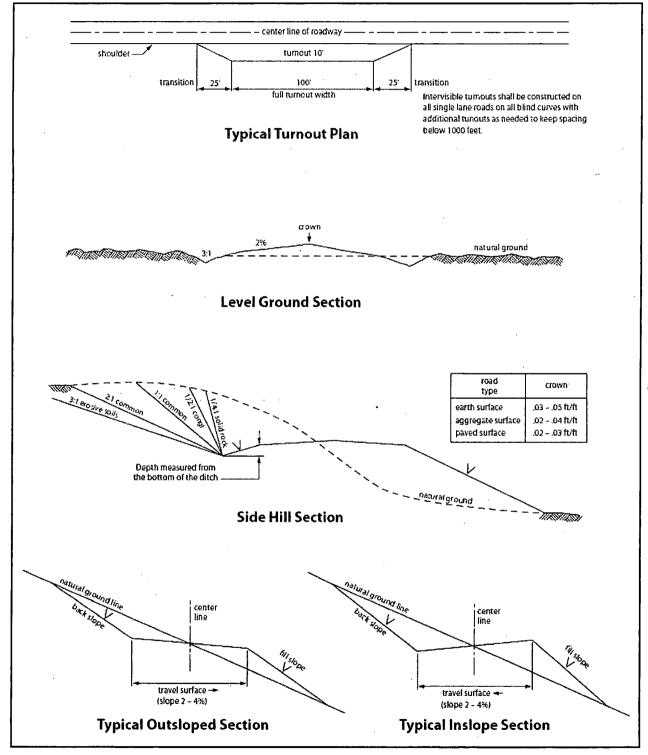


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

Page 10 of 13

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.

Page 11 of 13

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.

Seed Mixture 2, for Sandy Sites

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

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

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

<u>Species</u>	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

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
202H-Nina Cortell Fed
150'/S & 1876'/W
240'/N & 2309'/W
LOCATION:
COUNTY: Lea County, New Mexico

TABLE OF CONTENTS

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

☐ General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
☐ Noxious Weeds
Special Requirements
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 Ahandonment & Reclamation

Page 1 of 13

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.

Page 2 of 13

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.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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.

• 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.

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.

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)

Page 6 of 13

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 Illusfrations, 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.

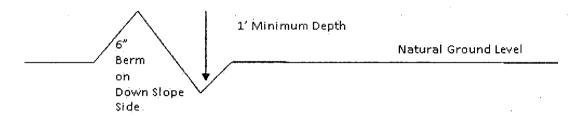
Drainage

Page 7 of 13

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.

Page 8 of 13

Construction Steps

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

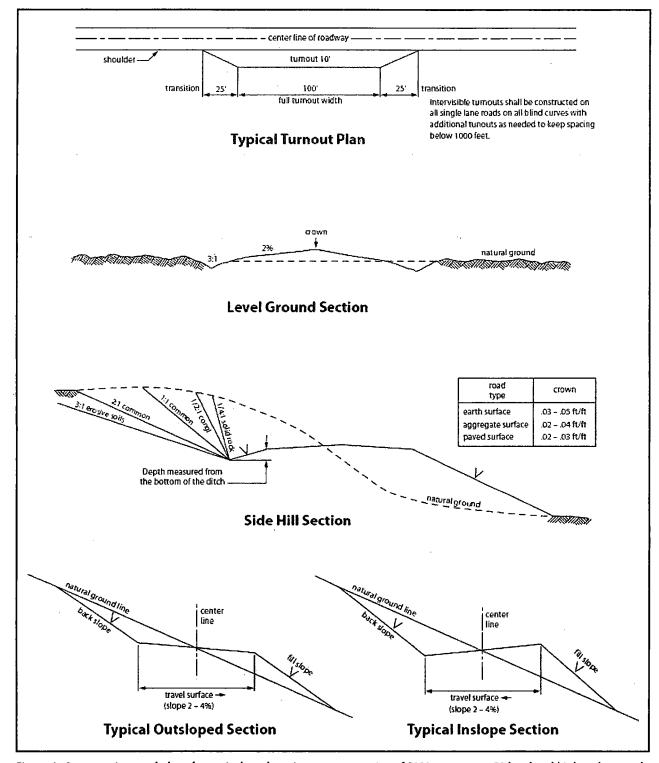


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

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.

Page 11 of 13

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.

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:

<u>Species</u>	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



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
 - o 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.

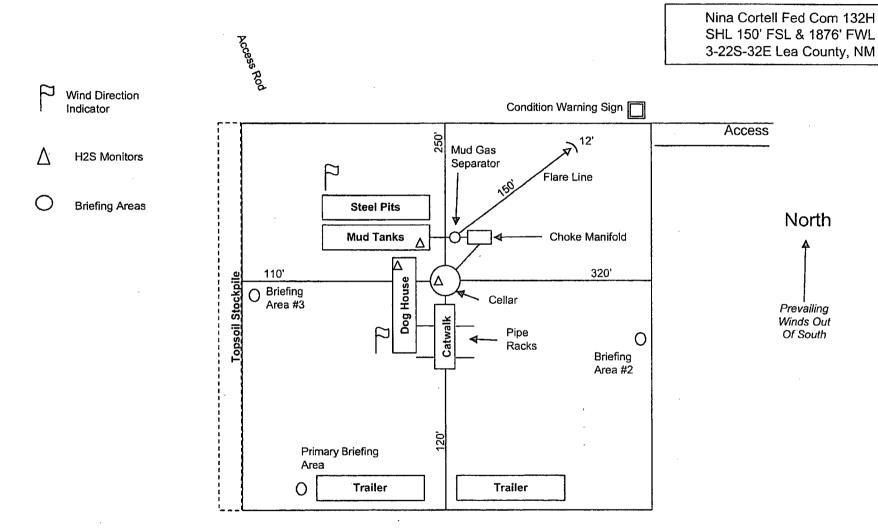
11 Emergency Contacts

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	n (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 Co	mmission (Santa Fe)	505-476-9600	
New Mexico Emergency Response Co	mmission (Santa Fe) 24 hrs	505-827-9126	
New Mexico State Emergency Operat	ions Center	505-476-9635	
National			
National Emergency Response Center	r (Washington, D.C.)	800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock	, TX	806-743-9911	•
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S	E, D3; Albuquerque, NM	505-842-4433	
SB Air Med Service- 2505 Clark Carr L	oop SE; Albuquerque, NM	505-842-4949	
<u>Other</u>			
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)	1	575-637-7200	

H2S Rig Diagram







Start 4579.54 hold at 6933.26 MD

3500

10000

Matador Resources Lea County, NM Nina Cortell Fed Com No. 202H Prelim Plan B

US State Plane 1927 (Elect solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Marcino East 3001
Mcan Sea Level

RKB Elevation: Well @ 3837.00usft

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 514890.00 708378.00 32.413772*N 103.864572*W

SECTION DETAILS. Lateral

Sec	MD	Inc	Azi	TVD -	+N/-S	+E/-W	Dieg	VSect
1	0,00	0.00	0,00	0.00	0.00	0.00	0.00	0.00
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00
3	1800.00	5.00	102,39	1799.37	4.68	21.29	1.00	-4.67
4	6433,26	5.00	102,39	6414.99	-91.32	415.71	0.00	-95.16
5	6933.26	0.00	0.00	6914.38	95.00	437.00	1.00	-100.04
6	11512,80	0.00	0.00	11493,90 %	96.00	437.00	0.00	-100 04
7	12312.80	80.00	359.47	12058.15	377.44	432.62	10.00	373.43
8	12337.60	80,00	359,47	12062,49	: 402 06 1	432.39	0.00	398.05
9	12504.47	90.00	359.47	12077.00	567.88	430.86	6.00	583.87
10	16823.77	90.00	359.47	12077.00	4887.00	391.00	0.00	4883,17

T Å M

uzimums to Grid North True North: -0.38° Magnetic North: 6 59°

Magnetic Fleid trength: 46279 8snT Dip Angle: 80 30* Oate: 7/31/2017 Model: HDGM Total Magnetic Corr. (M to G), 6.52°

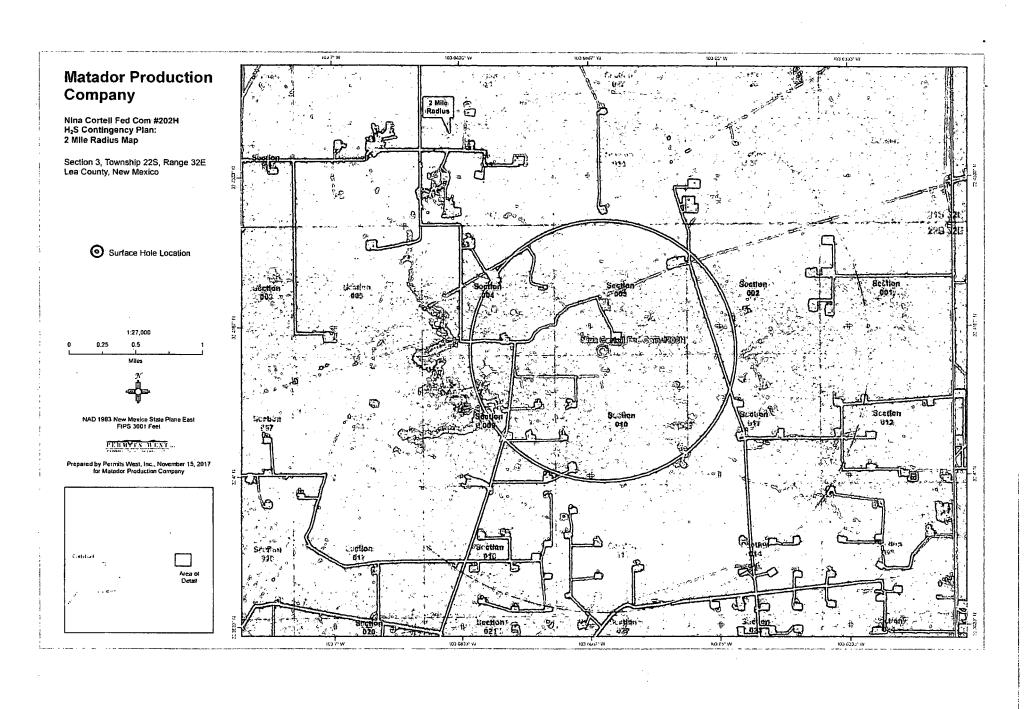
Declaration (M to T), 6.95° East.



West(-)/East(+) (200 usft/in)

								v	Ç	11-1/60	st(+) (200 1	JSTV	1117							
0 -12	00 -	000	-8	00	-60	0	-4	00	-2	00	0 2	00	400	6	00	800	10	00	1200	-5400	
		L		ļ			-			,			i.		i	- 4 -	. ~			75400	
i		i.					3			<u>. </u>		<u>:</u>	- [<u> </u>	J.				5200	
 ;	<u> </u>	Ļ.	2		-+		ب.	_					- 1			120		-		-	
		1			i	Ė	N	0 1	32	No	202H	j	Ţ						1	5000	
, .l				<u>L</u> .	П	į	j				at 168	į.,	å.	_: N	d 12	294.		ļ.,	i		
		.l.,			П						at 160	323.7	4.		1.	11		ļ.,.,	[4800	
		1.			H	ļ.,	}					<u>. </u>				11-			4		
	·	-j	ļ,	·	41	÷-		ÍM	1	Cont#2	OZHIL	PP			_Ľ	41	<u>.</u>		j -	4600	
		-	ļ		1.	4.	_		-		• •	ļ	-		ļļ.	ij. <u>.</u> .		ļ.,			
		4)		H	4-			-		·	i			ļ-4.	ļ.;;		ļ.,		4400	
		-	2-		4	۲.			١.			į.	.		1.1	ŀŀ		٠,	- }		
!		+-	ļ		4	-1			ŀ			ļ			ļi:	- -				4200	
		ļ			Н	- 4	- }	:.				ļ	-0.1		1-1	 		-			
		÷			H	+-			-			!- -			- 1				[4000	
- 1	!	-			H	-	-		-		·	 -	: -	:-						1	
}		+-	ļ		-}-}	- -			-			ļ			╁┼	1				3800	
- 4	~	-	i -	·	Н	ŀ		₩.	ŀ		;	 	[-		ļ ļ -	F		1			
		-	ļ		#1	+			-		 -	 	[i l	<u> </u>		- :		3600	
· · †	<u> </u>	į	į		11	1-	-		H		÷	í	1		11		٠-	١.	- <u>i</u>	i	
		1	ļ	-	H	+-			1-			1			 			-1-	÷	3400	
		i"			1			- :	1		ý – +·	<u> </u>	-		H	II.		H	. į		
	-	i-	-		Ħ	Ť	í		1						11	 • •-				3200	
-:		1		1	1	1-			ľ			1	-1-		T-I	- <u> </u>		TI:	-		
		Ī	Œ		17	T			1			1	-		1	1		T i	1	3000	
		1_						보				1		330.		11-	•		-	2800	တ
i								Ħ				1	-1	≢, **	,	1			1	2800	South
[1	_	1	J.											11	-	1		2600	
		!_	i									1	. [Π.				2000)/Nor
		L.	ļ		<u>.</u>	4	_;	_÷	L].		Li	LL.		Ш.		2400	<u>₹</u>
			١		-!				П			ļ				ļ.i				1	
		ļ	ļ		_j <u>í</u>	<u> </u>			1	<u> </u>			_].	!	-	4			_ _	2200	20
	,	ļ.,	-		-#	ļ:.			И				-1	-		11-		- j	+	1	(200 usfl/in)
		-	<u>.</u>	<u> </u>	-	-		:-	H		· 	 _:		Ŀ.,	<u> </u>				÷ļ.	2000	3
· · j		4	j		-4	H			H			!						-	- -		_
		╁	†		-#		;		Ш			٠-;	-#	<u></u>	 - -	++-	·	-1		1800	
		+		۰,	-	÷	;		H			 -	- -	. <u></u>		1:		- 1		1	
		ļ	-	├ ─	-#	- -			1			·	-	· j~··	-	- -	بـــــ	H		1600	
	;	†	1 -		•	ψ	Ì		li			ļ	-[]-	÷	-	11		-		1	
		-	1		۲,	Ť	٦		ľ	 -		i	-1		1-1	††-		-1		1400	
<u> </u> -	-:-	-	1		Ť	ľ	-		11				-#			11-	-)		- [1	
i		1	1		-#	r	Ì		ti			1	- -	;	m	11	-,		تد إحد	1200	
- 1		Ţ			ľ	1	7		H						-!	11-	*		7-1		
. 1		Ī.	T		ľ	1			1			Ī	_!			11-		T		1000	
		1			1								<u>.</u>][3.		Π			-1-	800	
		1			Ţ	П	j					i	31			I			I	1000	
		L				Ш			1			1	<u> </u>							-600	
1		1	1		Sla	ħ.4	31	9.31	۲	cld at	12504	47 N	AD.	S	art [Ļst	.00	TFC	0.0	1	
		ļ	-	. :.ـــــــــــــــــــــــــــــــــــ	_j.	Ŀ			Įį.			1				11		LJ.	_	400	
!		١	<u> </u>			iar	12	5.00	'n	old at	12312	.00 M	AD:		<u> </u> _	}_		L	_i		
		i_	<u>.</u>		- ļ	H			4			1				1.		LД		200	
						H	- 4	(Nin	J	ort#2	D2H1F	PP .]]			Д.	~ ·	~	-1-	1	
		ļ				H.	;	frag.	-			ļ <u>.</u>	-4			ij.,				0	
		ļ.,	<u></u>		٠	H.			Ц.			-	ᆋ		ļi		·;		<u></u>	l	
	,	+-	===	=	7		- ;		-				÷		Lec	150 Lb	10			-200	
[·		!-					- Î			· / St	art Bui	d 10	oo.	<u> </u>	 	- i -			ļ.		
j-		÷		_								ļ								-400	
}-		÷				-			-			!		-	}	:				ļ	
					_i		:												:	1-600	

															at 359.															
4	100	200	ò		200 4	i00 6	600	BÓO .	1000 12	00 1	400 16	100 18	00 20	00 22	00 2	00 20	100 28	300 30	00 32	200 34	600 36	500 38	3DO 4	000 4	200 4	100 46	300 46	00 50	00 E	520
enn.	L.,					1 :	, ,	1	i		1 .											1	1		1	1		;		Ť
730				- 3	(an 25	.oo no	iu at 1	25127	O MID	<u>. </u>					1			7	,			1		i		T	1		;	-)
400-					tart 25	00.60	م دوم امد	no ani	0 MD	1	Start 4	319.31	hold a	1 1250	4.47 N	D	1	1]	-		;		1	וי דיין	D at 1	6823.7	7	í
200	1	- j			}	1	1		1		1 - 1-]	1	1	,	;	Ī	Ī	-	1	<u> </u>		 	-	<u></u>	7
200-	1	. 1	:	7.5	/B"	1	1 "			i : '	1	,				,				1	I	1	1	7	1	1	1	Ī	····	- }
000	1		-:		1		1					-	i		1		Ī.,	1 .		i		-	4	1		_	1		Wolfe	ল্
						1	12-						1	<u> </u>			<u> </u>			j	1	j	i		L	i		ļ	l	-
800-		<u>i</u>	}	···	-	1	Start	nra e	op irc	0.01	+	 	ļ			 -	·	†	 		ļ	†				 				7
	1	1	/:		Ť	1	Charle	Diee	OD TEC	1000					h i	·	7	ļ				i	1	4	j					-1
600	1		13		i	1	1					 	<u> </u>			 	<u>i -, -</u>	i		ļ	†		 	†		i	! -		 	+
	ŀ		l :			 :				!					ļ	!- -	†						-+	1		j	1			1
400-					i Di	i io	1		-:	i	 	 			 -	1			ļ.— <u>.</u>		<u> </u>	 		 	 	ļ	 -		ļ	-1
	-	i	-		Start B	10.10		+							ļ	t ~						t	į			ļ	 	F	 -	٠+
200-	1	T	1			Ţ	7			1	T	1			1		Ţ		·	7	T	T	·	7	T	,:-	T			٠.,



Survey Report

(Company: Matador Resources Project: Lea County, NM Site: Nina Cortell Fed Com

Well: No. 202H Wellbore: ОН

Prelim Plan B Design:

Local Co-ordinate Reference:

Well No. 202H TVD Reference: Well @ 3837.00usft MD Reference: Well @ 3837.00usft

North Reference:

Survey Calculation Method: Minimum Curvature Database: WellPlanner1

Project Lea County, NM

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site Nina Cortell Fed Com

Site Position:

Northing:

514,876.00 usft

Latitude:

32.413755°N

From: Position Uncertainty: Мар 0.00 usft Easting: Slot Radius: 705,087.00 usft 13-3/16

Longitude:

103.668756°W

0.36 Grid Convergence:

No. 202H

Well Position

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

Northing: 0.00 usft Easting:

514,890.00 usft

Latitude:

32.413772°N

Position Uncertainty

0.00 usft

Wellhead Elevation:

706,378.00 usft usft

Longitude: Ground Level: 103.664573°W 3,808.00 usft

Wellbore ОН

Magnetics

Declination

OWSG MWD + HRGM

Audit Notes:

Version:

Tie On Depth:

Vertical Section:

Depth From (TVD)

+N/-S

+E/-W

Survey Tool Program Date 8/11/2017

> (usft) (usft) Survey (Wellbore) 1,200.00 Prelim Plan B (OH) 0.00 1,200.00 5,000.00 Prelim Plan B (OH) 5,000.00 12,303.00 Prelim Plan B (OH)

> > 16,823.77 Prelim Plan B (OH)

Tool Name MWD+HDGM MWD+HDGM

MWD+HDGM

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

Planned Survey

12,303.00

	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	
i	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	

Survey Report

Company: Project:

Matador Resources Lea County, NM

Site: Well:

Nina Cortell Fed Com No. 202H

Wellbore:

ОН

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well No. 202H

Well @ 3837.00usft Well @ 3837.00usft

Grid

Minimum Curvature

Design: Prel	im Plan B			Database:			WellPlanner1		
Planned Survey	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-3		en en en e	en and the second	1	10 1 10 1 10 1 10 10 10 10 10 10 10 10 1	ner e montre non Sono e sono e s	an an industrial Spanners of the annual
Measured Depth (usft)	inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (7/100usft)	Turn Rate (°/100usft)
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	. 0.00	0.00	0.00	0.00	0.00	0.00
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	1.00	102.39	1,399.99	-0.19	0.85	-0.20	- 1.00	1.00	0.00
1,500.00	2.00	102.39	1,499.96	-0.75	3.41	-0.78	1.00	1.00	0.00
1,600.00	3.00	102.39	1,599.86	-1.68	7.67	-1.76	1.00	1.00	0.00
1,700.00	4.00	102.39	1,699.68	-2.99	13.63	-3.12	1.00	1.00	0.00
1,800.00	5.00	102.39	1,799.37	-4.68	21.29	-4.87	1.00	1.00	0.00
1,900.00	5.00	102.39	1,898.99	-6.55	29.81	-6.82	0.00	0.00	0.00
2,000.00	5.00	102.39	1,998.60	-8.42	38.32	-8.77	0.00	0.00	0.00
2,100.00	5.00	102.39	2,098.22	-10.29	46.83	-10.72	0.00	0.00	0.00
2,200.00	5.00	102.39	2,197.84	-12.16	55.35	-12.67	0.00	0.00	0.00
2,300.00	5.00	102.39	2,297.46	-14.03	.63.86	-14.62	0.00	0.00	0.00
2,400.00	5.00	102.39	2,397.08	-15.90	72.37	<i>-</i> 16.57	0.00	0.00	0.00
2,500.00	5,00	102.39	2,496.70	-17.77	80.88	-18.52	0.00	0.00	0.00
2,600.00	5.00	102.39	2,596.32	-19.64	89.40	-20.46	0.00	0.00	0.00
2,700.00	5.00	102.39	2,695.94	-21.51	97.91	-22.41	0.00	0.00	0.00
2,800.00	5.00	102.39	2,795.56	-23,38	106.42	-24.36	0.00	0.00	0.00
2,900.00	5.00	102.39	2,895.18	-25.25	114.93	-26.31	0.00	0.00	0.00
3,000.00	5.00	102:39	2,994.80	-27.12	123.45	-28.26	0.00	0.00	0.00
3,100,00	5.00	102.39	3,094.42	-28.99	131.96	-30.21	0.00	0.00	0.00
3,200.00	5.00	102.39	3,194.04	-30.86	140.47	-32 .16	0.00	0.00	0.00
3,300.00	5.00	102.39	3,293.66	-32.73	148.98	-34.11	0.00	0.00	0.00
3,400.00	5.00	102.39	3,393.28	-34.60	157.50	-36.05	0.00	0.00	0.00
3,500.00	5.00	102.39	. 3,492.90	-36.47	166.01	-38.00	0.00	0.00	0.00
3,600.00	5.00	102:39	3,592.52	-38.34	174.52	-39.95	0.00	0.00	0.00
3,700.00	5.00	102.39	3,692.14	-40.21	183.03	-41.90	0.00	0.00	0.00
3,800.00	5.00		3,791.76	-42.08	191.55	-43.85	0.00	0.00	0.00
3,900.00	5.00	102.39	3,891.37	-43.95	200.06	-45.80	0.00	0.00	0.00
4,000.00	5.00	102.39	3,990.99	-45.82	208.57	-47.75	0.00	0.00	0.00
4,100.00	5.00	102.39	4,090.61	-47.69	217.08	-49.70	0.00	0,00	0.00
4,200.00	5.00	102,39	4,190.23	-49.56	225.60	-51.64	0.00	0.00	0.00
4,300.00	5.00	102.39	4.289.85	-51.43	234.11	-53.59	0.00	0.00	0.00
4,400.00	5.00	102.39	4,389.47	-53.30	242.62	-55.54	0.00	0.00	0.00
4,500.00	5.00	102.39	4,489.09	-55,17	251.13	-57.49	0.00	0.00	0.00
4,600.00	5.00	102.39	4,588.71	-57.04	259.65	-59.44	0.00	0.00	0.00
4,700.00	5.00	102.39	4,688.33	-58.91	268.16	-61.39	0.00	0.00	0.00
4,800.00	5.00	102.39	4,787.95	-60.78	276.67	-63.34	0.00	0.00	0.00
4,900.00	5.00	102.39	4,887.57	-62.65	285,19	-65.28	0.00	0.00	0.00

Survey Report

Company: Project:

Matador Resources

Lea County, NM Nina Cortell Fed Com

Site: Well: Wellbore:

No. 202H

Design:

ОН Prelim Plan B

Well No. 202H Well @ 3837.00usft Well @ 3837.00usft

Grid

Local Co-ordinate Reference

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database: Minimum Curvature

WellPlanner1

P	lai	'n'n	eď	S	Ür	ve	٧
٠.	~:	516			٠,,	100	•

ned Survey	ing Tagang panggang	and the second				NACH TO	in a series de		
Measured			Vertical.	er este l'as	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Vertical	Dogleg	. Build	Turn 19
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W . p	Section	Rate	Rate	Rate
(usft)	()	(°);	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,000.00	5.00	102.39	4,987.19	-64.52	293.70	-67.23	0.00	0.00	0.00
5,012.86	5.00	102.39	5,000.00	-64.76	294.79	-67.48	. 0.00	0.00	0.00
9 5/8"									
5,100.00	5.00	102.39	5,086.81	-66.39	302.21	-69.18	0.00	0.00	0.00
5,200.00	5.00	102.39	5,186.43	-68.26	310.72	-71.13	0.00	0.00	0.00
5,300.00	5.00	102.39	5,286.05	-70.13	319.24	-73.08	0.00	0.00	0.00
5,400.00	5.00	102.39	5,385.67	-72.00	327.75	-75.03	0.00	0.00	0.00
5,500.00	5.00	102.39	5,485.29	-73.87	336.26	-76.98	0.00	0.00	0.00
5,600.00	5.00	102.39	5,584.91	-75.74	344.77	-78.93	0.00	0.00	0.00
5,700.00	5.00	102.39	5,684.53	-77.61	353.29	-80.87	0.00	0.00	0.00
5,800.00	5.00	102.39	5,784.14	-79.48	361.80	-82.82	0.00	0.00	0.00
5,900.00	5.00	102.39	5,883.76	-81.35	370.31	-84.77	0.00	0.00	0.00
6,000.00	5.00	102.39	5,983.38	-83.22	378.82	-86.72	0.00	0.00	0.00
6,100.00	5.00	102.39	6,083.00	-85.09	387.34	-88.67	0.00	0.00	0.00
6,200.00	5.00	102.39	6,182.62	-86.96	395.85	-90.62	0,00	0.00	0.00
6,300.00	5.00	102.39	6,282.24	-88.83	404.36	-92.57	0.00	0.00	0.00
6,400.00	5.00	102.39	6,381.86	-90.70	412.87	-94.52	0.00	0.00	0.00
6,433,26	5.00	102.39	6,414.99	-91.32	415.71	-95.16	0.00	0.00	0.00
6,500.00	4.33	102.39	6,481.51	-92.49	421.01	-96.38	1.00	-1.00	0.00
6,600.00	3.33	102.39	6,581.29	-93.92	427.54	-97.87	1.00	-1.00	0.00
6,700.00	2.33	102.39	6,681.16	-94.98	432.36	-98.98	1.00	-1.00	0.00
2 222 22	4.00	400.00	0.704.44	05.07	105.40		4.00	-1.00	0.00
6,800.00	1,33	102.39	6,781.11	-95.67 -95.98	435.49	-99.69 - 100.02	1,00 1.00	-1.00	0.00
6,900.00	0.33	102.39	6,881.10		436.91	-100.02	1.00	-1.00	
6,933.26	0.00	0.00	6,914.36 6,981. 1 0	-96.00	437.00 437.00	-100.04	0.00	0.00	0.00 0.00
7,000.00	0.00	0.00		-96.00		-100.04	0.00		
7,100.00	0.00	0.00	7,081.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,200.00	0.00	0.00	7,181.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,300.00	0.00	0.00	7,281.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,400.00	0.00	0.00	7,381.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,500.00	0.00	0.00	7,481.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,600.00	0.00	0.00	7,581,10	-96.00	437.00	-100,04	0.00	0.00	0,00
7,700.00	0.00	0.00	7,681.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,800.00	0.00	0.00	7,781.10	-96.00	437.00	-100.04	0.00	0.00	0.00
7,900.00	0.00	0.00	7,881.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,000.00	0.00	0.00	7,981.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,100.00	0.00	0.00	8,081.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,200.00	0.00	0.00	8,181.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,300,00	0.00	0.00	8,281.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,400.00	0.00	0.00	8,381.10	- 96.00	437.00	-100.04	0.00	0,00	0.00
8,500.00	0.00	0.00	8,481.10	-96.00	437.00	-100.04	0.00	0.00	0.00
8,600.00	0.00	0.00	8,581.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9 700 00	0.00	0.00	0.604.40	06.00	427.00	100.04	0.00	0.00	A 00
8,700.00	0.00	0.00	8,681.10	-96.00	437.00	-100.04 -100.04	0.00	0.00	0.00
8,800.00	0.00 0.00	0.00 0.00	8,781.10 8,881.10	-96.00 - 96.00	437.00 437.00	-100.04 -100.04	0.00 0.00	0.00 0.00	0.00 0.00

Survey Report

Company: Project:

Matador Resources

Lea County, NM

Site: Well: Wellbore:

Nina Cortell Fed Com No. 202H

Design:

Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

North Reference:
Survey Calculation Method:

Database

Weil No. 202H

Well @ 3837.00usft

Well @ 3837.00usft

Minimum Curvature

WellPlanner1

Bank with the control of the con-				مان المائدان المائدان المائد الما المائد المائد	Transport		10 10 10 10		
Planned Survey	ing in the second of the secon	n Likhelin	The second second	10 TO	rane gere e	er se east. Frankriger east s	en er er vinner. Gestern in de gerinden in	. 5 - 1 - 2 - 2 - 2	
		illa esta			er filosofia Especialistas	S. Dewe .			o y 1000 o 1000 Guigania
Measured Depth			Vertical Depth	+N/-S		Vertical Section	Dogleg Rate	Bulld Rate	Turn Rate
(usft)	Inclination (*)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(üsft)	(°/100usft)	(°/100usft)	(°/100usft)
	a est despitation e	n Newson (1)	दर्श व्यक्तिया गामित	to a stable of the first re-	Section 18	The second	Chilles Willer Ave.	Ned D. Palanter et al.	and Autobach and second
9,000.00	0.00	0.00	8,981.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,100.00	0.00	0.00	9,081.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,200,00	0.00	0.00	9,181.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,300.00	0.00	0.00	9,281.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,400.00	0.00	0.00	9,381.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,500.00	0.00	0.00	9,481.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,600,00	0.00	0.00	9,581.10	-96.00	437.00	-100.04	0.00	0.00	0.00
:-			0.001.10	00.55		400.01		2.22	0.00
9,700.00	0.00	0.00	9,681.10	-96.00	437.00	-100.04	0.00	0.00	0.00
9,800.00	0.00	0.00	9,781.10	-96.00 96.00	437.00	-100.04 100.04	0.00	0.00	0.00
9,900.00	0.00	0.00	9,881.10 9,981.10	-96.00 -96.00	437.00 437.00	-100.04 -100.04	0.00 0.00	0.00 0.00	0.00 0.00
10,000.00 10,100.00	0.00 0.00	0.00 0.00	9,981.10	-96.00 -96.00	437.00	-100.04 -100.04	0.00	0.00	0.00
10,100,00	0.00	J.UV	, 5,551.10	00.00	-U. IU	100.04	3.00	0.00	5.50
10,200.00	0.00	0.00	10,181.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,300.00	0.00	0.00	10,281.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,400.00	0.00	0.00	10,381.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,500.00	0.00	0.00	10,481.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,600.00	0.00	0.00	10,581.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,700.00	0.00	0.00	10,681.10	-96.00	437.00	-100.04	0.00	0.00	0.00
10,800.00	0.00	0.00	10,781.10	-96.00 -96.00	437.00	-100.04	0.00	0.00	0.00
10,900.00	0.00	0.00	10,781.10	-96.00	437.00	-100.04	0.00	0.00	0.00
11,000.00	0.00	0.00	10,981.10	-96.00	437.00	-100.04	0.00	0.00	0.00
11,100.00	0.00	0.00	11,081.10	-96.00	437.00	-100.04	0.00	0.00	0.00
(/= 3		= =					
11,200.00	0.00	0.00	11,181.10	-96,00	437.00	-100.04	0.00	0.00	0.00
11,300.00	0.00	0.00	11,281.10	-96.00	437.00	-100.04	0.00	0.00	0.00
11,400.00	0.00	0.00	11,381.10	-96.00	437.00	-100.04	0.00	0.00	0.00
11,500.00	0.00	0.00	11,481.10	-96.00	437.00	-100.04	0.00	0.00	0.00
11,512.80	0.00	0.00	11,493.90	-96.00	437.00	-100.04	0:00	0.00	0.00
11,550.00	3.72	359.47	11,531.07	-94.79	436.99	-98.83	10.00	10.00	0.00
11,600.00	8.72	359.47	11,580.76	-89.38	436.94	-93.42	10.00	10.00	0.00
11,650.00	13.72	359.47	11,629.79	-79.65	436.85	-83.69	10.00	10.00	0.00
11,700.00	18.72	359.47	11,677.79	-65.69	436.72	-69.73	10.00	10.00	0.00
11,750.00	23.72	359.47	11,724.38	-47.60	436.55	-51.64	10.00	10.00	0.00
- ≃ ڪ جو جو	A	050 (-	44 700 00	.aé.cc	400	AA ==			0.00
11,800.00	28.72	359.47	11,769.22	-25:52	436.35	-29.55	10.00	10.00	0.00
11,850.00	33.72	359.47	11,811.97	0.39	436.11	-3,64	10.00	10,00	0.00
11,900.00	38.72	359.47 359.47	11,852.29	29.92 62.86	435.84	25.89 58.83	10.00	10.00	0.00
11,950.00 12,000.00	. 43.72 48.72	359.47 359.47	11,889.89 11,924.48	62.86 98.95	435.53 435.20	58.83 94.92	10.00 10.00	10.00 10.00	0.00 0.00
12,000,00	4 0.1∠	JJJ.41	11,024.40	au.aa	733.ZU	34.32	10.00	10.00	0.00
12,050.00	53.72	359.47	11,955.78	137,91	434.84	133.88	10.00	10.00	0.00
12,100.00	58.72	359.47	11,983.57	179.45	434.45	175.43	10.00	10.00	0.00
12,150.00	63.72	359.47	12,007.64	223.26	434.05	219.24	10.00	10.00	0.00
12,200.00	68.72	359.47	12,027.79	269.00	433.62	264.98	10.00	10.00	0.00
12,250.00	73.72	359.47	12,043.88	316.32	433,19	312.30	10:00	10.00	0.00
12,300.00	78.72	359.47	12,055.79	364.87	432.74	.360.85	10.00	10.00	0.00
12,300.00	18.12	309.47	12,035.79	304.87	432.74	300.05	10.00	10.00	U,UU

Survey Report

Company: Matador Resources

Project: Site:

Lea County, NM ... Nina Cortell Fed Com

Well:

No. 202H

Wellbore:

ОН Prelim Plan R Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well @ 3837.00usft Well @ 3837.00usft

Well No. 202H

North Reference:

Grid

Survey/Calculation Method:

Minimum Curvature

WellPlanner1

Desiĝn: Prelim	Plan B			Database:			WellPlanner1		
Planned Survey					inger et en	, and a second control of the contro	n az et y t		
Management			Vertical			Vertical	Dogleg	Build	Turn
Measured Depth	nclination	Azimuth	Depth	+N/S	∔E/-W	Section	Rate	Rate	Rate
(üsit)	(°)	(°).	(usft)	(uşft)	(usft)	(usft)	(°/100usft)	(°/100üsft)	(°/100usft)
12,302.97	79.02	359.47	12,056.36	367.78	432.71	363.76	10.00	10.00	0.00
7 5/8"									•
12,312.80	00.08	359.47	12,058.15	377.44	432.62	373.43	10.00	10.00	0.00
12,337.80	00.08	359.47	12,062.49	402.06	432.39	398.05	0.00	0.00	0.00
12,350.00	80.73	359.47	12,064.54	414.09	432.28	410.07	6.00	6.00	0.00
12,400.00	83.73	359.47	12,071.29	463.62	431.82	459.61	6.00	6.00	0.00
12,450.00	86.73	359.47	12,075.45	513.44	431.36	509.43	6.00	6.00	0.00
12,504.47	90.00	359.47	12,077.00	567.88	430.86	563.87	6.00	6.00	0.00
12,600.00	90.00	359.47	12,077.00	663.41	429.98	659,40	0.00	0.00	0.00
12,700.00	90.00	359.47	12,077.00	763.40	429.06	759.40	0.00	0.00	0.00
42 200 00	00.00	250.47	40.077.00	902.40	420.42	850.40	0.00	0.00	0.00
12,800.00	90.00	359.47	12,077.00	863.40	428.13	859.40	0.00		
12,900.00	90.00	359.47	12,077.00	963.40	427.21	959.40	0.00	0.00	0.00
13,000.00	90.00	359.47	12,077.00	1,063.39	426.29	1,059.40	0.00	0.00	0.00
13,100.00 13,200.00	90.00 90.00	359.47 359.47	12,077.00 12,077.00	1,163.39 1,263.38	425.36 424.44	1,159.40 1,259.40	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00	50.00	505. 11	12,017.00	1,200.00	121.11	1,200.10	0.00	0.00	0.00
13,300.00	90.00	359.47	12,077.00	1,363.38	423.52	1,359.40	0.00	0.00	0.00
13,400.00	90.00	359.47	12,077.00	1,463.37	422.60	1,459.40	0.00	0.00	0.00
13,500.00	90.00	359.47	12,077.00	1,563.37	421.67	1,559.40	0.00	0.00	0.00
13,600.00	90.00	359.47	12,077.00	1,663.37	420.75	1,659.40	0.00	0.00	0.00
13,700.00	90.00	359.47	12,077.00	1,763.36	419.83	1,759.40	0.00	0.00	0.00
13,800.00	90.00	359,47	12,077.00	1,863.36	418.90	1,859.40	0.00	0.00	0.00
13,900.00	90.00	359.47	12,077.00	1,963.35	417.98	1,959.40	0.00	0.00	0.00
14,000.00	90.00	359.47	12,077.00	2,063.35	417.06	2,059.40	0.00	0.00	0.00
14,100.00	90.00	359.47	12,077.00	2,163.34	416.14	2,159.40	0.00	0.00	0.00
14,200.00	90.00	359.47	12,077.00	2,263.34	415.21	2,259.40	0.00	0.00	0.00
44 200 00	00.00	250.47	10.077.00	0.000.04	444.20	2 350 40	0.00	0.00	0.00
14,300.00	90.00 90.00	359.47 359.47	12,077.00 12,077.00	2,363.34 2,463.33	414.29 413.37	2,359,40 2,459.40	0.00	0.00	0.00
14,400.00 14,500.00	90.00	359.47	12,077.00	2,563.33	412.44	2,559.40	0.00	0.00	0.00
14,600.00	90.00	359.47	12,077.00	2,663.32	411.52	2,659.40	0.00	0.00	0.00
14,700.00	90.00	359.47	12,077.00	2,763.32	410.60	2,759.40	0.00	0.00	0.00
·							,		
14,800.00	90.00	359.47	12,077.00	2,863.31	409.68	2,859.40	0.00	0.00	0.00
14,900.00	90.00	359.47	12,077.00	2,963.31	408.75	2,959.40	0.00	0.00	0.00
15,000.00	90.00	359.47	12,077.00	3,063.31	407.83	3,059.40	0,00	0.00	0.00
15,100.00	90.00	359.47	12,077.00	3,163.30	406.91	3,159.40	0.00	0.00	0.00
15,200.00	90.00	359.47	12,077.00	3,263.30	405.98	3,259.40	0.00	0.00	0.00
15,300.00	90.00	359.47	12,077.00	3,363.29	405.06	3,359.40	0.00	0.00	0.00
15,400.00	90.00	359.47	12,077.00	3,463.29	404.14	3,459.40	0.00	0.00	0.00
15,500.00	90.00	359.47	12,077.00	3,563.28	403.22	3,559.40	0.00	0.00	0.00
15,600.00	90.00	359.47	12,077.00	3,663.28	402.29	3,659.40	0.00	0.00	0.00
15,700.00	90.00	359.47	12,077.00	3,763.28	401.37	3,759.40	0.00	0.00	0.00
15 900 00	90.00	359.47	12,077.00	3,863.27	400,45	3,859.40	0.00	0.00	0.00
15,800.00	90.00	359.47	12,077.00	3,003.27	400,43	3,039.40	0.00	0.00	0.00

15,900.00

16,000.00

16,100.00

399.53 398.60

397.68

3,963.27

4,063.26

4,163.26

3,959.40

4,059.40

4,159.40

0.00

0.00

0.00

0.00

0.00

0.00

359.47

359.47

359.47

12,077.00

12,077.00

12,077.00

90.00

90.00

90.00

0.00

0.00

0.00

Survey Report

-20	100	1.	₹,
Co	mı	ar	lv:
. 1		17.7	

Matador Resources

Company: Matador Resource
Project: Lea County, NM

Nina Cortell Fed Com

90.00

359.47

12,077.00

Site: Well: Wellbore:

No. 202H Э. ОН

Design:

Prelim Plan B

16,823.77

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well @ 3837.00usft Well @ 3837.00usft

North Reference: Survey/Calculation Method: Database: Grid Minimum Curvature

Well No. 202H

WellPlanner1

0.00

0.00

0.00

	:		· · · · · · · · · · · · · · · · · · ·		111			<u> </u>	
Planned Survey	er af i a			ing the second	a service de la company				8 89 , s. J. J. S. C. J. S.
Measured			Vertical			Vertical	*Dogleg	Build	Turn 4
Depth In	clination	Azimuth,	Depth (usft)	+N/-S	+E/-W	Section (usft)	Rate %100usft) (°	Rate /100usft) (°	Rate 7/100usft)
	A CONTRACT		a Viewald of the	1. 148 1. 1. 1. V	(usit)	ી કિલ્લાની સ્થાન	দিশাল কেন্দ্রীয় করি		
16,200.00	90.00	359.47	12,077.00	4,263.25	396.76	4,259.40	0.00	0.00	0.00
16,300.00	90.00	359.47	12,077.00	4,363.25	395.83	4,359.40	0.00	0.00	0.00
16,400.00	90.00	359.47	12,077.00	4,463.25	394.91	4,459.40	0.00	0.00	0.00
16,500.00	90.00	359.47	12,077.00	4,563.24	393.99	4,559.40	0.00	0.00	0.00
16,600.00	90.00	359.47	12,077.00	4,663.24	393.07	4,659.40	0.00	0.00	0.00
16,700.00	90.00	359,47	12,077.00	4,763.23	392.14	4,759.40	0.00	0.00	0.00
16,800.00	90.00	359.47	12,077.00	4,863.23	391.22	4,859.40	0.00	0.00	0.00

391.00

4,883.17

4,887.00

- 15 アドチにはんでもいが、1567 水流は1 「心 こうしょくらうか	Angle D	p Dir.	TVD (usft)	+N/S (usft)		Northing (usft)	Easting (usft)	Latitude	Longitude
[NinaCort#202H]LPP	0.00	0.00	0.00	4,797.00	392.00	519,687.00	706,770.00	32.426951°N	103.663205°W
 plan misses target center Point 	by 4812.99	Busft at 0.	.00usft MD (0	0.00 TVD, 0.00	N, 0.00 E)				!
[NinaCort#202H]FPP - plan misses target center - Point	0.00 r by 279.96ι		11,500.00 527.99usft M	184.00 D (11509.09 T	434.00 VD, -95.80 N,	515,074.00 437.00 E)	706,812.00	32.414270°N	103.663163°W
(NinaCort#202H]BHL - plan hits target center - Point	0.00	0.00	12,077.0 0	4,887.00	391.00	519,777.00	706,769.00	32.427198°N	103 <u>.</u> 663206°W

Casing Points Measured Vertical Depth Depth	Casing Hole Diameter Diameter
(usft) (u	13-3/8 17-1/2 9-5/8 12-1/4 7-5/8 8-3/4
Formations Measured Vertical Depth Depth (usft) (usft) Name 12,087.56 11,977.00 Wolfcamp A	Dip Dip Direction Lithology (*) (*) 0.00

Checked By:	Approved By:	Date:	
			

Anticollision Report

Company:

Matador Resources

Project:

Lea County, NM

Reference Site:

Nina Cortell Fed Com

Site Error: Reference Well: Well Error:

0.00 usft No. 202H 0.00 usft

Reference Wellbore Reference Design:

ОН Prelim Plan B Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well @ 3837.00usft Well @ 3837.00usft North Reference: Grid

Minimum Curvature

Well No. 202H

Survey Calculation Method: Output errors are at

2.00 sigma Database: WellPlanner1 Offset TVD Reference: Offset Datum

Reference

Prelim Plan B

Filter type:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

2.00 Sigma

Interpolation Method: Depth Range:

Warning Levels Evaluated at:

Results Limited by:

Stations

Unlimited

Maximum center-center distance of 9,999.98 usft

Error Model:

MWD+HDGM

Scan Method:

ISCWSA Closest Approach 3D

Error Surface:

Casing Method:

Pedal Curve Not applied

Survey Tool Program 8/11/2017 Date From To Survey (Wellbore) Tool Name (usft) (usft) 1,200.00 Prelim Plan B (OH) MWD+HDGM 0.00 1,200.00 MWD+HDGM

5,000.00 Prelim Plan B (OH) 5,000.00 12,303.00 Prelim Plan B (OH) 12,303.00 16,823.77 Prelim Plan B (OH)

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

OWSG MWD + HRGM

Summary	a distant de la average e		Type of the Control o	- · · · · · · · · · · · · · · · · · · ·	the first property of the second property of	1 mar
	Reference	Offset	Distanc			
	Measured	Measured	Between	たぶしまり ウビ・ゴル	eparation Warning	St. 1 at 1
Offset Well: Wellbore - Design	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	
Nina Cortell Fed Com						
No. 122H - OH - Prelim Plan B	1,100.00	1,100.00	30.00	22.58	4.041 CC, ES	
No. 122H - OH - Prelim Plan B	10,400.00	10,401.81	101.00	52.14	2.067 SF	
No. 132H - OH - Prelim Plan B	1,300.00	1,300.00	30.02	21.51	3.529 CC, ES, SF	

Offset De	sign				22H - OH	- Prelim Pla		- 22 3	Tr. Commercia			Offset Wol	Enon: 0.00 usit
Survey Prog	ram: 0-M			DGM, 5000 MW	D+HDGM	Highside	Miles Barrey	170 1870	ar indicate		1957 301	Offset Wol	Error: 0.00 usft
Refe	rence	Offs	et	Semi Major	Axis/ .			COURS.	Distant	e 1,	Company of the	11.15	음생성 보기를 살아 음식
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (ush)	Reference (usft)	Offset (usft)	Highside Taolface	Offset Wellbore +N/-S (usft)	Centro •E/-W (usft)	Between 8	letween !	dinim	Separation, Factor	Warning
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	
00.00	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 CC, ES	
1,200.00	1,200.00	1,199.47	1,199.46	4.07	4.06	89.98	0,01	30,86	30.87	22.74	8,13	3.797	
1,300.00	1,300.00	1,298.88	1,298,84	4.25	4.24	89.93	0.04	33.45	33.47	24.99	8.48	3.945	
1,400.00	1,399.99	1,398.21	1,398.07	4.28	4.27	-12.82	0.10	37.76	36.96	28.42	8.54	4.327	
1,500.00	1,499.96	1,497.47	1,497.15	4.34	4.33	-13.67	0.17	43.78	40.48	31,83	8 65	4.679	
1,600.00	1,599.86	1,603.35	1,596.03	4.43	4.43	-14.89	0.26	51.51	44.05	35.23	8.82	4.993	
1,700.00	1,699.68	1,703.40	1,695.60	4.54	4.55	-16.46	0.37	60.22	46.89	37.83	9.05	5.178	
1,800.00	1,799.37	1,803.42	1,795,19	4,69	4.71	-18.50	0.48	68.93	48.10	38.76	9.34	5.150	
1,900.00	1,898.99	1,903.44	1,894.79	4.86	4.88	-20.79	0.59	77.65	48.55	38.88	9.67	5.020	
2,000.00	1,998.60	2,003.46	1,994.39	5.05	5,08	-23,04	0.69	86,36	49.08	39.03	10.05	4.885	

Anticollision Report

Company:

Matador Resources

Project: Reference Site: Lea County, NM Nina Cortell Fed Com

Site Error: Reference Well: Well Error:

0.00 usft No. 202H 0.00 usft

Reference Wellbore Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Well No. 202H

Well @ 3837.00usft Well @ 3837.00usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1

ОН Offset TVD Reference: Prelim Plan B Offset Datum

ırvay Progi	sign. rum: O-M	WD+HDGM, 1	200-MWD+HI	Com - No. 1 рам, 5000-ми	/D+HDGM	1 - 7 1611171	riali D	4			4 b		Offset Site Error: Offset Well Error:	0.00 us 0.00 us
Refer	ence	Offse	et .	Semi Major	Azis	3 0	والمراز والمراد والمراد		Dista		1 6.7		and the state of	
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offsat Wellbard	Centre +E/ W	Between Centres	Botween Ellipses	Minimum Separation	Separation Factor	Waming	
(usft)	(usit)	(usit)	(usfi)	(usit)	(usft)	()	(usft)	(usft)	(usfi)	(usft)				
2,100.00	2,098.22	2,103.48	2,093.99	5.26	5.30	-25.24	08.0	95.07	49.68	39.22	10,46	4.748		
2,200.00	2,197.84	2,203.50	2,193.59	5.49	5,53	-27.38	0.91	103.79	50.35	39.44	10.91	4.614		
2,300.00	2,297.46	2,303.52	2,293.19	5.74	5.78	-29.46	1.02	112.50	51.09	39.70	11,39	4.485		
2,400.00	2,397.08	2,403.54	2,392.79	6.00	6.05	-31.48	1.12	121.21	51,90	40.00	11.90	4.361		
2,500.00	2,496.70	2,503.56	2,492.39	6.27	6.32	-33.44	1.23	129.92	52.77	40.33	12.44	4.243		
2.600.00	2,596.32	2,603.58	2,591.99	6.55	6.61	-35,33	1.34	138.64	53.70	40.71	12.99	4,134		
2,700.00	2,695.94	2,703.60	2,691.59	6.84	6.90	-37.16	1,45	147.35	54.68	41.12	13.57	4.031		
2,800.00	2,795.56	2,803.62	2,791.19	7.14	7.20	-38.92	1.55	156.06	55.72	41.57	14.16	3.936		
2,900.00	2,895.18	2,903,64	2,890.79	7.45	7.51	-40,61	1.66	164.78	56.81	42.05	14.77	3.848		
3,000.00	2,994.80	3,003,66	2,990.39	7.76	7.83	-42.24	1.77	173.49	57.95	42.56	15.39	3.768		
3,100.00	3,094.42	3,103.68	3,089.99	80.8	8.15	-43.80	1.87	182.20	59.13	43.11	16.02	3.691		
3,200.00	3,194.04	3,203.70	3,189.59	8.40	8.47	-45.30	1.98	190.92	60.36	43.70	16.66	3.622		
3,300.00	3,293.66	3,303.72	3,289.19	8.73	8.80	-46.74	2.09	199.63	61.62	44.31	17.32	3.559		
3,400.00	3,393.28	3,403.74	3,388.79	9.06	9.14	-48.12	2.20	208.34	62.92	44.95	17.98	3.500		
3,500.00	3,492.90	3,503.76	3,488.39	9.40	9.47	-49.45	2.30	217.06	64.26	45.61	18.65	3.446		
3,600.00	3,592.52	3,603.78	3,587.99	9.74	9.81	-50.72	2.41	225.77	65.63	46.31	19.32	3.396		
3,700.00	3,692.14	3,703.80	3,687.59	10.08	10,15	-51.94	2.52	234.48	67,03	47.03	20.01	3.351	•	
3.800.00	3,791.76	3,803.82	3,787.19	10.42	10.50	-53.10	2.63	243.20	68.46	47,77	20.69	3,308		
3,900.00	3,891.37	3,896.16	3,886.79	10.77	10.82	-54.22	2.73	251:91	69.92	48.56	21.36	3.273		
4,000.00	3,990.99	3,996.14	3,986.39	11.12	11.17	-55.30	2.84	260.62	71.40	49.34	22.06	3,237		
4,100.00	4,090.61	4,103.88	4,085.99	11.47	11.54	-56.33	2.95	269.34	72.91	50.12	22.79	3,199		
4,200.00	4,190.23	4,203.90	4,185.59	11.82	11,90	-57.31	3.05	278.05	74,44	50.94	23.49	3.168		
4,300.00	4,289.85	4,303.92	4,285.19	12.17	12.25	-58.26	3.16	286.76	75.99	51.79	24.20	3.140		
4,400.00	4,389.47	4,403.94	4,384.79	12.53	12.60	-59.17	3.27	295.48	77.56	52.64	24.91	3.113		
4,500.00	4,489.09	4,496.04	4,484,39	12.58	12.93	-60.04	3.38	304.19	79.15	53.55	25.60	3.092		
4,600.00	4,588.71	4,596.02	4,583.99	13.24	13.29	-60.88	3.48	312.90	80.76	54.44	26.32	3.068		
4,700.00	4,688.33	4,704.00	4,683.59	13.60	13,68	-61.69	3.59	321.62	82.38	55,31	27,07	3.044		
4,800.00	4,787,95	4,804.02	4,783.19	13.96	14.04	-62.46	3.70	330.33	84.02	56.23	27.79	3.023		
4,900.00	4,887.57	4,904.04	4,882.79	14.32	14.39	-63.21	3.81	339.04	85.67	57.17	28.51	3.005		
5,000.00	4,987.19	5,004.06	4,982.39	14.51	14.58	-63.92	3.91	347.75	87.34	58.45	28.89	3.023		
5,100.00	5.086.81	5,104.08	5,081.99	14.55	14.62	-64.61	4.02	356.47	89.02	60.07	28.95	3.075		
5,200.00	5,186.43	5,204.10	5,181.59	14.60	14.66	-65.28	4.13	365.18	90.71	61.67	29.04	3.124		
5,300.00	5,286.05	5,295.88	5.281.19	14,65	14.71	-65,91	4.24	373.89	92.42	63.28	29.14	3.171		
5,400.00	5,385.67	5,404,14	5,380.79	14.72	14.79	-66.53	4.34	382.61	94.14	64.86	29.27	3.216	•	
5,500.00	5,485.29	5,504,16	5,480,39	14.79	14.86	-67.12	4.45	391.32	95.86	66.44	29.42	3.259		
5,600.00	5,584.91	5,604.18	5,579.98	14.87	14.95	-67.70	4.56	400.03	97.60	68.02	29,58	3.299		
5,700.00	5,684.53	5,704.20	5,679.58	14,96	15.04	-68.25	4.66	408.75	99.34	69.58	29.77	3,338		
5,800.00	5,784.14	5,796.16	5,779.57	15.07	15.13	-68.84	4.77	417.37	101,03	71.07	29,96	3.372		
5,900.00	5,883.76	5,897.12	5,880.27	15.18	15.24	-70.09	4.86	424.62	101.95	71.76	30.19	3.377		
6,000.00	5,983.38	5,998.01	5,981.00	15.29	15.34	-72.16	4.93	430.09	102.00	71.56	30.44	3.351		
6,100.00	6,083.00	6,098.75	6,081.68	15.42	15.45	-75,10	4.97	433,78	101.34	70.62	30.72	3.299		
6 300 00	£ 180 60	g 100 30	6 183 30	15 SP	15.56	-78.98	5.00	435.70	100.22	69.21	24.04	3.232		
6,200.00	6,182.62 6,282.24	6,199.29 6,300.67	6,182.20 6,282.24	15.56 15.70	15.66	-76.98 -83.78	5.00	435.70	99.02	69.21 67.72	31.01 31.31	3.232		
6,300.00	6,381.86	6,401.05	6,381.86	15.70	15.77	-88.81	5.00	436.00	99.02	66.86	31.50	3,116		
6,400.00 6,423.56	6,405.33	6,422.43	6,405.33	15.89	15.80	-90.00	5.00	436.00	98.43	66.77	31.66	3.109		
6,423.26 6,433.26	6,414,99	6,432.08	6,414.99	15.90	15.81	-90.49	5.00	436.00	98.44	66.75	31.69	3.109		
6,500.00	6,481.51	6,501.39	6,481.51	16.01	15 89	-93.64	5.00	436.00	98.63	66.75	31.88	3.094		
00.000,8	6,581.29	6,601.62	6,581.29	16.16	16.02	-97.49	5.00 5.00	436.00	99.28	67.13	32.15	3.088		
6,700.00	6,681.16	6,701.74	6,681.16	16.32	16.15	-100.30	5.00	436.00	100.05	67.63	32.42	3.086		
6,800.00	8,781.11	6,801,80	6,781.11	16.47	16.28	-102.09	5.00	436.00	100.67	67.97	32,70	3 079		
6,900.00	6,881.10	6,901,81	6,881.10	16.63	16.43	-102,90	5.00	436.00	100.98	68.00	32.99	3.061		
5,933.26	6,914.36	6,931.45	6,914.36	16.68	16.47	-0.57	5.00	436.00	101.00	67.92	33.08	3.053		

Anticollision Report

Company: Project: Reference Site:

Matador Resources Lea County, NM

Site Error: Reference Well: Nina Cortell Fed Com 0.00 usft No. 202H

Well Error. Reference Wellbore

0.00 usft 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. 202H

Well @ 3837.00usft Well @ 3837.00usft

Minimum Curvature

2.00 sigma WellPlanner1

Offset Datum

Part	Offset De	sign	Nina C	ortell Fed	Com - No. 1	22H - O	l - Prelim Pl	lan B	, .	••				Offset Site Error	0.00 usf
Marie Mari			フェルイヤン かいけんじん							ϕ, η			, , , , , , , , , , , , , , , , , , ,	Offset Well Error:	0.00 usf
		Contract of the Contract of th			7	C 1500		and the second	Segul Selection	Distai	nce:				
					Reference	Offsat								Warning	:
									the state of the s		(usft)			San Arranga Para	
		6.981.10	7.001.81		16.77		-0.57	5.00	436.00	101.00			3.035		
													3,007		
Table	7,200.00	7,181.10	7,201.81	7,181.10	17.08	16.90	-0.57	5.00	436.00	101.00	67.09	33.92	2.978		
			7,301.81	7,281.10							66.75				
7,000 00 7,561 10 7,601 11 7,561 10 17,77 17,61 4.57 5.00 406,00 101,00 65,89 35.32 2,800 7,700 10 7,601 10 7,861 10 17,861 10,181 4.57 5.00 405,00 101,00 65,81 33.70 2,400 7,700 10 7,801 10 7,801 10 7,701 11 11 180 4.57 5.00 405,00 101,00 65,81 33.70 2,400 7,700 10 7,801															
	7,500.00	7,481.10	7,501.81	7,481.10	17.59	17.43	-0.57	5.00	436.00	101.00	66.05	34.95	2.890		
1,000 1,781 1,000 1,781 1,000 1,781 1,000 1,81 1,810 1,800 1,900 1,900 1,900 1,900 1,901 1,901 1,900	7,600.00	7,581.10	7,601.81	7,581.10	17.77	17.61	-0.57	5.00	436.00	101.00	65.69	35.32	2.860	,	
1,000 7,891.0 7,991.0 7,991.0 1,000	7,700.00	7,681,10	7,701,81	7,681.10	17.96	17.81	-0.57	5.00	436.00	101.00	65.31	35.70	2.829		
	7,800.00	7,781.10	7,801.81	7,781.10	18.15	18,00	-0.57	5.00	436,00	101.00	64.92	36.09	2.799		
8.100.00 8.081.10 8.101.81 8.081.10 18.75 18.62 - 4.57 5.00 430.00 101.00 63.70 37.31 2.707 8.200.00 8.11.01 8.001.81 8.181.10 18.06 18.44 - 4.57 5.00 430.00 101.00 62.37 37.74 2.877 8.400.00 8.281.10 8.01.11 8.081.10 18.38 19.06 - 0.57 5.00 430.00 101.00 62.39 38.61 2.616 8.400.00 8.281.10 8.501.11 8.581.10 18.38 19.20 4.57 5.00 430.00 101.00 62.39 38.61 2.616 8.400.00 8.281.10 8.501.11 8.581.10 18.04 19.74 0.57 5.00 430.00 101.00 62.39 38.61 2.616 8.400.00 8.281.10 8.501.11 8.581.10 18.04 19.74 0.57 5.00 430.00 101.00 62.39 38.61 2.616 8.400.00 8.281.10 8.081.11 8.581.10 18.04 19.74 0.57 5.00 430.00 101.00 61.04 38.32 2.655 8.400.00 8.281.10 8.081.11 8.581.10 18.04 19.74 0.57 5.00 430.00 101.00 61.04 38.32 2.655 8.400.00 8.281.10 8.081.11 8.581.10 20.10 19.04 19.01 19															
1	8,008.00	7,981.10	8,001.81	7,981.10	18.55	18.41	-0.57	5.00	436.00	101.00	64.11	36.89	2.738		
1	8.100.00	8.081.10	8.101.81	8.081.10	18.75	18.62	-0.57	5.00	436.00	101.00	63.70	37.31	2.707		
8,200 0 8,281 0 8,00 8 10 8,00 8 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10															
8,800.00 8,881.00 8,891.10 8,901.81 9,901.10 19.62 19.51 9.57 5.00 438.00 101.00 61.94 33.07 2,555 8,800.00 8,881.00 8,701.81 8,561.10 20.07 19.98 9.57 5.00 438.00 101.00 61.01 39.99 2,528 8,800.00 8,781.00 8,801.81 8,781.10 20.31 20.22 0.57 5.00 438.00 101.00 60.54 40.47 2,496 8,900.00 8,881.00 8,901.81 8,881.10 20.35 20.46 -0.57 5.00 438.00 101.00 60.54 40.47 2,496 8,900.00 8,881.00 9,001.81 8,881.10 20.79 20.70 9.57 5.00 438.00 101.00 59.57 41.44 2,438 9,100.00 9,881.00 9,001.81 8,881.10 20.79 20.70 9.57 5.00 438.00 101.00 59.57 41.44 2,438 9,100.00 9,881.10 9,001.81 9,801.10 21.03 20.65 0.45 0.57 5.00 438.00 101.00 59.57 41.44 2,438 9,100.00 9,881.10 9,001.81 9,801.10 21.03 20.65 0.45 0.57 5.00 438.00 101.00 59.57 44.54 2,308 9,300.00 9,881.10 9,001.81 9,801.10 21.58 21.46 0.57 5.00 438.00 101.00 59.57 42.94 2,332 9,300.00 9,881.10 9,001.81 9,301.10 21.58 21.46 0.57 5.00 438.00 101.00 59.07 42.94 2,332 9,500.00 9,881.10 9,001.81 9,381.10 22.04 21.88 0.57 5.00 438.00 101.00 59.57 42.94 2,332 9,500.00 9,881.10 9,001.81 9,881.10 22.04 21.88 0.57 5.00 438.00 101.00 57.55 43.45 2.324 9,500.00 9,881.10 9,001.81 9,881.10 22.04 21.89 0.57 5.00 438.00 101.00 57.55 43.45 2.324 9,500.00 9,881.10 9,001.81 9,881.10 22.04 21.89 0.57 5.00 438.00 101.00 57.55 43.45 2.324 9,500.00 9,881.10 9,001.81 9,881.10 22.04 21.89 0.57 5.00 438.00 101.00 55.51 44.50 2.270 9,500.00 9,881.10 9,001.81 9,881.10 22.04 22.83 22.78 0.57 5.00 438.00 101.00 55.54 44.50 2.277 9,500.00 9,881.10 9,001.81 9,881.10 22.04 22.83 22.78 0.57 5.00 438.00 101.00 55.44 45.59 2.217 9,500.00 9,881.10 1,001.81 10,001.															
8,800.00 8,381.10 8,01.81 8,581.10 20.07 19.08 19.74 0.57 5.00 438.00 101.00 61.48 39.53 2,555 8,700.00 8,681.10 8,701.81 8,681.10 20.07 19.08 0.57 5.00 438.00 101.00 61.01 39.09 2,258 8,800.00 8,881.10 8,801.81 8,781.10 20.55 20.46 0.577 5.00 438.00 101.00 60.06 4 40.47 2,406 8,900.00 8,881.10 8,901.81 8,881.10 20.55 20.46 0.577 5.00 438.00 101.00 60.06 4 40.47 2,406 8,900.00 1,000 8,881.10 8,901.81 8,881.10 20.55 20.46 0.577 5.00 438.00 101.00 60.06 4 40.47 2,406 8,900.00 1,000 8,881.10 8,901.81 9,801.10 20.55 20.46 0.577 5.00 438.00 101.00 60.06 4.095 2.497 1,000.00 8,881.10 8,901.81 9,801.10 21.03 20.55 20.46 0.577 5.00 438.00 101.00 59.57 41,93 2.409 1,000.00 8,891.10 9,001.81 9,081.10 21.03 20.55 20.46 0.577 5.00 438.00 101.00 59.57 41,93 2.409 1,000.00 9,181.10 9,101.81 9,081.10 21.03 20.55 20.40 0.577 5.00 438.00 101.00 59.57 41,93 2.409 1,000.00 9,181.10 9,101.81 9,081.10 21.03 20.55 20.40 0.577 5.00 438.00 101.00 59.57 44.93 2.300 1,000.00 9,181.10 9,101.81 9,381.10 21.03 20.55 20.40 0.577 5.00 438.00 101.00 59.57 42.43 2.300 1,000.00 9,181.10 9,101.81 9,381.10 21.03 20.50 20.57 5.00 438.00 101.00 59.57 42.43 2.300 1,000.00 9,181.10 9,101.81 9,381.10 21.03 20.00 1,0		8,381.10	8,401.81		19.39	19.28	-0.57	5.00	435.00	101.00	62.39	38.61	2.616		
1,000 1,00	8,500.00	8,481.10	8,501,81	8,481.10	19.62	19.51	-0.57	5.00	436.00	101,00	61.94	39.07	2.585		
1,000 1,00	8 800 00	8 581 10	8 601 B1	8 581 1A	10.84	10 74	"O 57	5.00	438.00	101.00	61.49	30 52	2 555		
1,000 0,00															
1,000 1,00															
9,100 0 9,881.10 9,101.81 9,81.10 21.03 20.95 0.97 5.00 436.00 101.00 5907 41.93 2.409 9,200.00 9,381.10 9,301.81 9,181.10 21.83 21.21 0.957 5.00 436.00 101.00 5807 42.94 2.302 9,400.00 9,381.10 9,301.81 9,381.10 21.79 21.72 0.957 5.00 436.00 101.00 580.7 42.94 2.302 9,400.00 9,381.10 9,301.81 9,381.10 22.04 21.83 0.957 5.00 436.00 101.00 590.7 42.94 2.302 9,400.00 9,381.10 9,301.81 9,481.10 22.04 21.98 0.957 5.00 436.00 101.00 57.55 43.45 2.324 9,500.00 9,381.10 9,301.81 9,481.10 22.04 21.98 0.957 5.00 436.00 101.00 57.03 43.97 2.287 9,500.00 9,381.10 9,301.81 9,481.10 22.05 22.24 0.957 5.00 436.00 101.00 55.01 44.50 2.270 9,500.00 9,381.10 9,301.81 9,481.10 22.57 22.51 0.957 5.00 436.00 101.00 55.98 45.00 2.270 9,500.00 9,381.10 9,301.81 9,881.10 22.30 22.74 0.957 5.00 436.00 101.00 55.94 45.00 2.270 9,500.00 9,381.10 9,301.81 9,881.10 22.30 22.75 0.957 5.00 436.00 101.00 55.44 45.58 2.217 10,000.00 9,381.10 10,001.81 9,881.10 23.37 23.33 0.957 5.00 436.00 101.00 55.44 45.58 2.171 10,000.00 10,881.10 10,101.81 10,081.10 23.64 23.60 -0.57 5.00 436.00 101.00 53.26 46.10 2.191 10,000.00 10,881.10 10,101.81 10,081.10 23.92 23.88 0.957 5.00 436.00 101.00 53.26 46.10 2.191 10,000.00 10,881.10 10,482.20 10,468.96 24.75 24.68 0.957 5.00 436.00 101.00 53.26 47.75 2.115 10,000.00 10,881.10 10,488.20 10,468.96 24.75 24.68 0.957 5.00 436.00 101.00 53.26 47.75 2.115 10,000.00 10,881.10 10,488.20 10,468.96 24.75 24.68 0.957 5.00 436.00 101.00 53.26 47.75 2.115 10,000.00 10,881.10 10,488.20 10,468.96 24.75 24.68 0.957 5.00 436.00 101.00 53.26 47.75 2.115 10,000.00 10,881.10 10,488.20 10,468.98 24.75 24.68 0.957 5.00 436.00 101.00 53.26 44.44 4.957 2.115 10,000.00 10,881.10 10,488.20 10,468.98 24.75 24.68 0.957 8.89 435.96 105.51 56.23 49.20 2.141 10,000.00 10,881.10 10,488.20 10,488.83 10,489.39 25.04 24.91 24.16 2.957 5.00 436.00 101.00 53.26 44.98 2.149 2.1						20.46			436.00		60.06				
1,000 1,00	9,000.00	8,981.10	9,001.81	8,981.10	20.79	20.70	-0.57	5.00	436.00	101.00	59.57	41.44	2.438		
1,000 1,00				0.00440		20.05	0.53	* **	400.00	404.00	co e2	44.00			
1,000.00 9,281 10 9,301 81 8,281 10 21,53 21,46 -0.57 5.00 436.00 101.00 57.55 43.45 2.324 9,500.00 9,381 10 9,501 9,401 0 21,79 21,72 -0.57 5.00 436.00 101.00 57.55 43.45 2.324 9,500.00 9,881 10 9,501 9,481 0 22.04 21.98 -0.57 5.00 436.00 101.00 57.03 43.97 2.270 9,500.00 9,881 0 9,701 81 9,881 0 22.57 22.51 -0.57 5.00 436.00 101.00 55.51 44.50 2.270 9,500.00 9,701 9,701 9,801 10 9,701															
9,400.0 9,381.10 9,401.81 9,381.10 21.79 21.72 -0.57 5.00 436.00 101.00 57.55 43.45 2.324 9,500.0 9,811.0 9,501.81 9,481.10 22.04 21.98 -0.57 5.00 436.00 101.00 57.03 43.97 2.297 9,500.0 9,811.0 9,501.81 9,581.10 22.30 22.24 -0.57 5.00 436.00 101.00 55.51 44.50 2.243 9,500.0 9,781.10 9,801.81 9,891.10 22.80 22.76 -0.57 5.00 436.00 101.00 55.59 45.03 2.243 9,500.0 9,781.10 9,801.81 9,891.10 22.80 22.76 -0.57 5.00 436.00 101.00 55.44 45.56 2.217 9,500.0 9,801.10 10.00 10.				-											
9,500,00 9,481,10 9,501,81 9,481,10 22.04 21.98 -0.57 5.00 436,00 101,00 57.03 43.97 2.297 9,600,00 9,881,10 9,601,81 9,581,10 22.30 22.24 -0.57 5.00 436,00 101,00 56.51 44.50 2.270 9,700,00 9,881,10 9,701,10 9,801,81 9,781,10 22.83 22.78 -0.57 5.00 436,00 101,00 55.99 45.03 2.243 9,600,00 9,781,10 9,901,81 9,881,10 22.83 22.78 -0.57 5.00 436,00 101,00 55.44 45.59 2.217 9,600,00 9,881,10 9,901,81 9,881,10 23.10 23.06 -0.57 5.00 436,00 101,00 54.90 46.10 2.191 10,000,00 9,881,10 10,001,81 10,081,10 23.83 23.33 -0.57 5.00 436,00 101,00 54.90 46.10 2.191 10,000,00 10,081,10 10,101,81 10,1081,10 23.84 23.80 -0.57 5.00 436,00 101,00 53.26 47.75 2.115 10,300,00 10,81,10 10,301,81 10,181,10 23.92 23.88 -0.57 5.00 436,00 101,00 53.26 47.75 2.115 10,300,00 10,81,10 10,301,81 10,281,10 24.47 24.44 40.57 5.00 436,00 101,00 52.70 48.31 2.991 10,500,00 10,481,10 10,488,20 10,468,96 24.75 24.68 40.57 8.80 435,96 105.51 56.23 49.28 2.141 10,500,00 10,881,10 10,681,33 10,549,39 25.04 24.91 40.56 24.01 435,82 124.13 74.74 49.39 2.513 10,500,00 10,881,10 10,681,33 10,549,39 25.04 24.91 40.56 48.31 435,60 105.51 56.23 49.28 2.141 10,500,00 10,881,10 10,681,33 10,549,39 25.04 24.91 40.56 48.31 435,60 105.51 106.84 49.27 3.169 10,500,00 10,781,10 10,733,04 10,683,35 25.61 25.30 40.55 78.25 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 10,881,10 10,681,33 10,776,06 28.19 25.57 40.54 134.30 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 25.90 25.45 40.55 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 25.90 25.45 40.55 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 25.90 25.45 40.55 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 25.90 25.45 40.55 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 25.90 25.45 40.55 110,62 435,03 25.34 204.63 48.71 5.201 11,000,00 11,881,10 10,974,43 10,374,83 27.36 25.93 40.54 27.42 433,03 25.94 43.84 48.90 9.465 11,300,00 11,381,10															
9,700.00 9,881.10 9,701.81 9,801.10 22.57 22.51 -0.57 5.00 438.00 101.00 55.98 45.03 2.243 9,800.00 9,781.10 9,801.81 9,781.10 22.83 22.78 -0.57 5.00 436.00 101.00 55.44 45.56 2.217 9,000.00 9,881.10 9,001.81 9,881.10 23.05 23.05 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.00 10,081.10 10,001.81 10,081.10 23.84 23.80 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.01 10,001.81 10,001.81 10,081.10 23.84 23.80 -0.57 5.00 436.00 101.00 55.36 47.75 2.115 10,100.00 10,101.10 10,201.81 10,101.10 23.84 23.80 -0.57 5.00 436.00 101.00 53.36 47.75 2.115 10,200.00 10,281.10 10,301.81 10,281.10 24.19 24.16 -0.57 5.00 438.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,401.81 10,381.10 24.17 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,408.20 10,468.96 24.75 24.68 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,500.00 10,581.10 10,468.20 10,468.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,600.00 10,581.10 10,568.13 10,493.99 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,881.10 10,733.62 10,583.33 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,733.62 10,583.33 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,981.10 10,733.62 10,583.33 25.60 25.47 25.77 -0.54 143.05 434.73 314.95 266.52 48.31 65.03 11,100.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.55 22.24 24.11 43.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.54 23.03 433.00 33.99 48.59 48.50 48.09 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.54 23.03 433.00 25.33 48.50 48.50 48.50 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 -0.55 27.72 25.77 -0.54 23.03 433.00 25.33 48.50 48.50 48.50 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 25.77 -0.54 23.03 43.30 25.90 25.48 48.30 48.50 4															
9,700.00 9,881.10 9,701.81 9,801.10 22.57 22.51 -0.57 5.00 438.00 101.00 55.98 45.03 2.243 9,800.00 9,781.10 9,801.81 9,781.10 22.83 22.78 -0.57 5.00 436.00 101.00 55.44 45.56 2.217 9,000.00 9,881.10 9,001.81 9,881.10 23.05 23.05 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.00 10,081.10 10,001.81 10,081.10 23.84 23.80 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.01 10,001.81 10,001.81 10,081.10 23.84 23.80 -0.57 5.00 436.00 101.00 55.36 47.75 2.115 10,100.00 10,101.10 10,201.81 10,101.10 23.84 23.80 -0.57 5.00 436.00 101.00 53.36 47.75 2.115 10,200.00 10,281.10 10,301.81 10,281.10 24.19 24.16 -0.57 5.00 438.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,401.81 10,381.10 24.17 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,408.20 10,468.96 24.75 24.68 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,500.00 10,581.10 10,468.20 10,468.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,600.00 10,581.10 10,568.13 10,493.99 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,881.10 10,733.62 10,583.33 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,733.62 10,583.33 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,981.10 10,733.62 10,583.33 25.60 25.47 25.77 -0.54 143.05 434.73 314.95 266.52 48.31 65.03 11,100.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.55 22.24 24.11 43.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.54 23.03 433.00 33.99 48.59 48.50 48.09 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 -0.54 23.03 433.00 25.33 48.50 48.50 48.50 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 -0.55 27.72 25.77 -0.54 23.03 433.00 25.33 48.50 48.50 48.50 11.107 11,500.00 11,081.10 10,974.43 10,474.83 27.36 25.90 25.47 25.77 -0.54 23.03 43.30 25.90 25.48 48.30 48.50 4															
9,800,00 9,781,10 9,801,81 9,781,10 22.83 22.78 -0.57 5.00 436.00 101.00 55.44 45.58 2.217 9,900.00 9,881,10 10,001.81 9,901.81 9,881,10 23.10 23.05 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.00 9,981,10 10,001.81 9,981,10 23.37 23.33 -0.57 5.00 436.00 101.00 54.30 46.64 2.195 10,100.00 10,981,10 10,101.81 10,1081,10 23.92 23.88 -0.57 5.00 436.00 101.00 53.26 47.75 2.115 10,300.00 10,281,10 10,301.81 10,281,10 24.19 24.16 -0.57 5.00 436.00 101.00 53.26 47.75 2.115 10,300.00 10,381,10 10,481,11 10,381,10 24.19 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381,10 10,486.20 10,468.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,500.00 10,881,10 10,486.20 10,468.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,600.00 10,881,10 10,684.33 10,241.56 25.32 25.12 -0.56 48.31 435.96 105.51 56.23 49.28 2.141 10,600.00 10,881,10 10,686.33 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,881,10 10,713.04 10,883.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881,10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.4 264.63 48.71 5.201 11,100.00 10,881,10 10,773.64 10,883.35 25.61 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,181.10 10,911.14 10,835.12 28.77 25.77 -0.54 20.26 434.18 456.41 40.83 48.07 9.495 11,100.00 11,181.10 10,911.14 10,835.12 28.77 25.77 -0.54 20.26 433.03 253.34 204.63 48.71 5.945 11,100.00 11,181.10 10,911.14 10,835.12 28.77 25.77 -0.54 20.26 431.04 433.72 614.82 566.83 47.99 12.811 11,500.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 274.21 433.52 688.4 650.39 48.09 11.007 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 274.21 433.52 688.4 650.39 48.09 11.007 11,400.00 11,580.76 11,024.76 10,901.53 27.96 26.00 -0.54 274.21 433.42 760.79 25.68 48.11 10.2476 10.901.53 27.96 26.00 -0.54 274.21 433.42 760.79 25.68 48.11 10.2476 10.901.53 27.96 26.00 -0.54 274.21 433.42 760.79 25.59 48.11 16.226 11,550.00 11,580.76 11,024.76 10,901.53 27.96 26.00 -0.54 274.21 433.42															
9,900.00 9,881.00 9,981.10 9,901.81 9,881.10 23.10 23.05 -0.57 5.00 436.00 101.00 54.90 46.10 2.191 10,000.00 9,981.10 10,001.81 9,981.10 23.97 23.33 -0.57 5.00 436.00 101.00 54.36 46.60 2.165 10,100.00 10,181.10 10,101.81 10 10,201.81 10,1081.10 23.64 23.60 -0.57 5.00 436.00 101.00 52.66 47.75 2.115 10,300.00 10,181.10 10,201.81 10,181.10 24.19 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,401.81 10,381.10 24.47 24.44 4.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,401.81 10,381.10 24.47 24.44 4.57 5.00 436.00 101.00 52.70 48.31 2.091 10,500.00 10,581.10 10,568.13 10,468.96 24.75 24.68 -0.57 8.80 436.96 105.51 56.23 48.28 2.141 10,600.00 10,581.10 10,568.13 10,468.96 24.75 24.68 -0.57 8.80 436.96 105.51 56.23 48.28 2.141 10,600.00 10,581.10 10,568.13 10,468.95 24.75 24.68 -0.57 8.80 43.50 10.55 156.23 48.28 2.141 10,600.00 10,581.10 10,568.13 10,468.95 24.75 24.68 -0.57 8.80 43.50 10.51 10.68.4 49.27 3.169 10,800.00 10,581.10 10,568.13 10,468.95 25.32 25.12 4.56 48.31 435.60 156.11 106.84 49.27 3.169 10,800.00 10,881.10 10,730.40 10,883.35 25.61 23.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,730.40 10,883.35 25.61 23.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 11,000.00 10,881.10 10,871.87 10,899.41 26.48 25.58 40.55 110.62 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,874.43 10,787.83 25.90 25.45 40.55 110.62 434.73 314.95 266.52 48.43 6.503 11,100.00 11,381.10 10,974.43 10,787.83 27.36 25.93 40.54 27.41 433.52 898.44 40.83 48.07 9.485 11,100.00 11,381.10 10,974.43 10,787.83 27.36 25.93 40.54 27.41 433.52 898.44 40.83 48.07 9.485 11,150.00 11,381.70 10,974.43 10,787.83 27.85 26.00 40.54 27.42 433.52 898.44 40.83 48.90 48.05 11.107 11,400.00 11,381.10 10,974.43 10,787.83 27.85 26.00 40.54 27.42 433.52 898.44 40.03 48.00 48.05 11.107 11,400.00 11,381.10 10,974.43 10,787.83 27.85 26.00 40.54 27.42 433.52 898.44 433.72 666.83 47.99 12.811 11,500.00 11,381.70 11,000.00 10,888.87 27.70 26.00 40.54 27.42 433.52 898.44 433.72 70.00 4															
10,00,000 9,981.10 10,001.81 9,981.10 23 37 23 33 -0.57 5.00 436.00 101.00 54.36 46.64 2.165 10,100,000 10,081.10 10,101.81 10,081.10 23.64 23.60 -0.57 5.00 436.00 101.00 53.81 47.19 2.140 10,200,00 10,181.10 10,201.81 10,181.10 23.92 23.88 -0.57 5.00 436.00 101.00 53.26 47.75 2.115 10,300.00 10,381.10 10,401.81 10,281.10 24.19 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,381.10 10,401.81 10,381.10 24.19 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,500.00 10,481.10 10,468.20 10,468.98 24.75 24.68 -0.57 5.00 436.00 101.00 52.14 48.67 2.067 SF 10,500.00 10,581.10 10,568.13 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,881.10 10,644.33 10,621.56 25.32 25.12 -0.56 48.31 43.56 155.11 106.84 49.27 3.169 10,500.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.20 19.80 19.80 19.50 19.80 14.077 10,900.00 10,881.10 10,573.62 10,734.53 25.90 25.45 -0.55 110.62 435.20 19.80 19.50 19.80 19.80 19.50 19.80 11.10 10.81 10 10,811.12 10,836.12 26.77 25.87 -0.54 143.05 43.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,811.41 10,836.12 26.77 25.87 -0.54 223.80 433.02 13.38 45.94 48.07 9.495 11,100.00 11,281.10 10,911.44 10,836.12 26.77 25.87 -0.54 223.84 433.12 18.80 15.31 48.02 14.79 12.811 11,500.00 11,381.10 10,911.44 10,836.12 26.77 25.87 -0.54 223.84 433.72 614.82 568 3 47.99 12.811 11,500.00 11,381.10 10,911.44 10,836.12 26.77 25.87 -0.54 223.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,381.00 10,913.49 28.10 26.06 -0.01 295.48 433.32 780.70 32.56 48.11 16.226 11,500.00 11,580.76 11,024.76 10,001.53 27.86 26.00 -0.54 274.21 433.52 789.3 66.30 48.03 14.771 11,500.00 11,580.76 11,024.76 10,001.53 27.86 26.00 -0.54 274.21 433.52 789.3 66.30 48.03 14.771 11,500.00 11,580.76 11,024.76 10,001.53 27.86 26.00 -0.54 274.21 433.52 789.3 66.30 48.03 14.771 11,500.00 11,580.76 11,024.76 10,001.53 27.86 26.00 -0.54 274.21 433.52 789.3 66.30 48.03 14.771 11,500.00 11,580.79 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 789.3 66.30 48.0															
10,00,00 10,081,10 10,101,81 10,081,10 23,64 23,60 -0.57 5.00 436,00 101,00 53,81 47,19 2,140 10,200,00 10,181,10 10,201,81 10,181,10 23,92 23,88 -0.57 5.00 436,00 101,00 53,26 47,75 2,115 10,300,00 10,281,10 10,301,81 10,281,10 24,19 24,16 -0.57 5.00 436,00 101,00 52,70 48,31 2,091 10,400,00 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,401,81 10,381,10 10,408,20 10,485,60 24,75 24,68 -0.57 8,80 435,96 105,51 56,23 49,28 2,141 10,500,00 10,581,10 10,568,13 10,549,39 25,04 24,91 -0.56 24,01 435,82 124,13 74,74 49,39 2.513 10,700,00 10,881,10 10,544,33 10,521,56 23,32 25,12 -0.56 48,31 435,60 156,11 106,84 49,27 3,169 10,800,00 10,781,10 10,713,04 10,883,35 25,61 25,30 -0.55 78,25 435,32 199,80 150,79 49,01 4,077 10,900,00 10,881,10 10,733,62 10,734,53 25,90 25,45 -0.55 110,62 435,03 253,34 204,63 48,71 5,201 11,000,00 10,981,10 10,826,33 10,776,06 26,19 25,57 -0.54 143,06 434,73 314,95 266,52 48,43 6,503 11,000,00 11,081,10 10,971,87 10,809,41 26,48 25,58 -0.54 174,04 434,44 38,07 34,86 48,21 7,945 11,300,00 11,281,10 10,970,43 10,874,83 27,36 25,93 -0.54 252,84 433,72 614,82 566,82 47,99 12,811 11,500,00 11,281,10 10,974,43 10,874,83 27,36 25,93 -0.54 274,21 433,52 698,44 650,39 48,05 11,107 11,600,00 11,500,00 11,500,00 10,888,87 27,66 26,00 -0.54 274,21 433,52 698,44 650,39 48,05 14,537 11,5280 11,530,00 11,531,07 11,010,00 10,888,87 27,66 26,00 -0.54 274,21 433,52 698,44 650,39 48,05 14,537 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 10,501,34 28,10 28,10 28,10 29,10 295,48 433,32 780,70 732,58 48,11 16,226 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 10,551,3 27,86 26,00 -0.54 274,21 433,52 790,70 732,58 48,11 16,226 11,550,00 11,550,00 11,550,00 11,550,00 11,550,00 10,551,3 27,86 26,00 -0.54 274,21 433,52 790,70 732,58 48,11 16,226 11,550,00 11,550,00 11,550,00 11,550,00 10,551,3 27,86 26,00 -0.54 274,21 433,52 790,70 732,58 48,11 16,226 11,550,00 11,550,00 11,550,00 11,550,00 10														*	
10,200.00 10,181.10 10,201.81 10,181.10 23.92 23.88 -0.57 5.00 436.00 101.00 53.26 47.75 2.115 10,300.00 10,281.10 10,301.81 10,281.10 24.19 24.16 -0.57 5.00 436.00 101.00 52.70 48.31 2.091 10,400.00 10,400.00 10,400.00 10,481.10 10,489.80 24.77 24.44 -0.57 5.00 436.00 101.00 52.14 48.87 2.067 SF 10,500.00 10,481.10 10,488.20 10,488.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10.600.00 10,581.10 10,588.13 10,549.39 25.04 24.91 -0.56 24.01 43.582 124.13 74.74 49.39 2.513 10,700.00 10,881.10 10,713.04 10,883.35 25.61 25.32 25.12 -0.56 48.31 43.56 156.11 106.84 49.27 3.169 10.600.00 10,781.10 10,773.02 10,730.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,773.02 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,881.10 10,826.33 10,776.06 26.19 25.57 -0.54 143.05 437.3 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,971.43 10,893.12 26.77 25.77 -0.54 202.02 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,911.14 10,395.12 26.77 25.77 -0.54 202.02 434.18 456.41 408.34 48.07 9.495 11,300.00 11,381.10 10,974.43 10,374.83 27.36 25.93 -0.54 27.21 433.52 698.44 650.39 48.50 11.107 11,600.00 11,381.10 10,950.00 10,888.87 27.66 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.00 10,888.87 27.66 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.00 10,588.87 27.66 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.00 10,500.53 27.96 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.00 10,500.53 27.96 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.00 11,500.00 10,500.53 27.96 26.00 -0.54 27.421 433.52 698.44 650.39 48.05 14.537 11,500.00 11,50	10,000.00	-,	,	-,			/			101.00	000		200		
10,300,00 10,281,10 10,301,81 10,281,10 24,19 24,16 -0.57 5.00 436,00 101.00 52,70 48.31 2.091 10,400,00 10,381,10 10,401,81 10,381,10 24,47 24,44 -0.57 5.00 436,00 101.00 52,14 48.87 2.067 SF 10,500,00 10,481,10 10,485,20 10,468,96 24,75 24,68 -0.57 8.80 435,96 105,51 56,23 49,28 2,141 10,600,00 10,581,10 10,568,13 10,549,39 25,04 24,91 -0.56 24,01 435,82 124,13 74,74 49.39 2,513 10,700,00 10,681,10 10,644,33 10,549,39 25,04 24,91 -0.56 48.31 435,60 156,11 10,684 49.27 3,169 10,800,00 10,781,10 10,713,04 10,883,35 25,51 25,30 -0.55 78,25 435,32 199,80 150,79 49.01 4,077 10,900,00 10,881,10 10,713,04 10,883,35 25,50 25,45 -0.55 110,62 435,03 253,34 204,63 48.71 5,201 11,000,00 10,881,10 10,826,33 10,776,06 26.19 25,57 -0.54 143,05 434,73 314,95 266,52 48.43 6,503 11,100,00 11,081,10 10,871,87 10,809,41 26,48 25,58 -0.54 174,04 434,44 383,07 334,86 48.21 7,945 11,200,00 11,181,10 10,911,14 10,836,12 28,77 25,77 -0.54 202,82 434,18 456,641 408,34 48,07 9,495 11,200,00 11,381,10 10,974,43 10,874,83 27,36 25,93 -0.54 274,21 433,52 698,44 650,39 48,05 14,537 11,500,00 11,481,10 10,974,43 10,874,83 27,36 25,93 -0.54 274,21 433,52 698,44 650,39 48,05 14,537 11,500,00 11,681,10 10,000,00 10,888,87 27,66 26,00 -0.54 274,21 433,52 709,32 661,30 48,02 14,771 11,500,00 11,500,76 11,620,79 11,050,00 10,895,13 27,81 26,03 -0.01 284,47 433,42 74,04 692,37 48,08 15,399 11,600,00 11,627,79 11,050,00 10,913,49 28,10 26,14 -0.01 317,71 433,12 855,08 806,94 48,13 17,764															
10,400.00 10,381.10 10,401.81 10,401.81 10,408.96 24.75 24.68 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,600.00 10,581.10 10,568.13 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,681.10 10,543.31 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,781.10 10,713.04 10,683.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,681.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,826.33 10,776.06 26.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,871.87 10,809.41 26.48 25.68 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,880.54 27.07 25.87 -0.54 233.03 433.90 533.98 485.90 48.08 11.107 11,400.00 11,281.10 10,974.43 10,874.83 27.36 25.93 -0.54 274.21 433.52 698.44 650.39 48.05 11.507 11,512.80 11,493.90 11,000.00 10,888.87 27.65 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.65 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,600.00 11,607.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978															
10,500.00 10,481.10 10,486.20 10,468.96 24.75 24.66 -0.57 8.80 435.96 105.51 56.23 49.28 2.141 10,500.00 10,581.10 10,568.13 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,681.10 10,644.33 10,621.56 25.32 25.12 -0.56 48.31 435.60 156.11 106.84 49.27 3.169 10,500.00 10,781.10 10,713.04 10,683.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,500.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,871.87 10,809.41 26.48 25.58 -0.54 174.04 434.44 383.07 344.86 48.21 7.945 11,200.00 11,081.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,914.43 10,874.83 27.36 25.93 -0.54 233.03 433.90 533.98 485.50 48.08 11.107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 225.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 10,974.43 10,874.83 27.36 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,500.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 815.50 806.94 48.13 17.764															
10,800.00 10,581.10 10,568.13 10,549.39 25.04 24.91 -0.56 24.01 435.82 124.13 74.74 49.39 2.513 10,700.00 10,681.10 10,644.33 10,621.56 25.32 25.12 -0.56 48.31 435.60 156.11 106.84 49.27 3.169 10,800.00 10,781.10 10,773.02 10,730.04 10,883.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,826.33 10,776.06 26.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,871.87 10,809.41 26.48 25.68 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 10,974.43 10,874.83 27.36 25.93 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,512.															
10,700.00 10,681.70 10,644.33 10,621.56 25.32 25.12 -0.56 48.31 435.60 156.11 106.84 49.27 3.169 10,800.00 10,781.10 10,773.04 10,683.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,826.33 10,776.06 28.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,671.87 10,809.41 26.48 25.58 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 28.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,500.00 11,500.00 11,500.76 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 15.399 11,600.00 11,500.76 11,004.76 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,629.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 10,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 10,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 10,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 10,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 10,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764	.0,000.00	.0, .01.10	.0, ,00.20	, 0, .00,20	÷	_ 1,00	0.07	5.55			30.20	74.20			
10,800.00 10,781.10 10,713.04 10,883.35 25.61 25.30 -0.55 78.25 435.32 199.80 150.79 49.01 4.077 10,900.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,826.33 10,776.06 26.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,871.87 10,809.41 26.48 25.68 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 28.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 233.03 433.90 533.98 485.90 48.08 11.107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,550.00 11,580.76 11,024.76 10,905.53 27.96 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,580.76 11,024.76 10,905.53 27.96 26.06 -0.01 295.48 433.92 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,7764				-											
10,900.00 10,881.10 10,773.62 10,734.53 25.90 25.45 -0.55 110.62 435.03 253.34 204.63 48.71 5.201 11,000.00 10,981.10 10,826.33 10,776.06 26.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,550.00 11,580.76 11,002.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 698.44 650.39 48.08 15.399 11,600.00 11,580.76 11,002.76 10,901.53 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,600.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,7764															
11,000.00 10,981.10 10,826.33 10,776.06 28.19 25.57 -0.54 143.05 434.73 314.95 266.52 48.43 6.503 11,100.00 11,081.10 10,871.87 10,809.41 26.48 25.58 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 233.03 433.90 533.98 485.90 48.08 11.107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.771 11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
11,100.00 11,081.10 10,871.87 10,809.41 26.48 25.68 -0.54 174.04 434.44 383.07 334.86 48.21 7.945 11,200.00 11,181.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 203.00 433.90 533.98 485.90 48.08 11.107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,512.00 11,512.00 10,513.49 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,512.00 11,512.00 10,513.49 28.10 26.14 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,500.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764															
11,200.00 11,181.10 10,911.14 10,836.12 26.77 25.77 -0.54 202.82 434.18 456.41 408.34 48.07 9.495 11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 233.03 433.90 533.98 485.90 48.08 11.107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.65 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 74.04 6692.37 48.08 15.399 11,650.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.92 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 815.08 806.94 48.13 17.764	(1,000.00	10,981.10	10,020.33	10,170.00	20.19	43.37	-0.54	143.03	₩34,/3	314,53	200.32	40.43	0.003		
11,300.00 11,281.10 10,950.00 10,860.54 27.07 25.87 -0.54 233.03 433.90 533.98 485.90 48.08 11,107 11,400.00 11,381.10 10,974.43 10,874.83 27.36 25.93 -0.54 252.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.771 11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,600.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14	11,100.00	11,081,10	10,871.87	10,809.41	26.48	25.68	-0.54	174.04	434.44	383.07	334.86	48.21	7.945		
11,400.00 11,381.10 10,974.43 10,874.83 27,36 25.93 -0.54 25.84 433.72 614.82 566.83 47.99 12.811 11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11.000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,600.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,550.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764			10,911.14	10,836.12	26.77	25.77	-0.54		434.18	456.41	408.34	48.07	9.495		
11,500.00 11,481.10 11,000.00 10,888.87 27.66 26.00 -0.54 274.21 433.52 698.44 650.39 48.05 14.537 11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,600.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764	11,300.00	11,281.10	10,950.00												
11,512.80 11,493.90 11,000.00 10,888.87 27.70 26.00 -0.54 274.21 433.52 709.32 661.30 48.02 14.771 11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15.399 11,600.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,764															
11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15,399 11,650.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764	11,500.00	11,481.10	11,000.00	10,888.87	27,66	26.00	-0.54	274.21	433.52	698.44	650.39	48.05	14.537		
11,550.00 11,531.07 11,012.02 10,895.13 27.81 26.03 -0.01 284.47 433.42 740.46 692.37 48.08 15,399 11,650.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764	11 512 80	11 403 00	11 000 00	10 888 87	27 70	26.00	-0.54	274 21	433 52	709.32	661.30	48 02	14 771		
11,600.00 11,580.76 11,024.76 10,901.53 27.96 26.06 -0.01 295.48 433.32 780.70 732.58 48.11 16.226 11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764															
11,650.00 11,629.79 11,050.00 10,913.49 28.10 26.14 -0.01 317.71 433.12 819.15 770.90 48.25 16.978 11,770.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764												,			
11,700.00 11,677.79 11,050.00 10,913.49 28.24 26.14 -0.01 317.71 433.12 855.08 806.94 48.13 17.764															
11,750.00 11,724.38 11,066.79 10,920.90 28.37 26.19 0.00 332.78 432.98 888.98 840.82 48.17 18.457															
11,750.00 11,724.38 11,066.79 10,920.90 28.37 26.19 0.00 332.78 432.98 888.98 840.82 48.17 18.457	=					05:5				000.00	045.55				
	11,750.00	11,724.38	11,066.79	10,920.90	28.37	26.19	0.00	332.78	432.98	88,98	840.82	48.17	18.457		

Anticollision Report

Company: Project: Matador Resources Lea County, NM

Reference Site: Site Error: Reference Well: Nina Cortell Fed Com
0.00 usft

Well Error: Reference Wellbore No. 202H 0.00 usft OH

Reference Design:

Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

Well No. 202H Well @ 3837.00usft Well @ 3837.00usft

North Reference:

Survey Calculation Method:

Grid Minimum Curvature

Output errors are at Database

2.00 sigma WellPlanner1

Offset TVD Reference:

WellPlanner1 Offset Datum

Offset Des	sign	Nina Co	ortell Fed (Com - No. 1	122H - O	l - Prelim I	Plan B	, ,, .,				,	Offset Site Error: 0.00 usft
Survey Progr				DGM, 5000 MW		4.7					• * • •	• • • • • • • • • • • • • • • • • • • •	Offset Well Error: 0,00 usfl.
Refero		Offse	fill out the Parties of	Semi Major	to the first of the second	235	100	Salary S.	Dist		19.0	را برور براده و	
Measured	Vertical	Measurod	Vertical	Reference	Offset	Highsido	Offset Wellbon		Between	Between	Minimum	Separation	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(úsft)	Toolface (")	+NI-S (usfi)	+E/-W (usft)	Contres (usft)	Ellipsos (usft)	Separation (usft)	Factor	
\$73 miles		275 M. 4				1.0		4 4 7774			1.70	1	
11,800.00	11,769.22	11,081.81	10,927.14	28.49	26.23	0.00	346.43	432.85	920.58	872.40		19.109	
11,850,00	11,811,97	11,100.00	10,934.23	28.60	26.29	0.00	363.19	432.70	949.77	901.57	48.20	19.706	
11,900.00	11,852:29	11,100,00	10,934.23	28.71	26.29	0.00	363.19	432.70	976.69	928.59	48.10	20.307	
11,950.00	11,889.89	11,129,05	10,944,43	28.81	26.38	0.00	390.39	432.45	1,000.59	952.41	48.18	20.769	
12,000.00	11,924.48	11,150.00	10,950.92	28,90	26.45	0.00	410.30	432.26	1,022.13	973.93	48.20	21:206	
12,050.00	11,955.78	11,150.00	10,950.92	28.99	26.45	0.00	410.30	432.26	1,041.12	993.01	48.12	21.638	
12,180,00	11,983.57	11,178.52	10,958.61	29.08	26.55	0.00	437.86	432.01	1,057.04	1,008.86	48.17	21.942	
12,150.00	12,007.64	11,200.00	10,963,45	29.17	26.63	0.00	458,68	431.82	1,070.40	1,022,20	48.20	22.209	
12,200.00	12,027,79	11,200.00	10,963.45	29.28	26.63	0.00	458.68	431.82	1,081.11	1,032.97	48.15	22.455	
12,250.00	12,043.88	11,229.54	10,988.85	29.40	26.74	0.00	487.72	431.55	1,088.61	1,040.41	48.21	22.582	
12,300.00	12,055.79	11,250.00	10,971.71	29.54	26.82	0.00	507.98	431.36	1,093.49	1,045.24	48.24	22.666	
	,								•				
12,312.80	12,058,15	11,250.00	10,971.71	34.81	26.82	0.00	507.98	431.36	1,094.26	1,046.46	47.79	22.895	
12,337.80	12,062.49	11,250.00	10,971.71	34.82	26.82	0.00	507.98	431,36	1,095.91	1,048.28	47.63	23.008	
12,350.00	12,064.54	11,250.00	10,971.71	34:83	26.82	0.00	507.98	431.36	1,096.85	1,049.29	47.56	23,063	
12,400.00	12,071.29	11,280.93	10,974.66	34.87	26.94	0.00	538.77	431.08	1,099.21	1,051.71	47.50	23.141	
12,450.00	12,075.45	11,300.00	10,975.64	34.90	27,02	0.00	557.81	430,90	1,100.70	1,053.31	47,39	23.229	
12,504.47		11,320.13	10,976.00	34.94	27.10	0.00	577.93	430.72	1,101.05	1,053.76	47.29	23.283	
12,540.06	12,077,00	11,345.67	10,976.00	34.97	27.21	0.00	603.47	430.48	1,101.00	1,053.69	47.31	23.271	
12,600.00	12,077.00	11,405.61	10,976.00	. 35.02	27.48	0.00	663.41	429.93	1,101.00	1,053.57	47.43	23.213	
12,700.00	12,077.00	11,505.61	10,976,00	35.11	27.99	0.00	763.40	429.01	1,101.00	1,053.33	47.68	23.093	
12,800.00	12,077.00	11,605.61	10,976.00	35.21	28.56	0.00	863.40	428.09	1,101.00	1,053.03	47.97	22,950	
12,900.00	12,077.00	11,705.61	10,976.00	35.32	29.19	0.00	963.40	427.17	1,101.00	1,052,69	48.32	22.786	
13,000.00	12,077.00	11,805.61	10,976.00	35.46	29.88	0.00	1,063.39	426,24	1,101.00	1,052.29	48.71	22.602	
13,100.00	12,077.00	11,905.61	10,976.00	35,63	30.62	0.00	1,163.39	425.32	1,101.00	1,051.85	49.15	22.400	
13,200.00	12,077.00	12,005.61	10,976.00	35.86	31.41	0.00	1,263.38	424.40	1,101.00	1,051:37	49.64	22.181	
13,300.00	12,077.00	12,105.61	10,976.00	36.15	32.25	0.00	1,363.38	423.48	1,101.00	1,050.84	50.17	21.946	
10,000.00	14,5111.50		,				-,		.,	.,			
13,400.00	12,077.00	12,205.61	10,976.00	36.55	33.12	0.00	1,463.37	422.56	1,101.00	1,050.26	50.74	21.698	
13,500,00	12,077.00	12,305.61	10,976 00	37.06	34.04	0.00	1,563.37	421.64	1,101.00	1,049,65	51.36	21,439	
13,600.00	12,077.00	12,405.61	10,976.00	37.70	34.99	0.00	1,663.37	420.71	1,101.00	1,048.99	52.01	21.169	
13,700.00	12,077.00	12,505,61	10,976.00	38.43	35.97	0.00	1,763.36	419,79	1,101.00	1,048.30	52.70	20.891	
13,800.00	12,077.00	12,605.61	10,976.00	39.24	36.99	0,00	1,863.36	418.87	1,101.00	1,047.57	53.43	20.605	
40.000.00	40.077.00	40 705 04	46.070.00	40.40	20.63	0.00	1.062.26	447.05		4 040 00	£4.20	20.744	
13,900.00	12,077.00	12,705.61	10,976.00	40.12	38.03	0.00	1,963.35	417,95	1,101.00	1,046.80	54.20	20.314	
14,000.00	12,077.00	12,805.61	10,976,00	41.05	39.09 40.18	0.00 0.00	2,063.35	417.03	1,101.00	1,046.00 1,045.17	55.00 55.83	20.019 19.721	
14,100.00	12,077.00	12,905.61	10,976.00	42.01 43.01	40.18 41.30	0.00	2,163,34	416.11 415.18	1,101.00 1,101.00		56.69	19.721	
14,200.00 14,300.00	12,077.00	13,005.61 13,105.61	10,976,00	43.01	42.43	0.00	2,263.34 2,363.34	414.26	1,101.00	1,044.31 1,043.42	57.59	19.119	
14,300.00	12,077.00	(a, (45.6)	10,976.00	. 44.03	42.43	0.00	2,303.34	7 14.20	1,701.00	1,040.42	51.15	13.113	
14,400.00	12,077.00	13,205.61	10,976.00	45.11	43,58	0.00	2,463.33	413.34	1,101.00	1,042.50	58.51	18.818	
14,500.00	12,077.00	13,305.61	10,976.00	46.19	44.75	0.00	2,563.33	412.42	1,101.00	1,041.55	59.46	18.518	
14,600.00	12,077.00	13,405.61	10,976.00	47.29	45.93	0.00	2,663.32	411.50	1,101.00	1,040.57	60.43	18.220	
14,700.00	12,077.00	13,505.61	10,976.00	48.42	47.13	0.00	2,763.32	410.58	1,101.00	1 039 57	61.43	17.923	
14,800.00	12,077.00	13,605.61	10,976.00	49.56	48.34	0.00	2,863.31	409.65	1,101.00	1,038.55	62.45	17.630	
						_	•						
14,900.00	12,077.00	13,705.61	10,976.00	50.72	49.56	0.00	2,963.31	408.73	1,101.00	1,037.51	63,49	17.340	
15,000.00	12,077,00	13,805.61	10,976.00	51,89	50,79	0.00	3,083.31	407.81	1,101.00	1,036,44	64.56	17.054	
15,100.00	12,077,00	13,905.61	10,976.00	53.08	52.04	0.00	3,163.30	406.89	1,101.00	1,035,36	65.64	16.772	
15,200.00	12,077.00	14,005.61	10,976.00	54.28	53 30	0.00	3,263.30	405.97	1,101,00	1.034.25	66.75	16.494	
15,300.00	12,077.00	14,105.61	10,976.00	55.49	54.56	0.00	3,363.29	405.04	1.101.00	1,033,13	67.87	16.222	
											•		
15,400.00	12,077.00	14,205.61	10,976.00	56.71	55.83	0.00	3,463.29	404.12	1,101.00	1,031.99	69.01	15.954	
15,500.00	12.077.00	14,305.61	10,976.00	57.95	57.12	0.00	3,563.28	403.20	1,101.00	1,030.83	70.17	15.691	
15,600.00	12,077,00	14,405.61	10,976.00	59.19	58.40	0.00	3,663.28	402.28	1,101.00	1,029.66	71.34	15.433	
15,700.00	12,077.00	14,505.61	10,976.00	60,44	59.70	0.00	3,763.28	401.36	1,101.00	1,028.47	72.53	15.180	
15,800.00	12,077.00	14,605,61	10,976.00	61.70	61.00	0,00	3,863.27	400.44	1,101.00	1,027.27	73.73	14.932	
46 000 00	12 077 00	14 705 61	10.076.00	en 07	62.24	0.00	2 002 27	200 64	1 101 00	1 026 05	74.05	14 800	
15,900.00	12,077.00	14,705,61	10,976.00	62.97	62.31	0.00	3,963.27	399.51	1,101.00	1,026,05	74.95	14.690	

Anticollision Report

Company:

Matador Resources

Lea County, NM

Project: Reference Site:

Nina Cortell Fed Com

0.00 usft No. 202H

Site Error:
Reference Well:
Well Error:
Reference Wellbore

0.00 usft

Reference Design:

ОН Prelim Plan B

Local Co-ordinate Reference: TVD Reference: MD Reference:

Well No. 202H Well @ 3837.00usft

Well @ 3837.00usft Grid

North Reference:

Survey Calculation Method:

Outputierrors are at Database:

Minimum Curvature 2.00 sigma

Offset TVD Reference:

WellPlanner1 Offset Datum

Offset De Survey Prog Rafer	ram. O-M		0.2 1 1 2 3 4 3 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	Daniel Landon	_205	H - Prelim Plai Highalde	4.	در داد در در دانو خورات	Dista	ince	ing the second		Offset Well Error:	0.00 usi
Measured Depth (usft)	Depth	Measured Depth (usft)	Vertical Depth (usf1)		Offset (usft)	Toolface		e Centre • El-W (usft)	Between Centres (usft)	Botween Ellipsos (usft)	Minimum Separation (usft)	Separation Factor	Warning	
16,000.00	12,077,00	14,805.61	10,976.00	64.25	63.63	0.00	4,063.26	398.59	1,101.00	1,024.83	76.18	14.453		
16,100.00	12,077.00	14,905.61	10,976.00	65.53	64.95	0.00	4,163.26	397,67	1,101.00	1,023.58	77.42	14.222		
16,200.00	12,077.00	15.005.61	10,976.00	66.82	66.27	0.00	4,263.26	396.75	1,101.00	1,022.33	78.67	13.995		
16,300.00	12,077,00	15, 105,61	10,976.00	68.12	67.60	0.00	4,363.25	395.83	1,101.00	1,021.07	79.93	13,774		
16,400.00	12,077.00	15,205.61	10,976.00	69.42	68.94	0.00	4,463.25	394.91	1,101.00	1,019.79	81.21	13.558		
16,500.00	12,077.00	15,305.61	10,976.00	70.73	70.28	0.00	4,563.24	393,98	1,101.00	1,018.51	82,49	13.347		
16,500.00	12,077.00	15,405.61	10,976.00	72.05	71.62	0.00	4,663.24	393.06	1,101,00	1.017.22	83.78	13.141		
16,700.00	12,077.00	15,505.61	10,976.00	73.36	72.96	0.00	4,763.23	392.14	1,101.00	1,015.91	85.09	12.940		
16,800.00	12,077.00	15,605.61	10,976.00	74.69	74.32	0.00	4,863.23	391.22	1,101.00	1,014,60	86.40	12.743		
16,823.77	12,077.00	15,629.38	10,976.00	75.00	74.64	0.00	4,887.00	391.00	1,101.00	1,014.29	86.71	12.697		

Anticollision Report

Company: Project: Reference Site: Matador Resources Lea County, NM

Site Error: Reference Well: Nina Cortell Fed Com 0.00 usft No. 202H

Well Error: Reference Wellbore Reference Design: 0.00 usft OH

Prelim Plan B

State of the state of the state of

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:
Offset TVD Reference:

Well No. 202H

Well @ 3837.00usft Well @ 3837.00usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Offset D	esign	Nina Co	rtell Fed	Com - No. 1	132H - OF	l - Prelim Pla	n B	,	• • •		•••		Offset Site Error.	0.00 us
urvey Pro	gram: 0-M	WD+HDGM (12	00-MWD+1	1DGM, 5000-NW	D+HDGM		17 - 41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			87. 1839.1	5 1 ₂₃ 124	Offset Well Error	0.00 us
7. 111.	rence	Offse		Semi Major	t Barrier and the second		er de la		Dista	nce		en Ali.		
leasured Depth	Ventical Depth	Measured Depth		Raference	Offset	Highside Toolface	Offset Wellbore	· Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	A 11 4
(natt)	(usfi)	(usft)	(usft)	(usft)	(usft)	C)	(usit)	(nzu)	(usft)	(usft)	(usit)	1200		
0.00	0.00	0.00	0.00	0.00	0.00	-91.91	-1.00	-30.00	30.02					
100.00	100.00	100.00	100.00	0.13	0.13	-91.91	-1.00	-30,00	30.02	29.76	0.25	117.937		
200.00	200.00	200.00	200.00	0.49	0.49	-91.91	-1.00	-30.00	30.02	29.05	0.97	30.699		
300,00	300.00	300.00	300.00	0.84	0.84	-91.91	-1.00	-30.00	30.02	28.33	1.69	17.778		
400.00	400.00	400.00	400.00	1.20	1.20	-91:91	-1.ÓO	-30.00	30.02	27.61	2.41	12.479		
500.00	500.00	500.00	500.00	1.56	1.56	-91,91	-1,00	-30,00	30.02	26.89	3.12	9.614		
600.00	600.00	600.00	600.00	1.92	1.92	-91.91	-1.00	-30,00	30.02	26.18	3.84	7.818		
700.00		700.00	700.00	2.28	2.28	-91.91	-1.00	-30.00	30.02	25.46	4.56	6.588		
800,00	800.00	800.00	800.00	2.64	2.64	-91.91	-1.00	-30.00	30.02	24.74	5.27	5,692		
900.00	900.00	900.00	900.00	3.00	3.00	-91.91	-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	-91.91	-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	-91.91	-1.00	-30.00	30.02	22.59	7.42	4.043		
1,200.00		1,200.00	1,200.00	4.07	4.07	-91.91	-1.00	-30.00	30.02	21.88	8.14	3.687		
1,300.00		1,300.00	1,300.00	4.25	4.25	-91.91	-1,00	-30.00	30.02	21.51	8.51		CC, ES, SF	
1,400.00		1,400.01	1,399.99	4.28	4.28	165.10	-1.00	-30.00	30.86	22.30		3.603		
1,500.00		1,499.96	1,499.96	4.34	4.34	167.17	-1.00	-30.00	33.41	24.73		3.847		
1,600.00	1,599.86	1,599.28	1;599.28	4.43	4.43	168.01	-1.40	-30.76	38.44	29.58	B.86	4.341		
1,700.00	•	1,698.29	1,698.25	4.43	4.53	168.05	-2.59	-33.04	46.70	37.62		5.145		
1,800.00		1,796.83	1,796.70	4.69	4.67	167,63	-4.56	-36.81	58.17	48.82		6.224		
1,900.00		1,894.88	1,894.57	4.85	4.82	166.89	-7.30	-42.05	72.00	62.34	9.66	7.456	•	
2,000.00		2,007.64	1,991.76	5.05	5.03	165.90	-10.80	-48.73	87.35	77.32		8.705		
_,	.,													
2,100.00	2,098.22	2,108.98	2,090.04	5.26	5.24	164,96	-14.78	-56.35	103.60	93,16		9.925		
2,200.00		2,189.68	2,188.33	5.49	5.42	164,27	-18.77	-63.97	119.87	109.04	10.83	11.068		
2,300.00		2,288.34	2,286.61	5.74	5.65	163.75	-22.75	-71.59	136.16	124.87	11.29	12.060		
2,400.00		2,387,00	2,384,69	6.00	5.90	163.34	-26.74	-79.21	152.45	140.68		12.946		
2,500.00	2,496.70	2,485.66	2,483.18	6.27	5.16	163,01	-30.72	-86.83	168.75	156.47	12.29	13.736		
2,600.00	2,596.32	2,584.32	2,581.46	6.55	6.44	162.74	-34.71	-94.45	185.06	172.24	- 12.82	14.440		
2,700.00	2,695.94	2,682.97	2,679.74	6.84	6.72	162.51	-38.70	-102.06	201,36	188.00	13.36	15.068		
2,800.00	2,795.56	2,781.63	2,778.02	7.14	7.01	162.32	-42.68	-109.68	217.67	203.74	13.93	15,629		
2,900.00	2,895.18	2,880.29	2,876.31	7.45	7.31	162.15	-46.67	-117.30	233.98	219.48	14.51	16.130		
3,000.00	2,994.80	2,978.95	2,974.59	7.76	7.62	162.01	-50.65	-124.92	250.30	235.20	15.10	16.579		
3,100.00	3,094.42	3,077.61	3,072.87	8.08	7.93	161:88	-54.64	-132.54	266.61	250.91	15.70	16.982		
3,200.00		3,176.27	3,171.16	8.40	8.24	161.77	-58.62	-140.16	282.93	266.62	16.31	17.345		
3,300.00		3,274.93	3,269.44	8.73	8.57	161.67	-62.61	-147,78	299.25	282.31	16.93	17.673		
3,400.00		3,373.58	3,367.72	9.06	8.89	161.58	-66,59	-155.40	315.56	298.00		17,969		
3,500.00		3,472.24	3,466.01	9.40	9.22	161,50	-70.58	-163.02	. 331.88	313.69	18.20	18.238		
				6	0.55	404.40	74.55	470.0:	0.0.00		40.5	40.455		
3,600.00		3,570.90	3,564.29	9.74	9,55	161.42	-74.56	-170.64	348.20	329.36		18,483		
3,700.00		3,669.56	3.662.57	10.08	9.89	161.36	-78.55	-178.26	364.52	345.03		18.706		
3,800.00		3,768.22	3,760.86	10.42	10.23	161.30	-82.54	-185.88	380.84	360.70		18.909		
3,900.00		3,866.88	3,859.14	10.77	10.57	161.24	-86.52	-193.50	397.16	376.36		19.096		
4,000.00	3,990.99	3,965.54	3,957.42	11.12	10.91	161.19	-90.51	-201.11	413.48	392.02	21.46	19.267		
4,100.00	4,090.61	4,067.16	4,058.68	11.47	11.26	161:15	-94.54	-208.82	429.67	407.52	22.15	19.402		
4,200.00		4,173.63	4,164.88	11.82	11.63	161.18	-98.02	-215.48	444.45	421.59		19.443		
4,300.00	4,289.85	4,280.62	4,271.72	12.17	12.00	161.31	-100.59	-220.40	457.52	433.94	23.57	19.409		
4,400.00		4,388.04	4,379.08	12.53	12.36	161.52	-102.25	-223.56	468.88	444.57	24.28	19.308		
4,500.00	4,489.09	4,495.83	4,486.86	12.88	12.71	161.80	-102.97	-224.94	478.47	453.48	24.99	19,146		
4 600 00	A 500 74	4 602 32	A 500 74	12 24	13.04	162 13	-102.00	-225.00	#0E 02	AC1 15	25.67	18 085		
4,600.00		4,602.32 4,702.70	4,588.71 4,688.33	13,24 13,60	13.04	162.13 162.44	-103.00 -103.00	-225.00 -225.00	486,82 495,13	461,15 468.80	25.67 26.33	18.965 18.806		
4,700.00		4,702.70	4,787.95	13.60	13.55	162.74	-103.00	-225.00	495.13 503.45	468.80 476.45	26.33 26.99	18.652		
•	:	4,903.46	4,787.95		13.98	163.03	-103.00		511.78					
4,900.00 5,000.00	5 and 6	5,003.84	4,887.57	14.32 14.51	13.98	163.31	-103.00	-225.00 -225.00	511.78	484.13 492.14	27.65 27.99	18.508 18.584		
	7,507.15	5,000,07	7,507.13	17.01	17.10	100.01	-103.00	-223.00	J2U.12	732.14	21.03	10.364		
5,100.00	5,086.81	5;104.22	5,086,81	14.55	14.14	163,58	-103.00	-225.00	528.48	500.47	28.01	18.868		

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Lea County, NM Nina Cortell Fed Com

Site Error: Reference Well: WelliError: Reference Wellbore

0.00 usft No. 202H 0.00 usft

Reference Design:

ОН Prelim Plan B

·Local Co-ordinate Reference: TVD Reference: MD Reference:

Well @ 3837.00usft Well @ 3837.00usft

North Reference:

Survey Calculation Method:

Output errors are at Database

Minimum Curvature 2.00 sigma

Well No. 202H

WellPlanner1

Grid

Offset TVD Reference: Offset Datum Niga Cortell Fed Com

urvey Progra	ram: 0-M	ND+HDGi.i.,1	200-MWD+H	Com - No. 1 юси, 5000-ми	D-HDGM	l - Prelim Pl	an B					rangan ang k Salaga ang k	Offset Site Error:	0.00 usft
Rolore Measured	Vertical	Offs Measured	rell large	Semi Major Reference	10.0	Highside	Offset Wollbore	Centre	Dist. Between	Between	Minimum	Separation	a Terra Material	
Depth	Depth	Depth,	Depth	200		Tooliace	NI-S	•E/-W	Centres	Ellipses	Separation	Factor		
(úsfi)	(usfi)	(úsft)	(usft)	(usft)	(usft)	r(1) s.	(usft) .	(usfi)	(usft)	· (usft)	(usfi)			
5,200.00	5,186.43	5,204.60	5,186.43	14.60	14.16	163.84	-103.00	-225.00	536.85	508.80	28.05		·	
5,300.00	5,286.05	5,304.98	5,286.05	14.65	14.19	164.10	-103.00	-225.00	545.23	517.12	28.11	19.398		
5,400.00	5,385.67	5,405.36	5,385.67	14.72	14.22	164.34	-103.00	-225,00	553.62	525.43	28.18			
5,500.00	5,485.29	5,505.74	5,485.29	14.79	14.27	164,58	-103.00	-225.00	562.02	533.74	28.28			
5,600.00	5,584.91	5,606.12	5,584.91	14.87	14.32	164.82	-103.00	-225.00	570.43	542.03	28.39			
5,700.00	5,684.53	5,706.50	5,684.53	14.96	14.39	165.04	-103.00	-225.00	578.84	550,32	28.52	20.293		
5,800.00	5,784.14	5,806.88	5,784.14	15.07	14.46	165.26	-103.00	-225.00	587.27	558.60	28.67	20.482		
5,900.00	5,883.76	5,907.26	5,883.76	15,18	14,54	165,47	-103.00	-225.00	595.70	566.87	28.84	20.656		
6,000.00	5,983.38	6,007.64	5,983.38	15.29	14.63	165.68	-103.00	-225.00	604.15	575.13	29.02	20.817		
6,100.00	6,083.00	6,108.02	6,083.00	15.42	14.73	165,88	-103.00	-225.00	612.60	583.38	29.22	20.964		
6,200.00	6,182.62	6,208.40	6,182.62	15.56	14.83	166.08	-103.00	-225.00	621.06	591.62	29.44	21.097		
6 300 00	E 202 24	6 309 70	6 282 24	15.70	14,95	166,27	-103.00	-225.00	629.52	599.85	29.67	21.217		
6,300.00 6,400.00	6,282.24 6,381.86	6,308.79 6,409.17	6,282.24 6,381.86	15.70	15.07	166.46	-103.00	-225.00	637.99	608.07	29.92			
6,433.26	6,414.99	6,423.96	6,414,99	15.90	15.09	166.52	-103.00	-225.00	640.81	610.83	29.98			
6,500.00	6,481.51	6,509,51	6,481.51	16.01	15.20	166.64	-103.00	-225.00	646.09	615.91	30.18			ı
6,600.00	6,581.29	6,609.74	6,581.29	16.16	15.33	166.79	-103.00	-225.00	652.60	622.14	30.46	21.426		
			,											
6,700.00	6,681.16	6,709.86	6,681.18	16.32	15.47	166.90	-103.00	-225.00	657.41	626.67	30.75			
6,800.00	6,781.11	6,809.91	6,781.11	16.47	15.62	166.97	-103.00	-225.00	660.53	629.48	31.05			
6,900.00	6,881.10 6,914.36	6,909.93	6,881.10	16.63	15.78	167.00	-103.00	-225.00	661.94 662.04	630.58 630.60	31,36			
6,933.26 7,000.00	6,981.10	6,923.33 7,009.93	6,914.36 6,981.10	16,68 16.77	15.80 15.94	-90.61 -90.61	-103.00 -103.00	-225.00 -225.00	662.04	630.36	31.44 31.68	20.897		
1,000.00	0,561.10	1,005.55	0,301.10	10.71	15,54	-30.01	-100.00	-225.00	002.04	000.00	51.00	20,037		
7,100.00	7,081.10	7,109.93	7,081.10	16.93	16.11	-90.61	-103.00	-225,00	662.04	630.03	32.01	20.682		
7,200.00	7,181.10	7,209.93	7,181.10	17.08	16.29	-90.61	-103.00	-225.00	662,04	629.69	32.35	20.464		
7,300.00	7,281.10	7,309.93	7,281.10	17.25	16,47	-90.61	-103.00	-225.00	662.04	629.33	32.70			
7,400.00	7,381.10	7,409.93	7,381.10	17.42	16.66	-90.61	-103.00	-225.00	662.04	628.97	33.07	20.019		
7,500.00	7,481,10	7,509.93	7,481.10	17.59	16.85	-90.61	-103.00	-225.00	662.04	628.59	33.45	19.794		
7,600.00	7,581.10	7,609.93	7,581.10	17.77	17.05	-90.61	-103.00	-225.00	662.04	628.20	33.83	19.567		
7,700.00	7,681.10	7,709.93	7,681,10	17.96	17.25	-90.61	-103.00	-225.00	662.04	627.80	34.23	19.339		
7,800.00	7,781.10	7,809.93	7,781.10	18.15	17.46	-90.61	-103.00	-225.00	662.04	627.40	34.64	19.111		
7,900.00	7,881.10	7,909.93	7,881.10	18.34	17.67	-90.61	-103.00	-225.00	662.04	626.98	35.06	18,883		
8,000.00	7,981.10	8,009.93	7,981.10	18.55	17.89	-90.61	-103.00	-225.00	662.04	626.55	35.49	18.655		
				40.75	40.44	00.01	407.70	207.00		205 44	25.02	40.400		
8,100.00	6,081.10 0.491.10	8,109.93	8,081.10 8,181.10	18.75	18,11 18.34	-90.61 -90,61	-103.00 -103.00	-225.00 -225.00	662.04 662.04	625.67	35,93 36,37	18.428 18.202		
8,200.00 8,300.00	8,181.10 8,281.10	8,209,93 8,309,93	8,181.10	18.96 19.18	18.57	-90,61 -90.61	-103.00	-225.00 -225.00	662.04	625.21	36.83			
8,400.00	8,381.10	8,409.93	8,381.10	19.39	18.80	-90.61	-103.00	-225.00	662.04	624.75	37.29	17.754		
8,500.00	8,481.10	8,509.93	8,481.10	19.62	19,04	-90.61	-103.00	-225.00	662.04	624.28	. 37.76	17.533		
8,600.00	8,581.10	8,609.93	8,581.10	19.84	19.28	-90.61	-103.00	-225.00	662.04	623.80	38.24	17.313		
8,700.00	8,681.10	8,709.93	8,681.10	20.07	19.53	-90.61	-103.00	-225.00	662.04	623.31	38.72			
8,800.00	8,781.10	8,809.93	8,781.10	20.31	19.78	-90.61	-103.00	-225.00	662.04	622.82	39.22			
8,900.00 9,000.00	8,881.10 8,981.10	8,909.93 9,009.93	8,881,10 8,981,10	20.55 20.79	20.03 20.28	-90.61 -90.61	-103.00 -103.00	-225.00 -225.00	662.04 662.04	622.32 621.81	39.72 40.22			
9,000,00	8,981,10	9,009.33	0,301.10	Zu./9	20.20	-30.01	• 103.00	-223,00	002.04	021.01	40.22	10.433		
9,100.00	9,081.10	9,109.93	9,081.10	21.03	20,54	-90.61	-103.00	-225,00	662.04	621.30	40.74	16.252		
9,200.00	9,181.10	9,209,93	9,181.10	21.28	20.80	-90.61	-103.00	-225.00	662,04	620.78	41.25	16,048		
9,300.00	9,281.10	9,309.93	9,281.10	21.53	21.07	-90.61	-103.00	-225.00	662.04	620.26	41.78	15.846		
9,400.00	9,381.10	9,409.93	9,381.10	21.79	21.34	-90.61	-103.00	-225,00	662.04	619.73	42.31	15.648		
9,500.00	9,481.10	9,509.93	9,481.10	22.04	21.61	-90.61	-103.00	-225.00	662.04	619.19	42.84	15.452		
0.000.00	0 501 15	0.600.00	0 601 10	00.00	24.00	00.04	102.00	925.00	602.04	610.65	42.00	15 150		
9,600.00	9,581.10	9,609.93	9,581.10	22.30	21.88	-90.61	-103,00	-225.00	662.04	618.65	43.39	15.259 15.070		
9,700.00	9,681.10	9,709.93	9,681.10	22.57	22.15	-90.61 -90.61	-103,00 -103,00	-225.00 -225.00	662.04 662.04	618.11 617.55	43.93 44.48	15.070		
9,800.00	9,781.10	9,809.93 9,909.93	9,781.10 9,881.10	22.83	22.43 22.71	-90.61 -90.61	-103.00 -103.00	-225.00 -225.00	662.04 662.04	617.55 617.00	44.48 45.04	14.883 14.700		
9,900.00	9,881,10 9,981,10	10,009,93	9,881.10	23.10 23.37	22.71	-90.61	-103.00	-225.00 -225.00	662.04	616.44	45.60	14.700	•	
.5,555.00	3,301.10	10,000,00	2,551,10	23.41	22.30	55.01	103.00	-220.00	502.04	5 10.44	45.00	.4.513		

Anticollision Report

Company: Project:

Matador Resources Lea County, NM

Reference Site: Site Error: Reference Well: Well Error: 🌣

Nina Cortell Fed Com 0.00 üsft No. 202H 0.00 usft

OH

Reference Wellbore

Prelim Plan B Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well @ 3837.00usft Well @ 3837.00usft Grid

North Reference:

Survey Calculation Method:

Output errors are at Database: ...

Minimum Curvature

Offset Site Error:

D.00 usft

2.00 sigma WellPlanner1 Offset Datum

Well No. 202H

Offset TVD Reference:

Nina Cortell Fed Com - No. 132H - OH - Prelim Plan B Offset Design Distanco O MWD+HDGM 1200-MWD+HDGM, 5000-MWD+HDGM Survey Program: Offset Well Error. 0.00 usit Reference Measured Ver Offset Semi Major Axis Batwaen Vertical Highside Offset Wellbore Centre Between Reference Warning NI-S Depth Depth Depth Denth Toolisco +ÉJ-W Centres Filosos Sonaration Factor (usft) CT. $r_{\rm p} \lesssim 1$ (usft) (usft) (usft) lusiti (usft) (usft) (usft)", (usft) (usft) (usft) 10.200.00 10,181.10 10.209.93 10.181.10 23 92 23 56 -90 61 -103.00 -225 00 662 04 615.31 46.73 14 167 10.300.00 10.281.10 10.309.93 10.281.10 24.19 23 85 -90.61 -103.00 -225 00 662 04 614 73 47.30 13 996 10,409.93 10,381.10 24.47 -90.61 -103.00 -225.00 662.04 614.16 47.88 13.827 10,400.00 10,381.10 24.14 10.500.00 10.481.10 10,509.93 10,481,10 24,75 24.43 -90.61 -103.00 -225.00 662.04 613.58 48.46 13.662 10,600.00 10,581.10 10,609,93 10,581,10 25.04 24,72 -90.61 -103.00 -225.00 662.04 612.99 49.04 13,499 10.681.10 10.709.93 25.02 -90.61 -103.00 -225.00 662 04 612 41 49.63 13.339 10,700.00 10,681,10 25.32 10.800.00 10.781.10 10 809 93 10 781 10 25.61 25.32 -90 B1 -103.00 -225 00 662 fl4 611.82 50.22 13 182 10,881.10 10,900.00 10.909 93 10 881.10 25.90 25.61 -90 61 -103 00 -225.00 662.04 611 22 50.82 13.028 10,981.10 26.19 11,000,00 10,981.10 11,009.93 25.91 -90 61 -103.00 -225.00 662.04 610.62 51 41 12 877 -90,61 -225.00 662.04 610.02 12.728 11,100.00 11,081.10 11,109.93 11,081.10 26.48 26.22 -103.00 52.01 11.200.00 11.181.10 11,209,93 11.181.10 26.77 26.52 -90.61 -103.00 -225.00 662,04 609.42 52.62 12.583 -225.00 608.88 11.300.00 11.281.10 11 290 07 11.281.10 27.07 26.76 -90.61 -103.00 662.04 53.16 12,454 -225.01 662.04 608.27 53.77 12.313 11,400,00 11.381.10 11 390 11 11 381 12 27.36 27 07 -90.55 -102.36 662.04 11 409 33 11,390,43 11 399 43 11 390 43 27.39 27.09 -90.51 -101.84 -225.01 608.21 53.82 12,300 11.500.00 11,481,10 11 488 30 11,478,33 27 66 27.36 -89.43 -89.36 -225.12 662.16 607.80 54.36 12.182 11.512.80 11,493,90 11,500.46 11,490,17 27 70 27.30 .RQ 10 -86.59 -225 14 662 22 607 79 54 43 12 167 11,550.00 11,531.07 11,535.39 11.523.82 27.81 27.49 -87.92 -77.27 -225.23 662.49 607.85 54.64 12,125 11,581.60 11,567.36 27.61 -86.94 -61.81 -225.36 663.01 608.11 54.91 12.076 11,600.00 11,580.76 27.96 11,650.00 11 529 79 11,627.03 11,608.82 28.10 27.73 -86.00 -43.24 -225.53 663,71 608.54 55.16 12.032 -21.81 -225.72 664.55 609.14 55.41 11,677.79 11,671.76 11,648.06 28.24 27.84 -85.09 11.993 11,700.00 -225.93 665.52 609.87 55.65 11.960 11 750.00 11.684.98 28.37 27.94 -84.21 2.24 11 724.38 11.715.84 11,800.00 11.769.22 11,759.33 11,719,50 28.49 28 04 _R3 3A 28 68 -226 16 666 58 610.71 55 87 11 930 11,850.00 11,811.97 11,802.29 11.751,53 28.60 28.13 -82,60 57.29 -226.41 667.70 611.61 56.09 11.903 28.71 28.23 -81.87 -226.68 668.86 612.55 56.31 11.879 11,900.00 11,852.29 11,844.77 11,781.00 87.87 11.950.00 11.889.89 11.886.83 11.807.88 28.81 28.32 -81.19 120,22 -226.97 670.02 613.50 56.52 11.855 12,000.00 11.924.48 11.928.51 11.832.10 28.90 -80.58 154.13 671.15 56.72 11.832 28.53 -227.58 672.22 615.29 11.807 11.955.78 11.969.87 11.853.63 28.99 -60.02 189.43 56.93 12.050.00 -79,53 225.92 616.08 57.14 11,781 12.010.94 11.872.44 28.64 -227.90 673.22 12,100.00 11.983.57 29.08 12.051.77 -79.11 674.11 616.75 57.36 11.752 12 150 00 12,007 64 11.888.49 29.17 28.75 263.45 -228.23 301.83 -228.57 674,88 617.29 12,200,00 12.027.79 12.092.39 11.901.78 29.28 28.87 -78.76 57.59 11.719 12.250.00 12.043.88 12 132 86 11.912.28 29 40 28 99 -78 48 340 90 -228 92 675 50 617 68 57.82 11 682 12,055.79 29.54 29.11 -78.27 380 49 -229 27 675 97 617 90 58.07 11 640 12.300.00 12,173.20 11,919,97 -229.36 29.14 -78.23 676.07 617.95 11.633 12,312.80 12,058.15 12,183.51 11,921.49 34.81 390.69 58.11 12.062.49 12,203.61 11,923.92 34.82 29.21 -78,14 410.64 -229.53 676.33 618.13 58.20 11.620 12,337.80 12,350.00 12,064.54 12,213.39 11,924.85 34.83 29.24 -78.07 420.38 -229.62 676.51 618.26 11.614 12,071.29 12.253.31 34.87 -77.74 460.23 -229.97 11.591 12,400.00 11 926 92 12.450.00 12.075.45 12 300 68 11 927 00 34 90 29.52 -77 38 507.60 -230 39 678 22 619 53 58 69 11 555 12,504.47 12,077.00 12,355,12 11,927.00 34.94 29 73 -77.23 562.04 -230.87 678.54 619.50 59 05 11,492 12,600.00 12,077.00 12,450.65 11,927.00 35.02 30.13 -77 23 657.57 -231.71 678.51 618.75 59.76 11.354 12.700.00 12.077.00 12.550.65 11.927.00 35.11 30.60 -77.23 757.56 -232.60 678.47 617.85 60.62 11,192 12,077.00 12,650.65 11,927.00 35.21 31.14 -77.23 857.56 -233.48 678.43 616.82 11.012 12,800.00 61:61 12,900,00 12,077,00 12,750.65 11,927.00 35.32 31.73 -77 23 957.56 -234 36 678 39 615 69 62 70 10 819 13,000.00 12,077.00 12,850.65 11,927.00 35.46 32.38 -77.22 1,057.55 -235.24 678.35 614.44 63.91 10.615 35.63 33.07 -77.22 -236.13 678.31 613.10 65.21 10,402 13,100.00 12,077.00 12,950.65 11,927.00 1,157.55 13,200.00 12,077.00 13.050.65 11,927.00 35.66 33.82 -77.22 1.257.54 -237.01 678.27 611.66 66.61 10,183 13,150.65 34.60 -77.22 1,357.54 -237.89 678.23 610.13 68.10 12.077.00 11,927,00 36.15 9.960 13,300.00 13,400.00 12,077.00 13.250.65 11.927.00 36.55 35 43 -77 22 1,457.54 -238 77 678 19 608 52 69 67 9 734 13,500.00 12,077.00 13,350.65 11,927.00 37.06 36.30 -77.22 1,557.53 -239.66 678.15 606.83 71.32 9.508 13,450.65 37.70 -240.54 678,11 605.07 13.600.00 12,077,00 11,927.00 37.20 -77.22 1,657.53 73.05 9,283 13,700.00 12.077.00 13.550.65 11,927,00 38.43 38,14 -77.22 1.757.52 -241.42 678,08 603.24 74.84 9.061 13,650.65 39.24 39.11 -77.22 -242.30 678.04 12,077.00 11,927.00 1,857.52 601.35 76.69 8.841 13,800.00 13,900.00 12,077.00 13,750,65 11,927.00 40.12 40.10 -77,22 1.957.52 -243.19 678,00 599.39 78.60 8.626

Anticollision Report

Company: Project: Matador Resources

Reference Site:

Lea County, NM Nina Cortell Fed Com

Site Error: Reference Well: Well Error:

0.00 usft No. 202H 0.00 usft

Reference Wellbore Reference Design:

ОН Prelim Plan B

Local Colordinate Reference: TVD Reference: MD Reference:

Well No. 202H Well @ 3837.00usft Well @ 3837.00usft

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Grid

Offset De	sion	Nina Co	ortell Fed (Com - No.	132H - OF	l - Prelim					, -,-, ;		Offset Site Error:	0.00 usn
Survey Prog Refer	ram: ¢0-M		200-M/AD+HI	OGM, 5000-MV	/D+HDGM	Highside	Offset Wellbo	ro Centre	Dist	ince Between	Minimum	Separation	Offset Well Error. Warning	0.00 usti
Depth (usft)	Dopth (usft)	Depth (usft)	Depth (usft)	(ush),	(usft)	Toolface (*)	+NI-S (fleu)	•El-W	Centres (usfi)	Ellipses (usft)	Separation (usft)	Factor	rearring	
14,000.00	12,077.00	13,850.65	11,927.00	41.05	41.12	-77.22	2,057.51	-244.07	677.96	597.39	80.57	8.414		
14,100.00	12,077.00	13,950.65	11,927.00	42.01	42.17	-77.22	2,157.51	-244.95	677.92	595.33	82.59	8.208		
14,200.00	12,077.00	14,050.65	11,927.00	43.01	43.24	-77.22	2,257.51	-245.83	677,88	593.23	84.65	8.008		
14 300 00	12 077 00	14 150 65	11 927 00	44.05	44 33	-77 21	2 357 50	-246 72	677.84	501 08	86.76	7.813		

Refer	ence Vertical	Offs Measured	et :	Semi Major Roterence	Axis Offset	Highside	Offset Wellbo		. Dist. Between	1 44.4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Walnus	Englishin-	Out a sell Eugh.
leasured Depth	Depth	Depth	Vertical Depth	Katarenca	Orisei	Tooliace	+N/-S	•El-W	Centres	Between .	Minimum Separation	Separation Factor	Warning
{usft	(usft)	(usft)	(usit)	(usit),	(usft)			o (usft)		(usft)	(ush) 🕡		
14,000.00	12,077.00	13,850.65	11,927.00	41.05	41.12	-77.22	2,057.51	-244.07	677.96	597.39	80.57	8.414	
14,100.00	12,077.00	13,950.65	11,927.00	42.01	42.17	-77.22	2,157.51	-244.95	677.92	595.33	82.59	8.208	
14,200.00	12,077.00	14,050.65	11,927.00	43.01	43.24	-77.22	2,257.51	-245.83	677.88	593.23	84.65	8.008	
14,300.00	12,077.00	14,150.65	11,927.00	44.05	44.33	-77.21	2,357.50	-246.72	677.84	591.08	86.76	7.813	
14,400.00	12,077.00	14,250.65	11,927.00	45.11	45.44	-77.21	2,457.50	-247,60	677.80	588,89	16.88	7.623	
14,500.00	12,077.00	14,350.65	11,927.00	46.19	46.57	-77.21	2,557.49	-248.48	677.76	586.67	91.10	7.440	
14,600.00	12,077.00	14,450.65	11,927.00	47.29	47.72	-77.21	2,657.49	-249.37	677.72	584.41	93.32	7,263	
14,700.00	12,077.00	14,550.65	11,927.00	48.42	48.88	-77.21	2,757.49	-250.25	677.68	582.11	95.57	7.091	
14,800.00	12,077.00	14,650.65	11,927.00	49.56	50.05	-77,21	2,857.48	-251.13	677.64	579.79	97,85	6.925	
14,900.00	12,077.00	14,750.65	11,927.00	50.72	51.24	-77.21	2,957.48	-252.01	677.60	577.44	100.17	6.765	
15,000.00	12,077.00	14,850.65	11,927.00	51,89	52.44	-77.21	3,057.47	-252.90	677.56	575.06	102.50	6.610	
15,100.00	12,077.00	14,950.65	11,927.00	53.08	53.66	-77.21	3,157.47	-253.78	677.53	572.66	104.87	6.461	
15,200.00	12,077.00	15,050.65	11,927.00	54.28	54.88	-77,21	3,257.47	-254.66	677.49	570.23	107.25	6.317	
15,300.00	12,077.00	15,150.65	11,927:00	55.49	56.12	-77,21	3,357.46	-255.54	677.45	567.79	109.66	6.178	
15,400,00	12,077.00	15,250.65	11,927.00	56.71	57.36	-77.21	3,457.46	-256.43	677.41	565.32	112.09	6.044	
15,500.00	12,077.00	15,350.65	11,927.00	57.95	58.62	-77.21	3,557.45	-257.31	677.37	562.84	114.53	5.914	
15,600.00	12,077.00	15,450.65	11,927.00	59.19	59.88	-77.21	3,657.45	-258.19	677.33	560.33	117,00	5.789	
15,700.00	12,077.00	15,550.65	11,927.00	60.44	61.15	-77.20	3,757.45	-259.07	677.29	557.81	119.48	5.669	
15,800.00	12,077.00	15,650.65	11,927.00	61.70	62.43	-77.20	3,857.44	-259.96	677.25	555.28	121.97	5.553	
15,900.00	12,077,00	15,750.65	11,927.00	62.97	63.72	-77.20	3,957.44	-260.84	677,21	552.73	124.48	5.440	
16,000.00	12,077.00	15,850.65	11,927.00	64.25	65.01	-77.20	4,057.43	-261.72	677.17	550.17	127.00	5.332	
16,100.00	12,077.00	15,950.65	11,927.00	65.53	66.31	-77.20	4,157.43	-262.60	677.13	547.59	129.54	5.227	
16,200.00	12,077.00	16,050.65	11,927.00	66.82	67.61	-77.20	4,257.43	-263.49	677.09	545.00	132.09	5.126	
16,300.00	12,077.00	16,150.65	11,927.00	68.12	68.92	-77.20	4,357.42	-264.37	677.05	542.41	134.65	5.028	•
16,400.00	12,077.00	16,250.65	11,927.00	69.42	70.23	-77.20	4,457.42	-265.25	677.02	539.80	137.22	4.934	
16,500.00	12,077.00	16,350.65	11,927.00	70.73	71.55	-77.20	4,557.42	-266,14	676.98	537.17	139,80	4.842	
16,600.00	12,077.00	16,450.65	11,927.00	72.05	72,88	-77,20	4,657.41	-267.02	676.94	534.55	142.39	4.754	
16,700.00	12,077.00	16,550.65	11,927.00	73.36	74.21	-77.20	4,757.41	-267.90	676.90	531.91	144,99	4.669	
16,800.00	12,077.00	16,650.65	11,927.00	74.69	75.54	-77.20	4,857.40	-268.78	676.86	529.26	147.60	4.586	
16.823.77	12,077.00	16,674.42	11,927.00	75.00	75.86	-77.20	4,881.17	-268,99	676.85	528.63	148.22	4.567	

Anticollision Report

Company: Matador Resources Project: Lea County, NM Reference Site: Nina Cortell Fed Com

Site Error: 0.00 usft Reference Well: No. 202H 0.00 usft Well Error: Reference Wellbore

Reference Design: Prelim Plan B

Local Co-ordinate Reference: Well No. 202H TVD Reference: Well @ 3837.00usft MD Reference: Well @ 3837.00usft

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 @ 3837.00usft

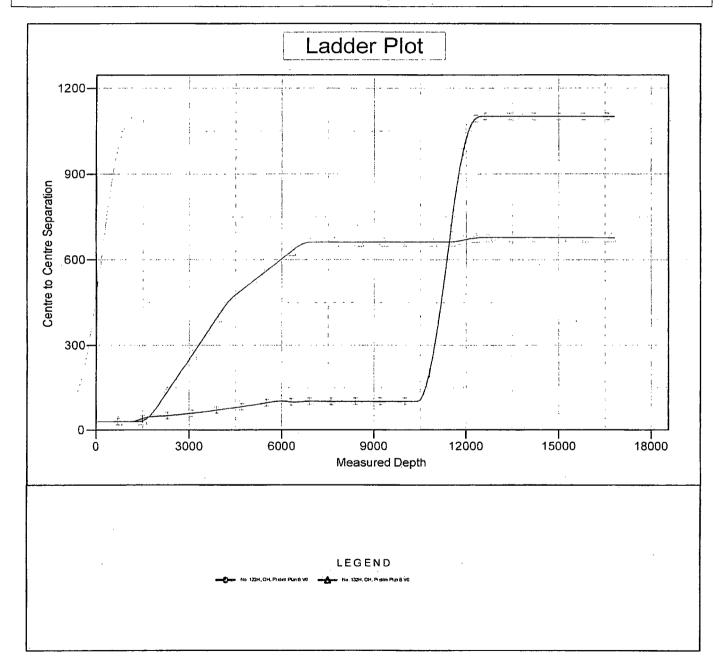
Offset Depths are relative to Offset Datum

Central Meridian is 104.333334°W

Coordinates are relative to: No. 202H

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

Grid Convergence at Surface is: 0.36°



Anticollision Report

Company: Matador Resources Project: Lea County, NM Reference Site: Nina Cortell Fed Com

Site Error: 0.00 usft No. 202H Reference Well: Well Error: 0.00 usft Réference Wellbore

Reference Design: Prelim Plan B

Offset Depths are relative to Offset Datum

Local Co-ordinate Reference: Well No. 202H TVD Reference: Well @ 3837.00usft MD Reference: Well @ 3837.00usft

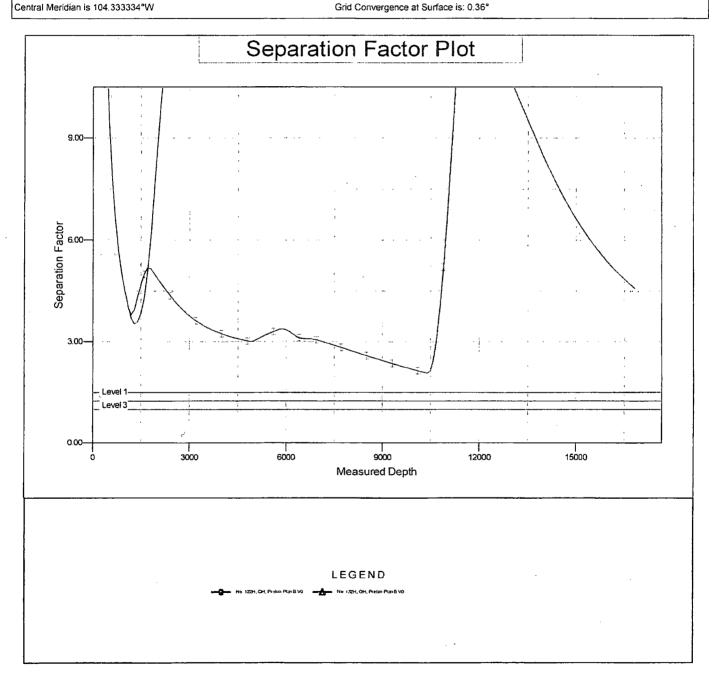
North Reference: Grid

Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma Database: WellPlanner1 Offset TVD Reference: Offset Datum

Reference Depths are relative to Well @ 3837.00usft Coordinates are relative to: No. 202H

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

Grid Convergence at Surface is: 0.36°



DRILL PLAN PAGE 1

Matador Production Company Nina Cortell Fed Com 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' 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'	350′	water
Rustler anhydrite	931'	932′	N/A
Salado salt	1309'	1309′	N/A
Castile anhydrite	3483'	3500′	N/A
Base salt	4861'	4873'	N/A
Bell Canyon sandstone	4911'	4923'	hydrocarbons
Cherry Canyon sandstone	5915'	5931'	hydrocarbons
Brushy Canyon sandstone	6879'	6898'	hydrocarbons
Bone Spring limestone	8868'	8887'	hydrocarbons
1 st Bone Spring carbonate	9573'	9592'	hydrocarbons
1 st Bone Spring sandstone	9895'	9914′	hydrocarbons
2 nd Bone Spring carbonate	10194'	10213'	hydrocarbons
2nd Bone Spring sandstone	10487'	10506′	hydrocarbons
3 rd Bone Spring carbonate	11020′	11039′	hydrocarbon
(KOP	11531'	11550′	hydrocarbons)
3 rd Bone Spring sandstone	11555′	11574′	hydrocarbon
Wolfcamp A carbonate	11961'	12055′	Hydrocarbons & goal
TD	12077′	16824′	hydrocarbons

2. NOTABLE ZONES

Wolfcamp is the goal. Hole will extend north of the last perforation point to allow for pump installation. All perforations will be ≥ 330 ' from the dedication perimeter. Closest water well (C 03717) is 5277' west. Water bearing strata were found at 620'-630' in this 650' deep well.



Matador Production Company
Nina Cortell Fed Com 202H
SHL 150' FSL & 1876' FWL
BHL 240' FNL & 2309' 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.

After setting the surface casing, and before drilling the surface casing shoe, a minimum 2M BOPE system will be installed. It will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high.

After setting intermediate 1 casing, a minimum 3M BOPE system will be installed and tested to 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

After setting intermediate 2 casing, a minimum 5M BOPE system will be installed and tested to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Matador requests a variance to have the option of running a speed head for setting the intermediate 1 and 2 strings. In the case of running a speed head with landing mandrel for 9.625" and 7" casing, a minimum 3M BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 3000 psi high. Annular will be tested to 250 psi low and 250 psi high before drilling below the surface shoe. After 7" casing is set in the speed head,



DRILL PLAN PAGE 3

Matador Production Company Nina Cortell Fed Com 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

the BOP will then be lifted to install another casing head section for setting the production casing. Matador will nipple up the casing head and BOP and a minimum 5M BOPE system will be installed. Pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high. A diagram of the speed head is attached.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. 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.

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'	13.375" surface	54.5	J-55	втс	1.125	1.125	1.8
12.25"	0' - 5000'	0′ - 4987'	9.625" inter. 1	40	J-55	втс	1.125	1.125	1.8
8.75"	0' - 12313'	0′ – 12058′	7.0" inter. 2	29	P-110	втс	1.125	1.125	1.8
6.125"	0' - 16824'	0′ - 12077′	4.5" product.	13.5	P-110	BTC/TXP	1.125	1.125	1.8



Matador Production Company Nina Cortell Fed Com 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

	T		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C. F.		
Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	240	1.82	436	12.8	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	839	1.38	1157	14.8	Class C + 5% NaCl + LCM
TOC = GL		1	00% Exces	SS	Centra	lizers per Onshore Order 2.III.B.1f
Intermediate 1	Lead	909	2.13	1936	12.6	Class C + Bentonite + 1% CaCl₂ + 8% NaCl + LCM
	Tail	482	1.38	665	14.8	Class C + 5% NaCl + LCM
TOC = GL	. 1	00% Exces	is	2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface		
Intermediate	Lead	562	2.36	1326	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
2	Tail	327	1.38	451	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 400	3	5% Exces	5	2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)		
Production	Tail	598	1.17	699	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1180	25% Excess			2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve		

5. MUD PROGRAM

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

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' - 12313'	9.0	30-31	NC
ОВМ	12313' - 16824'	12.5	50-60	<10



DRILL PLAN PAGE 5

Matador Production Company Nina Cortell Fed Com 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

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 ≈ 8000 psi. Expected bottom hole temperature is $\approx 170^{\circ}$ 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. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

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

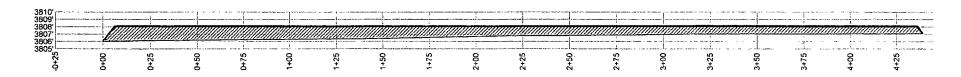


LEVATION: 3808.0836 3.33% 3.000:1 18.43° .33% 3.000:1 18.43° !RANCE (C.Y.): 0.00 CTOR: 1.00 ACTOR: 1.00

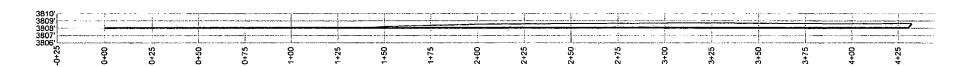
SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M. LEA COUNTY, NEW MEXICO

PRK VOLUMES C.F., 1,953:51 C:Y. F., 1,953:51 C:Y. 7 SQ.FT., 3.765 ACRES





B-B'



C-C'





	R	REVISION:										
	GLH	05/01/17	1 2									
TE] 3									
			1									
			1									
D_SITE_REVI			1									
			1									
			1									

NOTES

1. ORIGINAL DOCUMENT SIZE: 8,5" X 11"

 ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY PEET, NORTH AMERICAN DATUM 1983.

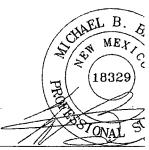
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EMDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHINWADIOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE, THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Horizontal Scale = 1:50 Vertical Scale = 1:5



TELEPHONE: (817) 744-7512 · FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

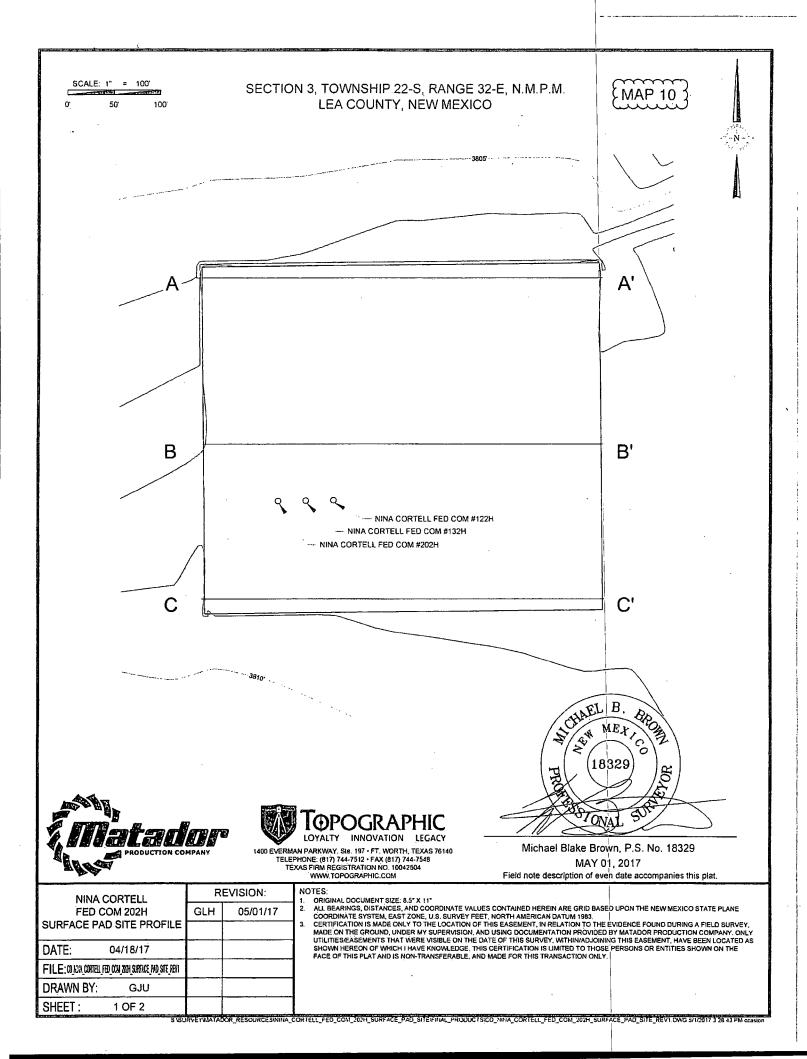




Michael Blake Brown, P.S. MAY 01, 2017

Field note description of even date ac

SISURVEYMATADOR_RESOURCESVINA_CORTELL_FED_COM_202H_SURFACE_PAD_SITEVINAL_PRODUCTSVCD_NINA_CORTELL_FED_COM_202H_SURFACE_PAD_SI



Matador Production Company
Nina Cortell Fed Com 202H
SHL 150' FSL & 1876' FWL
BHL 240' FNL & 2309' 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 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 East 0.3 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. ROAD TO BE BUILT OR UPGRADED (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 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' 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. WATER SUPPLY (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. CONSTRUCTION MATERIALS & METHODS (See MAPS 7 & 8)

NM One Call (811) will be notified before construction starts. Top ≈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 202H
SHL 150' FSL & 1876' FWL
BHL 240' FNL & 2309' 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 $\approx 25\%$ (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



Matador Production Company Nina Cortell Fed Com 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' FWL Sec. 3, T. 22 S., R. 32 E., Lea County, NM **SURFACE PLAN PAGE 4**

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' x 30' road = 0.06 acre
+ 370' x 430' pad = 3.65 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 202H SHL 150' FSL & 1876' FWL BHL 240' FNL & 2309' 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





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

PWD Data Report

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):

7