

Well Name: NINA CORTELL FED COM	Well Location: T22S / R32E / SEC 10 / SESW / 32.3997151 / -103.6659417	County or Parish/State: LEA / NM
Well Number: 221H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM135247	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551190	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2778230

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 03/07/2024	Time Sundry Submitted: 06:40
Date proposed operation will begin: 07/01/2024	

**Procedure Description:** BLM Bond NMB001079 Surety Bond No.: RLB0015172 Matador request the option to amend the well design of the Nina Cortell Fed Com #221H and make the following changes to the current APD: - Changed the well name from Nina Cortell Fed Com #221H to the Nina Cortell Fed Com #241H - Change BHL from 60' FNL & 990' FWL to 110' FNL & 330' FWL. All perforations will be within the setback requirements as previously approved. - Amend casing and cementing plan by adding an additional intermediate string of casing and revising set depths as described within the attached Sundry Info attachment.

NOI Attachments

Procedure Description

- Nina\_Cortell\_Fed\_Com\_241H\_Offline\_Cementing\_\_\_Surface\_20240306155938.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Directional\_Well\_Plan\_20240306155936.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Offline\_Cementing\_\_\_Int\_20240306155937.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Sundry\_Info\_20240306155938.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Directional\_Wall\_Plot\_20240306155935.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Directional\_AC\_20240306155930.pdf
- Nina\_Cortell\_Fed\_Com\_241H\_Break\_Testing\_Sundry\_20240306155930.pdf
- LO\_NINA\_CORTELL\_FED\_COM\_241H\_REV1\_S\_20240306155931.pdf

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COMPANY

Nina\_Cortell\_Fed\_Com\_241H\_Csg\_Specs\_10.75in\_45.5\_BUTT\_SC\_20240306155930.pdf

Nina\_Cortell\_Fed\_Com\_241H\_4\_String\_Wellhead\_Diagram\_20240306155930.pdf

Nina\_Cortell\_Fed\_Com\_241H\_Casing\_Design\_Criteria\_20240306155930.pdf

Conditions of Approval

Additional

NINA\_CORTELL\_FED\_COM\_241H\_ENG\_COA\_20240319090737.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NICKY FITZGERALD

Signed on: MAR 07, 2024 06:25 AM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory Consultant

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLASState: TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 03/19/2024

Signature: Chris Walls

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**  
***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	

**SUBMIT IN TRIPLICATE** - Other instructions on page 2

1. Type of Well	
<input type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well <input type="checkbox"/> Other
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: SESW / 272 FSL / 1601 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.3997151 / LONG: -103.6659417 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 991 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.3992328 / LONG: -103.6679177 ( TVD: 12273 feet, MD: 12329 feet )

PPP: SWNW / 2635 FNL / 988 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4207309 / LONG: -103.6679594 ( TVD: 12434 feet, MD: 20300 feet )

PPP: SWNW / 2640 FNL / 989 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.4062149 / LONG: -103.6679313 ( TVD: 12512 feet, MD: 15000 feet )

BHL: LOT 4 / 60 FNL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4278094 / LONG: -103.6679732 ( TVD: 12398 feet, MD: 22787 feet )

CONFIDENTIAL

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	NINA CORTELL FED COM 241H
APD ID:	10400082269
SURFACE HOLE FOOTAGE:	272'/S & 1601'/W
BOTTOM HOLE FOOTAGE:	110'/N & 330'/W
SURFACE LOCATION:	Section 10, T.22 S., R.32 E. NMP.
COUNTY:	Lea County, New Mexico

COA

H <sub>2</sub> S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input type="radio"/> None	<input checked="" type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> BOPE Break testing
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.**

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING DESIGN

1. The **13-3/8** inch surface casing shall be set at approximately **975 ft.** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours** or **500 psi compressive strength**, whichever is greater. (This is to

- include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Note:** Operator has requested to have option to drill either 17-1/2" or 20" surface hole. Both hole sizes meet title 43 CFR 3172 clearance requirements between casing-coupling and hole. This option is granted; adjust cement volume accordingly.

2. The 10-3/4 inch 1<sup>st</sup> intermediate casing shall be set at approximately **4,900 ft.** The minimum required fill of cement behind the 10-3/4 inch intermediate casing is:

**Option 1 (Single stage): 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 cave/karst or potash.

**Option 2 (Two-stage):** Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- **Second stage above DV tool: 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 cave/karst or potash.

**Note:** First intermediate casing must be kept fluid-filled to meet the CFO's minimum collapse design requirement.

**Note:** Excess cement volume for the 2<sup>nd</sup> stage is below the CFO's recommendation of 25%. More cement might be needed.

- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3<sup>rd</sup> casing string must come to surface.
- ❖ Operator is responsible to report the following within two miles of mineworking to BLM Geologist [jrutley@blm.gov](mailto:jrutley@blm.gov):
  - Any fluid flow outside of casing in the Salado Formation.
  - Any well collision events.
  - Sustained annuli pressures 500 psi above maximum allowable wellhead operating pressure (MAWOP) observed in monitored annuli.
  - Sustained mud losses occur through the Salado interval for projects within one mile of mineworking and WIPP Boundary.



3. The **7-5/8 inch** 2<sup>nd</sup> intermediate casing shall be set at approximately **12,561 ft.** (12,477 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** intermediate casing is:

**Option 1 (Single stage): 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 cave/karst or potash.

**Option 2 (Two-stage):** Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- **Second stage above DV tool: 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 cave/karst or potash.

**Note:** The 2<sup>nd</sup> intermediate casing must be kept fluid-filled to meet the CFO's minimum collapse design requirement.

**Note:** Excess cement volume for both stages is below the CFO's recommendation of 25%. More cement might be needed.

4. Operator has proposed to set **5-1/2 in.** production casing at approximately **23,504 ft.** (13,200 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:

- Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification.

**Note:** Excess cement volume is below the CFO's recommendation of 25%. More cement might be needed.

## 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. Operator has proposed a **multi-bowl** wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5M annular preventer with a 10M BOP stacks.** The BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53.**



- 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. 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.
- e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

**BOPE Break Testing Variance (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system))**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (**575-689-5981 Lea County**) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per title 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

**Offline Cementing**

Offline cementing variance is approved for surface and intermediate casings only. Contact the BLM prior to the commencement of any offline cementing procedure.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.

## 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)

☒ Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV)

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

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 2<sup>nd</sup> 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 **title 43 CFR 3172**
    - 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
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.
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 the **title 43 CFR 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.
  - e. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 **43 CFR 3172**.

### **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.

**SA 03/19/2024**



## Offline Cementing - Surface Casing

**Nina Cortell Fed Com 241H**  
**SHL: 272' FSL & 1601' FWL Section 10**

**Township/Range: 22S 32E**  
**Elevation Above Sea Level: 3790'**

Matador Production Company requests the option to cement the surface casing string offline as a prudent batch drilling efficiency of acreage development.

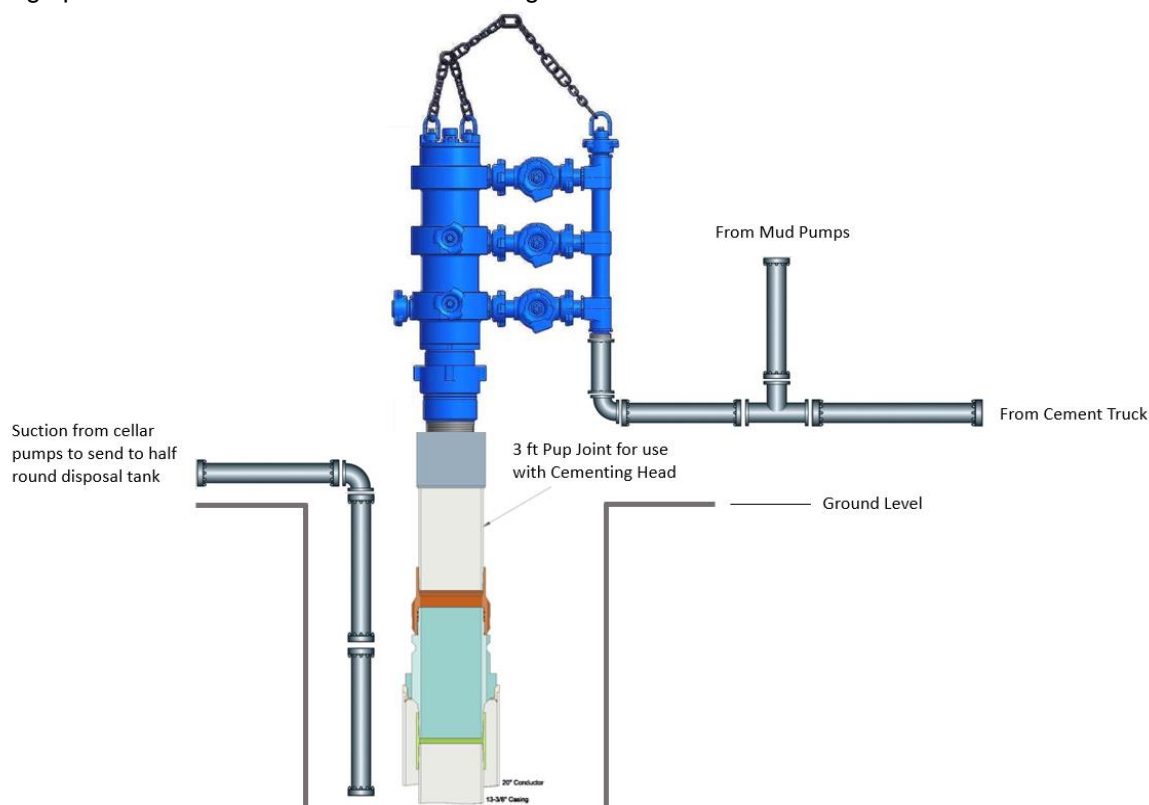
### Cement Program

No changes to the cement program will take place for offline cementing.

### Offline Cementing Procedure

The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
  - Casing installed successfully with no issues.
  - No observed shallow gas or other anomalies
1. Run casing as per normal operations. While running casing, conduct a negative pressure test and confirm integrity of the float equipment (float collar and shoe).
  2. Land casing with mandrel.
  3. Nipple down BOP and install cap flange.
  4. Skid to the next well on the pad.
  5. Rig up on the well in accordance with the diagram shown below.



6. Circulate bottoms up with cement truck.
  - Max anticipated time before circulating with cement truck is 24 hours.
7. Perform cement job, taking returns in the cellar.
8. Confirm well is static and floats are holding following the cement job.
9. Remove cement equipment and install night cap with pressure gauge for monitoring.

# **Matador Production Company**

**Antelope Ridge**

**Nina Cortell**

**Nina Cortell Fed Com #241H**

**Wellbore #1**

**Plan: BLM Plan #1**

## **Standard Planning Report**

**21 February, 2024**

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Project:	Antelope Ridge	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site:	Nina Cortell	North Reference:	Grid
Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project	Antelope Ridge		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Nina Cortell					
Site Position:		Northing:	509,698.48 usft	Latitude:	32° 23' 58.229 N	
From:	Lat/Long	Easting:	705,998.14 usft	Longitude:	103° 39' 57.270 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Nina Cortell Fed Com #241H					
Well Position	+N/-S	31.5 usft	Northing:	509,729.98 usft	Latitude:	32° 23' 58.532 N
	+E/-W	139.9 usft	Easting:	706,138.05 usft	Longitude:	103° 39' 55.635 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,790.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/21/2024	6.28	60.12	47,341.91085728

Design	BLM Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.56

Plan Survey Tool Program	Date	2/21/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,504.9	BLM Plan #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,182.6	11.83	254.51	8,174.2	-32.5	-117.2	1.00	1.00	0.00	254.51	
11,523.5	11.83	254.51	11,444.2	-215.3	-777.0	0.00	0.00	0.00	0.00	
12,311.9	0.00	0.00	12,227.0	-237.0	-855.1	1.50	-1.50	0.00	180.00	
12,711.9	0.00	0.00	12,627.0	-237.0	-855.1	0.00	0.00	0.00	0.00	KOP - Nina Cortell Fe
13,611.9	90.00	338.05	13,200.0	294.4	-1,069.3	10.00	10.00	0.00	338.05	
14,687.2	90.00	359.56	13,200.0	1,343.1	-1,276.9	2.00	0.00	2.00	90.00	
23,504.9	90.00	359.56	13,200.0	10,160.5	-1,345.0	0.00	0.00	0.00	0.00	BHL - Nina Cortell Fe

Planning Report

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Project:	Antelope Ridge	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site:	Nina Cortell	North Reference:	Grid
Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
928.2	0.00	0.00	928.2	0.0	0.0	0.0	0.00	0.00	0.00
Z(Rustler)									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,252.3	0.00	0.00	1,252.3	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado) (Top Salt)									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,135.9	0.00	0.00	3,135.9	0.0	0.0	0.0	0.00	0.00	0.00
Z (Castile (T))									
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site:</b>	Nina Cortell	<b>North Reference:</b>	Grid
<b>Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,846.8	0.00	0.00	4,846.8	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (G30:CS14-CSB) (Base of Salt)</b>									
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,113.3	0.00	0.00	5,113.3	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (G26: Bell Cyn.)</b>									
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,767.3	0.00	0.00	5,767.3	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (G13: Cherry Cyn.)</b>									
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,999.2	0.00	0.00	6,999.2	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (G7: Brushy Cyn.) Antelope Ridge</b>									
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Start Build 1.00</b>									
7,100.0	1.00	254.51	7,100.0	-0.2	-0.8	-0.2	1.00	1.00	0.00
7,200.0	2.00	254.51	7,200.0	-0.9	-3.4	-0.9	1.00	1.00	0.00
7,300.0	3.00	254.51	7,299.9	-2.1	-7.6	-2.0	1.00	1.00	0.00
7,400.0	4.00	254.51	7,399.7	-3.7	-13.4	-3.6	1.00	1.00	0.00
7,500.0	5.00	254.51	7,499.4	-5.8	-21.0	-5.7	1.00	1.00	0.00
7,600.0	6.00	254.51	7,598.9	-8.4	-30.2	-8.2	1.00	1.00	0.00
7,700.0	7.00	254.51	7,698.3	-11.4	-41.2	-11.1	1.00	1.00	0.00
7,800.0	8.00	254.51	7,797.4	-14.9	-53.7	-14.5	1.00	1.00	0.00
7,900.0	9.00	254.51	7,896.3	-18.8	-68.0	-18.3	1.00	1.00	0.00
8,000.0	10.00	254.51	7,994.9	-23.2	-83.9	-22.6	1.00	1.00	0.00
8,100.0	11.00	254.51	8,093.3	-28.1	-101.4	-27.3	1.00	1.00	0.00
8,182.6	11.83	254.51	8,174.2	-32.5	-117.2	-31.6	1.00	1.00	0.00
<b>Start 3340.9 hold at 8182.6 MD</b>									
8,200.0	11.83	254.51	8,191.3	-33.4	-120.6	-32.5	0.00	0.00	0.00
8,300.0	11.83	254.51	8,289.1	-38.9	-140.4	-37.8	0.00	0.00	0.00
8,400.0	11.83	254.51	8,387.0	-44.4	-160.1	-43.1	0.00	0.00	0.00
8,500.0	11.83	254.51	8,484.9	-49.9	-179.9	-48.5	0.00	0.00	0.00
8,600.0	11.83	254.51	8,582.8	-55.3	-199.6	-53.8	0.00	0.00	0.00
8,700.0	11.83	254.51	8,680.6	-60.8	-219.4	-59.1	0.00	0.00	0.00
8,800.0	11.83	254.51	8,778.5	-66.3	-239.1	-64.4	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site:</b>	Nina Cortell	<b>North Reference:</b>	Grid
<b>Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,810.9	11.83	254.51	8,789.2	-66.9	-241.3	-65.0	0.00	0.00	0.00	
<b>Z (G4: BSGI (CS9))</b>										
8,900.0	11.83	254.51	8,876.4	-71.7	-258.9	-69.8	0.00	0.00	0.00	
9,000.0	11.83	254.51	8,974.3	-77.2	-278.6	-75.1	0.00	0.00	0.00	
9,100.0	11.83	254.51	9,072.1	-82.7	-298.4	-80.4	0.00	0.00	0.00	
9,200.0	11.83	254.51	9,170.0	-88.2	-318.1	-85.7	0.00	0.00	0.00	
9,300.0	11.83	254.51	9,267.9	-93.6	-337.9	-91.0	0.00	0.00	0.00	
9,400.0	11.83	254.51	9,365.8	-99.1	-357.6	-96.4	0.00	0.00	0.00	
9,500.0	11.83	254.51	9,463.7	-104.6	-377.4	-101.7	0.00	0.00	0.00	
9,600.0	11.83	254.51	9,561.5	-110.1	-397.1	-107.0	0.00	0.00	0.00	
9,700.0	11.83	254.51	9,659.4	-115.5	-416.9	-112.3	0.00	0.00	0.00	
9,800.0	11.83	254.51	9,757.3	-121.0	-436.6	-117.7	0.00	0.00	0.00	
9,900.0	11.83	254.51	9,855.2	-126.5	-456.4	-123.0	0.00	0.00	0.00	
9,921.5	11.83	254.51	9,876.2	-127.7	-460.6	-124.1	0.00	0.00	0.00	
<b>Z (L5.1: FBSC)</b>										
10,000.0	11.83	254.51	9,953.0	-132.0	-476.1	-128.3	0.00	0.00	0.00	
10,100.0	11.83	254.51	10,050.9	-137.4	-495.9	-133.6	0.00	0.00	0.00	
10,200.0	11.83	254.51	10,148.8	-142.9	-515.6	-138.9	0.00	0.00	0.00	
10,218.5	11.83	254.51	10,166.9	-143.9	-519.3	-139.9	0.00	0.00	0.00	
<b>Z (L4.3: SBSC)</b>										
10,300.0	11.83	254.51	10,246.7	-148.4	-535.4	-144.3	0.00	0.00	0.00	
10,400.0	11.83	254.51	10,344.6	-153.9	-555.1	-149.6	0.00	0.00	0.00	
10,500.0	11.83	254.51	10,442.4	-159.3	-574.9	-154.9	0.00	0.00	0.00	
10,600.0	11.83	254.51	10,540.3	-164.8	-594.6	-160.2	0.00	0.00	0.00	
10,605.1	11.83	254.51	10,545.3	-165.1	-595.6	-160.5	0.00	0.00	0.00	
<b>Z (L4.1: SBSG)</b>										
10,700.0	11.83	254.51	10,638.2	-170.3	-614.4	-165.6	0.00	0.00	0.00	
10,800.0	11.83	254.51	10,736.1	-175.7	-634.1	-170.9	0.00	0.00	0.00	
10,900.0	11.83	254.51	10,833.9	-181.2	-653.9	-176.2	0.00	0.00	0.00	
11,000.0	11.83	254.51	10,931.8	-186.7	-673.6	-181.5	0.00	0.00	0.00	
11,026.4	11.83	254.51	10,957.6	-188.1	-678.8	-182.9	0.00	0.00	0.00	
<b>Z (L3.3: TBSC)</b>										
11,100.0	11.83	254.51	11,029.7	-192.2	-693.4	-186.8	0.00	0.00	0.00	
11,200.0	11.83	254.51	11,127.6	-197.6	-713.1	-192.2	0.00	0.00	0.00	
11,300.0	11.83	254.51	11,225.5	-203.1	-732.9	-197.5	0.00	0.00	0.00	
11,400.0	11.83	254.51	11,323.3	-208.6	-752.6	-202.8	0.00	0.00	0.00	
11,500.0	11.83	254.51	11,421.2	-214.1	-772.4	-208.1	0.00	0.00	0.00	
11,523.5	11.83	254.51	11,444.2	-215.3	-777.0	-209.4	0.00	0.00	0.00	
<b>Start Drop -1.50</b>										
11,600.0	10.68	254.51	11,519.2	-219.3	-791.4	-213.3	1.50	-1.50	0.00	
11,683.9	9.42	254.51	11,601.9	-223.2	-805.5	-217.1	1.50	-1.50	0.00	
<b>Z (L3.1: TBSC)</b>										
11,700.0	9.18	254.51	11,617.7	-223.9	-808.0	-217.7	1.50	-1.50	0.00	
11,800.0	7.68	254.51	11,716.7	-227.9	-822.1	-221.5	1.50	-1.50	0.00	
11,900.0	6.18	254.51	11,815.9	-231.1	-833.7	-224.7	1.50	-1.50	0.00	
12,000.0	4.68	254.51	11,915.5	-233.6	-842.9	-227.1	1.50	-1.50	0.00	
12,088.6	3.35	254.51	12,003.9	-235.3	-848.8	-228.7	1.50	-1.50	0.00	
<b>Z (L2: WFMP A)</b>										
12,100.0	3.18	254.51	12,015.2	-235.4	-849.5	-228.9	1.50	-1.50	0.00	
12,200.0	1.68	254.51	12,115.1	-236.6	-853.5	-230.0	1.50	-1.50	0.00	
12,300.0	0.18	254.51	12,215.1	-237.0	-855.1	-230.4	1.50	-1.50	0.00	
12,311.9	0.00	0.00	12,227.0	-237.0	-855.1	-230.4	1.50	-1.50	888.43	
<b>Start 400.0 hold at 12311.9 MD</b>										

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site:</b>	Nina Cortell	<b>North Reference:</b>	Grid
<b>Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,400.0	0.00	0.00	12,315.1	-237.0	-855.1	-230.4	0.00	0.00	0.00
12,419.0	0.00	0.00	12,334.1	-237.0	-855.1	-230.4	0.00	0.00	0.00
<b>Z (WFMP B)</b>									
12,500.0	0.00	0.00	12,415.1	-237.0	-855.1	-230.4	0.00	0.00	0.00
12,600.0	0.00	0.00	12,515.1	-237.0	-855.1	-230.4	0.00	0.00	0.00
12,700.0	0.00	0.00	12,615.1	-237.0	-855.1	-230.4	0.00	0.00	0.00
12,711.9	0.00	0.00	12,627.0	-237.0	-855.1	-230.4	0.00	0.00	0.00
<b>Start Build 10.00 - KOP - Nina Cortell Fed Com #241H</b>									
12,800.0	8.81	338.05	12,714.8	-230.7	-857.6	-224.1	10.00	10.00	0.00
12,806.2	9.44	338.05	12,720.9	-229.8	-858.0	-223.2	10.00	10.00	0.00
<b>Z (WFMP C)</b>									
12,900.0	18.81	338.05	12,811.8	-208.6	-866.6	-202.0	10.00	10.00	0.00
12,962.4	25.05	338.05	12,869.6	-187.0	-875.3	-180.3	10.00	10.00	0.00
<b>FTP - Nina Cortell Fed Com #241H</b>									
13,000.0	28.81	338.05	12,903.1	-171.2	-881.6	-164.4	10.00	10.00	0.00
13,100.0	38.81	338.05	12,986.1	-119.7	-902.4	-112.7	10.00	10.00	0.00
13,200.0	48.81	338.05	13,058.2	-55.5	-928.3	-48.4	10.00	10.00	0.00
13,210.0	49.81	338.05	13,064.7	-48.5	-931.1	-41.3	10.00	10.00	0.00
<b>Z (WFMP D)</b>									
13,300.0	58.81	338.05	13,117.2	19.2	-958.4	26.6	10.00	10.00	0.00
13,400.0	68.81	338.05	13,161.2	102.4	-991.9	110.0	10.00	10.00	0.00
13,500.0	78.81	338.05	13,189.1	191.3	-1,027.7	199.2	10.00	10.00	0.00
13,600.0	88.81	338.05	13,199.8	283.4	-1,064.9	291.6	10.00	10.00	0.00
13,611.9	90.00	338.05	13,200.0	294.4	-1,069.3	302.6	10.00	10.00	0.00
<b>Start DLS 2.00 TFO 90.00</b>									
13,700.0	90.00	339.81	13,200.0	376.7	-1,101.0	385.1	2.00	0.00	2.00
13,800.0	90.00	341.81	13,200.0	471.1	-1,133.8	479.8	2.00	0.00	2.00
13,900.0	90.00	343.81	13,200.0	566.6	-1,163.4	575.5	2.00	0.00	2.00
14,000.0	90.00	345.81	13,200.0	663.1	-1,189.6	672.2	2.00	0.00	2.00
14,100.0	90.00	347.81	13,200.0	760.5	-1,212.4	769.8	2.00	0.00	2.00
14,200.0	90.00	349.81	13,200.0	858.6	-1,231.8	868.0	2.00	0.00	2.00
14,300.0	90.00	351.81	13,200.0	957.3	-1,247.8	966.8	2.00	0.00	2.00
14,376.1	90.00	353.33	13,200.0	1,032.7	-1,257.6	1,042.3	2.00	0.00	2.00
<b>BPP1 - Nina Cortell Fed Com #241H</b>									
14,400.0	90.00	353.81	13,200.0	1,056.5	-1,260.3	1,066.1	2.00	0.00	2.00
14,500.0	90.00	355.81	13,200.0	1,156.1	-1,269.3	1,165.8	2.00	0.00	2.00
14,600.0	90.00	357.81	13,200.0	1,255.9	-1,274.9	1,265.7	2.00	0.00	2.00
14,687.2	90.00	359.56	13,200.0	1,343.1	-1,276.9	1,352.9	2.00	0.00	2.00
<b>Start 8817.6 hold at 14687.2 MD</b>									
14,700.0	90.00	359.56	13,200.0	1,355.9	-1,277.0	1,365.7	0.00	0.00	0.00
14,800.0	90.00	359.56	13,200.0	1,455.9	-1,277.7	1,465.7	0.00	0.00	0.00
14,900.0	90.00	359.56	13,200.0	1,555.9	-1,278.5	1,565.7	0.00	0.00	0.00
15,000.0	90.00	359.56	13,200.0	1,655.9	-1,279.3	1,665.7	0.00	0.00	0.00
15,100.0	90.00	359.56	13,200.0	1,755.9	-1,280.1	1,765.7	0.00	0.00	0.00
15,200.0	90.00	359.56	13,200.0	1,855.9	-1,280.8	1,865.7	0.00	0.00	0.00
15,300.0	90.00	359.56	13,200.0	1,955.9	-1,281.6	1,965.7	0.00	0.00	0.00
15,400.0	90.00	359.56	13,200.0	2,055.9	-1,282.4	2,065.7	0.00	0.00	0.00
15,500.0	90.00	359.56	13,200.0	2,155.9	-1,283.1	2,165.7	0.00	0.00	0.00
15,600.0	90.00	359.56	13,200.0	2,255.9	-1,283.9	2,265.7	0.00	0.00	0.00
15,697.6	90.00	359.56	13,200.0	2,353.4	-1,284.7	2,363.2	0.00	0.00	0.00
<b>BPP2 - Nina Cortell Fed Com #241H</b>									
15,700.0	90.00	359.56	13,200.0	2,355.9	-1,284.7	2,365.7	0.00	0.00	0.00
15,800.0	90.00	359.56	13,200.0	2,455.9	-1,285.5	2,465.7	0.00	0.00	0.00



## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site:</b>	Nina Cortell	<b>North Reference:</b>	Grid
<b>Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,900.0	90.00	359.56	13,200.0	2,555.9	-1,286.2	2,565.7	0.00	0.00	0.00	
16,000.0	90.00	359.56	13,200.0	2,655.9	-1,287.0	2,665.7	0.00	0.00	0.00	
16,100.0	90.00	359.56	13,200.0	2,755.9	-1,287.8	2,765.7	0.00	0.00	0.00	
16,200.0	90.00	359.56	13,200.0	2,855.9	-1,288.6	2,865.7	0.00	0.00	0.00	
16,300.0	90.00	359.56	13,200.0	2,955.9	-1,289.3	2,965.7	0.00	0.00	0.00	
16,400.0	90.00	359.56	13,200.0	3,055.8	-1,290.1	3,065.7	0.00	0.00	0.00	
16,500.0	90.00	359.56	13,200.0	3,155.8	-1,290.9	3,165.7	0.00	0.00	0.00	
16,600.0	90.00	359.56	13,200.0	3,255.8	-1,291.6	3,265.7	0.00	0.00	0.00	
16,700.0	90.00	359.56	13,200.0	3,355.8	-1,292.4	3,365.7	0.00	0.00	0.00	
16,800.0	90.00	359.56	13,200.0	3,455.8	-1,293.2	3,465.7	0.00	0.00	0.00	
16,900.0	90.00	359.56	13,200.0	3,555.8	-1,294.0	3,565.7	0.00	0.00	0.00	
17,000.0	90.00	359.56	13,200.0	3,655.8	-1,294.7	3,665.7	0.00	0.00	0.00	
17,100.0	90.00	359.56	13,200.0	3,755.8	-1,295.5	3,765.7	0.00	0.00	0.00	
17,200.0	90.00	359.56	13,200.0	3,855.8	-1,296.3	3,865.7	0.00	0.00	0.00	
17,300.0	90.00	359.56	13,200.0	3,955.8	-1,297.1	3,965.7	0.00	0.00	0.00	
17,400.0	90.00	359.56	13,200.0	4,055.8	-1,297.8	4,065.7	0.00	0.00	0.00	
17,500.0	90.00	359.56	13,200.0	4,155.8	-1,298.6	4,165.7	0.00	0.00	0.00	
17,600.0	90.00	359.56	13,200.0	4,255.8	-1,299.4	4,265.7	0.00	0.00	0.00	
17,700.0	90.00	359.56	13,200.0	4,355.8	-1,300.1	4,365.7	0.00	0.00	0.00	
17,800.0	90.00	359.56	13,200.0	4,455.8	-1,300.9	4,465.7	0.00	0.00	0.00	
17,900.0	90.00	359.56	13,200.0	4,555.8	-1,301.7	4,565.7	0.00	0.00	0.00	
18,000.0	90.00	359.56	13,200.0	4,655.8	-1,302.5	4,665.7	0.00	0.00	0.00	
18,100.0	90.00	359.56	13,200.0	4,755.8	-1,303.2	4,765.7	0.00	0.00	0.00	
18,200.0	90.00	359.56	13,200.0	4,855.8	-1,304.0	4,865.7	0.00	0.00	0.00	
18,300.0	90.00	359.56	13,200.0	4,955.8	-1,304.8	4,965.7	0.00	0.00	0.00	
18,337.0	90.00	359.56	13,200.0	4,992.8	-1,305.1	5,002.7	0.00	0.00	0.00	
<b>BPP3 - Nina Cortell Fed Com #241H</b>										
18,400.0	90.00	359.56	13,200.0	5,055.8	-1,305.5	5,065.7	0.00	0.00	0.00	
18,500.0	90.00	359.56	13,200.0	5,155.8	-1,306.3	5,165.7	0.00	0.00	0.00	
18,600.0	90.00	359.56	13,200.0	5,255.8	-1,307.1	5,265.7	0.00	0.00	0.00	
18,700.0	90.00	359.56	13,200.0	5,355.8	-1,307.9	5,365.7	0.00	0.00	0.00	
18,800.0	90.00	359.56	13,200.0	5,455.8	-1,308.6	5,465.7	0.00	0.00	0.00	
18,900.0	90.00	359.56	13,200.0	5,555.8	-1,309.4	5,565.7	0.00	0.00	0.00	
19,000.0	90.00	359.56	13,200.0	5,655.8	-1,310.2	5,665.7	0.00	0.00	0.00	
19,100.0	90.00	359.56	13,200.0	5,755.8	-1,311.0	5,765.7	0.00	0.00	0.00	
19,200.0	90.00	359.56	13,200.0	5,855.8	-1,311.7	5,865.7	0.00	0.00	0.00	
19,300.0	90.00	359.56	13,200.0	5,955.8	-1,312.5	5,965.7	0.00	0.00	0.00	
19,400.0	90.00	359.56	13,200.0	6,055.8	-1,313.3	6,065.7	0.00	0.00	0.00	
19,500.0	90.00	359.56	13,200.0	6,155.8	-1,314.0	6,165.7	0.00	0.00	0.00	
19,600.0	90.00	359.56	13,200.0	6,255.8	-1,314.8	6,265.7	0.00	0.00	0.00	
19,700.0	90.00	359.56	13,200.0	6,355.8	-1,315.6	6,365.7	0.00	0.00	0.00	
19,800.0	90.00	359.56	13,200.0	6,455.7	-1,316.4	6,465.7	0.00	0.00	0.00	
19,900.0	90.00	359.56	13,200.0	6,555.7	-1,317.1	6,565.7	0.00	0.00	0.00	
20,000.0	90.00	359.56	13,200.0	6,655.7	-1,317.9	6,665.7	0.00	0.00	0.00	
20,100.0	90.00	359.56	13,200.0	6,755.7	-1,318.7	6,765.7	0.00	0.00	0.00	
20,200.0	90.00	359.56	13,200.0	6,855.7	-1,319.5	6,865.7	0.00	0.00	0.00	
20,300.0	90.00	359.56	13,200.0	6,955.7	-1,320.2	6,965.7	0.00	0.00	0.00	
20,400.0	90.00	359.56	13,200.0	7,055.7	-1,321.0	7,065.7	0.00	0.00	0.00	
20,500.0	90.00	359.56	13,200.0	7,155.7	-1,321.8	7,165.7	0.00	0.00	0.00	
20,600.0	90.00	359.56	13,200.0	7,255.7	-1,322.5	7,265.7	0.00	0.00	0.00	
20,700.0	90.00	359.56	13,200.0	7,355.7	-1,323.3	7,365.7	0.00	0.00	0.00	
20,800.0	90.00	359.56	13,200.0	7,455.7	-1,324.1	7,465.7	0.00	0.00	0.00	
20,900.0	90.00	359.56	13,200.0	7,555.7	-1,324.9	7,565.7	0.00	0.00	0.00	
20,977.5	90.00	359.56	13,200.0	7,633.2	-1,325.5	7,643.1	0.00	0.00	0.00	

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site:</b>	Nina Cortell	<b>North Reference:</b>	Grid
<b>Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
<b>BPP4 - Nina Cortell Fed Com #241H</b>										
21,000.0	90.00	359.56	13,200.0	7,655.7	-1,325.6	7,665.7	0.00	0.00	0.00	
21,100.0	90.00	359.56	13,200.0	7,755.7	-1,326.4	7,765.7	0.00	0.00	0.00	
21,200.0	90.00	359.56	13,200.0	7,855.7	-1,327.2	7,865.7	0.00	0.00	0.00	
21,300.0	90.00	359.56	13,200.0	7,955.7	-1,328.0	7,965.7	0.00	0.00	0.00	
21,400.0	90.00	359.56	13,200.0	8,055.7	-1,328.7	8,065.7	0.00	0.00	0.00	
21,500.0	90.00	359.56	13,200.0	8,155.7	-1,329.5	8,165.7	0.00	0.00	0.00	
21,600.0	90.00	359.56	13,200.0	8,255.7	-1,330.3	8,265.7	0.00	0.00	0.00	
21,700.0	90.00	359.56	13,200.0	8,355.7	-1,331.0	8,365.7	0.00	0.00	0.00	
21,800.0	90.00	359.56	13,200.0	8,455.7	-1,331.8	8,465.7	0.00	0.00	0.00	
21,900.0	90.00	359.56	13,200.0	8,555.7	-1,332.6	8,565.7	0.00	0.00	0.00	
22,000.0	90.00	359.56	13,200.0	8,655.7	-1,333.4	8,665.7	0.00	0.00	0.00	
22,100.0	90.00	359.56	13,200.0	8,755.7	-1,334.1	8,765.7	0.00	0.00	0.00	
22,200.0	90.00	359.56	13,200.0	8,855.7	-1,334.9	8,865.7	0.00	0.00	0.00	
22,300.0	90.00	359.56	13,200.0	8,955.7	-1,335.7	8,965.7	0.00	0.00	0.00	
22,400.0	90.00	359.56	13,200.0	9,055.7	-1,336.4	9,065.7	0.00	0.00	0.00	
22,500.0	90.00	359.56	13,200.0	9,155.7	-1,337.2	9,165.7	0.00	0.00	0.00	
22,600.0	90.00	359.56	13,200.0	9,255.7	-1,338.0	9,265.7	0.00	0.00	0.00	
22,700.0	90.00	359.56	13,200.0	9,355.7	-1,338.8	9,365.7	0.00	0.00	0.00	
22,800.0	90.00	359.56	13,200.0	9,455.7	-1,339.5	9,465.7	0.00	0.00	0.00	
22,900.0	90.00	359.56	13,200.0	9,555.7	-1,340.3	9,565.7	0.00	0.00	0.00	
23,000.0	90.00	359.56	13,200.0	9,655.7	-1,341.1	9,665.7	0.00	0.00	0.00	
23,100.0	90.00	359.56	13,200.0	9,755.6	-1,341.9	9,765.7	0.00	0.00	0.00	
23,200.0	90.00	359.56	13,200.0	9,855.6	-1,342.6	9,865.7	0.00	0.00	0.00	
23,300.0	90.00	359.56	13,200.0	9,955.6	-1,343.4	9,965.7	0.00	0.00	0.00	
23,400.0	90.00	359.56	13,200.0	10,055.6	-1,344.2	10,065.7	0.00	0.00	0.00	
23,500.0	90.00	359.56	13,200.0	10,155.6	-1,344.9	10,165.7	0.00	0.00	0.00	
23,504.9	90.00	359.56	13,200.0	10,160.5	-1,345.0	10,170.5	0.00	0.00	0.00	
<b>TD at 23504.9 - BHL - Nina Cortell Fed Com #241H</b>										

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Project:	Antelope Ridge	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site:	Nina Cortell	North Reference:	Grid
Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP - Nina Cortell Fed C	0.00	0.00	12,627.0	-237.0	-855.1	509,493.00	705,283.00	32° 23' 56.240 N	103° 40' 5.625 W
- plan hits target center									
- Point									
FTP - Nina Cortell Fed C	0.00	0.00	12,869.6	-187.0	-875.1	509,543.04	705,263.05	32° 23' 56.736 N	103° 40' 5.854 W
- plan misses target center by 0.2usft at 12962.4usft MD (12869.6 TVD, -187.0 N, -875.3 E)									
- Point									
BPP2 - Nina Cortell Fed	0.00	0.00	13,200.0	2,353.4	-1,284.4	512,083.34	704,853.72	32° 24' 21.899 N	103° 40' 10.444 W
- plan misses target center by 0.3usft at 15697.6usft MD (13200.0 TVD, 2353.4 N, -1284.7 E)									
- Point									
BPP1 - Nina Cortell Fed	0.00	0.00	13,200.0	1,032.8	-1,257.3	510,762.68	704,880.79	32° 24' 8.829 N	103° 40' 10.224 W
- plan misses target center by 0.3usft at 14376.1usft MD (13200.0 TVD, 1032.7 N, -1257.6 E)									
- Point									
BPP3 - Nina Cortell Fed	0.00	0.00	13,200.0	4,992.8	-1,304.8	514,722.80	704,833.28	32° 24' 48.019 N	103° 40' 10.492 W
- plan misses target center by 0.3usft at 18337.0usft MD (13200.0 TVD, 4992.8 N, -1305.1 E)									
- Point									
BPP4 - Nina Cortell Fed	0.00	0.00	13,200.0	7,633.2	-1,325.2	517,363.39	704,812.85	32° 25' 14.150 N	103° 40' 10.539 W
- plan misses target center by 0.3usft at 20977.5usft MD (13200.0 TVD, 7633.2 N, -1325.5 E)									
- Point									
BHL - Nina Cortell Fed C	0.00	0.00	13,200.0	10,160.5	-1,345.0	519,891.00	704,793.00	32° 25' 39.163 N	103° 40' 10.587 W
- plan hits target center									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
928.2	928.2	Z(Rustler)		0.00	359.56
1,252.3	1,252.3	Z (Salado) (Top Salt)		0.00	359.56
3,135.9	3,135.9	Z (Castile (T))		0.00	359.56
4,846.8	4,846.8	Z (G30:CS14-CSB) (Base of Salt)		0.00	359.56
5,113.3	5,113.3	Z (G26: Bell Cyn.)		0.00	359.56
5,767.3	5,767.3	Z (G13: Cherry Cyn.)		0.00	359.56
6,999.2	6,999.2	Z (G7: Brushy Cyn.) Antelope Ridge		0.00	359.56
8,810.9	8,789.2	Z (G4: BSGl (CS9))		0.00	359.56
9,921.5	9,876.2	Z (L5.1: FBSG)		0.00	359.56
10,218.5	10,166.9	Z (L4.3: SBSC)		0.00	359.56
10,605.1	10,545.3	Z (L4.1: SBSC)		0.00	359.56
11,026.4	10,957.6	Z (L3.3: TBSC)		0.00	359.56
11,683.9	11,601.9	Z (L3.1: TBSC)		0.00	359.56
12,088.6	12,003.9	Z (L2: WFMP A)		0.00	359.56
12,419.0	12,334.1	Z (WFMP B)		0.00	359.56
12,806.2	12,720.9	Z (WFMP C)		0.00	359.56
13,210.0	13,064.7	Z (WFMP D)		0.00	359.56

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Project:	Antelope Ridge	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site:	Nina Cortell	North Reference:	Grid
Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,000.0	7,000.0	0.0	0.0	Start Build 1.00
8,182.6	8,174.2	-32.5	-117.2	Start 3340.9 hold at 8182.6 MD
11,523.5	11,444.3	-215.2	-776.6	Start Drop -1.50
12,311.9	12,227.1	-236.9	-854.7	Start 400.0 hold at 12311.9 MD
12,711.9	12,627.1	-236.9	-854.7	Start Build 10.00
13,611.9	13,200.0	294.6	-1,068.9	Start DLS 2.00 TFO 90.00
14,687.2	13,200.0	1,343.4	-1,276.4	Start 8817.6 hold at 14687.2 MD
23,504.9				TD at 23504.9

## Offline Cementing - Intermediate Casing

**Nina Cortell Fed Com 241H**  
**SHL: 272' FSL & 1601' FWL Section 10**

**Township/Range: 22S 32E**  
**Elevation Above Sea Level: 3790'**

Matador Production Company requests the option to cement the intermediate casing string offline as a prudent batch drilling efficiency of acreage development.

### Cement Program

No changes to the cement program will take place for offline cementing.

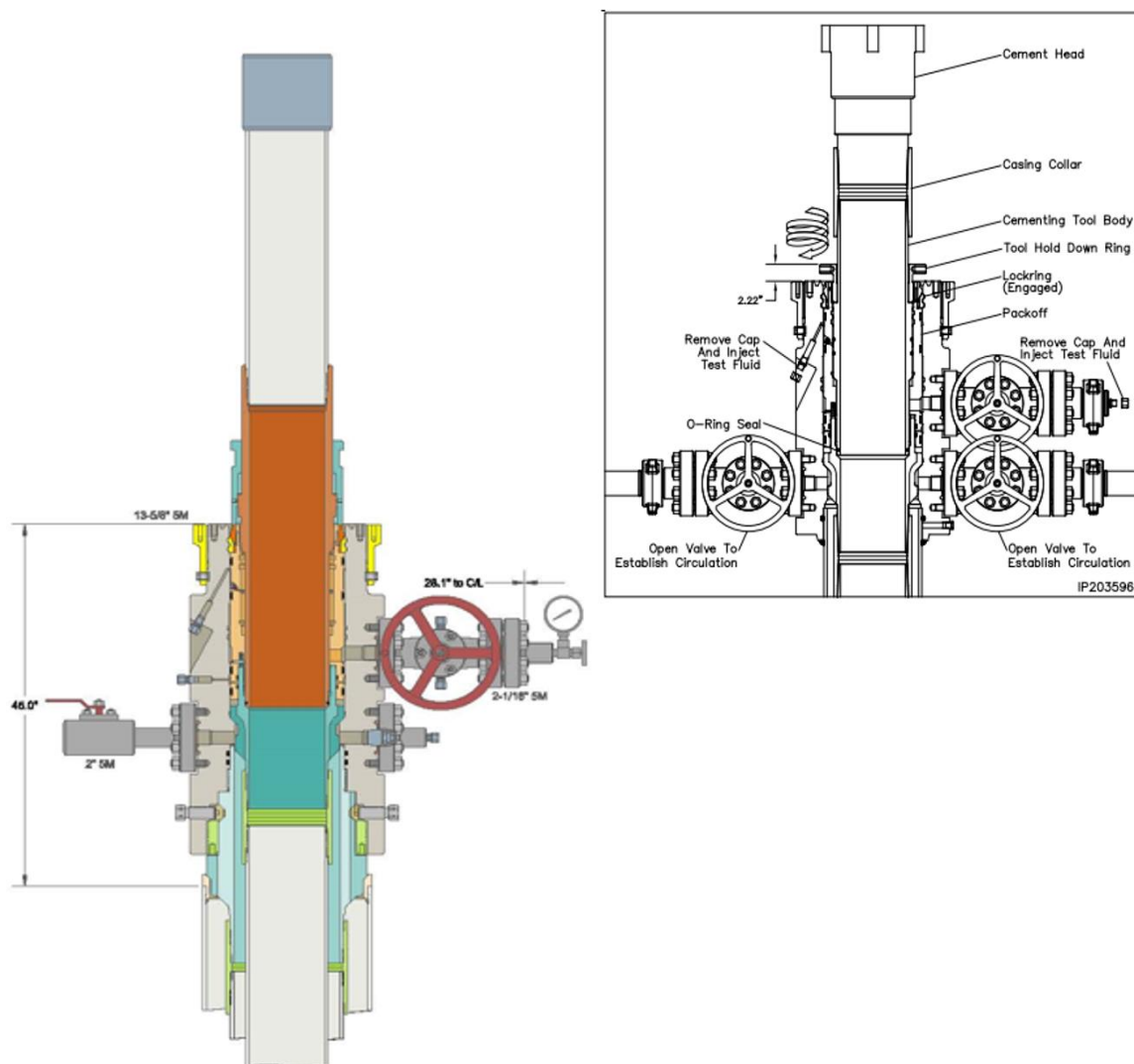
### Offline Cementing Procedure

The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
  - Casing installed successfully with no issues.
  - No observed shallow gas or other anomalies
  - Intermediate hole section must have a MASP of 5,000 psi or lower.
1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
  2. Land Intermediate casing with fluted mandrel hanger through BOP stack.
  3. Remove the landing joint and set packoff through BOP. Pressure test seals to 5,000 psi for 10 minutes. After the test, engage the lockring.
  4. Notify the BLM 4 hours prior to N/D BOP and offline cementing. Confirm the following barriers are operational:
    - a. Inside Casing: 2 float valves and mud weight sufficient to hold back pore pressure
    - b. Annulus (outside) Casing: Packoff and mud weight sufficient to hold back pore pressure
  5. Once the well is secure and BLM has been notified, proceed with nipping down BOP and installing cap flange.
  6. Skid rig to the next well on the pad.
  7. Rig up lines to take returns from wellhead through the cement choke manifold to the pits.
  8. Attach a test pump with manifold to the open fitting and pump clean fluid until a stable test pressure of 5,000 psi is achieved. Hold pressure for 15 minutes. After a satisfactory test, bleed off test pressure, remove test pump and reinstall cap flange on the open fitting.
  9. Attach the test pump to the upper outlet valve and pressure up the void area between the upper and lowermost O-rings until a stable test pressure of 5,000 psi is achieved. After a satisfactory test, bleed off all test pressure and leave the upper valve in the open position.
  10. Place a mark across the top of the wellhead to monitor possible rotation of the tool during the cement job.
  11. Install the casing hanger/packoff offline cementing tool. Rig up cement head and cementing lines. Pressure test lines against the cement head as per cement procedure.
  12. Break circulation on well to confirm no restrictions. If shallow gas is encountered, shut in the well and reroute returns through the gas buster.
    - a. Max anticipated time before circulating with cement truck is 24 hours.
  13. Establish circulation and cement casing as per plan, taking returns through the two 2-1/16" 5M gate valves on the housing lower outlets. At plug bump, pressure test casing to 0.22 psi/ft per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.
  14. With cement in place, confirm well is static and floats are holding. Bleed off the cement pressure and remove cement head.
  15. Remove the casing hanger/packoff offline cementing tool.
  16. Install TA cap with pressure gauge for monitoring.

## Offline Cementing - Intermediate Casing

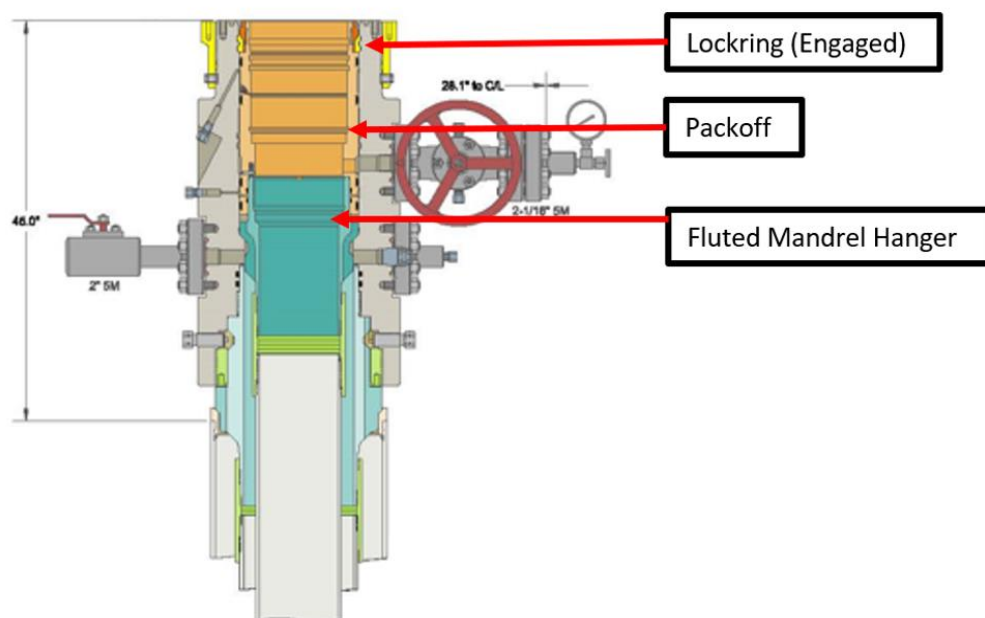
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



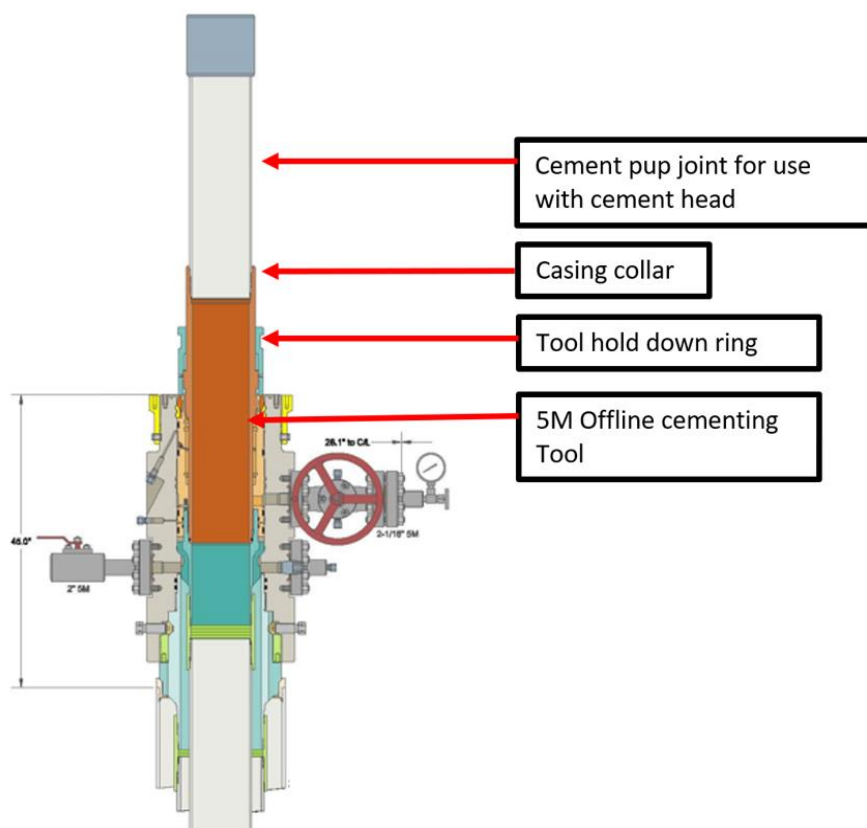
## Offline Cementing - Intermediate Casing

**Figure 2: Step-by-Step schematics procedure**

**Step 1:** Landing the mandrel hanger and setting the packoff. The well is sealed with mud, two float valves, and packoff.



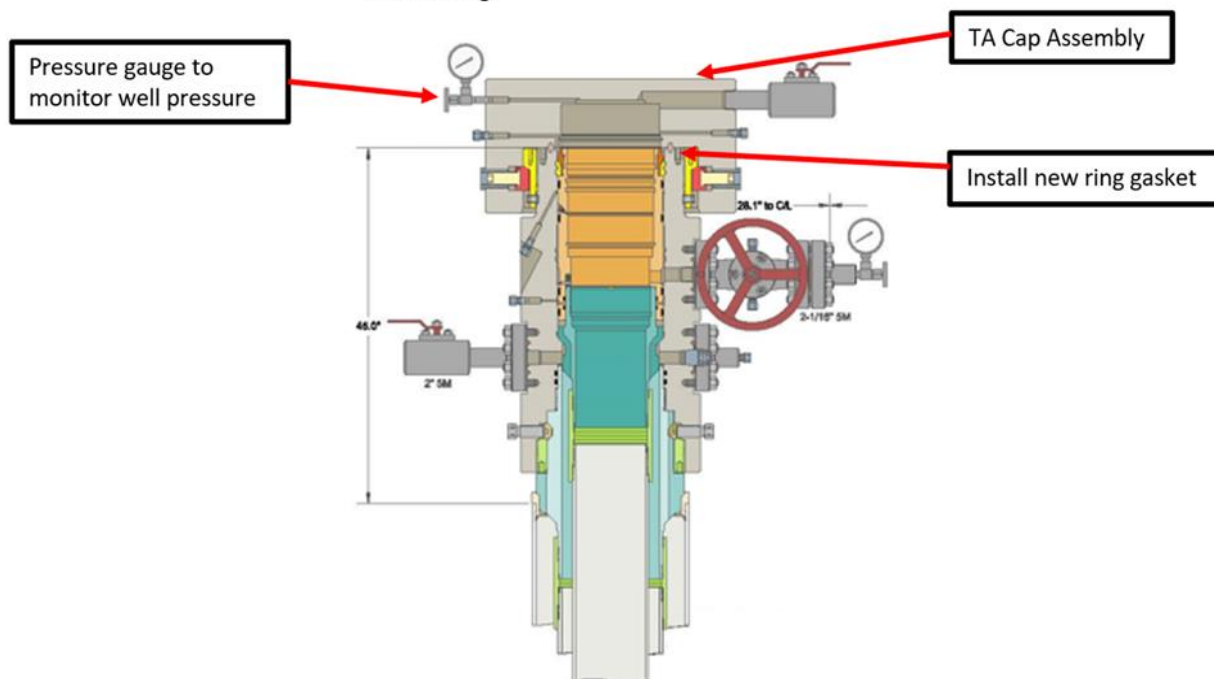
**Step 2:** Install casing hanger/packoff offline cementing tool.





## Offline Cementing - Intermediate Casing

**Step 3:** Install TA cap with pressure gauge for monitoring.



**Drill Plan**

**Nina Cortell Fed Com 241H**  
**SHL: 272' FSL & 1601' FWL Section 10**  
**BHL: 110' FNL & 330' FWL Section 3**  
**Township/Range: 22S 32E**  
**Elevation Above Sea Level: 3790**

**Sundry Request**

Matador request the option to amend the well design of the Nina Cortell Fed Com #221H and make the following changes to the current APD:

- Changed the well name from Nina Cortell Fed Com #221H to the Nina Cortell Fed Com #241H
- Change BHL from 60' FNL & 990' FWL to 110' FNL & 330' FWL. All perforations will be within the setback requirements as previously approved.
- Amend casing and cementing plan by adding an additional intermediate string of casing and revising set depths as described below.

**Drilling Operation Plan**

Proposed Drilling Depth: 23504' MD / 13200' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3990862 N / -103.6700453 W

TD Lat/Long (NAD83): 32.4276692 N / -103.6700955 W

**1. Estimated Tops**

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	928	928	324	Anhydrite	Barren
Salado (Top of Salt)	1,252	1,252	1,883	Salt	Barren
Castile	3,135	3,135	1,711	Salt	Barren
Lamar (Base of Salt)	4,846	4,846	267	Limestone	Barren
Bell Canyon	5,113	5,113	654	Sandstone	Oil/Natural Gas
Cherry Canyon	5,767	5,767	1,232	Sandstone	Oil/Natural Gas
Brushy Canyon	6,999	6,999	1,790	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,810	8,789	89,973	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,921	98,762	(88,596)	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,218	10,166	379	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,605	10,545	412	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	11,026	10,957	644	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	11,683	11,601	402	Sandstone	Oil/Natural Gas
Wolfcamp	12,088	12,003	-	Shale	Oil/Natural Gas
<b>KOP</b>	<b>12,711</b>	<b>12,627</b>	-	<b>Shale</b>	<b>Oil/Natural Gas</b>
<b>TD</b>	<b>23,504</b>	<b>13,200</b>	-	<b>Shale</b>	<b>Oil/Natural Gas</b>

**2. Notable Zones**

**Drill Plan**

Wolfcamp is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 375'.

### **3. Pressure Control**

#### **Equipment**

Matador requests a variance for a 2M annular to be installed after running 16" casing.

A 18,000' 10,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

An accumulator complying with Title 43 CFR 3172 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

#### **Testing Procedure**

BOP will be inspected and operated as required in Title 43 CFR 3172. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting surface casing, a minimum 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 5000 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 10M BOPE system is re-installed.

#### **Variance Request**

Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

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. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The "Well Control Plan For 10M MASP Section of Wellbore" is attached.

Matador request the option to offline cement surface casing. The "Offline Cementing - Surface Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to offline cement intermediate casing. The "Offline Cementing - Intermediate Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to break test the BOP during batch drilling operations. The "Modified BOP Testing Procedure for Batch Drilling" Procedure is attached for review.

Matador request the option to utilize a spudder rig for setting surface and intermediate 1 casing strings.

**Drill Plan****4. Casing & Cement**

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 5163	0 - 5163	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 12561	0 - 12477	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 23504	0 - 13200	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for

**Variance Request**

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review. Option to cancel 2nd stage cement if cement is circulated on 1st stage.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

**Primary Cement Design - DV/Packer 2-Stage Cement**

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	140	1.78	242	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	650	1.84	1197	12.5	50%	0	C	5% NaCl + LCM
	Stg 1 Tail	230	1.33	304	14.8	50%	4163	C	5% NaCl + LCM
Intermediate 2 w/ DV @ 5213'	Stg 2 Tail	650	1.78	1163	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	360	3.66	1309	10.3	35%	0	A/C	Bentonite + 1% CaCL <sub>2</sub> + 8% NaCl + LCM
	Stg 1 Tail	210	1.38	290	13.2	35%	11561	A/C	5% NaCl + LCM
Production	Tail	860	1.35	1163	13.2	25%	12361	A/C	Fluid Loss + Dispersant + Retarder

**Drill Plan**

Matador Request option for approval of a contingency cement design utilizing backside bradenhead squeeze. First stage cement will be conventionally bringing tail cement to Brushy Canyon or Capitan based on area and casing string. Second stage will then be pumped down the backside with volumes sufficient to reach previous top of cement. If confidence is lacking in the squeeze job, a CBL will be ran to verify quality and results submitted to the BLM.

**5. Mud Program**

An electronic Pason mud monitoring system complying with Title 43 CFR 3172 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.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	1728 - 5163	9.8 - 10.2	28-30	NC
Intermediate 2	9.875	Cut Brine	5163 - 12561	8.6 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	12561 - 23504	11.5 - 13.5	50-65	<20

**6. Cores, Test, & Logs**

No core or drill stem test is planned.

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 top of curve. We will be running a Neutron log on one of the wells on

**7. Down Hole Conditions**

No abnormal pressure or temperature is expected. Bottom hole pressure is 9266 psi. Maximum anticipated surface pressure is 6362 psi. Expected bottom hole temperature is 190 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H<sub>2</sub>S safety package on all wells, attached is an "H<sub>2</sub>S Drilling Operations Plan". 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.





SURVEY PROGRAM

WELL DETAILS: Nina Cortell Fed Com #241H

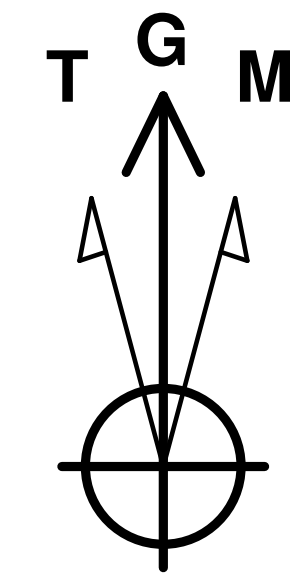
Depth From	Depth To	Survey/Plan	Tool			GL @ 3790.0	KB @ 3818.5usft (Original Well Elev)			Slot
0.0	23504.9	BLM Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
				0.0	0.0	509729.98	706138.05	32° 23' 58.532 N	103° 39' 55.635 W	

DESIGN TARGET DETAILS

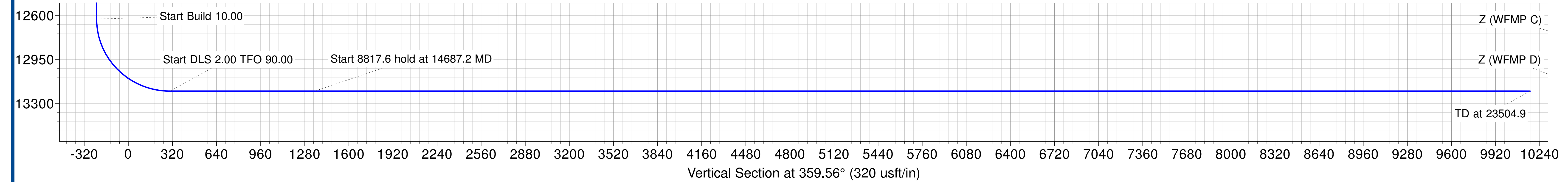
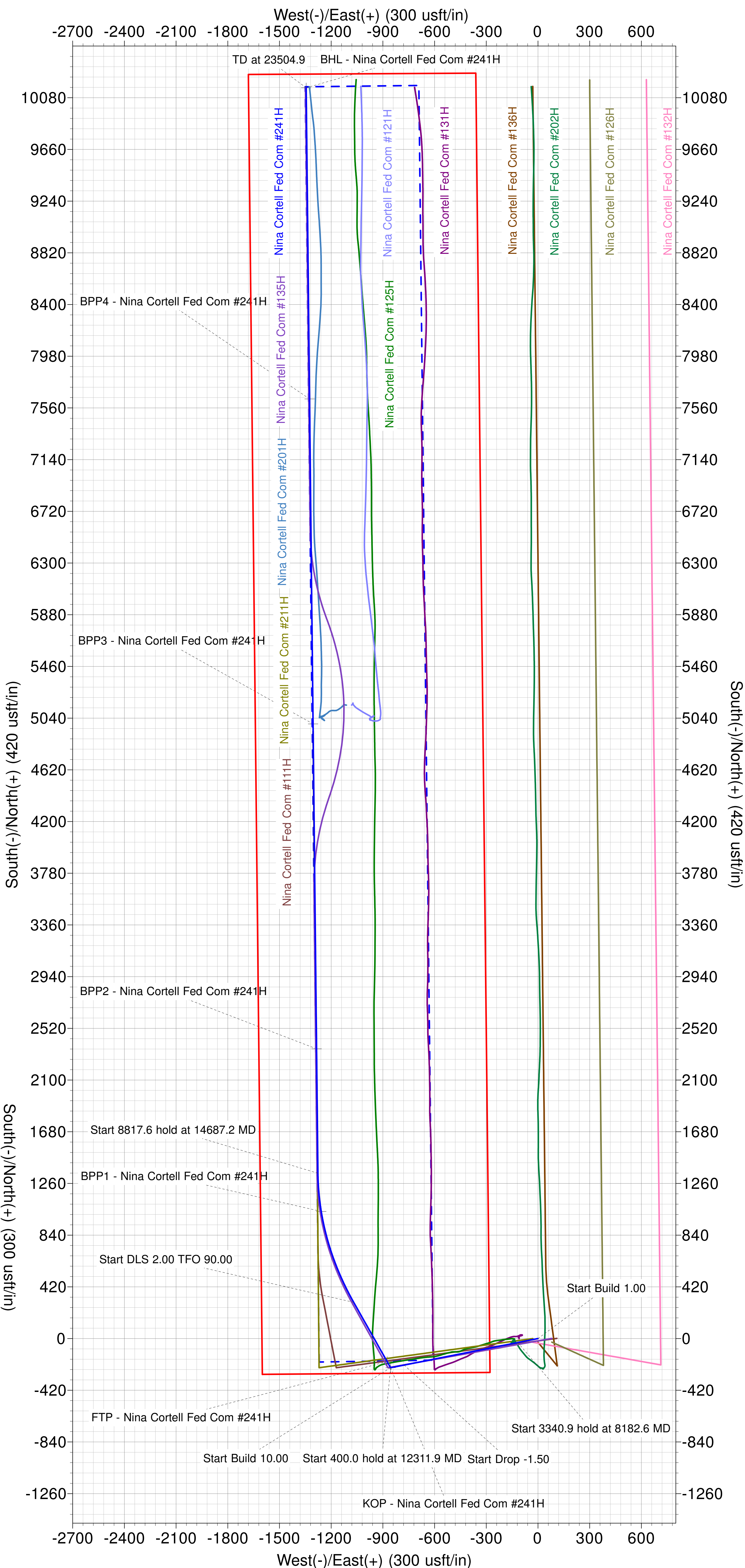
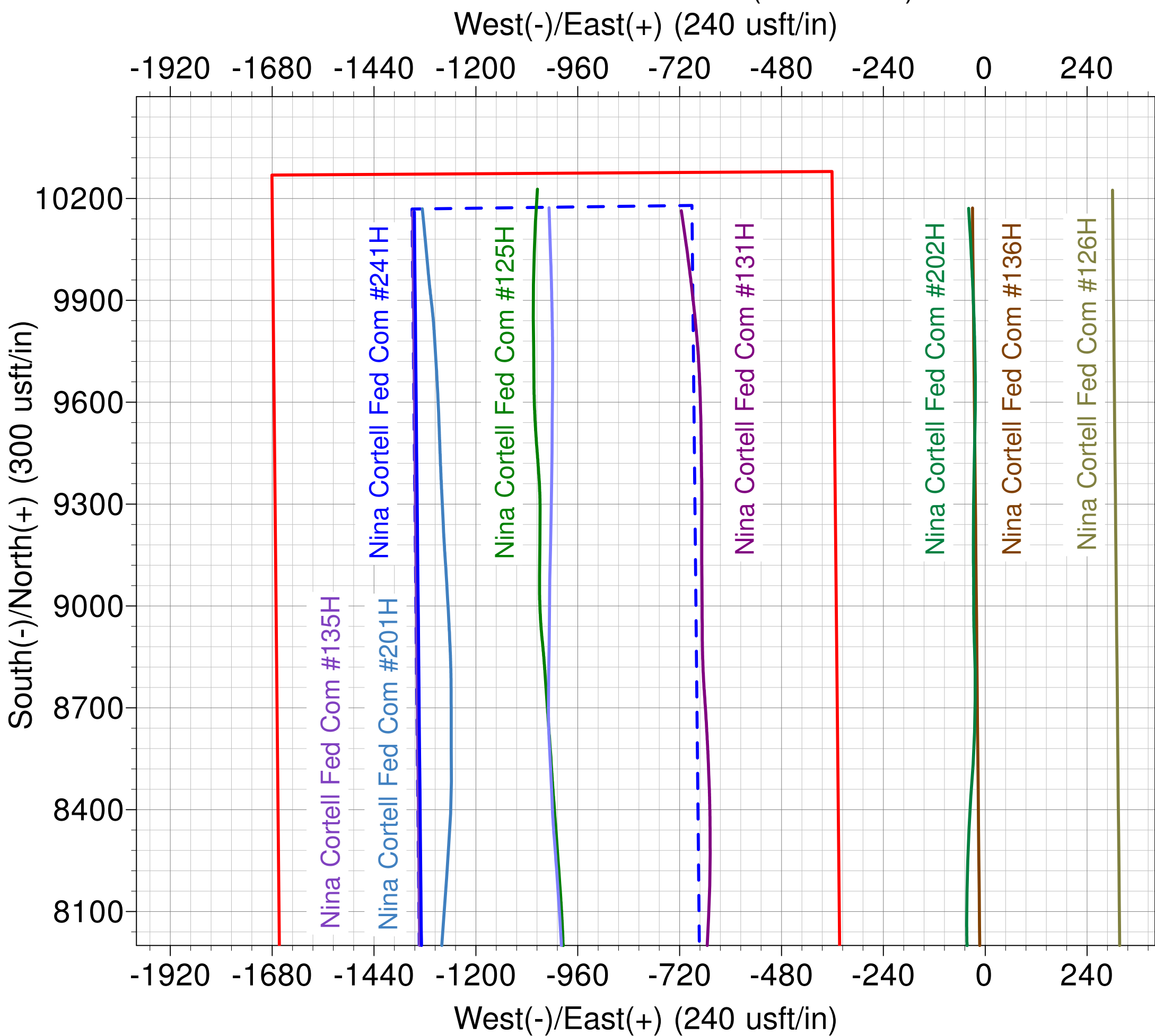
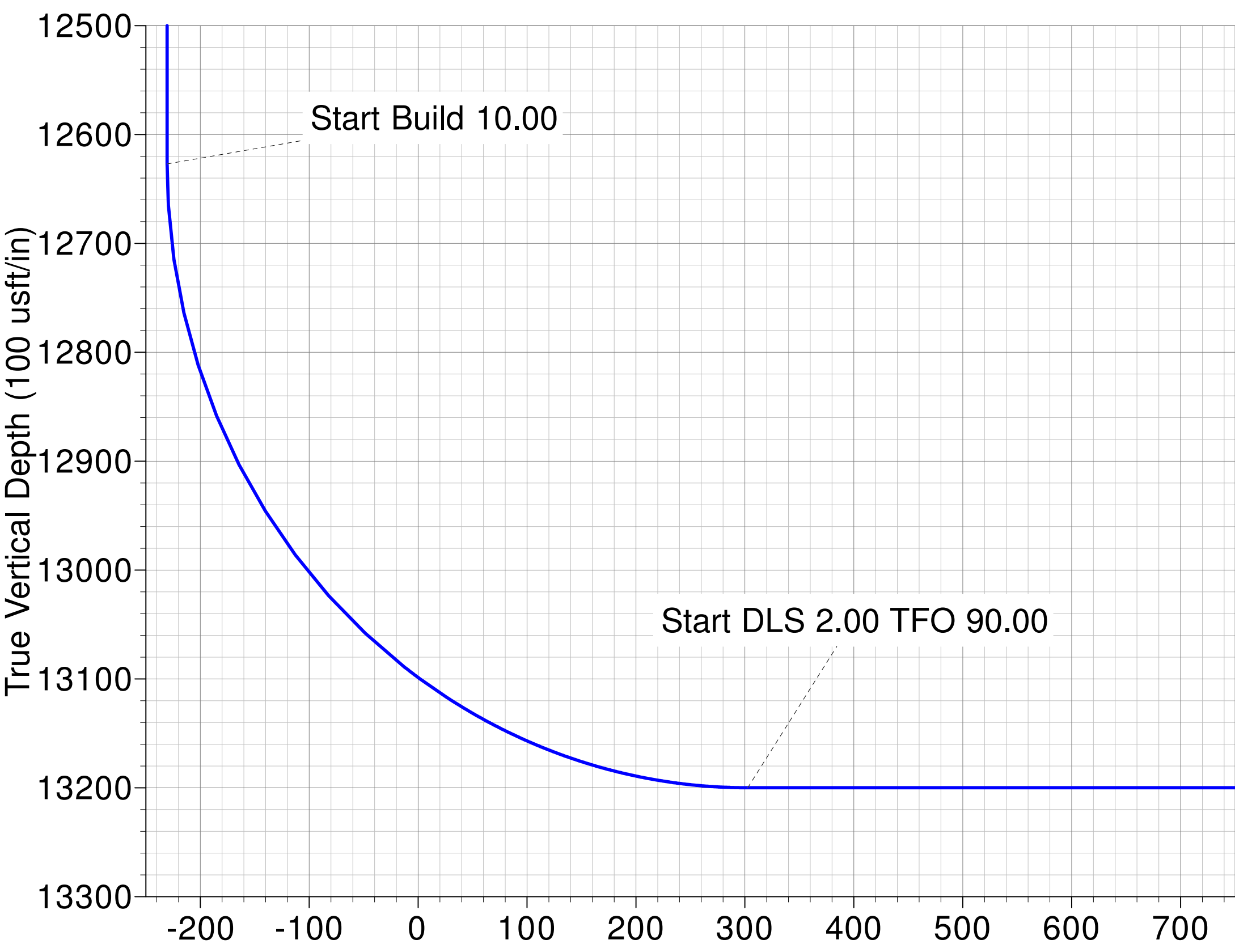
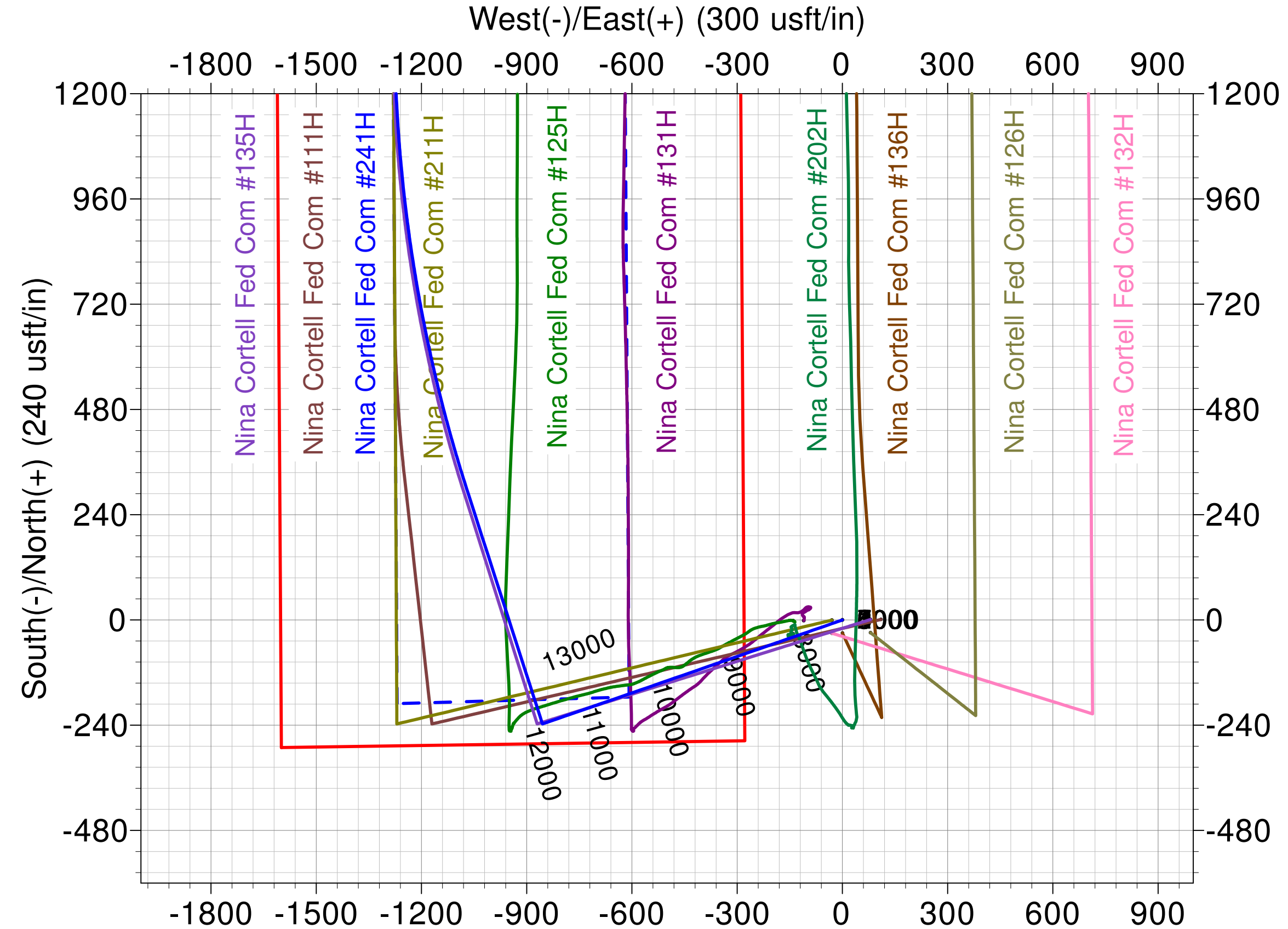
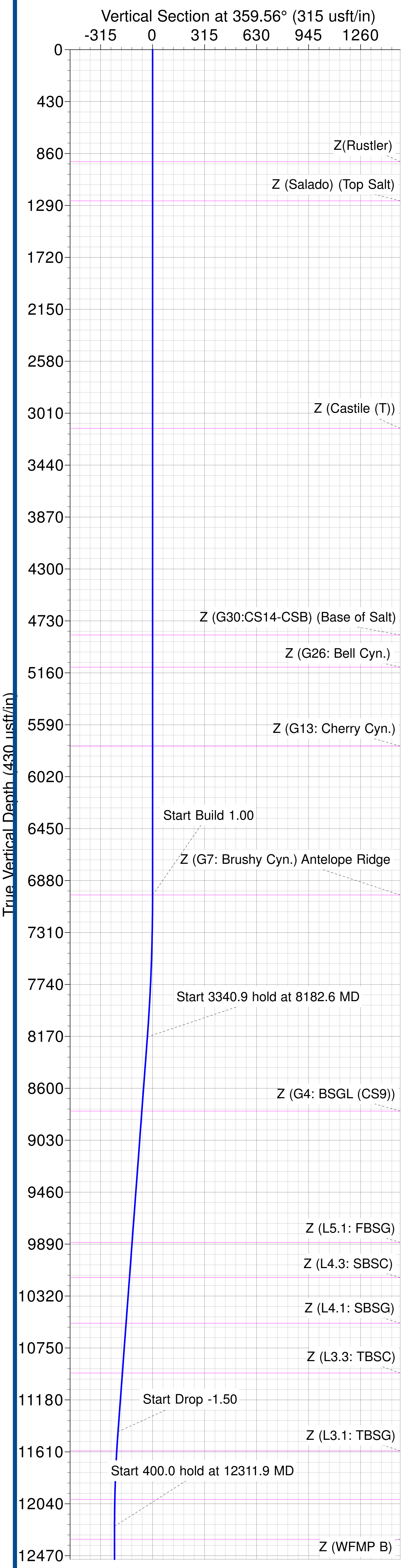
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Nina Cortell Fed Com #241H	12627.0	-237.0	-855.1	509493.00	705283.00	32° 23' 56.240 N	103° 40' 5.625 W
BHL - Nina Cortell Fed Com #241H	13200.0	10160.5	-1345.0	519891.00	704793.00	32° 25' 39.163 N	103° 40' 10.587 W
BPP1 - Nina Cortell Fed Com #241H	13200.0	1032.8	-1257.3	510762.68	704880.79	32° 24' 8.829 N	103° 40' 10.224 W
BPP2 - Nina Cortell Fed Com #241H	13200.0	2353.4	-1284.4	512083.34	704853.72	32° 24' 21.899 N	103° 40' 10.444 W
BPP3 - Nina Cortell Fed Com #241H	13200.0	4992.8	-1304.8	514722.80	704833.29	32° 24' 48.019 N	103° 40' 10.492 W
BPP4 - Nina Cortell Fed Com #241H	13200.0	7633.2	-1325.2	517363.38	704812.85	32° 25' 14.150 N	103° 40' 10.539 W
FTP - Nina Cortell Fed Com #241H	12869.6	-187.0	-875.1	509543.04	705263.05	32° 23' 56.736 N	103° 40' 5.854 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
7000.0	0.00	0.00	7000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
8182.6	11.83	254.51	8174.2	-32.5	-117.2	1.00	254.51	-31.6	Start 3340.9 hold at 8182.6 MD
11523.5	11.83	254.51	11444.2	-215.3	-777.0	0.00	0.00	-209.4	Start Drop -1.50
12311.9	0.00	0.00	12227.0	-237.0	-855.1	1.50	180.00	-230.4	Start 400.0 hold at 12311.9 MD
12711.9	0.00	0.00	12627.0	-237.0	-855.1	0.00	0.00	-230.4	Start Build 10.00
13611.9	90.00	338.05	13200.0	294.4	-1069.3	10.00	338.05	302.6	Start DLS 2.00 TFO 90.00
14687.2	90.00	359.56	13200.0	1343.1	-1276.9	2.00	90.00	1352.9	Start 8817.6 hold at 14687.2 MD
23504.9	90.00	359.56	13200.0	10160.5	-1345.0	0.00	0.00	10170.5	TD at 23504.9



Azimuths to Grid North  
True North: -0.36°  
Magnetic North: 5.92°  
  
Magnetic Field  
Strength: 47341.9snT  
Dip Angle: 60.12°  
Date: 2/21/2024  
Model: IGRF2015





# **Matador Production Company**

**Antelope Ridge**

**Nina Cortell**

**Nina Cortell Fed Com #241H**

**Wellbore #1**

**BLM Plan #2**

## **Anticollision Report**

**21 February, 2024**

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	BLM Plan #2		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	2/21/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	23,504.9	BLM Plan #2 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Nina Cortell						
Nina Cortell Fed Com #111H - Wellbore #1 - BLM Plan #	1,908.8	1,917.4	18.8	5.4	1.404	Level 3, CC, ES, SF
Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #	7,282.7	7,416.0	1,828.1	1,775.5	34.700	CC
Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #	7,300.0	7,428.0	1,828.2	1,775.4	34.635	ES
Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #	23,504.9	20,223.2	4,365.2	4,102.8	16.635	SF
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	1,500.0	1,499.0	2,533.3	2,523.0	246.192	CC
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	1,600.0	1,570.8	2,533.8	2,523.0	232.543	ES
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	23,504.9	20,209.1	5,355.5	5,060.4	18.144	SF
Nina Cortell Fed Com #121H - Wellbore #1 - Actual Surv	19,245.9	10,643.1	3,184.3	3,116.8	47.126	CC
Nina Cortell Fed Com #121H - Wellbore #1 - Actual Surv	20,200.0	20,200.0	3,203.4	3,074.2	24.797	ES, SF
Nina Cortell Fed Com #125H - Wellbore #1 - Actual	686.7	687.7	135.4	131.1	31.352	CC
Nina Cortell Fed Com #125H - Wellbore #1 - Actual	1,200.0	1,199.9	136.6	128.7	17.259	ES
Nina Cortell Fed Com #125H - Wellbore #1 - Actual	10,830.3	10,794.6	325.0	248.8	4.264	SF
Nina Cortell Fed Com #126H - Wellbore #1 - BLM Plan #	1,200.0	1,200.0	85.3	77.1	10.473	CC, ES
Nina Cortell Fed Com #126H - Wellbore #1 - BLM Plan #	7,500.0	7,522.0	453.7	400.9	8.598	SF
Nina Cortell Fed Com #127H - Wellbore #1 - BLM Plan #	7,358.0	7,507.8	1,736.0	1,682.7	32.578	CC, ES
Nina Cortell Fed Com #127H - Wellbore #1 - BLM Plan #	23,504.9	21,069.0	3,784.7	3,495.7	13.097	SF
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	2,000.0	1,999.0	2,453.3	2,439.5	176.823	CC
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	2,100.0	2,072.0	2,453.9	2,439.4	169.417	ES
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	23,504.9	21,138.3	4,849.7	4,532.5	15.287	SF
Nina Cortell Fed Com #131H - Actual - Actual	10,737.9	10,710.0	84.1	6.6	1.085	Level 2, CC, ES, SF
Nina Cortell Fed Com #132H - Wellbore #1 - BLM Plan #	1,997.9	1,999.5	36.4	22.6	2.639	CC
Nina Cortell Fed Com #132H - Wellbore #1 - BLM Plan #	2,000.0	2,001.6	36.4	22.6	2.636	ES
Nina Cortell Fed Com #132H - Wellbore #1 - BLM Plan #	2,100.0	2,101.1	37.7	23.2	2.597	SF
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	7,231.3	7,323.0	2,065.4	2,013.9	40.088	CC
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	7,300.0	7,392.2	2,065.8	2,013.8	39.725	ES
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	23,504.9	22,057.0	3,471.7	3,143.8	10.589	SF
Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1	0.0	0.0	2,343.3			
Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1	1,200.0	1,190.5	2,348.6	2,340.7	296.811	ES
Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1	23,504.9	22,275.0	4,721.7	4,380.3	13.830	SF
Nina Cortell Fed Com #135H - Wellbore #1 - BLM Plan #	4,104.8	4,110.8	51.0	22.1	1.765	CC, ES, SF
Nina Cortell Fed Com #136H - Wellbore #1 - BLM Plan #	1,000.0	1,000.0	30.0	23.3	4.468	CC, ES
Nina Cortell Fed Com #136H - Wellbore #1 - BLM Plan #	1,200.0	1,199.0	33.0	24.9	4.081	SF
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	7,477.6	7,658.4	1,636.5	1,582.5	30.293	CC
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	7,500.0	7,674.8	1,636.6	1,582.5	30.218	ES
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	23,504.9	21,657.1	3,167.8	2,865.4	10.478	SF
Nina Cortell Fed Com #138H (Previous #224H) - Wellbor	2,500.0	2,500.0	2,423.3	2,405.8	138.765	CC
Nina Cortell Fed Com #138H (Previous #224H) - Wellbor	2,600.0	2,573.0	2,423.8	2,405.7	134.119	ES

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
Nina Cortell						
Nina Cortell Fed Com #138H (Previous #224H) - Wellbore	23,504.9	21,598.7	4,332.4	4,006.4	13.291	SF
Nina Cortell Fed Com #201H - Wellbore #1 - Actual Surv	23,504.9	17,013.0	1,001.2	872.8	7.798	CC, ES, SF
Nina Cortell Fed Com #202H - Wellbore #1 - Actual	5,629.3	5,631.4	129.1	89.8	3.283	CC
Nina Cortell Fed Com #202H - Wellbore #1 - Actual	5,700.0	5,701.8	129.3	89.5	3.246	ES
Nina Cortell Fed Com #202H - Wellbore #1 - Actual	6,100.0	6,101.1	135.6	93.0	3.178	SF
Nina Cortell Fed Com #203H - Sidetrack - Sidetrack	7,512.8	7,691.5	1,804.1	1,757.4	38.631	CC, ES
Nina Cortell Fed Com #203H - Sidetrack - Sidetrack	23,504.9	22,292.0	2,906.5	2,580.7	8.919	SF
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	7,488.5	7,658.9	1,771.1	1,717.4	32.990	CC
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	7,500.0	7,669.0	1,771.1	1,717.3	32.942	ES
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	10,900.0	10,984.8	2,116.1	2,038.4	27.223	SF
Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1	0.0	0.0	2,313.2			
Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1	1,100.0	1,089.6	2,319.6	2,312.5	326.895	ES
Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1	23,504.9	22,191.0	4,158.8	3,817.7	12.191	SF
Nina Cortell Fed Com #211H - Wellbore #1 - BLM Plan #	1,500.0	1,501.0	30.1	19.8	2.923	CC, ES
Nina Cortell Fed Com #211H - Wellbore #1 - BLM Plan #	1,600.0	1,600.5	31.0	20.0	2.815	SF

<b>Offset Design</b>														Offset Site Error:	0.0 usft
Nina Cortell - Nina Cortell Fed Com #111H - Wellbore #1 - BLM Plan #1														Offset Well Error:	0.0 usft
Survey Program: 0-MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	89.30	1.3	110.0	110.0						
100.0	100.0	100.0	100.0	0.1	0.1	89.30	1.3	110.0	110.0	109.7	0.26	429.099			
200.0	200.0	200.0	200.0	0.5	0.5	89.30	1.3	110.0	110.0	109.0	0.97	113.004			
300.0	300.0	300.0	300.0	0.8	0.8	89.30	1.3	110.0	110.0	108.3	1.69	65.070			
400.0	400.0	400.0	400.0	1.2	1.2	89.30	1.3	110.0	110.0	107.6	2.41	45.690			
500.0	500.0	500.0	500.0	1.6	1.6	89.30	1.3	110.0	110.0	106.9	3.12	35.204			
600.0	600.0	600.0	600.0	1.9	1.9	89.30	1.3	110.0	110.0	106.1	3.84	28.633			
700.0	700.0	700.0	700.0	2.3	2.3	89.30	1.3	110.0	110.0	105.4	4.56	24.129			
800.0	800.0	800.0	800.0	2.6	2.6	89.30	1.3	110.0	110.0	104.7	5.27	20.850			
900.0	900.0	900.0	900.0	3.0	3.0	89.30	1.3	110.0	110.0	104.0	5.99	18.355			
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.30	1.3	110.0	110.0	103.3	6.71	16.394			
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.30	1.3	110.0	110.0	102.6	7.43	14.811			
1,200.0	1,200.0	1,204.1	1,204.1	4.1	4.1	89.39	1.2	109.0	109.1	100.9	8.15	13.380			
1,300.0	1,300.0	1,311.6	1,311.2	4.4	4.4	90.18	-0.3	101.0	101.6	92.8	8.86	11.479			
1,400.0	1,400.0	1,415.7	1,414.3	4.8	4.8	92.08	-3.1	86.0	87.2	77.7	9.53	9.152			
1,500.0	1,500.0	1,514.3	1,511.5	5.1	5.2	95.03	-6.1	69.8	71.0	60.8	10.23	6.942			
1,600.0	1,600.0	1,612.9	1,608.7	5.5	5.6	99.71	-9.2	53.6	55.0	44.1	10.93	5.034			
1,700.0	1,700.0	1,711.5	1,705.9	5.9	6.0	108.07	-12.2	37.3	39.7	28.0	11.66	3.406			
1,800.0	1,800.0	1,810.1	1,803.1	6.2	6.3	125.77	-15.2	21.1	26.2	13.7	12.45	2.104			
1,900.0	1,900.0	1,908.7	1,900.2	6.6	6.7	165.02	-18.2	4.9	18.9	5.5	13.33	1.416	Level 3		
1,908.8	1,908.8	1,917.4	1,908.8	6.6	6.8	169.45	-18.5	3.4	18.8	5.4	13.39	1.404	Level 3, CC, ES, SF		
2,000.0	2,000.0	2,007.3	1,997.4	6.9	7.2	-151.89	-21.2	-11.4	24.2	10.3	13.94	1.738			
2,100.0	2,100.0	2,105.9	2,094.6	7.3	7.6	-131.35	-24.3	-27.6	37.1	22.6	14.54	2.554			
2,200.0	2,200.0	2,204.5	2,191.8	7.7	8.0	-121.92	-27.3	-43.8	52.3	37.1	15.20	3.438			
2,300.0	2,300.0	2,303.0	2,289.0	8.0	8.4	-116.79	-30.3	-60.0	68.1	52.3	15.89	4.289			
2,400.0	2,400.0	2,401.6	2,386.2	8.4	8.8	-113.61	-33.3	-76.3	84.4	67.8	16.59	5.086			
2,500.0	2,500.0	2,500.2	2,483.4	8.7	9.2	-111.46	-36.4	-92.5	100.8	83.5	17.29	5.826			
2,600.0	2,600.0	2,601.2	2,580.6	9.1	9.7	-109.91	-39.4	-108.7	117.2	99.2	18.01	6.508			

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,700.0	2,700.0	2,702.6	2,677.8	9.4	10.1	-108.74	-42.4	-124.9	133.8	115.1	18.74	7.141		
2,800.0	2,800.0	2,804.0	2,775.0	9.8	10.5	-107.83	-45.4	-141.2	150.4	130.9	19.46	7.728		
2,900.0	2,900.0	2,905.4	2,872.2	10.2	11.0	-107.11	-48.4	-157.4	167.0	146.8	20.19	8.273		
3,000.0	3,000.0	3,006.8	2,969.4	10.5	11.4	-106.51	-51.5	-173.6	183.7	162.7	20.91	8.782		
3,100.0	3,100.0	3,108.2	3,066.6	10.9	11.9	-106.01	-54.5	-189.9	200.3	178.7	21.64	9.256		
3,200.0	3,200.0	3,190.3	3,163.8	11.2	12.2	-105.59	-57.5	-206.1	217.0	194.7	22.30	9.732		
3,300.0	3,300.0	3,288.9	3,261.0	11.6	12.7	-105.23	-60.5	-222.3	233.7	210.7	23.02	10.153		
3,400.0	3,400.0	3,387.5	3,358.2	12.0	13.1	-104.92	-63.5	-238.5	250.4	226.6	23.74	10.548		
3,500.0	3,500.0	3,486.1	3,455.4	12.3	13.5	-104.64	-66.6	-254.8	267.1	242.6	24.46	10.921		
3,600.0	3,600.0	3,584.7	3,552.6	12.7	14.0	-104.40	-69.6	-271.0	283.8	258.6	25.18	11.272		
3,700.0	3,700.0	3,683.3	3,649.8	13.0	14.4	-104.19	-72.6	-287.2	300.5	274.6	25.90	11.604		
3,800.0	3,800.0	3,781.9	3,747.0	13.4	14.8	-104.00	-75.6	-303.4	317.2	290.6	26.62	11.917		
3,900.0	3,900.0	3,880.5	3,844.2	13.8	15.3	-103.82	-78.7	-319.7	333.9	306.6	27.34	12.214		
4,000.0	4,000.0	3,979.0	3,941.4	14.1	15.7	-103.67	-81.7	-335.9	350.6	322.6	28.06	12.496		
4,100.0	4,100.0	4,077.6	4,038.6	14.5	16.2	-103.52	-84.7	-352.1	367.3	338.6	28.78	12.764		
4,200.0	4,200.0	4,176.2	4,135.8	14.8	16.6	-103.39	-87.7	-368.4	384.1	354.6	29.50	13.018		
4,300.0	4,300.0	4,274.8	4,233.0	15.2	17.0	-103.28	-90.7	-384.6	400.8	370.6	30.22	13.261		
4,400.0	4,400.0	4,373.4	4,330.2	15.5	17.5	-103.17	-93.8	-400.8	417.5	386.6	30.95	13.491		
4,500.0	4,500.0	4,472.0	4,427.4	15.9	17.9	-103.07	-96.8	-417.0	434.2	402.6	31.67	13.712		
4,600.0	4,600.0	4,570.6	4,524.6	16.3	18.3	-102.97	-99.8	-433.3	451.0	418.6	32.39	13.922		
4,700.0	4,700.0	4,669.2	4,621.8	16.6	18.8	-102.88	-102.8	-449.5	467.7	434.6	33.12	14.124		
4,800.0	4,800.0	4,767.8	4,719.0	17.0	19.2	-102.80	-105.8	-465.7	484.4	450.6	33.84	14.316		
4,900.0	4,900.0	4,866.3	4,816.1	17.3	19.7	-102.73	-108.9	-482.0	501.2	466.6	34.56	14.501		
5,000.0	5,000.0	4,964.9	4,913.3	17.7	20.1	-102.66	-111.9	-498.2	517.9	482.6	35.28	14.678		
5,100.0	5,100.0	5,063.5	5,010.5	18.1	20.5	-102.59	-114.9	-514.4	534.6	498.6	36.01	14.847		
5,200.0	5,200.0	5,162.1	5,107.7	18.4	21.0	-102.53	-117.9	-530.6	551.4	514.6	36.73	15.010		
5,300.0	5,300.0	5,260.7	5,204.9	18.8	21.4	-102.47	-121.0	-546.9	568.1	530.6	37.46	15.167		
5,400.0	5,400.0	5,359.3	5,302.1	19.1	21.9	-102.42	-124.0	-563.1	584.8	546.6	38.18	15.318		
5,500.0	5,500.0	5,457.9	5,399.3	19.5	22.3	-102.36	-127.0	-579.3	601.6	562.7	38.90	15.463		
5,600.0	5,600.0	5,556.5	5,496.5	19.8	22.7	-102.32	-130.0	-595.5	618.3	578.7	39.63	15.603		
5,700.0	5,700.0	5,655.1	5,593.7	20.2	23.2	-102.27	-133.0	-611.8	635.0	594.7	40.35	15.737		
5,800.0	5,800.0	5,753.6	5,690.9	20.6	23.6	-102.22	-136.1	-628.0	651.8	610.7	41.08	15.867		
5,900.0	5,900.0	5,852.2	5,788.1	20.9	24.1	-102.18	-139.1	-644.2	668.5	626.7	41.80	15.993		
6,000.0	6,000.0	5,950.8	5,885.3	21.3	24.5	-102.14	-142.1	-660.5	685.2	642.7	42.53	16.114		
6,100.0	6,100.0	6,049.4	5,982.5	21.6	24.9	-102.10	-145.1	-676.7	702.0	658.7	43.25	16.231		
6,200.0	6,200.0	6,148.0	6,079.7	22.0	25.4	-102.07	-148.1	-692.9	718.7	674.7	43.97	16.344		
6,300.0	6,300.0	6,246.6	6,176.9	22.4	25.8	-102.03	-151.2	-709.1	735.5	690.8	44.70	16.453		
6,400.0	6,400.0	6,345.2	6,274.1	22.7	26.3	-102.00	-154.2	-725.4	752.2	706.8	45.42	16.559		
6,500.0	6,500.0	6,443.8	6,371.3	23.1	26.7	-101.97	-157.2	-741.6	768.9	722.8	46.15	16.662		
6,600.0	6,600.0	6,542.3	6,468.5	23.4	27.2	-101.94	-160.2	-757.8	785.7	738.8	46.87	16.761		
6,700.0	6,700.0	6,640.9	6,565.7	23.8	27.6	-101.91	-163.3	-774.1	802.4	754.8	47.60	16.858		
6,800.0	6,800.0	6,739.5	6,662.9	24.1	28.0	-101.88	-166.3	-790.3	819.1	770.8	48.32	16.951		
6,900.0	6,900.0	6,838.1	6,760.1	24.5	28.5	-101.85	-169.3	-806.5	835.9	786.8	49.05	17.042		
7,000.0	7,000.0	6,936.7	6,857.3	24.9	28.9	-101.83	-172.3	-822.7	852.6	802.8	49.77	17.130		
7,100.0	7,100.0	7,035.4	6,954.6	25.2	29.4	3.68	-175.3	-839.0	868.5	818.0	50.49	17.202		
7,200.0	7,200.0	7,134.4	7,052.2	25.5	29.8	3.71	-178.4	-855.3	882.7	831.5	51.19	17.241		
7,300.0	7,299.9	7,233.6	7,150.0	25.9	30.3	3.74	-181.4	-871.6	895.1	843.2	51.90	17.246		
7,400.0	7,399.7	7,333.1	7,248.0	26.2	30.7	3.78	-184.5	-888.0	905.8	853.2	52.61	17.217		
7,500.0	7,499.4	7,432.7	7,346.2	26.6	31.2	3.83	-187.5	-904.4	914.8	861.4	53.32	17.156		
7,600.0	7,598.9	7,532.4	7,444.6	26.9	31.6	3.88	-190.6	-920.8	922.0	868.0	54.03	17.064		
7,700.0	7,698.3	7,632.2	7,543.0	27.2	32.0	3.94	-193.6	-937.2	927.5	872.7	54.74	16.942		
7,800.0	7,797.4	7,732.1	7,641.5	27.6	32.5	4.01	-196.7	-953.7	931.3	875.8	55.46	16.792		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Nina Cortell - Nina Cortell Fed Com #111H - Wellbore #1 - BLM Plan #1		Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
7,900.0	7,896.3	7,832.1	7,740.1	27.9	32.9	4.09	-199.8	-970.1	933.3	877.1	56.17	16.614				
8,000.0	7,994.9	7,932.1	7,838.6	28.3	33.4	4.18	-202.8	-986.6	933.6	876.7	56.89	16.411				
8,100.0	8,093.3	8,032.1	7,937.2	28.6	33.8	4.28	-205.9	-1,003.0	932.1	874.5	57.60	16.182				
8,182.6	8,174.2	8,114.6	8,018.6	28.9	34.2	4.36	-208.4	-1,016.6	929.6	871.4	58.19	15.974				
8,200.0	8,191.3	8,132.0	8,035.7	29.0	34.3	4.38	-208.9	-1,019.5	928.9	870.6	58.32	15.929				
8,300.0	8,289.1	8,231.9	8,134.2	29.4	34.7	4.49	-212.0	-1,035.9	925.2	866.2	59.03	15.672				
8,400.0	8,387.0	8,331.8	8,232.7	29.7	35.2	4.60	-215.1	-1,052.4	921.4	861.7	59.75	15.421				
8,500.0	8,484.9	8,431.8	8,331.2	30.1	35.6	4.71	-218.1	-1,068.8	917.7	857.2	60.47	15.176				
8,600.0	8,582.8	8,531.7	8,429.7	30.5	36.1	4.82	-221.2	-1,085.3	913.9	852.8	61.19	14.936				
8,700.0	8,680.6	8,631.6	8,528.2	30.9	36.5	4.93	-224.3	-1,101.7	910.2	848.3	61.91	14.702				
8,800.0	8,778.5	8,731.5	8,626.7	31.2	37.0	5.04	-227.3	-1,118.2	906.5	843.8	62.63	14.473				
8,900.0	8,876.4	8,831.4	8,725.3	31.6	37.4	5.15	-230.4	-1,134.6	902.7	839.4	63.36	14.248				
9,000.0	8,974.3	8,931.3	8,823.8	32.0	37.9	5.27	-233.4	-1,151.1	899.0	834.9	64.08	14.029				
9,100.0	9,072.1	9,180.9	9,072.1	32.4	38.8	5.57	-237.0	-1,170.2	885.4	820.1	65.28	13.563				
9,200.0	9,170.0	9,278.7	9,170.0	32.8	39.1	5.70	-237.0	-1,170.2	865.0	799.1	65.94	13.118				
9,300.0	9,267.9	9,376.6	9,267.9	33.2	39.4	5.84	-237.0	-1,170.2	844.6	778.0	66.61	12.681				
9,400.0	9,365.8	9,474.5	9,365.8	33.6	39.6	5.99	-237.0	-1,170.2	824.2	757.0	67.27	12.252				
9,500.0	9,463.7	9,573.1	9,464.4	34.0	39.9	6.16	-236.7	-1,170.3	803.8	735.9	67.94	11.832				
9,600.0	9,561.5	9,672.6	9,563.1	34.4	40.2	7.20	-225.0	-1,171.9	783.3	714.7	68.61	11.416				
9,700.0	9,659.4	9,764.6	9,651.3	34.8	40.5	9.36	-199.3	-1,175.5	763.3	693.9	69.34	11.007				
9,800.0	9,757.3	9,845.9	9,724.8	35.2	40.6	12.23	-165.3	-1,180.2	745.6	675.5	70.12	10.634				
9,900.0	9,855.2	9,915.5	9,783.4	35.6	40.8	15.36	-128.2	-1,185.3	732.5	661.7	70.81	10.344				
10,000.0	9,953.0	9,974.1	9,828.9	36.0	40.9	18.44	-91.6	-1,190.4	726.1	654.9	71.22	10.195				
10,027.5	9,979.9	9,988.5	9,839.5	36.1	40.9	19.25	-82.0	-1,191.7	725.8	654.5	71.25	10.186				
10,100.0	10,050.9	10,023.2	9,864.0	36.4	41.0	21.28	-57.6	-1,195.1	728.2	657.1	71.12	10.239				
10,200.0	10,148.8	10,064.4	9,891.1	36.9	41.1	23.80	-26.9	-1,199.4	739.9	669.5	70.36	10.515				
10,300.0	10,246.7	10,100.0	9,912.6	37.3	41.1	26.06	1.2	-1,203.3	761.6	692.7	68.96	11.044				
10,400.0	10,344.6	10,128.5	9,928.6	37.7	41.2	27.91	24.6	-1,206.5	793.2	726.3	66.94	11.850				
10,500.0	10,442.4	10,150.0	9,939.8	38.1	41.2	29.32	42.7	-1,209.1	834.0	769.6	64.44	12.944				
10,600.0	10,540.3	10,175.2	9,952.1	38.5	41.2	30.97	64.5	-1,212.1	883.1	821.1	61.93	14.259				
10,700.0	10,638.2	10,200.0	9,963.3	39.0	41.3	32.59	86.4	-1,215.1	939.3	879.9	59.47	15.795				
10,800.0	10,736.1	10,200.0	9,963.3	39.4	41.3	32.59	86.4	-1,215.1	1,001.8	945.4	56.37	17.771				
10,900.0	10,833.9	10,224.9	9,973.5	39.8	41.3	34.22	108.9	-1,218.2	1,069.2	1,014.9	54.29	19.692				
11,000.0	10,931.8	10,250.0	9,982.8	40.2	41.4	35.84	132.0	-1,221.4	1,141.2	1,088.8	52.44	21.760				
11,100.0	11,029.7	10,250.0	9,982.8	40.7	41.4	35.84	132.0	-1,221.4	1,216.6	1,166.5	50.09	24.287				
11,200.0	11,127.6	10,250.0	9,982.8	41.1	41.4	35.84	132.0	-1,221.4	1,295.2	1,247.2	48.01	26.978				
11,300.0	11,225.5	10,268.5	9,989.0	41.5	41.4	37.02	149.3	-1,223.8	1,376.3	1,329.6	46.72	29.460				
11,400.0	11,323.3	10,276.9	9,991.6	42.0	41.4	37.54	157.2	-1,224.9	1,459.6	1,414.3	45.35	32.189				
11,500.0	11,421.2	10,300.0	9,998.2	42.4	41.4	38.98	179.1	-1,228.0	1,545.0	1,500.5	44.56	34.677				
11,523.5	11,444.2	10,300.0	9,998.2	42.5	41.4	38.98	179.1	-1,228.0	1,565.2	1,521.0	44.25	35.371				
11,600.0	11,519.2	10,300.0	9,998.2	42.8	41.4	40.28	179.1	-1,228.0	1,631.9	1,588.5	43.34	37.649				
11,700.0	11,617.7	10,300.0	9,998.2	43.3	41.4	42.22	179.1	-1,228.0	1,721.0	1,678.6	42.34	40.648				
11,800.0	11,716.7	10,300.0	9,998.2	43.7	41.4	44.49	179.1	-1,228.0	1,812.0	1,770.5	41.51	43.650				
11,900.0	11,815.9	10,300.0	9,998.2	44.1	41.4	47.15	179.1	-1,228.0	1,904.7	1,863.8	40.84	46.633				
12,000.0	11,915.5	10,300.0	9,998.2	44.4	41.4	50.25	179.1	-1,228.0	1,998.7	1,958.3	40.31	49.579				
12,100.0	12,015.2	10,320.0	10,003.2	44.8	41.5	55.10	198.3	-1,230.6	2,093.3	2,053.0	40.29	51.957				
12,200.0	12,115.1	10,324.7	10,004.3	45.2	41.5	59.54	202.9	-1,231.3	2,189.0	2,148.9	40.05	54.660				
12,300.0	12,215.1	10,329.2	10,005.3	45.5	41.5	64.58	207.2	-1,231.9	2,285.3	2,245.4	39.88	57.302				
12,311.9	12,227.0	10,329.8	10,005.4	45.5	41.5	-40.28	207.7	-1,231.9	2,296.8	2,256.9	39.87	57.611				
12,400.0	12,315.1	10,350.0	10,009.4	45.8	41.5	-39.26	227.4	-1,234.7	2,382.4	2,342.4	40.05	59.481				
12,500.0	12,415.1	10,350.0	10,009.4	46.2	41.5	-39.26	227.4	-1,234.7	2,479.3	2,439.4	39.91	62.124				
12,600.0	12,515.1	10,350.0	10,009.4	46.5	41.5	-39.26	227.4	-1,234.7	2,576.5	2,536.7	39.81	64.717				

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Nina Cortell - Nina Cortell Fed Com #111H - Wellbore #1 - BLM Plan #1										Offset Site Error:		0.0 usft
Survey Program:		0-MWD										Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)						
12,700.0	12,615.1	10,350.0	10,009.4	46.9	41.5	-39.26	227.4	-1,234.7	2,673.8	2,634.1	39.75	67.260		
12,711.9	12,627.0	10,350.0	10,009.4	46.9	41.5	-39.26	227.4	-1,234.7	2,685.4	2,645.7	39.75	67.558		
12,750.0	12,665.1	10,350.0	10,009.4	47.0	41.5	-13.44	227.4	-1,234.7	2,722.3	2,682.6	39.72	68.534		
12,800.0	12,714.8	10,350.0	10,009.4	47.2	41.5	-10.39	227.4	-1,234.7	2,769.7	2,730.0	39.65	69.861		
12,850.0	12,763.8	10,350.0	10,009.4	47.4	41.5	-8.48	227.4	-1,234.7	2,815.6	2,776.1	39.53	71.229		
12,900.0	12,811.8	10,350.0	10,009.4	47.5	41.5	-7.18	227.4	-1,234.7	2,859.8	2,820.5	39.38	72.626		
12,950.0	12,858.3	10,350.0	10,009.4	47.7	41.5	-6.25	227.4	-1,234.7	2,902.2	2,863.0	39.20	74.038		
13,000.0	12,903.1	10,350.0	10,009.4	47.8	41.5	-5.56	227.4	-1,234.7	2,942.3	2,903.3	38.99	75.454		
13,050.0	12,945.8	10,350.0	10,009.4	48.0	41.5	-5.03	227.4	-1,234.7	2,980.0	2,941.3	38.77	76.860		
13,100.0	12,986.1	10,375.3	10,013.5	48.1	41.6	-4.42	252.1	-1,238.1	3,014.6	2,975.7	38.81	77.665		
13,150.0	13,023.7	10,400.0	10,016.3	48.3	41.6	-3.94	276.4	-1,241.5	3,047.0	3,008.2	38.82	78.490		
13,200.0	13,058.2	10,400.0	10,016.3	48.4	41.6	-3.71	276.4	-1,241.5	3,075.9	3,037.3	38.55	79.795		
13,250.0	13,089.4	10,400.0	10,016.3	48.5	41.6	-3.52	276.4	-1,241.5	3,101.7	3,063.4	38.28	81.030		
13,300.0	13,117.2	10,400.0	10,016.3	48.7	41.6	-3.36	276.4	-1,241.5	3,124.3	3,086.3	38.02	82.176		
13,350.0	13,141.1	10,400.0	10,016.3	48.8	41.6	-3.24	276.4	-1,241.5	3,143.6	3,105.8	37.78	83.214		
13,400.0	13,161.2	10,400.0	10,016.3	48.9	41.6	-3.15	276.4	-1,241.5	3,159.6	3,122.0	37.56	84.124		
13,450.0	13,177.2	10,421.7	10,018.0	49.1	41.7	-2.98	297.8	-1,244.4	3,171.6	3,134.1	37.51	84.546		
13,500.0	13,189.1	10,429.0	10,018.4	49.2	41.7	-2.90	305.0	-1,245.4	3,180.2	3,142.8	37.38	85.072		
13,550.0	13,196.6	10,450.0	10,018.9	49.4	41.7	-2.78	325.8	-1,248.3	3,185.3	3,148.0	37.35	85.275		
13,600.0	13,199.8	10,450.0	10,018.9	49.6	41.7	-2.78	325.8	-1,248.3	3,186.5	3,149.2	37.23	85.584		
13,611.9	13,200.0	10,450.0	10,018.9	49.6	41.7	-2.78	325.8	-1,248.3	3,186.2	3,149.0	37.21	85.629		
13,700.0	13,200.0	10,477.4	10,018.9	50.0	41.8	-2.70	353.0	-1,252.0	3,184.7	3,147.5	37.23	85.532		
13,800.0	13,200.0	10,580.0	10,018.8	50.4	42.1	-2.31	454.9	-1,263.5	3,183.8	3,146.2	37.61	84.647		
13,900.0	13,200.0	10,681.8	10,018.7	50.9	42.4	-1.92	556.4	-1,271.3	3,183.1	3,145.1	38.05	83.666		
14,000.0	13,200.0	10,782.8	10,018.6	51.4	42.8	-1.53	657.3	-1,275.5	3,182.6	3,144.0	38.53	82.593		
14,100.0	13,200.0	10,881.8	10,018.4	52.0	43.2	-1.15	756.3	-1,276.5	3,182.2	3,143.1	39.07	81.445		
14,200.0	13,200.0	10,980.0	10,018.3	52.6	43.7	-0.82	854.5	-1,277.2	3,182.0	3,142.3	39.68	80.184		
14,300.0	13,200.0	11,078.8	10,018.2	53.2	44.2	-0.55	953.3	-1,277.9	3,181.9	3,141.5	40.37	78.816		
14,312.5	13,200.0	11,108.8	10,018.2	53.2	44.4	-0.52	965.7	-1,278.0	3,181.9	3,141.3	40.55	78.468		
14,400.0	13,200.0	11,178.1	10,018.1	53.8	44.8	-0.34	1,052.6	-1,278.6	3,181.9	3,140.8	41.13	77.360		
14,500.0	13,200.0	11,277.7	10,018.0	54.5	45.5	-0.18	1,152.3	-1,279.2	3,182.0	3,140.0	41.96	75.834		
14,600.0	13,200.0	11,377.6	10,017.9	55.1	46.2	-0.09	1,252.1	-1,279.9	3,182.1	3,139.3	42.85	74.257		
14,687.2	13,200.0	11,464.8	10,017.8	55.7	46.9	-0.07	1,339.4	-1,280.5	3,182.2	3,138.5	43.68	72.849		
14,700.0	13,200.0	11,477.6	10,017.7	55.8	47.0	-0.07	1,352.1	-1,280.6	3,182.2	3,138.4	43.81	72.643		
14,800.0	13,200.0	11,577.6	10,017.6	56.5	47.8	-0.06	1,452.1	-1,281.3	3,182.3	3,137.5	44.80	71.029		
14,900.0	13,200.0	11,677.6	10,017.5	57.3	48.7	-0.06	1,552.1	-1,282.0	3,182.5	3,136.6	45.83	69.439		
15,000.0	13,200.0	11,777.6	10,017.4	58.1	49.6	-0.06	1,652.1	-1,282.6	3,182.6	3,135.7	46.89	67.876		
15,100.0	13,200.0	11,877.6	10,017.3	58.9	50.5	-0.06	1,752.1	-1,283.3	3,182.7	3,134.7	47.97	66.344		
15,200.0	13,200.0	11,977.6	10,017.1	59.7	51.5	-0.06	1,852.1	-1,284.0	3,182.8	3,133.7	49.08	64.847		
15,300.0	13,200.0	12,077.6	10,017.0	60.6	52.6	-0.06	1,952.1	-1,284.7	3,182.9	3,132.7	50.22	63.385		
15,400.0	13,200.0	12,177.6	10,016.9	61.6	53.6	-0.05	2,052.1	-1,285.4	3,183.1	3,131.7	51.37	61.962		
15,500.0	13,200.0	12,277.6	10,016.8	62.5	54.7	-0.05	2,152.1	-1,286.0	3,183.2	3,130.6	52.55	60.578		
15,600.0	13,200.0	12,377.6	10,016.7	63.5	55.8	-0.05	2,252.1	-1,286.7	3,183.3	3,129.6	53.74	59.232		
15,700.0	13,200.0	12,477.6	10,016.6	64.5	57.0	-0.05	2,352.1	-1,287.4	3,183.4	3,128.5	54.96	57.926		
15,800.0	13,200.0	12,577.6	10,016.4	65.5	58.1	-0.05	2,452.1	-1,288.1	3,183.5	3,127.3	56.19	56.660		
15,900.0	13,200.0	12,677.6	10,016.3	66.6	59.3	-0.05	2,552.1	-1,288.8	3,183.6	3,126.2	57.43	55.432		
16,000.0	13,200.0	12,777.6	10,016.2	67.7	60.6	-0.04	2,652.1	-1,289.4	3,183.8	3,125.1	58.69	54.243		
16,100.0	13,200.0	12,877.6	10,016.1	68.8	61.8	-0.04	2,752.1	-1,290.1	3,183.9	3,123.9	59.97	53.092		
16,200.0	13,200.0	12,977.6	10,016.0	69.9	63.1	-0.04	2,852.1	-1,290.8	3,184.0	3,122.7	61.26	51.977		
16,300.0	13,200.0	13,077.6	10,015.8	71.1	64.3	-0.04	2,952.1	-1,291.5	3,184.1	3,121.6	62.56	50.898		
16,400.0	13,200.0	13,177.6	10,015.7	72.3	65.6	-0.04	3,052.1	-1,292.1	3,184.2	3,120.4	63.87	49.854		
16,500.0	13,200.0	13,277.6	10,015.6	73.5	66.9	-0.04	3,152.1	-1,292.8	3,184.4	3,119.2	65.19	48.844		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,600.0	13,200.0	13,377.6	10,015.5	74.7	68.3	-0.03	3,252.1	-1,293.5	3,184.5	3,118.0	66.53	47.866		
16,700.0	13,200.0	13,477.6	10,015.4	75.9	69.6	-0.03	3,352.1	-1,294.2	3,184.6	3,116.7	67.87	46.921		
16,800.0	13,200.0	13,577.6	10,015.3	77.1	70.9	-0.03	3,452.1	-1,294.9	3,184.7	3,115.5	69.22	46.006		
16,900.0	13,200.0	13,677.6	10,015.1	78.4	72.3	-0.03	3,552.1	-1,295.5	3,184.8	3,114.3	70.59	45.120		
17,000.0	13,200.0	13,777.6	10,015.0	79.7	73.7	-0.03	3,652.1	-1,296.2	3,185.0	3,113.0	71.96	44.263		
17,100.0	13,200.0	13,877.6	10,014.9	81.0	75.1	-0.03	3,752.0	-1,296.9	3,185.1	3,111.7	73.33	43.433		
17,200.0	13,200.0	13,977.6	10,014.8	82.3	76.5	-0.02	3,852.0	-1,297.6	3,185.2	3,110.5	74.72	42.630		
17,300.0	13,200.0	14,077.6	10,014.7	83.6	77.9	-0.02	3,952.0	-1,298.3	3,185.3	3,109.2	76.11	41.852		
17,400.0	13,200.0	14,177.6	10,014.5	84.9	79.3	-0.02	4,052.0	-1,298.9	3,185.4	3,107.9	77.51	41.099		
17,500.0	13,200.0	14,277.6	10,014.4	86.3	80.7	-0.02	4,152.0	-1,299.6	3,185.5	3,106.6	78.91	40.369		
17,600.0	13,200.0	14,377.6	10,014.3	87.6	82.2	-0.02	4,252.0	-1,300.3	3,185.7	3,105.3	80.32	39.662		
17,700.0	13,200.0	14,477.6	10,014.2	89.0	83.6	-0.02	4,352.0	-1,301.0	3,185.8	3,104.1	81.74	38.976		
17,800.0	13,200.0	14,577.6	10,014.1	90.3	85.1	-0.01	4,452.0	-1,301.7	3,185.9	3,102.7	83.16	38.311		
17,900.0	13,200.0	14,677.6	10,014.0	91.7	86.5	-0.01	4,552.0	-1,302.3	3,186.0	3,101.4	84.58	37.667		
18,000.0	13,200.0	14,777.6	10,013.8	93.1	88.0	-0.01	4,652.0	-1,303.0	3,186.1	3,100.1	86.02	37.041		
18,100.0	13,200.0	14,877.6	10,013.7	94.5	89.5	-0.01	4,752.0	-1,303.7	3,186.3	3,098.8	87.45	36.435		
18,200.0	13,200.0	14,977.6	10,013.6	95.9	90.9	-0.01	4,852.0	-1,304.4	3,186.4	3,097.5	88.89	35.846		
18,300.0	13,200.0	15,060.4	10,013.5	97.3	92.3	-0.01	4,934.9	-1,304.9	3,186.5	3,096.3	90.23	35.316		
18,400.0	13,200.0	15,060.4	10,013.5	98.7	92.3	-0.01	4,934.9	-1,304.9	3,188.8	3,097.7	91.08	35.010		
18,500.0	13,200.0	15,060.4	10,013.5	100.2	92.3	-0.01	4,934.9	-1,304.9	3,194.1	3,102.2	91.94	34.740		
18,600.0	13,200.0	15,060.4	10,013.5	101.6	92.3	-0.01	4,934.9	-1,304.9	3,202.6	3,109.8	92.81	34.505		
18,700.0	13,200.0	15,060.4	10,013.5	103.0	92.3	-0.01	4,934.9	-1,304.9	3,214.2	3,120.5	93.68	34.308		
18,800.0	13,200.0	15,060.4	10,013.5	104.5	92.3	-0.01	4,934.9	-1,304.9	3,228.8	3,134.2	94.55	34.148		
18,900.0	13,200.0	15,060.4	10,013.5	105.9	92.3	-0.01	4,934.9	-1,304.9	3,246.4	3,151.0	95.41	34.026		
19,000.0	13,200.0	15,060.4	10,013.5	107.4	92.3	-0.01	4,934.9	-1,304.9	3,267.0	3,170.8	96.26	33.940		
19,100.0	13,200.0	15,060.4	10,013.5	108.9	92.3	-0.01	4,934.9	-1,304.9	3,290.5	3,193.4	97.09	33.892		
19,200.0	13,200.0	15,060.4	10,013.5	110.3	92.3	-0.01	4,934.9	-1,304.9	3,316.9	3,219.0	97.90	33.880		
19,300.0	13,200.0	15,060.4	10,013.5	111.8	92.3	-0.01	4,934.9	-1,304.9	3,346.0	3,247.3	98.69	33.904		
19,400.0	13,200.0	15,060.4	10,013.5	113.3	92.3	-0.01	4,934.9	-1,304.9	3,377.9	3,278.4	99.46	33.963		
19,500.0	13,200.0	15,060.4	10,013.5	114.8	92.3	-0.01	4,934.9	-1,304.9	3,412.4	3,312.2	100.20	34.056		
19,600.0	13,200.0	15,060.4	10,013.5	116.3	92.3	-0.01	4,934.9	-1,304.9	3,449.4	3,348.5	100.91	34.182		
19,700.0	13,200.0	15,060.4	10,013.5	117.8	92.3	-0.01	4,934.9	-1,304.9	3,488.9	3,387.3	101.60	34.341		
19,800.0	13,200.0	15,060.4	10,013.5	119.3	92.3	-0.01	4,934.9	-1,304.9	3,530.8	3,428.6	102.26	34.530		
19,900.0	13,200.0	15,060.4	10,013.5	120.8	92.3	-0.01	4,934.9	-1,304.9	3,575.1	3,472.2	102.88	34.749		
20,000.0	13,200.0	15,060.4	10,013.5	122.3	92.3	-0.01	4,934.9	-1,304.9	3,621.5	3,518.0	103.48	34.996		
20,100.0	13,200.0	15,060.4	10,013.5	123.8	92.3	-0.01	4,934.9	-1,304.9	3,670.1	3,566.0	104.05	35.271		
20,200.0	13,200.0	15,060.4	10,013.5	125.3	92.3	-0.01	4,934.9	-1,304.9	3,720.7	3,616.1	104.60	35.572		
20,300.0	13,200.0	15,060.4	10,013.5	126.8	92.3	-0.01	4,934.9	-1,304.9	3,773.3	3,668.2	105.11	35.899		
20,400.0	13,200.0	15,060.4	10,013.5	128.4	92.3	-0.01	4,934.9	-1,304.9	3,827.8	3,722.2	105.60	36.249		
20,500.0	13,200.0	15,060.4	10,013.5	129.9	92.3	-0.01	4,934.9	-1,304.9	3,884.1	3,778.0	106.06	36.622		
20,600.0	13,200.0	15,060.4	10,013.5	131.4	92.3	-0.01	4,934.9	-1,304.9	3,942.1	3,835.6	106.49	37.017		
20,700.0	13,200.0	15,060.4	10,013.5	132.9	92.3	-0.01	4,934.9	-1,304.9	4,001.8	3,894.9	106.91	37.433		
20,800.0	13,200.0	15,060.4	10,013.5	134.5	92.3	-0.01	4,934.9	-1,304.9	4,063.1	3,955.8	107.30	37.868		
20,900.0	13,200.0	15,060.4	10,013.5	136.0	92.3	-0.01	4,934.9	-1,304.9	4,125.9	4,018.2	107.66	38.323		
21,000.0	13,200.0	15,060.4	10,013.5	137.6	92.3	-0.01	4,934.9	-1,304.9	4,190.1	4,082.1	108.01	38.794		
21,100.0	13,200.0	15,060.4	10,013.5	139.1	92.3	-0.01	4,934.9	-1,304.9	4,255.7	4,147.4	108.33	39.283		
21,200.0	13,200.0	15,060.4	10,013.5	140.7	92.3	-0.01	4,934.9	-1,304.9	4,322.7	4,214.0	108.64	39.788		
21,300.0	13,200.0	15,060.4	10,013.5	142.2	92.3	-0.01	4,934.9	-1,304.9	4,390.9	4,281.9	108.93	40.308		
21,400.0	13,200.0	15,060.4	10,013.5	143.8	92.3	-0.01	4,934.9	-1,304.9	4,460.3	4,351.0	109.21	40.842		
21,500.0	13,200.0	15,060.4	10,013.5	145.3	92.3	-0.01	4,934.9	-1,304.9	4,530.8	4,421.3	109.47	41.390		
21,600.0	13,200.0	15,060.4	10,013.5	146.9	92.3	-0.01	4,934.9	-1,304.9	4,602.4	4,492.7	109.71	41.951		
21,700.0	13,200.0	15,060.4	10,013.5	148.4	92.3	-0.01	4,934.9	-1,304.9	4,675.1	4,565.1	109.94	42.524		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
21,800.0	13,200.0	15,060.4	10,013.5	150.0	92.3	-0.01	4,934.9	-1,304.9	4,748.7	4,638.6	110.16	43.108		
21,900.0	13,200.0	15,060.4	10,013.5	151.5	92.3	-0.01	4,934.9	-1,304.9	4,823.4	4,713.0	110.37	43.703		
22,000.0	13,200.0	15,060.4	10,013.5	153.1	92.3	-0.01	4,934.9	-1,304.9	4,898.9	4,788.3	110.56	44.309		
22,100.0	13,200.0	15,060.4	10,013.5	154.7	92.3	-0.01	4,934.9	-1,304.9	4,975.3	4,864.5	110.75	44.925		
22,200.0	13,200.0	15,060.4	10,013.5	156.2	92.3	-0.01	4,934.9	-1,304.9	5,052.5	4,941.5	110.92	45.549		
22,300.0	13,200.0	15,060.4	10,013.5	157.8	92.3	-0.01	4,934.9	-1,304.9	5,130.5	5,019.4	111.09	46.183		
22,400.0	13,200.0	15,060.4	10,013.5	159.4	92.3	-0.01	4,934.9	-1,304.9	5,209.2	5,097.9	111.25	46.825		
22,500.0	13,200.0	15,060.4	10,013.5	161.0	92.3	-0.01	4,934.9	-1,304.9	5,288.7	5,177.3	111.40	47.474		
22,600.0	13,200.0	15,060.4	10,013.5	162.5	92.3	-0.01	4,934.9	-1,304.9	5,368.8	5,257.3	111.54	48.131		
22,700.0	13,200.0	15,060.4	10,013.5	164.1	92.3	-0.01	4,934.9	-1,304.9	5,449.6	5,337.9	111.68	48.795		
22,800.0	13,200.0	15,060.4	10,013.5	165.7	92.3	-0.01	4,934.9	-1,304.9	5,531.0	5,419.2	111.82	49.466		
22,900.0	13,200.0	15,060.4	10,013.5	167.3	92.3	-0.01	4,934.9	-1,304.9	5,613.1	5,501.1	111.94	50.142		
23,000.0	13,200.0	15,060.4	10,013.5	168.9	92.3	-0.01	4,934.9	-1,304.9	5,695.7	5,583.6	112.06	50.825		
23,100.0	13,200.0	15,060.4	10,013.5	170.4	92.3	-0.01	4,934.9	-1,304.9	5,778.8	5,666.7	112.18	51.513		
23,200.0	13,200.0	15,060.4	10,013.5	172.0	92.3	-0.01	4,934.9	-1,304.9	5,862.5	5,750.2	112.30	52.206		
23,300.0	13,200.0	15,060.4	10,013.5	173.6	92.3	-0.01	4,934.9	-1,304.9	5,946.7	5,834.3	112.40	52.905		
23,400.0	13,200.0	15,060.4	10,013.5	175.2	92.3	-0.01	4,934.9	-1,304.9	6,031.4	5,918.9	112.51	53.607		
23,504.9	13,200.0	15,060.4	10,013.5	176.9	92.3	-0.01	4,934.9	-1,304.9	6,120.7	6,008.1	112.62	54.349		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	90.03	-1.3	2,533.3	2,533.3					
100.0	100.0	101.0	99.0	0.1	0.1	90.03	-1.3	2,533.3	2,533.3	2,533.0	0.26	9,747.352		
200.0	200.0	201.0	199.0	0.5	0.5	90.03	-1.3	2,533.3	2,533.3	2,532.3	0.98	2,593.335		
300.0	300.0	301.0	299.0	0.8	0.8	90.03	-1.3	2,533.3	2,533.3	2,531.6	1.69	1,495.627		
400.0	400.0	401.0	399.0	1.2	1.2	90.03	-1.3	2,533.3	2,533.3	2,530.9	2.41	1,050.831		
500.0	500.0	501.0	499.0	1.6	1.6	90.03	-1.3	2,533.3	2,533.3	2,530.1	3.13	809.953		
600.0	600.0	601.0	599.0	1.9	1.9	90.03	-1.3	2,533.3	2,533.3	2,529.4	3.84	658.913		
700.0	700.0	701.0	699.0	2.3	2.3	90.03	-1.3	2,533.3	2,533.3	2,528.7	4.56	555.351		
800.0	800.0	801.0	799.0	2.6	2.6	90.03	-1.3	2,533.3	2,533.3	2,528.0	5.28	479.921		
900.0	900.0	901.0	899.0	3.0	3.0	90.03	-1.3	2,533.3	2,533.3	2,527.3	6.00	422.531		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	90.03	-1.3	2,533.3	2,533.3	2,526.5	6.71	377.401		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	90.03	-1.3	2,533.3	2,533.3	2,525.8	7.43	340.981		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	90.03	-1.3	2,533.3	2,533.3	2,525.1	8.15	310.972		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	90.03	-1.3	2,533.3	2,533.3	2,524.4	8.86	285.818		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	90.03	-1.3	2,533.3	2,533.3	2,523.7	9.58	264.428		
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	90.03	-1.3	2,533.3	2,533.3	2,523.0	10.29	246.188		
1,600.0	1,600.0	1,672.4	1,672.4	5.5	5.7	90.05	-2.0	2,530.8	2,531.8	2,520.6	11.24	225.243		
1,700.0	1,700.0	1,846.2	1,846.0	5.9	6.3	90.09	-4.1	2,523.2	2,527.5	2,515.3	12.18	207.523		
1,800.0	1,800.0	2,019.4	2,018.7	6.2	6.9	90.17	-7.6	2,510.6	2,520.2	2,507.1	13.11	192.209		
1,900.0	1,900.0	2,191.7	2,190.0	6.6	7.6	90.29	-12.5	2,493.1	2,510.0	2,496.0	14.04	178.834		
2,000.0	2,000.0	2,336.4	2,333.4	6.9	8.1	90.41	-17.6	2,474.7	2,497.2	2,482.3	14.87	167.904		
2,100.0	2,100.0	2,435.4	2,431.5	7.3	8.5	90.50	-21.3	2,461.4	2,483.8	2,468.2	15.58	159.452		
2,200.0	2,200.0	2,534.4	2,529.6	7.7	8.8	90.58	-25.0	2,448.1	2,470.4	2,454.2	16.28	151.711		
2,300.0	2,300.0	2,633.5	2,627.6	8.0	9.2	90.67	-28.7	2,434.8	2,457.1	2,440.1	16.99	144.599		
2,400.0	2,400.0	2,732.5	2,725.7	8.4	9.6	90.77	-32.4	2,421.5	2,443.7	2,426.0	17.70	138.043		
2,500.0	2,500.0	2,831.5	2,823.7	8.7	10.0	90.86	-36.1	2,408.3	2,430.3	2,411.9	18.41	131.982		
2,600.0	2,600.0	2,930.5	2,921.8	9.1	10.4	90.95	-39.8	2,395.0	2,417.0	2,397.8	19.13	126.364		
2,700.0	2,700.0	3,029.6	3,019.9	9.4	10.8	91.04	-43.4	2,381.7	2,403.6	2,383.8	19.84	121.142		
2,800.0	2,800.0	3,128.6	3,117.9	9.8	11.2	91.14	-47.1	2,368.4	2,390.3	2,369.7	20.56	116.277		
2,900.0	2,900.0	3,227.6	3,216.0	10.2	11.6	91.24	-50.8	2,355.2	2,376.9	2,355.7	21.27	111.734		
3,000.0	3,000.0	3,326.6	3,314.1	10.5	12.0	91.33	-54.5	2,341.9	2,363.6	2,341.6	21.99	107.483		
3,100.0	3,100.0	3,425.7	3,412.1	10.9	12.4	91.43	-58.2	2,328.6	2,350.3	2,327.6	22.71	103.496		
3,200.0	3,200.0	3,524.7	3,510.2	11.2	12.8	91.53	-61.9	2,315.3	2,337.0	2,313.5	23.43	99.751		
3,300.0	3,300.0	3,623.7	3,608.2	11.6	13.2	91.63	-65.6	2,302.0	2,323.6	2,299.5	24.15	96.226		
3,400.0	3,400.0	3,722.8	3,706.3	12.0	13.6	91.73	-69.3	2,288.8	2,310.3	2,285.5	24.87	92.903		
3,500.0	3,500.0	3,821.8	3,804.4	12.3	14.0	91.84	-73.0	2,275.5	2,297.0	2,271.4	25.59	89.765		
3,600.0	3,600.0	3,920.8	3,902.4	12.7	14.4	91.94	-76.7	2,262.2	2,283.7	2,257.4	26.31	86.797		
3,700.0	3,700.0	4,019.8	4,000.5	13.0	14.8	92.05	-80.3	2,248.9	2,270.5	2,243.4	27.03	83.986		
3,800.0	3,800.0	4,118.9	4,098.6	13.4	15.2	92.15	-84.0	2,235.6	2,257.2	2,229.4	27.76	81.321		
3,900.0	3,900.0	4,217.9	4,196.6	13.8	15.6	92.26	-87.7	2,222.4	2,243.9	2,215.4	28.48	78.789		
4,000.0	4,000.0	4,316.9	4,294.7	14.1	16.0	92.37	-91.4	2,209.1	2,230.7	2,201.5	29.20	76.381		
4,100.0	4,100.0	4,415.9	4,392.8	14.5	16.4	92.48	-95.1	2,195.8	2,217.4	2,187.5	29.93	74.090		
4,200.0	4,200.0	4,515.0	4,490.8	14.8	16.8	92.59	-98.8	2,182.5	2,204.2	2,173.5	30.65	71.905		
4,300.0	4,300.0	4,614.0	4,588.9	15.2	17.2	92.70	-102.5	2,169.3	2,190.9	2,159.6	31.38	69.821		
4,400.0	4,400.0	4,713.0	4,686.9	15.5	17.6	92.82	-106.2	2,156.0	2,177.7	2,145.6	32.11	67.830		
4,500.0	4,500.0	4,812.0	4,785.0	15.9	18.0	92.94	-109.9	2,142.7	2,164.5	2,131.7	32.83	65.927		
4,600.0	4,600.0	4,911.1	4,883.1	16.3	18.4	93.05	-113.6	2,129.4	2,151.3	2,117.7	33.56	64.106		
4,700.0	4,700.0	5,010.1	4,981.1	16.6	18.9	93.17	-117.2	2,116.1	2,138.1	2,103.8	34.29	62.361		
4,800.0	4,800.0	5,109.1	5,079.2	17.0	19.3	93.29	-120.9	2,102.9	2,124.9	2,089.9	35.01	60.689		
4,900.0	4,900.0	5,208.2	5,177.3	17.3	19.7	93.41	-124.6	2,089.6	2,111.7	2,076.0	35.74	59.084		
5,000.0	5,000.0	5,307.2	5,275.3	17.7	20.1	93.54	-128.3	2,076.3	2,098.5	2,062.1	36.47	57.543		
5,100.0	5,100.0	5,406.2	5,373.4	18.1	20.5	93.66	-132.0	2,063.0	2,085.4	2,048.2	37.20	56.062		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,505.2	5,471.4	18.4	20.9	93.79	-135.7	2,049.7	2,072.2	2,034.3	37.93	54.637		
5,300.0	5,300.0	5,604.3	5,569.5	18.8	21.3	93.92	-139.4	2,036.5	2,059.1	2,020.4	38.66	53.266		
5,400.0	5,400.0	5,703.3	5,667.6	19.1	21.7	94.05	-143.1	2,023.2	2,045.9	2,006.6	39.39	51.946		
5,500.0	5,500.0	5,802.3	5,765.6	19.5	22.2	94.18	-146.8	2,009.9	2,032.8	1,992.7	40.12	50.673		
5,600.0	5,600.0	5,901.3	5,863.7	19.8	22.6	94.31	-150.5	1,996.6	2,019.7	1,978.9	40.85	49.446		
5,700.0	5,700.0	6,000.4	5,961.8	20.2	23.0	94.44	-154.2	1,983.4	2,006.6	1,965.0	41.58	48.261		
5,800.0	5,800.0	6,100.6	6,059.8	20.6	23.4	94.58	-157.8	1,970.1	1,993.5	1,951.2	42.31	47.113		
5,900.0	5,900.0	6,201.6	6,157.9	20.9	23.8	94.72	-161.5	1,956.8	1,980.4	1,937.4	43.05	46.000		
6,000.0	6,000.0	6,302.5	6,256.0	21.3	24.2	94.86	-165.2	1,943.5	1,967.4	1,923.6	43.79	44.925		
6,100.0	6,100.0	6,403.5	6,354.0	21.6	24.7	95.00	-168.9	1,930.2	1,954.3	1,909.8	44.53	43.886		
6,200.0	6,200.0	6,504.5	6,452.1	22.0	25.1	95.15	-172.6	1,917.0	1,941.3	1,896.0	45.27	42.880		
6,300.0	6,300.0	6,594.5	6,550.1	22.4	25.5	95.29	-176.3	1,903.7	1,928.2	1,882.3	45.97	41.945		
6,400.0	6,400.0	6,693.6	6,648.2	22.7	25.9	95.44	-180.0	1,890.4	1,915.2	1,868.5	46.70	41.007		
6,500.0	6,500.0	6,807.4	6,746.3	23.1	26.4	95.59	-183.7	1,877.1	1,902.2	1,854.7	47.49	40.051		
6,600.0	6,600.0	6,908.4	6,844.3	23.4	26.8	95.74	-187.4	1,863.8	1,889.2	1,841.0	48.24	39.166		
6,700.0	6,700.0	6,990.6	6,942.4	23.8	27.1	95.89	-191.1	1,850.6	1,876.3	1,827.3	48.91	38.363		
6,800.0	6,800.0	7,083.9	7,034.8	24.1	27.5	96.04	-194.5	1,838.1	1,863.3	1,813.7	49.63	37.543		
6,900.0	6,900.0	7,152.2	7,102.5	24.5	27.8	96.14	-196.8	1,829.7	1,851.5	1,801.2	50.30	36.806		
7,000.0	7,000.0	7,220.8	7,170.7	24.9	28.1	96.23	-198.9	1,822.5	1,841.3	1,790.4	50.96	36.132		
7,100.0	7,100.0	7,289.7	7,239.2	25.2	28.3	-158.24	-200.5	1,816.4	1,833.7	1,782.1	51.59	35.541		
7,200.0	7,200.0	7,358.8	7,308.2	25.5	28.6	-158.22	-201.9	1,811.6	1,829.3	1,777.1	52.20	35.046		
7,282.7	7,282.6	7,416.0	7,365.3	25.8	28.8	-158.22	-202.8	1,808.4	1,828.1	1,775.5	52.68	34.700 CC		
7,300.0	7,299.9	7,428.0	7,377.3	25.9	28.8	-158.22	-202.9	1,807.9	1,828.2	1,775.4	52.78	34.635 ES		
7,400.0	7,399.7	7,500.0	7,449.3	26.2	29.1	-158.23	-203.6	1,805.3	1,830.4	1,777.1	53.37	34.300		
7,500.0	7,499.4	7,566.2	7,515.5	26.6	29.3	-158.26	-204.0	1,804.1	1,835.9	1,782.0	53.90	34.063		
7,600.0	7,598.9	7,648.7	7,597.9	26.9	29.6	-158.31	-204.0	1,803.9	1,844.6	1,790.1	54.49	33.854		
7,700.0	7,698.3	7,748.0	7,697.3	27.2	29.9	-158.40	-204.0	1,803.9	1,855.1	1,800.0	55.15	33.639		
7,800.0	7,797.4	7,847.2	7,796.4	27.6	30.2	-158.51	-204.0	1,803.9	1,867.3	1,811.5	55.81	33.459		
7,900.0	7,896.3	7,946.1	7,895.3	27.9	30.5	-158.62	-204.0	1,803.9	1,881.1	1,824.6	56.47	33.313		
8,000.0	7,994.9	8,044.7	7,993.9	28.3	30.8	-158.74	-204.0	1,803.9	1,896.5	1,839.3	57.13	33.198		
8,100.0	8,093.3	8,143.0	8,092.3	28.6	31.1	-158.88	-204.0	1,803.9	1,913.5	1,855.7	57.78	33.115		
8,182.6	8,174.2	8,224.0	8,173.2	28.9	31.4	-159.00	-204.0	1,803.9	1,928.8	1,870.4	58.33	33.069		
8,200.0	8,191.3	8,241.0	8,190.3	29.0	31.5	-159.04	-204.0	1,803.9	1,932.1	1,873.7	58.44	33.062		
8,300.0	8,289.1	8,338.9	8,288.1	29.4	31.8	-159.25	-204.0	1,803.9	1,951.3	1,892.2	59.10	33.019		
8,400.0	8,387.0	8,436.8	8,386.0	29.7	32.1	-159.46	-204.0	1,803.9	1,970.5	1,910.8	59.76	32.976		
8,500.0	8,484.9	8,534.6	8,483.9	30.1	32.4	-159.67	-204.0	1,803.9	1,989.8	1,929.4	60.42	32.934		
8,600.0	8,582.8	8,632.5	8,581.8	30.5	32.7	-159.87	-204.0	1,803.9	2,009.1	1,948.0	61.08	32.891		
8,700.0	8,680.6	8,730.4	8,679.6	30.9	33.0	-160.07	-204.0	1,803.9	2,028.4	1,966.6	61.75	32.849		
8,800.0	8,778.5	8,828.3	8,777.5	31.2	33.3	-160.26	-204.0	1,803.9	2,047.7	1,985.3	62.42	32.808		
8,900.0	8,876.4	8,926.2	8,875.4	31.6	33.6	-160.46	-204.0	1,803.9	2,067.1	2,004.0	63.09	32.766		
9,000.0	8,974.3	9,024.0	8,973.3	32.0	34.0	-160.64	-204.0	1,803.9	2,086.4	2,022.7	63.76	32.725		
9,100.0	9,072.1	9,121.9	9,071.1	32.4	34.3	-160.83	-204.0	1,803.9	2,105.8	2,041.4	64.43	32.684		
9,200.0	9,170.0	9,219.8	9,169.0	32.8	34.6	-161.01	-204.0	1,803.9	2,125.2	2,060.1	65.10	32.644		
9,300.0	9,267.9	9,317.7	9,266.9	33.2	34.9	-161.19	-204.0	1,803.9	2,144.7	2,078.9	65.78	32.604		
9,400.0	9,365.8	9,415.5	9,364.8	33.6	35.2	-161.36	-204.0	1,803.9	2,164.1	2,097.6	66.46	32.564		
9,500.0	9,463.7	9,513.4	9,462.7	34.0	35.6	-161.53	-204.0	1,803.9	2,183.6	2,116.4	67.14	32.525		
9,600.0	9,561.5	9,611.2	9,560.5	34.4	36.0	-161.70	-204.0	1,803.9	2,203.0	2,135.8	67.82	32.485		
9,700.0	9,659.4	9,709.1	9,658.4	34.8	36.4	-161.87	-204.0	1,803.9	2,222.4	2,155.2	68.50	32.445		
9,800.0	9,757.3	10,099.9	9,952.1	35.2	37.0	-169.38	67.9	1,765.7	2,219.1	2,149.3	69.81	31.787		
9,900.0	9,855.2	10,164.7	9,982.7	35.6	37.1	-170.89	124.4	1,757.8	2,232.0	2,161.6	70.38	31.716		
10,000.0	9,953.0	10,207.3	9,999.2	36.0	37.2	-171.92	163.3	1,752.3	2,248.4	2,177.6	70.81	31.752		
10,100.0	10,050.9	10,237.1	10,008.9	36.4	37.2	-172.66	191.2	1,748.4	2,268.6	2,197.5	71.11	31.903		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,259.0	10,015.2	36.9	37.2	-173.20	212.0	1,745.5	2,292.6	2,221.3	71.28	32.165		
10,300.0	10,246.7	10,275.7	10,019.4	37.3	37.3	-173.63	228.0	1,743.2	2,320.5	2,249.2	71.32	32.536		
10,400.0	10,344.6	10,288.9	10,022.4	37.7	37.3	-173.96	240.7	1,741.4	2,352.2	2,281.0	71.26	33.011		
10,500.0	10,442.4	10,300.0	10,024.7	38.1	37.3	-174.24	251.5	1,739.9	2,387.6	2,316.5	71.09	33.584		
10,600.0	10,540.3	10,300.0	10,024.7	38.5	37.3	-174.24	251.5	1,739.9	2,426.6	2,355.8	70.80	34.275		
10,700.0	10,638.2	10,315.7	10,027.6	39.0	37.4	-174.64	266.7	1,737.8	2,468.8	2,398.3	70.51	35.013		
10,800.0	10,736.1	10,321.9	10,028.6	39.4	37.4	-174.80	272.8	1,736.9	2,514.4	2,444.3	70.12	35.859		
10,900.0	10,833.9	10,327.3	10,029.4	39.8	37.4	-174.94	278.1	1,736.2	2,563.0	2,493.3	69.67	36.786		
11,000.0	10,931.8	10,332.0	10,030.1	40.2	37.4	-175.06	282.6	1,735.5	2,614.5	2,545.3	69.18	37.791		
11,100.0	11,029.7	10,350.0	10,032.4	40.7	37.5	-175.52	300.4	1,733.1	2,668.8	2,600.1	68.73	38.829		
11,200.0	11,127.6	10,350.0	10,032.4	41.1	37.5	-175.52	300.4	1,733.1	2,725.6	2,657.4	68.16	39.986		
11,300.0	11,225.5	10,350.0	10,032.4	41.5	37.5	-175.52	300.4	1,733.1	2,784.8	2,717.2	67.58	41.208		
11,400.0	11,323.3	10,350.0	10,032.4	42.0	37.5	-175.52	300.4	1,733.1	2,846.3	2,779.3	66.98	42.492		
11,500.0	11,421.2	10,350.0	10,032.4	42.4	37.5	-175.52	300.4	1,733.1	2,909.9	2,843.5	66.39	43.833		
11,523.5	11,444.2	10,350.0	10,032.4	42.5	37.5	-175.52	300.4	1,733.1	2,925.2	2,858.9	66.25	44.156		
11,600.0	11,519.2	10,350.0	10,032.4	42.8	37.5	-175.60	300.4	1,733.1	2,975.0	2,909.2	65.79	45.223		
11,700.0	11,617.7	10,350.0	10,032.4	43.3	37.5	-175.69	300.4	1,733.1	3,040.1	2,974.9	65.17	46.648		
11,800.0	11,716.7	10,350.0	10,032.4	43.7	37.5	-175.79	300.4	1,733.1	3,105.0	3,040.5	64.54	48.108		
11,900.0	11,815.9	10,350.0	10,032.4	44.1	37.5	-175.88	300.4	1,733.1	3,169.9	3,106.0	63.91	49.602		
12,000.0	11,915.5	10,350.0	10,032.4	44.4	37.5	-175.97	300.4	1,733.1	3,234.6	3,171.3	63.26	51.130		
12,100.0	12,015.2	10,350.0	10,032.4	44.8	37.5	-176.06	300.4	1,733.1	3,299.1	3,236.5	62.61	52.692		
12,200.0	12,115.1	10,350.0	10,032.4	45.2	37.5	-176.15	300.4	1,733.1	3,363.4	3,301.4	61.96	54.287		
12,300.0	12,215.1	10,350.0	10,032.4	45.5	37.5	-176.23	300.4	1,733.1	3,427.4	3,366.1	61.29	55.917		
12,311.9	12,227.0	10,350.0	10,032.4	45.5	37.5	78.27	300.4	1,733.1	3,435.0	3,373.8	61.22	56.113		
12,400.0	12,315.1	10,350.0	10,032.4	45.8	37.5	78.27	300.4	1,733.1	3,491.9	3,431.3	60.64	57.581		
12,500.0	12,415.1	10,350.0	10,032.4	46.2	37.5	78.27	300.4	1,733.1	3,558.1	3,498.1	60.02	59.287		
12,600.0	12,515.1	10,369.6	10,034.3	46.5	37.5	77.85	319.7	1,730.3	3,625.5	3,566.0	59.50	60.935		
12,700.0	12,615.1	10,371.0	10,034.4	46.9	37.5	77.82	321.1	1,730.1	3,694.6	3,635.7	58.92	62.707		
12,711.9	12,627.0	10,371.2	10,034.4	46.9	37.5	77.82	321.2	1,730.1	3,702.9	3,644.1	58.85	62.919		
12,750.0	12,665.1	10,371.9	10,034.4	47.0	37.5	95.99	321.9	1,730.0	3,729.8	3,671.2	58.64	63.605		
12,800.0	12,714.8	10,373.5	10,034.5	47.2	37.5	90.82	323.5	1,729.8	3,765.7	3,707.3	58.38	64.508		
12,850.0	12,763.8	10,375.7	10,034.7	47.4	37.5	85.53	325.7	1,729.5	3,801.9	3,743.8	58.13	65.409		
12,900.0	12,811.8	10,378.6	10,034.9	47.5	37.5	80.25	328.5	1,729.1	3,838.2	3,780.3	57.89	66.301		
12,950.0	12,858.3	10,400.0	10,035.8	47.7	37.6	74.81	349.7	1,726.1	3,874.5	3,816.7	57.74	67.099		
13,000.0	12,903.1	10,400.0	10,035.8	47.8	37.6	70.01	349.7	1,726.1	3,909.9	3,852.4	57.53	67.969		
13,050.0	12,945.8	10,400.0	10,035.8	48.0	37.6	65.54	349.7	1,726.1	3,944.7	3,887.4	57.33	68.811		
13,100.0	12,986.1	10,400.0	10,035.8	48.1	37.6	61.45	349.7	1,726.1	3,978.4	3,921.3	57.15	69.615		
13,150.0	13,023.7	10,400.0	10,035.8	48.3	37.6	57.75	349.7	1,726.1	4,011.0	3,954.0	57.00	70.373		
13,200.0	13,058.2	10,406.5	10,035.9	48.4	37.6	54.40	356.2	1,725.2	4,042.1	3,985.2	56.89	71.050		
13,250.0	13,089.4	10,416.0	10,036.0	48.5	37.6	51.45	365.5	1,723.9	4,071.5	4,014.7	56.82	71.655		
13,300.0	13,117.2	10,416.0	10,036.0	48.7	37.6	48.91	365.5	1,723.9	4,099.0	4,042.3	56.75	72.227		
13,350.0	13,141.1	10,447.3	10,035.8	48.8	37.7	46.64	396.6	1,719.7	4,124.4	4,067.5	56.81	72.593		
13,400.0	13,161.2	10,469.9	10,035.7	48.9	37.8	44.75	419.0	1,716.9	4,147.3	4,090.4	56.88	72.910		
13,450.0	13,177.2	10,500.0	10,035.6	49.1	37.9	43.19	448.9	1,713.4	4,167.7	4,110.7	57.01	73.104		
13,500.0	13,189.1	10,500.0	10,035.6	49.2	37.9	41.91	448.9	1,713.4	4,185.5	4,128.4	57.07	73.335		
13,550.0	13,196.6	10,541.2	10,035.5	49.4	38.1	40.93	489.9	1,709.2	4,200.3	4,143.0	57.33	73.263		
13,600.0	13,199.8	10,565.5	10,035.4	49.6	38.2	40.19	514.1	1,707.0	4,212.3	4,154.8	57.56	73.178		
13,611.9	13,200.0	10,571.2	10,035.4	49.6	38.2	40.04	519.8	1,706.5	4,214.7	4,157.1	57.62	73.144		
13,700.0	13,200.0	10,600.0	10,035.2	50.0	38.3	40.40	548.5	1,704.2	4,231.7	4,173.7	58.03	72.919		
13,800.0	13,200.0	10,662.4	10,035.0	50.4	38.6	40.85	610.8	1,700.1	4,249.9	4,191.2	58.67	72.437		
13,900.0	13,200.0	10,700.0	10,034.9	50.9	38.8	41.21	648.3	1,698.4	4,267.1	4,207.9	59.21	72.072		
14,000.0	13,200.0	10,759.5	10,034.6	51.4	39.1	41.60	707.7	1,696.6	4,283.1	4,223.2	59.89	71.516		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	10,822.5	10,034.4	52.0	39.5	41.95	770.8	1,695.9	4,298.0	4,237.4	60.62	70.898		
14,200.0	13,200.0	10,920.8	10,034.0	52.6	40.0	42.33	869.1	1,695.1	4,310.9	4,249.3	61.61	69.973		
14,300.0	13,200.0	11,019.6	10,033.6	53.2	40.7	42.63	967.9	1,694.3	4,321.5	4,258.9	62.66	68.971		
14,400.0	13,200.0	11,118.9	10,033.2	53.8	41.4	42.86	1,067.2	1,693.6	4,329.8	4,266.0	63.76	67.905		
14,500.0	13,200.0	11,218.6	10,032.8	54.5	42.2	43.02	1,166.8	1,692.8	4,335.7	4,270.8	64.92	66.787		
14,600.0	13,200.0	11,318.4	10,032.4	55.1	43.0	43.12	1,266.7	1,692.0	4,339.3	4,273.2	66.12	65.627		
14,687.2	13,200.0	11,405.7	10,032.1	55.7	43.7	43.15	1,353.9	1,691.3	4,340.4	4,273.2	67.20	64.593		
14,700.0	13,200.0	11,418.4	10,032.1	55.8	43.8	43.14	1,366.7	1,691.2	4,340.5	4,273.1	67.36	64.438		
14,800.0	13,200.0	11,518.4	10,031.7	56.5	44.7	43.14	1,466.7	1,690.5	4,340.7	4,272.1	68.65	63.226		
14,900.0	13,200.0	11,618.4	10,031.3	57.3	45.7	43.14	1,566.7	1,689.7	4,341.0	4,271.0	70.02	61.999		
15,000.0	13,200.0	11,718.4	10,030.9	58.1	46.7	43.13	1,666.7	1,688.9	4,341.3	4,269.9	71.45	60.764		
15,100.0	13,200.0	11,818.4	10,030.5	58.9	47.7	43.13	1,766.7	1,688.1	4,341.6	4,268.7	72.93	59.528		
15,200.0	13,200.0	11,918.4	10,030.1	59.7	48.8	43.13	1,866.7	1,687.3	4,341.9	4,267.4	74.48	58.298		
15,300.0	13,200.0	12,018.4	10,029.7	60.6	49.9	43.12	1,966.7	1,686.6	4,342.1	4,266.1	76.07	57.078		
15,400.0	13,200.0	12,118.4	10,029.3	61.6	51.0	43.12	2,066.7	1,685.8	4,342.4	4,264.7	77.72	55.873		
15,500.0	13,200.0	12,218.4	10,028.9	62.5	52.2	43.12	2,166.7	1,685.0	4,342.7	4,263.3	79.41	54.686		
15,600.0	13,200.0	12,318.4	10,028.6	63.5	53.3	43.11	2,266.6	1,684.2	4,343.0	4,261.8	81.15	53.520		
15,700.0	13,200.0	12,418.4	10,028.2	64.5	54.5	43.11	2,366.6	1,683.4	4,343.3	4,260.3	82.92	52.377		
15,800.0	13,200.0	12,518.4	10,027.8	65.5	55.8	43.11	2,466.6	1,682.7	4,343.5	4,258.8	84.74	51.259		
15,900.0	13,200.0	12,618.4	10,027.4	66.6	57.0	43.10	2,566.6	1,681.9	4,343.8	4,257.2	86.59	50.167		
16,000.0	13,200.0	12,718.4	10,027.0	67.7	58.3	43.10	2,666.6	1,681.1	4,344.1	4,255.6	88.47	49.102		
16,100.0	13,200.0	12,818.4	10,026.6	68.8	59.6	43.09	2,766.6	1,680.3	4,344.4	4,254.0	90.38	48.065		
16,200.0	13,200.0	12,918.4	10,026.2	69.9	60.9	43.09	2,866.6	1,679.5	4,344.7	4,252.3	92.33	47.057		
16,300.0	13,200.0	13,018.4	10,025.8	71.1	62.2	43.09	2,966.6	1,678.8	4,344.9	4,250.6	94.30	46.076		
16,400.0	13,200.0	13,118.4	10,025.4	72.3	63.5	43.08	3,066.6	1,678.0	4,345.2	4,248.9	96.30	45.123		
16,500.0	13,200.0	13,218.4	10,025.0	73.5	64.9	43.08	3,166.6	1,677.2	4,345.5	4,247.2	98.32	44.198		
16,600.0	13,200.0	13,318.4	10,024.7	74.7	66.3	43.08	3,266.6	1,676.4	4,345.8	4,245.4	100.36	43.301		
16,700.0	13,200.0	13,418.4	10,024.3	75.9	67.6	43.07	3,366.6	1,675.7	4,346.1	4,243.6	102.43	42.430		
16,800.0	13,200.0	13,518.4	10,023.9	77.1	69.0	43.07	3,466.6	1,674.9	4,346.3	4,241.8	104.51	41.586		
16,900.0	13,200.0	13,618.4	10,023.5	78.4	70.4	43.07	3,566.6	1,674.1	4,346.6	4,240.0	106.62	40.768		
17,000.0	13,200.0	13,718.4	10,023.1	79.7	71.9	43.06	3,666.6	1,673.3	4,346.9	4,238.2	108.74	39.974		
17,100.0	13,200.0	13,818.4	10,022.7	81.0	73.3	43.06	3,766.6	1,672.5	4,347.2	4,236.3	110.88	39.206		
17,200.0	13,200.0	13,918.4	10,022.3	82.3	74.7	43.06	3,866.6	1,671.8	4,347.5	4,234.4	113.04	38.460		
17,300.0	13,200.0	14,018.4	10,021.9	83.6	76.2	43.05	3,966.6	1,671.0	4,347.7	4,232.5	115.21	37.738		
17,400.0	13,200.0	14,118.4	10,021.5	84.9	77.6	43.05	4,066.6	1,670.2	4,348.0	4,230.6	117.39	37.038		
17,500.0	13,200.0	14,218.4	10,021.1	86.3	79.1	43.04	4,166.6	1,669.4	4,348.3	4,228.7	119.59	36.360		
17,600.0	13,200.0	14,318.4	10,020.8	87.6	80.5	43.04	4,266.6	1,668.6	4,348.6	4,226.8	121.80	35.702		
17,700.0	13,200.0	14,418.4	10,020.4	89.0	82.0	43.04	4,366.6	1,667.9	4,348.9	4,224.8	124.02	35.065		
17,800.0	13,200.0	14,518.4	10,020.0	90.3	83.5	43.03	4,466.5	1,667.1	4,349.2	4,222.9	126.26	34.446		
17,900.0	13,200.0	14,618.4	10,019.6	91.7	85.0	43.03	4,566.5	1,666.3	4,349.4	4,220.9	128.50	33.847		
18,000.0	13,200.0	14,718.4	10,019.2	93.1	86.5	43.03	4,666.5	1,665.5	4,349.7	4,219.0	130.76	33.265		
18,100.0	13,200.0	14,818.4	10,018.8	94.5	88.0	43.02	4,766.5	1,664.7	4,350.0	4,217.0	133.02	32.701		
18,200.0	13,200.0	14,918.4	10,018.4	95.9	89.5	43.02	4,866.5	1,664.0	4,350.3	4,215.0	135.30	32.153		
18,300.0	13,200.0	15,018.4	10,018.0	97.3	91.0	43.02	4,966.5	1,663.2	4,350.6	4,213.0	137.58	31.622		
18,400.0	13,200.0	15,118.4	10,017.6	98.7	92.5	43.01	5,066.5	1,662.4	4,350.8	4,211.0	139.87	31.106		
18,500.0	13,200.0	15,218.4	10,017.3	100.2	94.0	43.01	5,166.5	1,661.6	4,351.1	4,208.9	142.17	30.605		
18,600.0	13,200.0	15,318.4	10,016.9	101.6	95.6	43.01	5,266.5	1,660.8	4,351.4	4,206.9	144.48	30.118		
18,700.0	13,200.0	15,418.4	10,016.5	103.0	97.1	43.00	5,366.5	1,660.1	4,351.7	4,204.9	146.79	29.646		
18,800.0	13,200.0	15,518.4	10,016.1	104.5	98.6	43.00	5,466.5	1,659.3	4,352.0	4,202.8	149.11	29.186		
18,900.0	13,200.0	15,618.4	10,015.7	105.9	100.2	42.99	5,566.5	1,658.5	4,352.2	4,200.8	151.44	28.740		
19,000.0	13,200.0	15,718.4	10,015.3	107.4	101.7	42.99	5,666.5	1,657.7	4,352.5	4,198.7	153.77	28.305		
19,100.0	13,200.0	15,818.4	10,014.9	108.9	103.2	42.99	5,766.5	1,657.0	4,352.8	4,196.7	156.11	27.883		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	13,200.0	15,918.4	10,014.5	110.3	104.8	42.98	5,866.5	1,656.2	4,353.1	4,194.6	158.45	27.472		
19,300.0	13,200.0	16,018.4	10,014.1	111.8	106.3	42.98	5,966.5	1,655.4	4,353.4	4,192.6	160.80	27.073		
19,400.0	13,200.0	16,118.4	10,013.7	113.3	107.9	42.98	6,066.5	1,654.6	4,353.6	4,190.5	163.16	26.683		
19,500.0	13,200.0	16,218.4	10,013.4	114.8	109.5	42.97	6,166.5	1,653.8	4,353.9	4,188.4	165.52	26.305		
19,600.0	13,200.0	16,318.4	10,013.0	116.3	111.0	42.97	6,266.5	1,653.1	4,354.2	4,186.3	167.88	25.936		
19,700.0	13,200.0	16,418.4	10,012.6	117.8	112.6	42.97	6,366.5	1,652.3	4,354.5	4,184.2	170.25	25.577		
19,800.0	13,200.0	16,518.4	10,012.2	119.3	114.1	42.96	6,466.5	1,651.5	4,354.8	4,182.1	172.63	25.227		
19,900.0	13,200.0	16,618.4	10,011.8	120.8	115.7	42.96	6,566.5	1,650.7	4,355.0	4,180.0	175.00	24.885		
20,000.0	13,200.0	16,718.4	10,011.4	122.3	117.3	42.96	6,666.4	1,649.9	4,355.3	4,177.9	177.39	24.553		
20,100.0	13,200.0	16,818.4	10,011.0	123.8	118.9	42.95	6,766.4	1,649.2	4,355.6	4,175.8	179.77	24.229		
20,200.0	13,200.0	16,918.4	10,010.6	125.3	120.4	42.95	6,866.4	1,648.4	4,355.9	4,173.7	182.16	23.912		
20,300.0	13,200.0	17,018.4	10,010.2	126.8	122.0	42.94	6,966.4	1,647.6	4,356.2	4,171.6	184.55	23.604		
20,400.0	13,200.0	17,118.4	10,009.9	128.4	123.6	42.94	7,066.4	1,646.8	4,356.5	4,169.5	186.95	23.303		
20,500.0	13,200.0	17,218.4	10,009.5	129.9	125.2	42.94	7,166.4	1,646.0	4,356.7	4,167.4	189.35	23.009		
20,600.0	13,200.0	17,318.4	10,009.1	131.4	126.8	42.93	7,266.4	1,645.3	4,357.0	4,165.3	191.75	22.722		
20,700.0	13,200.0	17,418.4	10,008.7	132.9	128.3	42.93	7,366.4	1,644.5	4,357.3	4,163.1	194.16	22.442		
20,800.0	13,200.0	17,518.4	10,008.3	134.5	129.9	42.93	7,466.4	1,643.7	4,357.6	4,161.0	196.56	22.169		
20,900.0	13,200.0	17,618.4	10,007.9	136.0	131.5	42.92	7,566.4	1,642.9	4,357.9	4,158.9	198.97	21.902		
21,000.0	13,200.0	17,718.4	10,007.5	137.6	133.1	42.92	7,666.4	1,642.2	4,358.1	4,156.7	201.39	21.641		
21,100.0	13,200.0	17,818.4	10,007.1	139.1	134.7	42.92	7,766.4	1,641.4	4,358.4	4,154.6	203.80	21.385		
21,200.0	13,200.0	17,918.4	10,006.7	140.7	136.3	42.91	7,866.4	1,640.6	4,358.7	4,152.5	206.22	21.136		
21,300.0	13,200.0	18,018.4	10,006.3	142.2	137.9	42.91	7,966.4	1,639.8	4,359.0	4,150.3	208.64	20.892		
21,400.0	13,200.0	18,118.4	10,006.0	143.8	139.5	42.91	8,066.4	1,639.0	4,359.3	4,148.2	211.06	20.654		
21,500.0	13,200.0	18,218.4	10,005.6	145.3	141.1	42.90	8,166.4	1,638.3	4,359.5	4,146.1	213.49	20.420		
21,600.0	13,200.0	18,318.4	10,005.2	146.9	142.7	42.90	8,266.4	1,637.5	4,359.8	4,143.9	215.92	20.192		
21,700.0	13,200.0	18,418.4	10,004.8	148.4	144.3	42.90	8,366.4	1,636.7	4,360.1	4,141.8	218.35	19.969		
21,800.0	13,200.0	18,518.4	10,004.4	150.0	145.9	42.89	8,466.4	1,635.9	4,360.4	4,139.6	220.78	19.750		
21,900.0	13,200.0	18,618.4	10,004.0	151.5	147.5	42.89	8,566.4	1,635.1	4,360.7	4,137.5	223.21	19.536		
22,000.0	13,200.0	18,718.4	10,003.6	153.1	149.1	42.88	8,666.4	1,634.4	4,360.9	4,135.3	225.65	19.327		
22,100.0	13,200.0	18,818.4	10,003.2	154.7	150.7	42.88	8,766.4	1,633.6	4,361.2	4,133.1	228.08	19.121		
22,200.0	13,200.0	18,918.4	10,002.8	156.2	152.3	42.88	8,866.3	1,632.8	4,361.5	4,131.0	230.52	18.920		
22,300.0	13,200.0	19,018.4	10,002.5	157.8	153.9	42.87	8,966.3	1,632.0	4,361.8	4,128.8	232.96	18.723		
22,400.0	13,200.0	19,118.4	10,002.1	159.4	155.5	42.87	9,066.3	1,631.2	4,362.1	4,126.7	235.40	18.530		
22,500.0	13,200.0	19,218.4	10,001.7	161.0	157.1	42.87	9,166.3	1,630.5	4,362.4	4,124.5	237.84	18.341		
22,600.0	13,200.0	19,318.4	10,001.3	162.5	158.7	42.86	9,266.3	1,629.7	4,362.6	4,122.3	240.29	18.156		
22,700.0	13,200.0	19,418.4	10,000.9	164.1	160.4	42.86	9,366.3	1,628.9	4,362.9	4,120.2	242.73	17.974		
22,800.0	13,200.0	19,518.4	10,000.5	165.7	162.0	42.86	9,466.3	1,628.1	4,363.2	4,118.0	245.18	17.796		
22,900.0	13,200.0	19,618.4	10,000.1	167.3	163.6	42.85	9,566.3	1,627.3	4,363.5	4,115.8	247.63	17.621		
23,000.0	13,200.0	19,718.4	9,999.7	168.9	165.2	42.85	9,666.3	1,626.6	4,363.8	4,113.7	250.08	17.449		
23,100.0	13,200.0	19,818.4	9,999.3	170.4	166.8	42.85	9,766.3	1,625.8	4,364.0	4,111.5	252.53	17.281		
23,200.0	13,200.0	19,918.4	9,998.9	172.0	168.4	42.84	9,866.3	1,625.0	4,364.3	4,109.3	254.98	17.116		
23,300.0	13,200.0	20,018.4	9,998.6	173.6	170.0	42.84	9,966.3	1,624.2	4,364.6	4,107.2	257.44	16.954		
23,400.0	13,200.0	20,118.4	9,998.2	175.2	171.7	42.83	10,066.3	1,623.5	4,364.9	4,105.0	259.89	16.795		
23,504.9	13,200.0	20,223.2	9,997.8	176.9	173.3	42.83	10,171.2	1,622.6	4,365.2	4,102.8	262.41	16.635 SF		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	89.35	28.7	2,533.1	2,533.3					
100.0	100.0	101.0	99.0	0.1	0.1	89.35	28.7	2,533.1	2,533.3	2,533.0	0.26	9,747.483		
200.0	200.0	201.0	199.0	0.5	0.5	89.35	28.7	2,533.1	2,533.3	2,532.3	0.98	2,593.370		
300.0	300.0	301.0	299.0	0.8	0.8	89.35	28.7	2,533.1	2,533.3	2,531.6	1.69	1,495.647		
400.0	400.0	401.0	399.0	1.2	1.2	89.35	28.7	2,533.1	2,533.3	2,530.9	2.41	1,050.845		
500.0	500.0	501.0	499.0	1.6	1.6	89.35	28.7	2,533.1	2,533.3	2,530.2	3.13	809.964		
600.0	600.0	601.0	599.0	1.9	1.9	89.35	28.7	2,533.1	2,533.3	2,529.5	3.84	658.922		
700.0	700.0	701.0	699.0	2.3	2.3	89.35	28.7	2,533.1	2,533.3	2,528.7	4.56	555.358		
800.0	800.0	801.0	799.0	2.6	2.6	89.35	28.7	2,533.1	2,533.3	2,528.0	5.28	479.928		
900.0	900.0	901.0	899.0	3.0	3.0	89.35	28.7	2,533.1	2,533.3	2,527.3	6.00	422.537		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	89.35	28.7	2,533.1	2,533.3	2,526.6	6.71	377.406		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	89.35	28.7	2,533.1	2,533.3	2,525.9	7.43	340.986		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	89.35	28.7	2,533.1	2,533.3	2,525.1	8.15	310.976		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	89.35	28.7	2,533.1	2,533.3	2,524.4	8.86	285.821		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	89.35	28.7	2,533.1	2,533.3	2,523.7	9.58	264.432		
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	89.35	28.7	2,533.1	2,533.3	2,523.0	10.29	246.192 CC		
1,600.0	1,600.0	1,570.8	1,570.8	5.5	5.4	89.35	28.5	2,533.5	2,533.8	2,523.0	10.90	232.543 ES		
1,700.0	1,700.0	1,642.3	1,642.2	5.9	5.6	89.37	28.0	2,534.7	2,535.5	2,524.0	11.50	220.561		
1,800.0	1,800.0	1,713.7	1,713.6	6.2	5.9	89.39	27.0	2,536.7	2,538.3	2,526.2	12.09	209.933		
1,900.0	1,900.0	1,785.1	1,784.9	6.6	6.1	89.42	25.7	2,539.6	2,542.2	2,529.6	12.69	200.395		
2,000.0	2,000.0	1,856.3	1,856.1	6.9	6.4	89.46	24.0	2,543.2	2,547.3	2,534.0	13.28	191.806		
2,100.0	2,100.0	1,927.5	1,927.1	7.3	6.6	89.51	22.0	2,547.6	2,553.5	2,539.6	13.87	184.054		
2,200.0	2,200.0	2,000.0	1,999.4	7.7	6.9	89.56	19.5	2,552.9	2,560.8	2,546.3	14.47	176.964		
2,300.0	2,300.0	2,069.4	2,068.5	8.0	7.1	89.62	16.8	2,558.8	2,569.2	2,554.1	15.06	170.650		
2,400.0	2,400.0	2,140.1	2,138.8	8.4	7.4	89.70	13.6	2,565.5	2,578.7	2,563.1	15.64	164.843		
2,500.0	2,500.0	2,210.6	2,208.8	8.7	7.6	89.77	10.1	2,573.0	2,589.4	2,573.1	16.23	159.548		
2,600.0	2,600.0	2,280.9	2,278.5	9.1	7.9	89.86	6.3	2,581.3	2,601.1	2,584.3	16.81	154.706		
2,700.0	2,700.0	2,372.1	2,368.8	9.4	8.2	89.98	0.9	2,592.8	2,613.7	2,596.2	17.48	149.483		
2,800.0	2,800.0	2,471.1	2,466.9	9.8	8.6	90.11	-4.9	2,605.3	2,626.3	2,608.1	18.19	144.367		
2,900.0	2,900.0	2,570.2	2,564.9	10.2	9.0	90.23	-10.7	2,617.7	2,639.0	2,620.1	18.90	139.619		
3,000.0	3,000.0	2,669.2	2,663.0	10.5	9.3	90.36	-16.6	2,630.2	2,651.7	2,632.0	19.61	135.201		
3,100.0	3,100.0	2,768.2	2,761.1	10.9	9.7	90.49	-22.4	2,642.7	2,664.3	2,644.0	20.33	131.083		
3,200.0	3,200.0	2,867.3	2,859.1	11.2	10.1	90.61	-28.2	2,655.2	2,677.0	2,656.0	21.04	127.235		
3,300.0	3,300.0	2,966.3	2,957.2	11.6	10.5	90.73	-34.0	2,667.7	2,689.7	2,668.0	21.76	123.633		
3,400.0	3,400.0	3,065.3	3,055.3	12.0	10.9	90.85	-39.9	2,680.2	2,702.4	2,680.0	22.47	120.255		
3,500.0	3,500.0	3,164.3	3,153.3	12.3	11.3	90.97	-45.7	2,692.7	2,715.2	2,692.0	23.19	117.081		
3,600.0	3,600.0	3,263.4	3,251.4	12.7	11.7	91.09	-51.5	2,705.2	2,727.9	2,704.0	23.91	114.094		
3,700.0	3,700.0	3,362.4	3,349.4	13.0	12.1	91.21	-57.3	2,717.7	2,740.7	2,716.0	24.63	111.278		
3,800.0	3,800.0	3,461.4	3,447.5	13.4	12.5	91.33	-63.2	2,730.2	2,753.4	2,728.1	25.35	108.619		
3,900.0	3,900.0	3,560.4	3,545.6	13.8	12.9	91.44	-69.0	2,742.6	2,766.2	2,740.1	26.07	106.105		
4,000.0	4,000.0	3,659.5	3,643.6	14.1	13.3	91.56	-74.8	2,755.1	2,779.0	2,752.2	26.79	103.724		
4,100.0	4,100.0	3,758.5	3,741.7	14.5	13.7	91.67	-80.6	2,767.6	2,791.8	2,764.2	27.51	101.467		
4,200.0	4,200.0	3,857.5	3,839.8	14.8	14.1	91.78	-86.5	2,780.1	2,804.6	2,776.3	28.24	99.324		
4,300.0	4,300.0	3,956.5	3,937.8	15.2	14.5	91.89	-92.3	2,792.6	2,817.4	2,788.4	28.96	97.287		
4,400.0	4,400.0	4,055.6	4,035.9	15.5	14.9	92.00	-98.1	2,805.1	2,830.2	2,800.5	29.68	95.348		
4,500.0	4,500.0	4,154.6	4,134.0	15.9	15.3	92.11	-103.9	2,817.6	2,843.0	2,812.6	30.41	93.501		
4,600.0	4,600.0	4,253.6	4,232.0	16.3	15.7	92.22	-109.8	2,830.1	2,855.9	2,824.7	31.13	91.739		
4,700.0	4,700.0	4,352.7	4,330.1	16.6	16.1	92.33	-115.6	2,842.6	2,868.7	2,836.9	31.85	90.056		
4,800.0	4,800.0	4,451.7	4,428.1	17.0	16.5	92.44	-121.4	2,855.1	2,881.6	2,849.0	32.58	88.448		
4,900.0	4,900.0	4,550.7	4,526.2	17.3	16.9	92.54	-127.2	2,867.5	2,894.5	2,861.2	33.30	86.910		
5,000.0	5,000.0	4,649.7	4,624.3	17.7	17.3	92.65	-133.1	2,880.0	2,907.4	2,873.3	34.03	85.437		
5,100.0	5,100.0	4,748.8	4,722.3	18.1	17.7	92.75	-138.9	2,892.5	2,920.3	2,885.5	34.75	84.025		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	4,847.8	4,820.4	18.4	18.1	92.85	-144.7	2,905.0	2,933.2	2,897.7	35.48	82.671		
5,300.0	5,300.0	4,946.8	4,918.5	18.8	18.6	92.95	-150.5	2,917.5	2,946.1	2,909.9	36.21	81.371		
5,400.0	5,400.0	5,045.8	5,016.5	19.1	19.0	93.05	-156.4	2,930.0	2,959.0	2,922.1	36.93	80.122		
5,500.0	5,500.0	5,144.9	5,114.6	19.5	19.4	93.16	-162.2	2,942.5	2,971.9	2,934.3	37.66	78.921		
5,600.0	5,600.0	5,243.9	5,212.6	19.8	19.8	93.25	-168.0	2,955.0	2,984.9	2,946.5	38.38	77.765		
5,700.0	5,700.0	5,342.9	5,310.7	20.2	20.2	93.35	-173.8	2,967.5	2,997.8	2,958.7	39.11	76.653		
5,800.0	5,800.0	5,693.0	5,659.0	20.6	21.6	93.59	-188.0	2,997.8	3,007.0	2,966.1	40.90	73.523		
5,900.0	5,900.0	5,933.0	5,899.0	20.9	22.4	93.62	-190.0	3,002.1	3,008.1	2,966.1	42.05	71.533		
6,000.0	6,000.0	6,033.0	5,999.0	21.3	22.7	93.62	-190.0	3,002.1	3,008.1	2,965.4	42.75	70.374		
6,100.0	6,100.0	6,133.0	6,099.0	21.6	23.0	93.62	-190.0	3,002.1	3,008.1	2,964.7	43.44	69.251		
6,200.0	6,200.0	6,233.0	6,199.0	22.0	23.3	93.62	-190.0	3,002.1	3,008.1	2,964.0	44.13	68.162		
6,300.0	6,300.0	6,333.0	6,299.0	22.4	23.7	93.62	-190.0	3,002.1	3,008.1	2,963.3	44.83	67.105		
6,400.0	6,400.0	6,433.0	6,399.0	22.7	24.0	93.62	-190.0	3,002.1	3,008.1	2,962.6	45.52	66.080		
6,500.0	6,500.0	6,533.0	6,499.0	23.1	24.3	93.62	-190.0	3,002.1	3,008.1	2,961.9	46.22	65.085		
6,600.0	6,600.0	6,633.0	6,599.0	23.4	24.6	93.62	-190.0	3,002.1	3,008.1	2,961.2	46.92	64.119		
6,700.0	6,700.0	6,733.0	6,699.0	23.8	25.0	93.62	-190.0	3,002.1	3,008.1	2,960.5	47.61	63.180		
6,800.0	6,800.0	6,833.0	6,799.0	24.1	25.3	93.62	-190.0	3,002.1	3,008.1	2,959.8	48.31	62.267		
6,900.0	6,900.0	6,933.0	6,899.0	24.5	25.6	93.62	-190.0	3,002.1	3,008.1	2,959.1	49.01	61.380		
7,000.0	7,000.0	7,033.0	6,999.0	24.9	25.9	93.62	-190.0	3,002.1	3,008.1	2,958.4	49.71	60.517		
7,100.0	7,100.0	7,133.0	7,099.0	25.2	26.3	-160.89	-190.0	3,002.1	3,009.0	2,958.6	50.40	59.707		
7,200.0	7,200.0	7,233.0	7,199.0	25.5	26.6	-160.90	-190.0	3,002.1	3,011.4	2,960.4	51.07	58.964		
7,300.0	7,299.9	7,332.9	7,298.9	25.9	26.9	-160.91	-190.0	3,002.1	3,015.6	2,963.8	51.75	58.272		
7,400.0	7,399.7	7,432.7	7,398.7	26.2	27.3	-160.93	-190.0	3,002.1	3,021.3	2,968.9	52.43	57.628		
7,500.0	7,499.4	7,532.4	7,498.4	26.6	27.6	-160.96	-190.0	3,002.1	3,028.8	2,975.6	53.11	57.032		
7,600.0	7,598.9	7,631.9	7,597.9	26.9	27.9	-160.98	-190.0	3,002.1	3,037.8	2,984.0	53.78	56.481		
7,700.0	7,698.3	7,731.3	7,697.3	27.2	28.3	-161.02	-190.0	3,002.1	3,048.5	2,994.1	54.46	55.975		
7,800.0	7,797.4	7,830.4	7,796.4	27.6	28.6	-161.06	-190.0	3,002.1	3,060.9	3,005.7	55.14	55.511		
7,900.0	7,896.3	7,929.3	7,895.3	27.9	28.9	-161.10	-190.0	3,002.1	3,074.9	3,019.1	55.82	55.088		
8,000.0	7,994.9	8,027.9	7,993.9	28.3	29.3	-161.15	-190.0	3,002.1	3,090.5	3,034.0	56.49	54.705		
8,100.0	8,093.3	8,126.3	8,092.3	28.6	29.6	-161.20	-190.0	3,002.1	3,107.8	3,050.6	57.17	54.361		
8,182.6	8,174.2	8,207.2	8,173.2	28.9	29.9	-161.25	-190.0	3,002.1	3,123.3	3,065.6	57.73	54.105		
8,200.0	8,191.3	8,224.3	8,190.3	29.0	29.9	-161.27	-190.0	3,002.1	3,126.7	3,068.8	57.84	54.053		
8,300.0	8,289.1	8,322.1	8,288.1	29.4	30.2	-161.39	-190.0	3,002.1	3,146.1	3,087.6	58.52	53.762		
8,400.0	8,387.0	8,420.0	8,386.0	29.7	30.6	-161.51	-190.0	3,002.1	3,165.6	3,106.4	59.20	53.477		
8,500.0	8,484.9	8,517.9	8,483.9	30.1	30.9	-161.62	-190.0	3,002.1	3,185.1	3,125.2	59.87	53.196		
8,600.0	8,582.8	8,615.8	8,581.8	30.5	31.2	-161.74	-190.0	3,002.1	3,204.6	3,144.0	60.55	52.921		
8,700.0	8,680.6	8,713.7	8,679.6	30.9	31.6	-161.85	-190.0	3,002.1	3,224.1	3,162.9	61.24	52.651		
8,800.0	8,778.5	8,811.5	8,777.5	31.2	31.9	-161.96	-190.0	3,002.1	3,243.6	3,181.7	61.92	52.385		
8,900.0	8,876.4	8,909.4	8,875.4	31.6	32.2	-162.08	-190.0	3,002.1	3,263.2	3,200.6	62.60	52.125		
9,000.0	8,974.3	9,007.3	8,973.3	32.0	32.6	-162.19	-190.0	3,002.1	3,282.7	3,219.4	63.29	51.869		
9,100.0	9,072.1	9,105.2	9,071.1	32.4	32.9	-162.29	-190.0	3,002.1	3,302.3	3,238.3	63.97	51.618		
9,200.0	9,170.0	9,203.0	9,169.0	32.8	33.2	-162.40	-190.0	3,002.1	3,321.8	3,257.2	64.66	51.372		
9,300.0	9,267.9	9,300.9	9,266.9	33.2	33.6	-162.51	-190.0	3,002.1	3,341.4	3,276.0	65.35	51.129		
9,400.0	9,365.8	9,401.2	9,364.8	33.6	33.9	-162.61	-190.0	3,002.1	3,361.0	3,294.9	66.05	50.885		
9,500.0	9,463.7	9,496.7	9,462.7	34.0	34.2	-162.72	-190.0	3,002.1	3,380.6	3,313.9	66.73	50.658		
9,600.0	9,561.5	9,593.0	9,558.8	34.4	34.6	-162.90	-185.4	3,002.3	3,400.2	3,332.8	67.41	50.438		
9,700.0	9,659.4	9,683.4	9,647.2	34.8	34.8	-163.30	-166.9	3,002.7	3,420.0	3,352.0	68.05	50.255		
9,800.0	9,757.3	9,764.7	9,723.3	35.2	35.1	-163.86	-138.6	3,003.5	3,440.3	3,371.7	68.64	50.120		
9,900.0	9,855.2	9,835.4	9,785.7	35.6	35.2	-164.48	-105.4	3,004.3	3,461.5	3,392.3	69.18	50.037		
10,000.0	9,953.0	9,895.7	9,835.3	36.0	35.4	-165.10	-71.3	3,005.2	3,483.8	3,414.2	69.66	50.009		
10,100.0	10,050.9	9,950.0	9,876.7	36.4	35.5	-165.73	-36.2	3,006.2	3,507.8	3,437.7	70.11	50.032		
10,200.0	10,148.8	9,989.6	9,904.8	36.9	35.5	-166.23	-8.1	3,006.9	3,533.5	3,463.0	70.49	50.129		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,026.0	9,928.8	37.3	35.6	-166.70	19.2	3,007.6	3,561.1	3,490.2	70.82	50.280		
10,400.0	10,344.6	10,050.0	9,943.6	37.7	35.6	-167.03	38.0	3,008.1	3,590.7	3,519.6	71.09	50.510		
10,500.0	10,442.4	10,083.5	9,963.0	38.1	35.6	-167.50	65.4	3,008.8	3,622.5	3,551.1	71.35	50.767		
10,600.0	10,540.3	10,100.0	9,971.9	38.5	35.6	-167.74	79.2	3,009.2	3,656.3	3,584.8	71.53	51.118		
10,700.0	10,638.2	10,126.3	9,985.3	39.0	35.7	-168.12	101.8	3,009.8	3,692.3	3,620.6	71.70	51.494		
10,800.0	10,736.1	10,150.0	9,996.5	39.4	35.7	-168.48	122.7	3,010.3	3,730.5	3,658.6	71.84	51.927		
10,900.0	10,833.9	10,150.0	9,996.5	39.8	35.7	-168.48	122.7	3,010.3	3,770.7	3,698.9	71.86	52.477		
11,000.0	10,931.8	10,172.6	10,006.4	40.2	35.7	-168.82	143.0	3,010.9	3,813.0	3,741.0	71.93	53.010		
11,100.0	11,029.7	10,184.7	10,011.3	40.7	35.7	-169.01	154.1	3,011.1	3,857.2	3,785.3	71.94	53.621		
11,200.0	11,127.6	10,200.0	10,017.2	41.1	35.7	-169.25	168.2	3,011.5	3,903.5	3,831.6	71.93	54.266		
11,300.0	11,225.5	10,200.0	10,017.2	41.5	35.7	-169.25	168.2	3,011.5	3,951.7	3,879.8	71.84	55.005		
11,400.0	11,323.3	10,200.0	10,017.2	42.0	35.7	-169.25	168.2	3,011.5	4,001.7	3,930.0	71.73	55.790		
11,500.0	11,421.2	10,222.2	10,025.1	42.4	35.7	-169.59	188.9	3,012.1	4,053.4	3,981.7	71.70	56.536		
11,523.5	11,444.2	10,223.9	10,025.7	42.5	35.7	-169.62	190.5	3,012.1	4,065.9	3,994.2	71.67	56.729		
11,600.0	11,519.2	10,229.6	10,027.6	42.8	35.7	-169.84	195.8	3,012.2	4,106.3	4,034.7	71.58	57.367		
11,700.0	11,617.7	10,250.0	10,033.9	43.3	35.7	-170.31	215.3	3,012.7	4,158.9	4,087.4	71.49	58.171		
11,800.0	11,716.7	10,250.0	10,033.9	43.7	35.7	-170.46	215.3	3,012.7	4,210.8	4,139.5	71.30	59.054		
11,900.0	11,815.9	10,250.0	10,033.9	44.1	35.7	-170.61	215.3	3,012.7	4,262.2	4,191.1	71.09	59.952		
12,000.0	11,915.5	10,250.0	10,033.9	44.4	35.7	-170.76	215.3	3,012.7	4,313.2	4,242.3	70.86	60.866		
12,100.0	12,015.2	10,250.0	10,033.9	44.8	35.7	-170.90	215.3	3,012.7	4,363.6	4,293.0	70.62	61.794		
12,200.0	12,115.1	10,250.0	10,033.9	45.2	35.7	-171.03	215.3	3,012.7	4,413.6	4,343.2	70.35	62.739		
12,300.0	12,215.1	10,272.0	10,039.9	45.5	35.8	-171.47	236.4	3,013.3	4,462.7	4,392.5	70.16	63.603		
12,311.9	12,227.0	10,272.6	10,040.1	45.5	35.8	83.01	237.0	3,013.3	4,468.5	4,398.4	70.13	63.716		
12,400.0	12,315.1	10,277.0	10,041.2	45.8	35.8	82.95	241.3	3,013.4	4,512.3	4,442.4	69.89	64.559		
12,500.0	12,415.1	10,300.0	10,046.4	46.2	35.8	82.63	263.6	3,014.0	4,563.6	4,493.9	69.69	65.480		
12,600.0	12,515.1	10,300.0	10,046.4	46.5	35.8	82.63	263.6	3,014.0	4,616.3	4,546.9	69.39	66.523		
12,700.0	12,615.1	10,300.0	10,046.4	46.9	35.8	82.63	263.6	3,014.0	4,670.5	4,601.4	69.09	67.599		
12,711.9	12,627.0	10,300.0	10,046.4	46.9	35.8	82.63	263.6	3,014.0	4,677.1	4,608.0	69.06	67.729		
12,750.0	12,665.1	10,300.0	10,046.4	47.0	35.8	102.06	263.6	3,014.0	4,698.5	4,629.5	68.94	68.152		
12,800.0	12,714.8	10,300.0	10,046.4	47.2	35.8	98.56	263.6	3,014.0	4,727.5	4,658.7	68.79	68.718		
12,850.0	12,763.8	10,300.0	10,046.4	47.4	35.8	94.86	263.6	3,014.0	4,757.3	4,688.7	68.65	69.296		
12,900.0	12,811.8	10,300.0	10,046.4	47.5	35.8	91.02	263.6	3,014.0	4,787.8	4,719.3	68.52	69.879		
12,950.0	12,858.3	10,300.0	10,046.4	47.7	35.8	87.09	263.6	3,014.0	4,818.7	4,750.3	68.39	70.463		
13,000.0	12,903.1	10,300.0	10,046.4	47.8	35.8	83.15	263.6	3,014.0	4,849.8	4,781.5	68.27	71.042		
13,050.0	12,945.8	10,300.0	10,046.4	48.0	35.8	79.25	263.6	3,014.0	4,880.7	4,812.6	68.16	71.611		
13,100.0	12,986.1	10,321.9	10,050.6	48.1	35.9	75.33	285.2	3,014.6	4,911.0	4,842.9	68.15	72.060		
13,150.0	13,023.7	10,327.7	10,051.5	48.3	35.9	71.71	290.9	3,014.7	4,940.9	4,872.8	68.09	72.561		
13,200.0	13,058.2	10,350.0	10,054.7	48.4	35.9	68.25	312.9	3,015.3	4,970.2	4,902.0	68.12	72.966		
13,250.0	13,089.4	10,350.0	10,054.7	48.5	35.9	65.16	312.9	3,015.3	4,998.1	4,930.0	68.07	73.427		
13,300.0	13,117.2	10,350.0	10,054.7	48.7	35.9	62.32	312.9	3,015.3	5,024.8	4,956.8	68.04	73.849		
13,350.0	13,141.1	10,350.0	10,054.7	48.8	35.9	59.74	312.9	3,015.3	5,050.2	4,982.2	68.04	74.225		
13,400.0	13,161.2	10,350.0	10,054.7	48.9	35.9	57.43	312.9	3,015.3	5,074.1	5,006.0	68.06	74.551		
13,450.0	13,177.2	10,350.0	10,054.7	49.1	35.9	55.37	312.9	3,015.3	5,096.2	5,028.1	68.11	74.823		
13,500.0	13,189.1	10,374.1	10,057.1	49.2	36.0	53.61	336.9	3,015.9	5,116.2	5,047.9	68.28	74.929		
13,550.0	13,196.6	10,400.0	10,058.6	49.4	36.1	52.12	362.7	3,016.6	5,134.5	5,066.0	68.48	74.979		
13,600.0	13,199.8	10,400.0	10,058.6	49.6	36.1	50.82	362.7	3,016.6	5,150.3	5,081.7	68.61	75.062		
13,611.9	13,200.0	10,400.0	10,058.6	49.6	36.1	50.54	362.7	3,016.6	5,153.7	5,085.1	68.65	75.074		
13,700.0	13,200.0	10,400.0	10,058.6	50.0	36.1	50.87	362.7	3,016.6	5,178.5	5,109.5	68.94	75.117		
13,800.0	13,200.0	10,424.0	10,058.9	50.4	36.1	51.29	386.7	3,017.2	5,205.6	5,136.2	69.37	75.036		
13,900.0	13,200.0	10,614.4	10,057.6	50.9	36.9	51.98	577.1	3,017.4	5,229.5	5,159.0	70.50	74.172		
14,000.0	13,200.0	10,711.1	10,056.9	51.4	37.3	52.40	673.8	3,016.7	5,250.2	5,178.8	71.38	73.557		
14,100.0	13,200.0	10,808.6	10,056.2	52.0	37.9	52.77	771.3	3,015.9	5,268.3	5,196.0	72.34	72.832		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	13,200.0	10,906.8	10,055.5	52.6	38.5	53.07	869.5	3,015.1	5,283.7	5,210.3	73.38	72.008		
14,300.0	13,200.0	11,005.7	10,054.9	53.2	39.1	53.31	968.3	3,014.4	5,296.3	5,221.8	74.49	71.097		
14,400.0	13,200.0	11,105.0	10,054.2	53.8	39.8	53.50	1,067.6	3,013.6	5,306.2	5,230.5	75.69	70.108		
14,500.0	13,200.0	11,204.6	10,053.5	54.5	40.6	53.63	1,167.3	3,012.8	5,313.3	5,236.3	76.94	69.055		
14,600.0	13,200.0	11,304.5	10,052.7	55.1	41.4	53.71	1,267.2	3,012.0	5,317.5	5,239.3	78.26	67.947		
14,687.2	13,200.0	11,408.3	10,052.1	55.7	42.3	53.73	1,354.4	3,011.4	5,319.0	5,239.4	79.59	66.834		
14,700.0	13,200.0	11,404.5	10,052.0	55.8	42.3	53.73	1,367.1	3,011.3	5,319.0	5,239.4	79.63	66.796		
14,800.0	13,200.0	11,504.5	10,051.3	56.5	43.2	53.72	1,467.1	3,010.5	5,319.4	5,238.4	81.06	65.620		
14,900.0	13,200.0	11,604.5	10,050.6	57.3	44.2	53.71	1,567.1	3,009.7	5,319.9	5,237.3	82.57	64.426		
15,000.0	13,200.0	11,704.5	10,049.9	58.1	45.2	53.71	1,667.1	3,008.9	5,320.3	5,236.1	84.15	63.226		
15,100.0	13,200.0	11,804.5	10,049.2	58.9	46.2	53.70	1,767.1	3,008.1	5,320.7	5,234.9	85.79	62.023		
15,200.0	13,200.0	11,904.5	10,048.5	59.7	47.3	53.70	1,867.1	3,007.4	5,321.1	5,233.6	87.48	60.824		
15,300.0	13,200.0	12,004.5	10,047.8	60.6	48.4	53.69	1,967.1	3,006.6	5,321.5	5,232.3	89.24	59.633		
15,400.0	13,200.0	12,104.5	10,047.1	61.6	49.5	53.68	2,067.1	3,005.8	5,321.9	5,230.9	91.05	58.454		
15,500.0	13,200.0	12,204.5	10,046.4	62.5	50.7	53.68	2,167.1	3,005.0	5,322.3	5,229.4	92.90	57.289		
15,600.0	13,200.0	12,304.4	10,045.7	63.5	51.9	53.67	2,267.1	3,004.2	5,322.7	5,227.9	94.81	56.142		
15,700.0	13,200.0	12,404.4	10,045.0	64.5	53.1	53.67	2,367.1	3,003.5	5,323.2	5,226.4	96.76	55.016		
15,800.0	13,200.0	12,504.4	10,044.3	65.5	54.3	53.66	2,467.0	3,002.7	5,323.6	5,224.8	98.75	53.911		
15,900.0	13,200.0	12,604.4	10,043.6	66.6	55.6	53.65	2,567.0	3,001.9	5,324.0	5,223.2	100.78	52.829		
16,000.0	13,200.0	12,704.4	10,042.9	67.7	56.9	53.65	2,667.0	3,001.1	5,324.4	5,221.5	102.85	51.771		
16,100.0	13,200.0	12,804.4	10,042.2	68.8	58.2	53.64	2,767.0	3,000.4	5,324.8	5,219.9	104.95	50.733		
16,200.0	13,200.0	12,904.4	10,041.5	69.9	59.5	53.63	2,867.0	2,999.6	5,325.2	5,218.1	107.08	49.730		
16,300.0	13,200.0	13,004.4	10,040.8	71.1	60.8	53.63	2,967.0	2,998.8	5,325.6	5,216.4	109.25	48.749		
16,400.0	13,200.0	13,104.4	10,040.1	72.3	62.2	53.62	3,067.0	2,998.0	5,326.0	5,214.6	111.44	47.792		
16,500.0	13,200.0	13,204.4	10,039.4	73.5	63.5	53.62	3,167.0	2,997.2	5,326.5	5,212.8	113.66	46.862		
16,600.0	13,200.0	13,304.4	10,038.7	74.7	64.9	53.61	3,267.0	2,996.5	5,326.9	5,211.0	115.91	45.957		
16,700.0	13,200.0	13,404.4	10,038.0	75.9	66.3	53.60	3,367.0	2,995.7	5,327.3	5,209.1	118.18	45.077		
16,800.0	13,200.0	13,504.4	10,037.3	77.1	67.7	53.60	3,467.0	2,994.9	5,327.7	5,207.2	120.48	44.222		
16,900.0	13,200.0	13,604.4	10,036.6	78.4	69.1	53.59	3,567.0	2,994.1	5,328.1	5,205.3	122.79	43.392		
17,000.0	13,200.0	13,704.4	10,035.9	79.7	70.5	53.59	3,667.0	2,993.4	5,328.5	5,203.4	125.13	42.585		
17,100.0	13,200.0	13,804.4	10,035.2	81.0	72.0	53.58	3,766.9	2,992.6	5,328.9	5,201.4	127.48	41.801		
17,200.0	13,200.0	13,904.4	10,034.4	82.3	73.4	53.57	3,866.9	2,991.8	5,329.3	5,199.5	129.86	41.040		
17,300.0	13,200.0	14,004.4	10,033.7	83.6	74.8	53.57	3,966.9	2,991.0	5,329.8	5,197.5	132.25	40.302		
17,400.0	13,200.0	14,104.4	10,033.0	84.9	76.3	53.56	4,066.9	2,990.2	5,330.2	5,195.5	134.65	39.584		
17,500.0	13,200.0	14,204.4	10,032.3	86.3	77.8	53.55	4,166.9	2,989.5	5,330.6	5,193.5	137.08	38.888		
17,600.0	13,200.0	14,304.4	10,031.6	87.6	79.3	53.55	4,266.9	2,988.7	5,331.0	5,191.5	139.51	38.212		
17,700.0	13,200.0	14,404.4	10,030.9	89.0	80.7	53.54	4,366.9	2,987.9	5,331.4	5,189.4	141.96	37.555		
17,800.0	13,200.0	14,504.4	10,030.2	90.3	82.2	53.54	4,466.9	2,987.1	5,331.8	5,187.4	144.43	36.917		
17,900.0	13,200.0	14,604.4	10,029.5	91.7	83.7	53.53	4,566.9	2,986.3	5,332.2	5,185.3	146.90	36.298		
18,000.0	13,200.0	14,704.4	10,028.8	93.1	85.2	53.52	4,666.9	2,985.6	5,332.7	5,183.3	149.39	35.696		
18,100.0	13,200.0	14,804.4	10,028.1	94.5	86.7	53.52	4,766.9	2,984.8	5,333.1	5,181.2	151.89	35.111		
18,200.0	13,200.0	14,904.4	10,027.4	95.9	88.2	53.51	4,866.9	2,984.0	5,333.5	5,179.1	154.40	34.543		
18,300.0	13,200.0	15,004.4	10,026.7	97.3	89.8	53.51	4,966.8	2,983.2	5,333.9	5,177.0	156.92	33.991		
18,400.0	13,200.0	15,104.4	10,026.0	98.7	91.3	53.50	5,066.8	2,982.5	5,334.3	5,174.9	159.45	33.454		
18,500.0	13,200.0	15,204.4	10,025.3	100.2	92.8	53.49	5,166.8	2,981.7	5,334.7	5,172.7	161.99	32.933		
18,600.0	13,200.0	15,304.4	10,024.6	101.6	94.3	53.49	5,266.8	2,980.9	5,335.1	5,170.6	164.54	32.425		
18,700.0	13,200.0	15,404.4	10,023.9	103.0	95.9	53.48	5,366.8	2,980.1	5,335.5	5,168.5	167.09	31.932		
18,800.0	13,200.0	15,504.4	10,023.2	104.5	97.4	53.48	5,466.8	2,979.3	5,336.0	5,166.3	169.66	31.452		
18,900.0	13,200.0	15,604.4	10,022.5	105.9	99.0	53.47	5,566.8	2,978.6	5,336.4	5,164.1	172.23	30.984		
19,000.0	13,200.0	15,704.4	10,021.8	107.4	100.5	53.46	5,666.8	2,977.8	5,336.8	5,162.0	174.81	30.530		
19,100.0	13,200.0	15,804.4	10,021.1	108.9	102.1	53.46	5,766.8	2,977.0	5,337.2	5,159.8	177.39	30.087		
19,200.0	13,200.0	15,904.4	10,020.4	110.3	103.6	53.45	5,866.8	2,976.2	5,337.6	5,157.6	179.98	29.656		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	13,200.0	16,004.4	10,019.7	111.8	105.2	53.44	5,966.8	2,975.4	5,338.0	5,155.5	182.58	29.236		
19,400.0	13,200.0	16,104.4	10,019.0	113.3	106.7	53.44	6,066.8	2,974.7	5,338.4	5,153.3	185.19	28.827		
19,500.0	13,200.0	16,204.4	10,018.3	114.8	108.3	53.43	6,166.8	2,973.9	5,338.9	5,151.1	187.80	28.429		
19,600.0	13,200.0	16,304.3	10,017.6	116.3	109.9	53.43	6,266.7	2,973.1	5,339.3	5,148.9	190.41	28.041		
19,700.0	13,200.0	16,404.3	10,016.9	117.8	111.4	53.42	6,366.7	2,972.3	5,339.7	5,146.7	193.03	27.662		
19,800.0	13,200.0	16,504.3	10,016.1	119.3	113.0	53.41	6,466.7	2,971.6	5,340.1	5,144.4	195.66	27.293		
19,900.0	13,200.0	16,604.3	10,015.4	120.8	114.6	53.41	6,566.7	2,970.8	5,340.5	5,142.2	198.29	26.933		
20,000.0	13,200.0	16,704.3	10,014.7	122.3	116.1	53.40	6,666.7	2,970.0	5,340.9	5,140.0	200.92	26.582		
20,100.0	13,200.0	16,804.3	10,014.0	123.8	117.7	53.40	6,766.7	2,969.2	5,341.4	5,137.8	203.56	26.239		
20,200.0	13,200.0	16,904.3	10,013.3	125.3	119.3	53.39	6,866.7	2,968.4	5,341.8	5,135.6	206.21	25.905		
20,300.0	13,200.0	17,004.3	10,012.6	126.8	120.9	53.38	6,966.7	2,967.7	5,342.2	5,133.3	208.86	25.578		
20,400.0	13,200.0	17,104.3	10,011.9	128.4	122.5	53.38	7,066.7	2,966.9	5,342.6	5,131.1	211.51	25.259		
20,500.0	13,200.0	17,204.3	10,011.2	129.9	124.0	53.37	7,166.7	2,966.1	5,343.0	5,128.8	214.16	24.948		
20,600.0	13,200.0	17,304.3	10,010.5	131.4	125.6	53.37	7,266.7	2,965.3	5,343.4	5,126.6	216.82	24.644		
20,700.0	13,200.0	17,404.3	10,009.8	132.9	127.2	53.36	7,366.7	2,964.5	5,343.8	5,124.4	219.49	24.347		
20,800.0	13,200.0	17,504.3	10,009.1	134.5	128.8	53.35	7,466.7	2,963.8	5,344.3	5,122.1	222.15	24.057		
20,900.0	13,200.0	17,604.3	10,008.4	136.0	130.4	53.35	7,566.6	2,963.0	5,344.7	5,119.9	224.82	23.773		
21,000.0	13,200.0	17,704.3	10,007.7	137.6	132.0	53.34	7,666.6	2,962.2	5,345.1	5,117.6	227.50	23.495		
21,100.0	13,200.0	17,804.3	10,007.0	139.1	133.6	53.33	7,766.6	2,961.4	5,345.5	5,115.3	230.17	23.224		
21,200.0	13,200.0	17,904.3	10,006.3	140.7	135.2	53.33	7,866.6	2,960.7	5,345.9	5,113.1	232.85	22.959		
21,300.0	13,200.0	18,004.3	10,005.6	142.2	136.8	53.32	7,966.6	2,959.9	5,346.3	5,110.8	235.53	22.699		
21,400.0	13,200.0	18,104.3	10,004.9	143.8	138.4	53.32	8,066.6	2,959.1	5,346.8	5,108.5	238.21	22.445		
21,500.0	13,200.0	18,204.3	10,004.2	145.3	140.0	53.31	8,166.6	2,958.3	5,347.2	5,106.3	240.90	22.197		
21,600.0	13,200.0	18,304.3	10,003.5	146.9	141.6	53.30	8,266.6	2,957.5	5,347.6	5,104.0	243.59	21.953		
21,700.0	13,200.0	18,404.3	10,002.8	148.4	143.2	53.30	8,366.6	2,956.8	5,348.0	5,101.7	246.28	21.715		
21,800.0	13,200.0	18,504.3	10,002.1	150.0	144.8	53.29	8,466.6	2,956.0	5,348.4	5,099.4	248.97	21.482		
21,900.0	13,200.0	18,604.3	10,001.4	151.5	146.4	53.29	8,566.6	2,955.2	5,348.8	5,097.2	251.67	21.254		
22,000.0	13,200.0	18,704.3	10,000.7	153.1	148.0	53.28	8,666.6	2,954.4	5,349.3	5,094.9	254.37	21.030		
22,100.0	13,200.0	18,804.3	10,000.0	154.7	149.6	53.27	8,766.5	2,953.6	5,349.7	5,092.6	257.07	20.811		
22,200.0	13,200.0	18,904.3	9,999.3	156.2	151.2	53.27	8,866.5	2,952.9	5,350.1	5,090.3	259.77	20.596		
22,300.0	13,200.0	19,004.3	9,998.6	157.8	152.9	53.26	8,966.5	2,952.1	5,350.5	5,088.0	262.47	20.385		
22,400.0	13,200.0	19,104.3	9,997.9	159.4	154.5	53.26	9,066.5	2,951.3	5,350.9	5,085.7	265.18	20.179		
22,500.0	13,200.0	19,204.3	9,997.1	161.0	156.1	53.25	9,166.5	2,950.5	5,351.3	5,083.4	267.88	19.976		
22,600.0	13,200.0	19,304.3	9,996.4	162.5	157.7	53.24	9,266.5	2,949.8	5,351.7	5,081.2	270.59	19.778		
22,700.0	13,200.0	19,404.3	9,995.7	164.1	159.3	53.24	9,366.5	2,949.0	5,352.2	5,078.9	273.30	19.583		
22,800.0	13,200.0	19,504.3	9,995.0	165.7	160.9	53.23	9,466.5	2,948.2	5,352.6	5,076.6	276.01	19.392		
22,900.0	13,200.0	19,604.3	9,994.3	167.3	162.5	53.23	9,566.5	2,947.4	5,353.0	5,074.3	278.73	19.205		
23,000.0	13,200.0	19,704.3	9,993.6	168.9	164.2	53.22	9,666.5	2,946.6	5,353.4	5,072.0	281.44	19.021		
23,100.0	13,200.0	19,804.3	9,992.9	170.4	165.8	53.21	9,766.5	2,945.9	5,353.8	5,069.7	284.16	18.841		
23,200.0	13,200.0	19,904.3	9,992.2	172.0	167.4	53.21	9,866.5	2,945.1	5,354.2	5,067.4	286.88	18.664		
23,300.0	13,200.0	20,004.3	9,991.5	173.6	169.0	53.20	9,966.5	2,944.3	5,354.7	5,065.1	289.59	18.490		
23,400.0	13,200.0	20,104.3	9,990.8	175.2	170.6	53.19	10,066.4	2,943.5	5,355.1	5,062.8	292.32	18.320		
23,504.9	13,200.0	20,209.1	9,990.1	176.9	172.3	53.19	10,171.3	2,942.7	5,355.5	5,060.4	295.17	18.144 SF		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 206-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	13.0	13.0	0.0	0.0	-11.87	5,146.2	-1,081.2	5,258.5					
100.0	100.0	94.6	94.6	0.1	0.1	-11.86	5,146.4	-1,081.0	5,258.8	5,258.5	0.28	N/A		
200.0	200.0	176.1	176.1	0.5	0.3	-11.85	5,147.0	-1,080.4	5,259.4	5,258.6	0.76	6,916.334		
300.0	300.0	263.1	263.1	0.8	0.5	-11.84	5,148.0	-1,079.5	5,260.3	5,258.9	1.37	3,837.844		
400.0	400.0	353.1	353.1	1.2	0.8	-11.83	5,149.2	-1,078.6	5,261.4	5,259.3	2.05	2,564.487		
500.0	500.0	449.6	449.5	1.6	1.2	-11.82	5,150.7	-1,077.7	5,262.6	5,259.9	2.76	1,909.565		
600.0	600.0	548.8	548.7	1.9	1.5	-11.80	5,152.1	-1,076.8	5,263.9	5,260.4	3.47	1,516.956		
700.0	700.0	638.9	638.8	2.3	1.9	-11.79	5,153.5	-1,076.0	5,265.2	5,261.1	4.15	1,268.186		
800.0	800.0	727.1	727.0	2.6	2.2	-11.78	5,155.1	-1,075.3	5,266.8	5,262.0	4.83	1,091.199		
900.0	900.0	820.6	820.5	3.0	2.5	-11.77	5,157.0	-1,074.6	5,268.6	5,263.1	5.52	954.381		
1,000.0	1,000.0	916.7	916.6	3.4	2.9	-11.76	5,158.9	-1,073.9	5,270.4	5,264.2	6.22	846.877		
1,100.0	1,100.0	1,012.8	1,012.7	3.7	3.2	-11.75	5,160.9	-1,073.2	5,272.4	5,265.4	6.93	761.217		
1,200.0	1,200.0	1,485.7	1,485.3	4.1	4.8	-11.76	5,153.2	-1,072.9	5,270.6	5,261.7	8.88	593.779		
1,300.0	1,300.0	1,650.3	1,649.7	4.4	5.4	-11.74	5,144.3	-1,068.7	5,264.7	5,254.9	9.80	537.457		
1,400.0	1,400.0	1,768.2	1,767.3	4.8	5.8	-11.71	5,137.3	-1,064.5	5,258.2	5,247.6	10.56	497.943		
1,500.0	1,500.0	1,878.1	1,876.9	5.1	6.2	-11.67	5,130.6	-1,060.0	5,251.4	5,240.1	11.30	464.658		
1,600.0	1,600.0	1,987.7	1,986.2	5.5	6.6	-11.63	5,124.0	-1,054.2	5,244.4	5,232.4	12.04	435.421		
1,700.0	1,700.0	2,102.2	2,100.2	5.9	7.0	-11.57	5,117.1	-1,047.2	5,237.2	5,224.4	12.81	408.900		
1,800.0	1,800.0	2,208.5	2,206.0	6.2	7.4	-11.50	5,110.5	-1,039.8	5,229.8	5,216.3	13.55	386.097		
1,900.0	1,900.0	2,306.9	2,304.0	6.6	7.8	-11.44	5,104.5	-1,032.9	5,222.4	5,208.1	14.26	366.301		
2,000.0	2,000.0	2,404.1	2,400.8	6.9	8.1	-11.38	5,098.5	-1,026.2	5,214.9	5,200.0	14.97	348.462		
2,100.0	2,100.0	2,500.5	2,496.8	7.3	8.5	-11.32	5,092.6	-1,019.7	5,207.6	5,191.9	15.67	332.288		
2,200.0	2,200.0	2,587.4	2,583.4	7.7	8.8	-11.27	5,087.4	-1,013.8	5,200.4	5,184.0	16.35	318.129		
2,300.0	2,300.0	2,668.9	2,664.5	8.0	9.1	-11.22	5,082.8	-1,008.2	5,193.5	5,176.5	17.00	305.441		
2,400.0	2,400.0	2,757.1	2,752.3	8.4	9.4	-11.16	5,078.1	-1,002.1	5,186.9	5,169.3	17.68	293.316		
2,500.0	2,500.0	2,860.1	2,855.0	8.7	9.8	-11.10	5,072.7	-994.9	5,180.4	5,162.0	18.42	281.280		
2,600.0	2,600.0	2,957.0	2,951.5	9.1	10.2	-11.03	5,067.5	-988.2	5,173.9	5,154.7	19.13	270.467		
2,700.0	2,700.0	3,047.3	3,041.5	9.4	10.5	-10.98	5,062.9	-982.1	5,167.5	5,147.7	19.82	260.732		
2,800.0	2,800.0	3,129.1	3,123.0	9.8	10.8	-10.93	5,058.8	-976.7	5,161.3	5,140.8	20.48	252.043		
2,900.0	2,900.0	3,197.4	3,191.2	10.2	11.1	-10.89	5,055.5	-973.0	5,155.7	5,134.6	21.09	244.498		
3,000.0	3,000.0	3,265.9	3,259.5	10.5	11.3	-10.87	5,052.5	-970.5	5,150.6	5,128.9	21.70	237.405		
3,100.0	3,100.0	3,292.0	3,285.6	10.9	11.4	-10.87	5,051.4	-969.9	5,146.5	5,124.3	22.15	232.300		
3,200.0	3,200.0	3,370.9	3,364.5	11.2	11.7	-10.85	5,048.8	-968.1	5,142.9	5,120.1	22.79	225.617		
3,300.0	3,300.0	3,419.8	3,413.3	11.6	11.9	-10.84	5,047.8	-967.0	5,140.5	5,117.2	23.33	220.356		
3,400.0	3,400.0	3,482.0	3,475.5	12.0	12.1	-10.83	5,047.3	-965.6	5,139.2	5,115.3	23.91	214.958		
3,500.0	3,500.0	3,527.8	3,521.2	12.3	12.3	-10.82	5,047.3	-964.5	5,138.7	5,114.2	24.43	210.372		
3,514.2	3,514.2	3,536.8	3,530.2	12.4	12.3	-10.82	5,047.4	-964.2	5,138.6	5,114.1	24.51	209.663		
3,600.0	3,600.0	3,590.9	3,584.3	12.7	12.5	-10.80	5,047.9	-962.6	5,138.9	5,113.9	25.01	205.504		
3,700.0	3,700.0	3,671.0	3,664.4	13.0	12.8	-10.76	5,049.3	-959.6	5,139.9	5,114.3	25.65	200.404		
3,800.0	3,800.0	3,749.6	3,742.9	13.4	13.1	-10.73	5,051.0	-956.8	5,141.3	5,115.1	26.28	195.632		
3,900.0	3,900.0	3,857.5	3,850.8	13.8	13.4	-10.70	5,052.9	-954.5	5,142.7	5,115.7	27.02	190.324		
4,000.0	4,000.0	3,977.2	3,970.4	14.1	13.8	-10.68	5,054.5	-953.0	5,143.8	5,116.0	27.80	185.028		
4,100.0	4,100.0	4,093.2	4,086.4	14.5	14.2	-10.67	5,055.5	-952.2	5,144.5	5,115.9	28.56	180.119		
4,200.0	4,200.0	4,203.5	4,196.7	14.8	14.6	-10.67	5,056.0	-952.4	5,145.0	5,115.7	29.30	175.618		
4,300.0	4,300.0	4,287.1	4,280.3	15.2	14.9	-10.67	5,056.3	-953.0	5,145.4	5,115.5	29.94	171.876		
4,400.0	4,400.0	4,359.1	4,352.3	15.5	15.1	-10.67	5,056.9	-953.1	5,146.4	5,115.8	30.54	168.538		
4,500.0	4,500.0	4,616.6	4,609.8	15.9	16.0	-10.69	5,057.6	-954.6	5,147.7	5,116.0	31.78	161.989		
4,600.0	4,600.0	4,721.2	4,714.3	16.3	16.3	-10.72	5,055.1	-957.0	5,145.9	5,113.4	32.49	158.393		
4,700.0	4,700.0	4,825.7	4,818.8	16.6	16.7	-10.75	5,052.6	-959.5	5,143.9	5,110.7	33.20	154.949		
4,800.0	4,800.0	4,916.4	4,909.4	17.0	17.0	-10.78	5,050.4	-961.7	5,142.0	5,108.2	33.86	151.846		
4,900.0	4,900.0	5,022.6	5,015.6	17.3	17.4	-10.81	5,048.0	-964.0	5,140.2	5,105.6	34.58	148.642		
5,000.0	5,000.0	5,133.1	5,126.0	17.7	17.7	-10.84	5,045.2	-966.3	5,138.1	5,102.8	35.32	145.493		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 206-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,228.5	5,221.4	18.1	18.1	-10.87	5,042.8	-968.4	5,136.0	5,100.0	36.00	142.668		
5,200.0	5,200.0	5,310.3	5,303.1	18.4	18.3	-10.89	5,040.8	-970.1	5,134.1	5,097.4	36.64	140.122		
5,300.0	5,300.0	5,378.0	5,370.8	18.8	18.6	-10.90	5,039.7	-970.9	5,132.7	5,095.5	37.23	137.848		
5,400.0	5,400.0	5,445.7	5,438.5	19.1	18.8	-10.91	5,039.2	-971.1	5,131.9	5,094.1	37.83	135.667		
5,500.0	5,500.0	5,533.8	5,526.6	19.5	19.1	-10.90	5,039.0	-970.8	5,131.7	5,093.2	38.50	133.307		
5,600.0	5,600.0	5,630.6	5,623.4	19.8	19.5	-10.90	5,038.9	-970.5	5,131.5	5,092.3	39.20	130.921		
5,700.0	5,700.0	5,729.9	5,722.7	20.2	19.8	-10.90	5,038.8	-970.4	5,131.4	5,091.5	39.90	128.601		
5,800.0	5,800.0	5,829.9	5,822.7	20.6	20.2	-10.90	5,038.6	-970.4	5,131.2	5,090.6	40.61	126.355		
5,900.0	5,900.0	5,934.6	5,927.4	20.9	20.5	-10.90	5,038.5	-970.5	5,131.1	5,089.7	41.33	124.141		
6,000.0	6,000.0	6,040.0	6,032.8	21.3	20.9	-10.90	5,038.1	-970.6	5,130.8	5,088.7	42.06	121.995		
6,099.9	6,099.9	6,123.2	6,115.9	21.6	21.2	-10.91	5,038.0	-970.7	5,130.7	5,088.0	42.70	120.154		
6,100.0	6,100.0	6,123.2	6,116.0	21.6	21.2	-10.91	5,038.0	-970.7	5,130.7	5,088.0	42.70	120.153		
6,200.0	6,200.0	6,208.2	6,201.0	22.0	21.5	-10.91	5,038.1	-971.0	5,130.8	5,087.5	43.35	118.356		
6,300.0	6,300.0	6,305.8	6,298.6	22.4	21.8	-10.91	5,038.3	-971.5	5,131.1	5,087.1	44.04	116.506		
6,400.0	6,400.0	6,405.3	6,398.1	22.7	22.1	-10.92	5,038.6	-971.9	5,131.5	5,086.7	44.74	114.697		
6,500.0	6,500.0	6,503.2	6,496.0	23.1	22.5	-10.92	5,038.8	-972.4	5,131.9	5,086.4	45.43	112.956		
6,600.0	6,600.0	6,601.3	6,594.1	23.4	22.8	-10.93	5,039.1	-973.0	5,132.3	5,086.1	46.13	111.267		
6,700.0	6,700.0	6,702.7	6,695.5	23.8	23.1	-10.93	5,039.5	-973.5	5,132.7	5,085.8	46.83	109.598		
6,800.0	6,800.0	6,805.1	6,797.9	24.1	23.5	-10.94	5,039.8	-974.0	5,133.1	5,085.5	47.54	107.970		
6,900.0	6,900.0	6,911.5	6,904.3	24.5	23.9	-10.94	5,040.0	-974.5	5,133.3	5,085.1	48.27	106.354		
7,000.0	7,000.0	7,043.3	7,036.1	24.9	24.3	-10.95	5,039.9	-975.2	5,133.4	5,084.3	49.08	104.587		
7,100.0	7,100.0	7,203.7	7,196.5	25.2	24.9	94.55	5,038.0	-976.4	5,132.4	5,082.5	49.99	102.678		
7,200.0	7,200.0	7,346.0	7,338.8	25.5	25.4	94.60	5,035.1	-976.8	5,130.7	5,079.9	50.82	100.966		
7,300.0	7,299.9	7,463.9	7,456.6	25.9	25.8	94.67	5,032.0	-976.6	5,128.5	5,076.9	51.56	99.457		
7,400.0	7,399.7	7,540.0	7,532.7	26.2	26.1	94.74	5,029.8	-976.3	5,126.2	5,074.0	52.17	98.251		
7,500.0	7,499.4	7,617.1	7,609.7	26.6	26.3	94.82	5,028.0	-976.1	5,124.5	5,071.7	52.79	97.078		
7,600.0	7,598.9	7,674.1	7,666.7	26.9	26.5	94.89	5,027.2	-975.9	5,123.9	5,070.6	53.33	96.075		
7,612.2	7,611.0	7,681.1	7,673.7	26.9	26.6	94.90	5,027.2	-975.8	5,123.9	5,070.5	53.40	95.956		
7,700.0	7,698.3	7,733.7	7,726.3	27.2	26.7	94.96	5,026.9	-975.7	5,124.3	5,070.4	53.88	95.098		
7,800.0	7,797.4	7,865.5	7,858.1	27.6	27.2	95.15	5,026.3	-975.1	5,124.9	5,070.2	54.70	93.699		
7,900.0	7,896.3	7,978.4	7,971.0	27.9	27.6	95.34	5,025.2	-974.3	5,125.1	5,069.7	55.44	92.442		
8,000.0	7,994.9	8,078.6	8,071.2	28.3	28.0	95.53	5,024.1	-973.5	5,125.5	5,069.4	56.15	91.287		
8,100.0	8,093.3	8,151.5	8,144.1	28.6	28.2	95.67	5,023.5	-972.9	5,126.3	5,069.6	56.76	90.318		
8,182.6	8,174.2	8,203.2	8,195.8	28.9	28.4	95.78	5,023.4	-972.5	5,127.7	5,070.4	57.23	89.590		
8,200.0	8,191.3	8,214.0	8,206.6	29.0	28.4	95.80	5,023.4	-972.4	5,128.0	5,070.7	57.34	89.439		
8,300.0	8,289.1	8,295.0	8,287.6	29.4	28.7	95.99	5,023.8	-972.0	5,130.6	5,072.6	57.98	88.488		
8,400.0	8,387.0	8,379.8	8,372.4	29.7	29.0	96.19	5,024.5	-971.7	5,133.5	5,074.9	58.64	87.542		
8,500.0	8,484.9	8,562.7	8,555.3	30.1	29.6	96.63	5,024.9	-970.0	5,136.1	5,076.5	59.66	86.092		
8,600.0	8,582.8	8,644.0	8,636.1	30.5	30.6	97.41	5,017.7	-955.7	5,134.6	5,073.6	60.99	84.187		
8,700.0	8,680.6	8,896.5	8,888.0	30.9	30.8	97.60	5,016.5	-948.1	5,132.9	5,071.3	61.58	83.360		
8,782.2	8,761.1	8,928.0	8,918.8	31.2	31.0	97.74	5,016.4	-941.8	5,132.5	5,070.5	62.02	82.761		
8,800.0	8,778.5	8,928.0	8,918.8	31.2	31.0	97.74	5,016.4	-941.8	5,132.5	5,070.4	62.09	82.667		
8,900.0	8,876.4	8,928.0	8,918.8	31.6	31.0	97.74	5,016.4	-941.8	5,133.8	5,071.3	62.48	82.172		
9,000.0	8,974.3	8,973.0	8,963.0	32.0	31.1	97.93	5,017.4	-933.4	5,136.6	5,073.6	63.02	81.506		
9,100.0	9,072.1	8,973.0	8,963.0	32.4	31.1	97.93	5,017.4	-933.4	5,141.0	5,077.6	63.38	81.109		
9,200.0	9,170.0	9,004.0	8,993.7	32.8	31.2	98.05	5,018.8	-929.1	5,147.0	5,083.2	63.86	80.603		
9,300.0	9,267.9	9,022.0	9,011.5	33.2	31.3	98.12	5,019.8	-926.8	5,154.5	5,090.2	64.27	80.206		
9,400.0	9,365.8	9,072.4	9,061.5	33.6	31.5	98.30	5,023.2	-921.4	5,163.2	5,098.4	64.80	79.673		
9,500.0	9,463.7	9,401.0	9,389.4	34.0	32.6	99.12	5,038.5	-915.2	5,171.9	5,105.5	66.47	77.810		
9,600.0	9,561.5	9,401.0	9,389.4	34.4	32.6	99.12	5,038.5	-915.2	5,178.0	5,111.2	66.83	77.481		
9,700.0	9,659.4	9,401.0	9,389.4	34.8	32.6	99.12	5,038.5	-915.2	5,186.0	5,118.8	67.17	77.207		
9,800.0	9,757.3	9,442.1	9,430.5	35.2	32.7	99.21	5,040.1	-915.2	5,194.6	5,126.9	67.67	76.766		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 206-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.0	9,855.2	9,454.5	9,442.9	35.6	32.8	99.24	5,041.0	-915.1	5,205.5	5,137.5	68.03	76.514		
10,000.0	9,953.0	9,495.0	9,483.1	36.0	32.9	99.34	5,045.5	-914.8	5,218.7	5,150.2	68.51	76.169		
10,100.0	10,050.9	9,495.0	9,483.1	36.4	32.9	99.34	5,045.5	-914.8	5,232.5	5,163.7	68.79	76.059		
10,200.0	10,148.8	9,495.0	9,483.1	36.9	32.9	99.34	5,045.5	-914.8	5,248.2	5,179.1	69.06	76.000		
10,300.0	10,246.7	9,495.0	9,483.1	37.3	32.9	99.34	5,045.5	-914.8	5,265.7	5,196.4	69.30	75.989		
10,400.0	10,344.6	9,495.0	9,483.1	37.7	32.9	99.34	5,045.5	-914.8	5,285.1	5,215.6	69.52	76.026		
10,500.0	10,442.4	9,495.0	9,483.1	38.1	32.9	99.34	5,045.5	-914.8	5,306.3	5,236.6	69.72	76.110		
10,600.0	10,540.3	9,520.0	9,507.7	38.5	33.0	99.41	5,049.7	-914.3	5,328.5	5,258.4	70.05	76.069		
10,700.0	10,638.2	9,542.0	9,529.2	39.0	33.1	99.47	5,054.6	-913.8	5,353.0	5,282.7	70.35	76.093		
10,800.0	10,736.1	9,542.0	9,529.2	39.4	33.1	99.47	5,054.6	-913.8	5,378.7	5,308.2	70.50	76.289		
10,900.0	10,833.9	9,542.0	9,529.2	39.8	33.1	99.47	5,054.6	-913.8	5,406.1	5,335.5	70.64	76.527		
11,000.0	10,931.8	9,542.0	9,529.2	40.2	33.1	99.47	5,054.6	-913.8	5,435.2	5,364.5	70.76	76.807		
11,100.0	11,029.7	9,589.0	9,574.5	40.7	33.2	99.59	5,067.1	-912.7	5,465.5	5,394.4	71.18	76.783		
11,200.0	11,127.6	9,589.0	9,574.5	41.1	33.2	99.59	5,067.1	-912.7	5,497.2	5,425.9	71.28	77.121		
11,300.0	11,225.5	9,589.0	9,574.5	41.5	33.2	99.59	5,067.1	-912.7	5,530.5	5,459.1	71.36	77.498		
11,400.0	11,323.3	9,589.0	9,574.5	42.0	33.2	99.59	5,067.1	-912.7	5,565.3	5,493.9	71.43	77.913		
11,500.0	11,421.2	9,612.9	9,597.3	42.4	33.3	99.65	5,074.3	-912.4	5,601.1	5,529.4	71.66	78.166		
11,523.5	11,444.2	9,614.5	9,598.8	42.5	33.3	99.66	5,074.8	-912.4	5,609.7	5,538.1	71.68	78.262		
11,600.0	11,519.2	9,636.0	9,618.9	42.8	33.3	100.16	5,082.5	-912.5	5,638.8	5,566.9	71.87	78.464		
11,700.0	11,617.7	9,636.0	9,618.9	43.3	33.3	100.77	5,082.5	-912.5	5,677.0	5,605.1	71.88	78.975		
11,800.0	11,716.7	9,636.0	9,618.9	43.7	33.3	101.40	5,082.5	-912.5	5,716.3	5,644.4	71.88	79.528		
11,900.0	11,815.9	9,636.0	9,618.9	44.1	33.3	102.05	5,082.5	-912.5	5,756.5	5,684.7	71.85	80.124		
12,000.0	11,915.5	9,655.7	9,637.0	44.4	33.4	102.73	5,090.1	-912.8	5,797.5	5,725.5	71.94	80.586		
12,100.0	12,015.2	9,675.3	9,654.9	44.8	33.5	103.41	5,098.0	-913.2	5,839.2	5,767.2	72.02	81.079		
12,200.0	12,115.1	9,683.0	9,662.0	45.2	33.5	104.09	5,101.2	-913.5	5,881.5	5,809.5	71.98	81.705		
12,300.0	12,215.1	9,683.0	9,662.0	45.5	33.5	104.78	5,101.2	-913.5	5,924.6	5,852.7	71.87	82.436		
12,311.9	12,227.0	9,683.0	9,662.0	45.5	33.5	-0.63	5,101.2	-913.5	5,929.7	5,857.9	71.85	82.525		
12,400.0	12,315.1	9,683.0	9,662.0	45.8	33.5	-0.63	5,101.2	-913.5	5,968.6	5,896.9	71.74	83.194		
12,500.0	12,415.1	9,730.0	9,703.9	46.2	33.6	-0.64	5,122.3	-915.0	6,013.6	5,941.6	72.00	83.527		
12,600.0	12,515.1	9,730.0	9,703.9	46.5	33.6	-0.64	5,122.3	-915.0	6,059.6	5,987.7	71.86	84.322		
12,700.0	12,615.1	9,730.0	9,703.9	46.9	33.6	-0.64	5,122.3	-915.0	6,106.9	6,035.1	71.72	85.143		
12,711.9	12,627.0	9,730.0	9,703.9	46.9	33.6	-0.64	5,122.3	-915.0	6,112.6	6,040.9	71.71	85.242		
12,750.0	12,665.1	9,730.0	9,703.9	47.0	33.6	20.61	5,122.3	-915.0	6,129.9	6,058.3	71.65	85.552		
12,800.0	12,714.8	9,730.0	9,703.9	47.2	33.6	19.86	5,122.3	-915.0	6,149.8	6,078.2	71.57	85.922		
12,850.0	12,763.8	9,730.0	9,703.9	47.4	33.6	19.28	5,122.3	-915.0	6,166.1	6,094.6	71.49	86.250		
12,900.0	12,811.8	9,730.0	9,703.9	47.5	33.6	18.85	5,122.3	-915.0	6,178.9	6,107.5	71.40	86.535		
12,950.0	12,858.3	9,730.0	9,703.9	47.7	33.6	18.55	5,122.3	-915.0	6,188.1	6,116.7	71.31	86.777		
13,000.0	12,903.1	9,754.2	9,725.0	47.8	33.7	18.41	5,134.3	-916.0	6,192.9	6,121.5	71.42	86.714		
13,050.0	12,945.8	9,777.0	9,744.2	48.0	33.7	18.40	5,146.4	-917.1	6,194.8	6,123.3	71.51	86.630		
13,100.0	12,986.1	9,777.0	9,744.2	48.1	33.7	18.47	5,146.4	-917.1	6,192.4	6,121.0	71.40	86.728		
13,150.0	13,023.7	9,777.0	9,744.2	48.3	33.7	18.67	5,146.4	-917.1	6,186.3	6,115.0	71.29	86.781		
13,200.0	13,058.2	9,777.0	9,744.2	48.4	33.7	18.99	5,146.4	-917.1	6,176.5	6,105.3	71.17	86.787		
13,250.0	13,089.4	9,777.0	9,744.2	48.5	33.7	19.45	5,146.4	-917.1	6,163.1	6,092.0	71.05	86.746		
13,300.0	13,117.2	9,777.0	9,744.2	48.7	33.7	20.06	5,146.4	-917.1	6,146.1	6,075.2	70.92	86.658		
13,350.0	13,141.1	9,777.0	9,744.2	48.8	33.7	20.84	5,146.4	-917.1	6,125.7	6,054.9	70.80	86.521		
13,400.0	13,161.2	9,777.0	9,744.2	48.9	33.7	21.82	5,146.4	-917.1	6,102.0	6,031.3	70.68	86.336		
13,450.0	13,177.2	9,777.0	9,744.2	49.1	33.7	23.04	5,146.4	-917.1	6,075.0	6,004.5	70.56	86.101		
13,500.0	13,189.1	9,799.2	9,762.5	49.2	33.8	24.67	5,158.8	-918.2	6,044.8	5,974.1	70.65	85.565		
13,550.0	13,196.6	9,803.9	9,766.4	49.4	33.8	26.60	5,161.5	-918.4	6,011.9	5,941.3	70.58	85.175		
13,600.0	13,199.8	9,824.0	9,782.7	49.6	33.9	29.11	5,173.2	-919.4	5,976.4	5,905.8	70.67	84.566		
13,611.9	13,200.0	9,824.0	9,782.7	49.6	33.9	29.76	5,173.2	-919.4	5,967.6	5,897.0	70.65	84.463		
13,700.0	13,200.0	9,824.0	9,782.7	50.0	33.9	28.00	5,173.2	-919.4	5,901.5	5,831.0	70.49	83.722		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 206-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	13,200.0	9,824.0	9,782.7	50.4	33.9	25.96	5,173.2	-919.4	5,826.1	5,755.8	70.29	82.891		
13,900.0	13,200.0	9,824.0	9,782.7	50.9	33.9	23.86	5,173.2	-919.4	5,750.4	5,680.4	70.06	82.075		
14,000.0	13,200.0	9,824.0	9,782.7	51.4	33.9	21.72	5,173.2	-919.4	5,674.6	5,604.8	69.82	81.276		
14,100.0	13,200.0	9,848.0	9,801.9	52.0	33.9	19.66	5,187.7	-920.5	5,598.3	5,528.5	69.79	80.211		
14,200.0	13,200.0	9,871.0	9,819.8	52.6	34.0	17.54	5,202.0	-921.4	5,522.2	5,452.5	69.74	79.185		
14,300.0	13,200.0	9,871.0	9,819.8	53.2	34.0	15.28	5,202.0	-921.4	5,445.9	5,376.4	69.43	78.440		
14,400.0	13,200.0	9,871.0	9,819.8	53.8	34.0	12.99	5,202.0	-921.4	5,369.7	5,300.6	69.09	77.722		
14,500.0	13,200.0	9,871.0	9,819.8	54.5	34.0	10.71	5,202.0	-921.4	5,293.7	5,225.0	68.72	77.033		
14,600.0	13,200.0	9,871.0	9,819.8	55.1	34.0	8.44	5,202.0	-921.4	5,218.2	5,149.9	68.32	76.375		
14,687.2	13,200.0	9,871.0	9,819.8	55.7	34.0	6.47	5,202.0	-921.4	5,152.7	5,084.8	67.95	75.828		
14,700.0	13,200.0	9,871.0	9,819.8	55.8	34.0	6.47	5,202.0	-921.4	5,143.2	5,075.3	67.90	75.750		
14,800.0	13,200.0	9,897.0	9,839.5	56.5	34.1	6.49	5,218.9	-922.4	5,068.2	5,000.4	67.75	74.813		
14,900.0	13,200.0	9,918.0	9,854.8	57.3	34.1	6.51	5,233.3	-923.3	4,994.6	4,927.1	67.53	73.963		
15,000.0	13,200.0	9,918.0	9,854.8	58.1	34.1	6.51	5,233.3	-923.3	4,921.5	4,854.4	67.08	73.368		
15,100.0	13,200.0	9,918.0	9,854.8	58.9	34.1	6.51	5,233.3	-923.3	4,849.4	4,782.8	66.63	72.786		
15,200.0	13,200.0	9,918.0	9,854.8	59.7	34.1	6.51	5,233.3	-923.3	4,778.2	4,712.1	66.16	72.217		
15,300.0	13,200.0	9,938.1	9,869.0	60.6	34.2	6.52	5,247.5	-924.3	4,707.9	4,641.9	65.93	71.409		
15,400.0	13,200.0	9,966.0	9,888.2	61.6	34.3	6.54	5,267.7	-925.9	4,638.7	4,572.9	65.79	70.507		
15,500.0	13,200.0	9,966.0	9,888.2	62.5	34.3	6.54	5,267.7	-925.9	4,570.1	4,504.7	65.32	69.960		
15,600.0	13,200.0	9,966.0	9,888.2	63.5	34.3	6.54	5,267.7	-925.9	4,502.6	4,437.8	64.86	69.426		
15,700.0	13,200.0	9,966.0	9,888.2	64.5	34.3	6.54	5,267.7	-925.9	4,436.4	4,372.0	64.39	68.904		
15,800.0	13,200.0	9,989.0	9,903.3	65.5	34.4	6.54	5,284.9	-927.4	4,371.0	4,306.8	64.19	68.098		
15,900.0	13,200.0	10,013.0	9,918.4	66.6	34.5	6.55	5,303.6	-928.9	4,307.1	4,243.1	64.01	67.290		
16,000.0	13,200.0	10,013.0	9,918.4	67.7	34.5	6.55	5,303.6	-928.9	4,244.1	4,180.6	63.55	66.788		
16,100.0	13,200.0	10,013.0	9,918.4	68.8	34.5	6.55	5,303.6	-928.9	4,182.5	4,119.4	63.09	66.297		
16,200.0	13,200.0	10,013.0	9,918.4	69.9	34.5	6.55	5,303.6	-928.9	4,122.5	4,059.8	62.64	65.816		
16,300.0	13,200.0	10,033.9	9,930.9	71.1	34.5	6.55	5,320.3	-930.2	4,063.4	4,001.0	62.44	65.078		
16,400.0	13,200.0	10,060.0	9,945.4	72.3	34.6	6.56	5,341.9	-931.8	4,006.4	3,944.1	62.32	64.291		
16,500.0	13,200.0	10,060.0	9,945.4	73.5	34.6	6.56	5,341.9	-931.8	3,950.3	3,888.4	61.89	63.823		
16,600.0	13,200.0	10,060.0	9,945.4	74.7	34.6	6.56	5,341.9	-931.8	3,895.9	3,834.4	61.49	63.363		
16,700.0	13,200.0	10,060.0	9,945.4	75.9	34.6	6.56	5,341.9	-931.8	3,843.3	3,782.3	61.09	62.908		
16,800.0	13,200.0	10,107.0	9,969.3	77.1	34.8	6.56	5,382.3	-934.5	3,792.2	3,730.9	61.26	61.899		
16,900.0	13,200.0	10,107.0	9,969.3	78.4	34.8	6.56	5,382.3	-934.5	3,742.5	3,681.5	60.91	61.443		
17,000.0	13,200.0	10,125.0	9,977.8	79.7	34.8	6.57	5,398.1	-935.5	3,694.6	3,633.8	60.78	60.786		
17,100.0	13,200.0	10,125.0	9,977.8	81.0	34.8	6.57	5,398.1	-935.5	3,648.6	3,588.1	60.47	60.332		
17,200.0	13,200.0	10,155.0	9,991.1	82.3	35.0	6.57	5,424.9	-937.2	3,604.3	3,543.8	60.52	59.553		
17,300.0	13,200.0	10,155.0	9,991.1	83.6	35.0	6.57	5,424.9	-937.2	3,562.0	3,501.7	60.27	59.097		
17,400.0	13,200.0	10,155.0	9,991.1	84.9	35.0	6.57	5,424.9	-937.2	3,522.0	3,462.0	60.06	58.642		
17,500.0	13,200.0	10,181.4	10,001.4	86.3	35.1	6.56	5,449.2	-938.8	3,483.7	3,423.5	60.15	57.917		
17,600.0	13,200.0	10,202.0	10,008.5	87.6	35.1	6.56	5,468.5	-940.0	3,447.8	3,387.6	60.21	57.264		
17,700.0	13,200.0	10,202.0	10,008.5	89.0	35.1	6.56	5,468.5	-940.0	3,414.0	3,353.9	60.11	56.797		
17,800.0	13,200.0	10,202.0	10,008.5	90.3	35.1	6.56	5,468.5	-940.0	3,382.8	3,322.7	60.06	56.325		
17,900.0	13,200.0	10,226.1	10,015.8	91.7	35.2	6.55	5,491.3	-941.5	3,353.5	3,293.3	60.26	55.648		
18,000.0	13,200.0	10,249.0	10,021.5	93.1	35.3	6.54	5,513.5	-943.0	3,327.1	3,266.6	60.50	54.999		
18,100.0	13,200.0	10,249.0	10,021.5	94.5	35.3	6.54	5,513.5	-943.0	3,302.9	3,242.3	60.60	54.507		
18,200.0	13,200.0	10,271.5	10,026.2	95.9	35.4	6.53	5,535.5	-944.4	3,281.2	3,220.2	60.92	53.863		
18,300.0	13,200.0	10,296.0	10,030.9	97.3	35.5	6.52	5,559.5	-945.7	3,261.6	3,200.3	61.30	53.209		
18,400.0	13,200.0	10,344.0	10,039.0	98.7	35.7	6.49	5,606.7	-948.1	3,244.2	3,182.3	61.87	52.431		
18,500.0	13,200.0	10,344.0	10,039.0	100.2	35.7	6.49	5,606.7	-948.1	3,228.8	3,166.6	62.20	51.911		
18,600.0	13,200.0	10,391.0	10,044.8	101.6	35.9	6.45	5,653.2	-951.6	3,215.7	3,152.8	62.84	51.175		
18,700.0	13,200.0	10,391.0	10,044.8	103.0	35.9	6.45	5,653.2	-951.6	3,204.9	3,141.6	63.29	50.642		
18,800.0	13,200.0	10,419.9	10,047.1	104.5	36.0	6.41	5,681.9	-954.2	3,196.7	3,132.7	63.92	50.007		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 206-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,900.0	13,200.0	10,438.0	10,048.0	105.9	36.1	6.39	5,699.9	-955.8	3,190.9	3,126.3	64.57	49.416		
19,000.0	13,200.0	10,488.4	10,049.5	107.4	36.4	6.32	5,750.2	-960.1	3,187.1	3,121.8	65.38	48.750		
19,100.0	13,200.0	10,532.0	10,050.0	108.9	36.6	6.27	5,793.6	-963.6	3,185.2	3,119.0	66.19	48.122		
19,200.0	13,200.0	10,608.1	10,050.0	110.3	37.0	6.16	5,869.4	-970.0	3,184.4	3,117.3	67.13	47.436		
19,245.9	13,200.0	10,643.1	10,049.7	111.0	37.2	6.11	5,904.3	-973.0	3,184.3	3,116.8	67.57	47.126 CC		
19,300.0	13,200.0	10,685.2	10,049.3	111.8	37.5	6.05	5,946.2	-976.7	3,184.4	3,116.3	68.10	46.761		
19,400.0	13,200.0	10,777.6	10,048.0	113.3	38.1	5.92	6,038.3	-984.7	3,185.0	3,115.9	69.15	46.063		
19,500.0	13,200.0	10,874.4	10,046.7	114.8	38.8	5.80	6,134.8	-991.8	3,185.7	3,115.4	70.24	45.352		
19,600.0	13,200.0	10,946.0	10,045.5	116.3	39.3	5.71	6,206.1	-997.3	3,186.8	3,115.5	71.28	44.709		
19,700.0	13,200.0	11,010.3	10,043.7	117.8	39.8	5.66	6,270.4	-1,000.8	3,189.0	3,116.7	72.31	44.099		
19,800.0	13,200.0	11,117.4	10,040.5	119.3	40.8	5.58	6,377.2	-1,005.6	3,191.7	3,118.1	73.54	43.400		
19,900.0	13,200.0	11,220.8	10,037.8	120.8	41.7	5.56	6,480.7	-1,007.3	3,194.1	3,119.3	74.80	42.702		
20,000.0	13,200.0	11,312.0	10,035.8	122.3	42.5	5.60	6,571.8	-1,005.5	3,196.6	3,120.5	76.05	42.035		
20,100.0	13,200.0	11,387.9	10,033.7	123.8	43.3	5.64	6,647.6	-1,003.5	3,199.7	3,122.4	77.24	41.426		
20,200.0	13,200.0	20,200.0	10,029.6	125.3	134.5	5.70	6,771.2	-1,000.8	3,203.4	3,074.2	129.18	24.797 ES, SF		
20,300.0	13,200.0	11,634.8	10,027.6	126.8	45.8	5.76	6,894.4	-998.3	3,205.2	3,125.0	80.17	39.982		
20,400.0	13,200.0	11,816.4	10,027.1	128.4	47.8	5.83	7,076.0	-995.4	3,205.5	3,123.5	82.02	39.083		
20,500.0	13,200.0	11,899.4	10,027.6	129.9	48.8	5.86	7,158.9	-994.6	3,205.1	3,121.8	83.31	38.474		
20,502.8	13,200.0	11,901.5	10,027.6	129.9	48.8	5.86	7,161.1	-994.6	3,205.1	3,121.8	83.34	38.457		
20,600.0	13,200.0	11,985.2	10,027.5	131.4	49.8	5.88	7,244.7	-994.0	3,205.4	3,120.8	84.62	37.878		
20,700.0	13,200.0	12,070.2	10,027.1	132.9	50.8	5.91	7,329.7	-993.3	3,206.0	3,120.1	85.95	37.303		
20,800.0	13,200.0	12,146.8	10,026.3	134.5	51.7	5.93	7,406.3	-992.5	3,207.3	3,120.0	87.22	36.770		
20,900.0	13,200.0	12,219.0	10,025.0	136.0	52.6	5.95	7,478.5	-991.6	3,209.2	3,120.8	88.48	36.270		
21,000.0	13,200.0	12,291.6	10,023.1	137.6	53.5	5.97	7,551.1	-990.7	3,212.1	3,122.3	89.75	35.790		
21,100.0	13,200.0	12,345.0	10,021.2	139.1	54.2	5.99	7,604.4	-990.3	3,216.0	3,125.1	90.90	35.381		
21,200.0	13,200.0	12,694.4	10,015.9	140.7	58.8	5.91	7,953.6	-996.6	3,218.6	3,124.7	93.88	34.283		
21,300.0	13,200.0	12,780.0	10,017.9	142.2	59.9	5.86	8,039.1	-1,000.3	3,215.9	3,120.6	95.23	33.770		
21,400.0	13,200.0	12,880.9	10,020.1	143.8	61.3	5.79	8,139.8	-1,005.4	3,213.3	3,116.7	96.67	33.242		
21,500.0	13,200.0	12,978.7	10,022.1	145.3	62.6	5.71	8,237.4	-1,010.7	3,210.8	3,112.7	98.09	32.734		
21,600.0	13,200.0	13,057.9	10,023.4	146.9	63.7	5.64	8,316.5	-1,015.4	3,208.7	3,109.3	99.40	32.282		
21,700.0	13,200.0	13,142.9	10,024.4	148.4	64.9	5.58	8,401.3	-1,019.7	3,207.1	3,106.3	100.75	31.833		
21,800.0	13,200.0	13,254.8	10,025.7	150.0	66.5	5.52	8,513.2	-1,023.7	3,205.6	3,103.3	102.28	31.340		
21,900.0	13,200.0	13,334.1	10,026.6	151.5	67.6	5.48	8,592.4	-1,026.9	3,204.2	3,100.6	103.62	30.924		
21,998.0	13,200.0	13,397.8	10,026.8	153.1	68.6	5.46	8,656.1	-1,028.7	3,203.7	3,098.8	104.84	30.557		
22,000.0	13,200.0	13,399.0	10,026.8	153.1	68.6	5.46	8,657.3	-1,028.8	3,203.7	3,098.8	104.87	30.550		
22,100.0	13,200.0	13,439.0	10,026.7	154.7	69.1	5.46	8,697.3	-1,029.1	3,204.4	3,098.5	105.96	30.242		
22,200.0	13,200.0	13,502.6	10,025.5	156.2	70.1	5.47	8,760.8	-1,028.8	3,206.5	3,099.3	107.21	29.909		
22,300.0	13,200.0	13,559.7	10,023.4	157.8	70.9	5.48	8,817.9	-1,028.2	3,210.3	3,101.9	108.42	29.611		
22,400.0	13,200.0	13,641.0	10,019.7	159.4	72.0	5.50	8,899.1	-1,027.3	3,215.0	3,105.2	109.79	29.283		
22,500.0	13,200.0	13,876.0	10,012.4	161.0	75.5	5.56	9,134.0	-1,024.9	3,218.8	3,106.5	112.27	28.671		
22,600.0	13,200.0	13,963.4	10,011.9	162.5	76.8	5.60	9,221.3	-1,023.6	3,219.7	3,106.0	113.71	28.314		
22,700.0	13,200.0	14,036.7	10,011.0	164.1	77.8	5.63	9,294.6	-1,022.4	3,221.2	3,106.1	115.06	27.996		
22,800.0	13,200.0	14,099.0	10,009.5	165.7	78.8	5.65	9,356.9	-1,021.6	3,223.7	3,107.4	116.32	27.715		
22,900.0	13,200.0	14,177.7	10,007.0	167.3	79.9	5.67	9,435.5	-1,020.9	3,227.1	3,109.4	117.69	27.420		
23,000.0	13,200.0	14,405.5	10,004.6	168.9	83.3	5.72	9,663.3	-1,019.4	3,227.5	3,107.3	120.14	26.863		
23,020.5	13,200.0	14,420.8	10,004.6	169.2	83.6	5.72	9,678.6	-1,019.3	3,227.5	3,107.0	120.42	26.801		
23,100.0	13,200.0	14,477.0	10,004.5	170.4	84.4	5.73	9,734.8	-1,019.3	3,227.7	3,106.2	121.48	26.569		
23,200.0	13,200.0	14,525.6	10,003.8	172.0	85.1	5.73	9,783.4	-1,019.5	3,229.2	3,106.5	122.65	26.329		
23,300.0	13,200.0	14,571.0	10,002.4	173.6	85.8	5.73	9,828.8	-1,020.0	3,232.3	3,108.6	123.77	26.115		
23,400.0	13,200.0	14,625.2	9,999.8	175.2	86.7	5.72	9,882.9	-1,020.8	3,237.0	3,112.1	124.94	25.908		
23,504.9	13,200.0	14,690.7	9,995.7	176.9	87.7	5.70	9,948.3	-1,022.0	3,243.4	3,117.2	126.22	25.696		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-MWD, 11004-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-90.70	-1.7	-140.0	140.0					
100.0	100.0	101.7	101.7	0.1	0.2	-90.73	-1.8	-139.8	139.8	139.5	0.28	493.356		
200.0	200.0	202.3	202.3	0.5	0.4	-90.81	-2.0	-139.0	139.1	138.2	0.85	164.066		
300.0	300.0	302.7	302.7	0.8	0.7	-90.97	-2.3	-137.9	138.0	136.4	1.57	88.084		
400.0	400.0	402.3	402.3	1.2	1.1	-91.30	-3.1	-136.8	136.8	134.5	2.28	60.000		
500.0	500.0	501.1	501.1	1.6	1.4	-91.59	-3.8	-136.2	136.3	133.3	2.99	45.599		
600.0	600.0	602.3	602.3	1.9	1.8	-91.75	-4.2	-135.7	135.8	132.1	3.71	36.647		
686.7	686.7	687.7	687.7	2.2	2.1	-91.90	-4.5	-135.3	135.4	131.1	4.32	31.352 CC		
700.0	700.0	700.9	700.9	2.3	2.1	-91.92	-4.5	-135.3	135.4	131.0	4.41	30.691		
800.0	800.0	800.5	800.5	2.6	2.5	-91.98	-4.7	-135.6	135.7	130.6	5.11	26.547		
900.0	900.0	900.6	900.6	3.0	2.8	-92.02	-4.8	-136.0	136.1	130.3	5.81	23.431		
1,000.0	1,000.0	1,001.1	1,001.1	3.4	3.2	-91.85	-4.4	-136.1	136.1	129.6	6.51	20.910		
1,027.5	1,027.5	1,028.5	1,028.5	3.5	3.3	-91.81	-4.3	-136.1	136.1	129.4	6.70	20.308		
1,100.0	1,100.0	1,100.9	1,100.9	3.7	3.5	-91.75	-4.2	-136.1	136.2	129.0	7.21	18.882		
1,200.0	1,200.0	1,199.9	1,199.9	4.1	3.8	-91.74	-4.2	-136.5	136.6	128.7	7.91	17.259 ES		
1,300.0	1,300.0	1,300.2	1,300.2	4.4	4.2	-91.60	-3.8	-137.3	137.3	128.7	8.62	15.937		
1,400.0	1,400.0	1,399.9	1,399.8	4.8	4.5	-91.38	-3.3	-138.0	138.1	128.8	9.32	14.812		
1,500.0	1,500.0	1,499.8	1,499.7	5.1	4.9	-91.10	-2.7	-138.8	138.8	128.8	10.03	13.844		
1,600.0	1,600.0	1,597.4	1,597.3	5.5	5.2	-90.74	-1.8	-140.5	140.6	129.9	10.73	13.108		
1,700.0	1,700.0	1,695.2	1,695.1	5.9	5.6	-90.39	-1.0	-143.9	144.0	132.6	11.42	12.603		
1,800.0	1,800.0	1,792.3	1,792.0	6.2	5.9	-90.26	-0.7	-148.6	148.8	136.7	12.12	12.283		
1,900.0	1,900.0	1,888.8	1,888.3	6.6	6.3	-90.59	-1.6	-155.8	156.3	143.5	12.80	12.211		
2,000.0	2,000.0	1,987.1	1,986.2	6.9	6.6	-91.06	-3.0	-164.0	164.7	151.2	13.50	12.200		
2,100.0	2,100.0	2,083.0	2,081.6	7.3	7.0	-91.53	-4.6	-173.5	174.6	160.5	14.17	12.322		
2,200.0	2,200.0	2,179.8	2,177.7	7.7	7.3	-91.96	-6.3	-185.1	186.7	171.8	14.85	12.568		
2,300.0	2,300.0	2,278.4	2,275.5	8.0	7.7	-92.36	-8.1	-197.5	199.3	183.7	15.56	12.811		
2,400.0	2,400.0	2,377.5	2,373.8	8.4	8.1	-92.96	-10.9	-210.1	212.2	195.9	16.26	13.045		
2,500.0	2,500.0	2,478.6	2,474.1	8.7	8.4	-93.47	-13.5	-222.7	224.7	207.7	17.00	13.219		
2,600.0	2,600.0	2,579.4	2,574.1	9.1	8.8	-93.76	-15.4	-234.2	236.3	218.5	17.73	13.329		
2,700.0	2,700.0	2,679.5	2,673.6	9.4	9.2	-94.14	-17.8	-245.3	247.5	229.0	18.45	13.416		
2,800.0	2,800.0	2,780.6	2,774.1	9.8	9.6	-94.68	-21.0	-256.0	258.2	239.1	19.18	13.466		
2,900.0	2,900.0	2,877.8	2,870.7	10.2	10.0	-95.56	-25.9	-266.0	269.0	249.1	19.87	13.534		
3,000.0	3,000.0	2,974.0	2,966.0	10.5	10.4	-96.56	-31.8	-276.8	280.8	260.3	20.55	13.662		
3,100.0	3,100.0	3,065.6	3,056.8	10.9	10.7	-97.33	-37.1	-288.7	294.5	273.3	21.18	13.900		
3,200.0	3,200.0	3,158.3	3,148.1	11.2	11.1	-98.09	-43.1	-303.0	310.5	288.7	21.82	14.232		
3,300.0	3,300.0	3,258.1	3,246.4	11.6	11.5	-98.88	-49.9	-319.1	327.6	305.0	22.55	14.528		
3,400.0	3,400.0	3,361.2	3,348.0	12.0	11.9	-99.60	-56.7	-334.8	343.7	320.4	23.32	14.738		
3,500.0	3,500.0	3,465.1	3,450.8	12.3	12.4	-100.27	-63.3	-349.2	358.4	334.3	24.09	14.876		
3,600.0	3,600.0	3,557.0	3,541.5	12.7	12.7	-100.68	-68.3	-362.3	373.4	348.7	24.73	15.100		
3,700.0	3,700.0	3,650.6	3,633.8	13.0	13.1	-100.91	-72.7	-377.2	390.0	364.6	25.39	15.363		
3,800.0	3,800.0	3,747.1	3,728.9	13.4	13.6	-101.07	-77.0	-393.6	407.5	381.4	26.08	15.625		
3,900.0	3,900.0	3,844.3	3,824.5	13.8	14.0	-101.28	-81.8	-410.3	425.3	398.6	26.78	15.883		
4,000.0	4,000.0	3,946.7	3,925.3	14.1	14.4	-101.75	-88.8	-427.2	442.9	415.4	27.55	16.078		
4,100.0	4,100.0	4,054.1	4,031.0	14.5	14.9	-102.54	-98.6	-443.1	459.3	430.9	28.36	16.193		
4,200.0	4,200.0	4,168.3	4,144.1	14.8	15.3	-103.10	-106.3	-457.0	472.7	443.4	29.22	16.174		
4,300.0	4,300.0	4,277.7	4,252.8	15.2	15.8	-103.04	-108.6	-468.9	483.7	453.7	30.02	16.112		
4,400.0	4,400.0	4,376.4	4,351.0	15.5	16.2	-102.75	-108.3	-478.7	493.3	462.6	30.73	16.053		
4,500.0	4,500.0	4,466.4	4,440.4	15.9	16.5	-102.44	-107.9	-488.9	504.3	473.0	31.38	16.074		
4,600.0	4,600.0	4,558.3	4,531.5	16.3	16.9	-102.33	-109.4	-500.7	517.2	485.2	32.03	16.147		
4,700.0	4,700.0	4,664.1	4,636.4	16.6	17.3	-102.57	-114.6	-513.9	530.5	497.7	32.81	16.168		
4,800.0	4,800.0	4,763.5	4,735.1	17.0	17.7	-102.69	-118.3	-525.1	542.3	508.7	33.53	16.172		
4,900.0	4,900.0	4,858.2	4,829.0	17.3	18.1	-102.87	-122.5	-536.3	554.9	520.6	34.21	16.218		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-MWD, 11004-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	5,000.0	4,964.4	4,934.4	17.7	18.5	-103.07	-127.5	-549.0	567.5	532.5	34.99	16.217		
5,100.0	5,100.0	5,069.4	5,038.6	18.1	19.0	-103.27	-132.1	-559.9	578.7	542.9	35.76	16.184		
5,200.0	5,200.0	5,165.4	5,134.1	18.4	19.4	-103.45	-136.3	-569.8	589.7	553.2	36.45	16.178		
5,300.0	5,300.0	5,255.3	5,223.3	18.8	19.7	-103.60	-140.3	-580.0	601.8	564.7	37.09	16.224		
5,400.0	5,400.0	5,349.2	5,316.4	19.1	20.1	-103.71	-144.4	-592.0	615.2	577.4	37.77	16.289		
5,500.0	5,500.0	5,436.3	5,402.6	19.5	20.5	-103.70	-147.4	-604.4	629.8	591.4	38.37	16.413		
5,600.0	5,600.0	5,528.1	5,493.1	19.8	20.9	-103.52	-149.0	-619.3	646.1	607.1	39.02	16.558		
5,700.0	5,700.0	5,631.9	5,595.4	20.2	21.3	-103.31	-150.6	-636.5	662.6	622.8	39.79	16.651		
5,800.0	5,800.0	5,732.9	5,695.2	20.6	21.7	-103.15	-152.4	-652.4	678.3	637.8	40.54	16.733		
5,900.0	5,900.0	5,826.7	5,787.8	20.9	22.1	-103.06	-154.8	-667.2	694.2	653.0	41.21	16.847		
6,000.0	6,000.0	5,918.3	5,878.0	21.3	22.5	-103.01	-157.7	-682.3	711.0	669.2	41.85	16.988		
6,100.0	6,100.0	6,021.6	5,979.8	21.6	23.0	-103.00	-161.5	-699.5	728.1	685.5	42.63	17.080		
6,200.0	6,200.0	6,127.7	6,084.5	22.0	23.5	-103.03	-165.7	-716.2	744.2	700.8	43.43	17.138		
6,300.0	6,300.0	6,207.0	6,162.7	22.4	23.8	-103.02	-168.6	-729.4	761.3	717.4	43.95	17.324		
6,400.0	6,400.0	6,294.2	6,248.2	22.7	24.2	-102.97	-171.7	-745.6	780.2	735.7	44.54	17.517		
6,500.0	6,500.0	6,394.1	6,346.2	23.1	24.7	-102.94	-175.7	-764.8	799.8	754.5	45.28	17.662		
6,600.0	6,600.0	6,499.6	6,449.9	23.4	25.1	-102.93	-180.1	-784.2	818.7	772.6	46.09	17.764		
6,700.0	6,700.0	6,610.7	6,559.1	23.8	25.6	-102.94	-184.5	-803.4	836.4	789.5	46.95	17.817		
6,800.0	6,800.0	6,720.8	6,667.8	24.1	26.1	-102.95	-188.7	-820.8	852.7	804.9	47.78	17.846		
6,900.0	6,900.0	6,828.2	6,773.9	24.5	26.6	-102.96	-192.5	-836.6	867.8	819.2	48.58	17.863		
7,000.0	7,000.0	6,936.1	6,880.8	24.9	27.0	-102.99	-196.3	-851.4	882.0	832.6	49.38	17.861		
7,100.0	7,100.0	7,049.0	6,992.7	25.2	27.5	2.50	-199.7	-865.6	894.0	843.8	50.20	17.811		
7,200.0	7,200.0	7,161.2	7,104.2	25.5	28.0	2.49	-202.7	-878.0	902.8	851.8	50.98	17.708		
7,300.0	7,299.9	7,272.3	7,214.8	25.9	28.4	2.45	-206.0	-888.7	908.6	856.8	51.75	17.556		
7,400.0	7,399.7	7,380.4	7,322.4	26.2	28.8	2.42	-209.0	-898.0	911.5	859.0	52.50	17.363		
7,500.0	7,499.4	7,486.5	7,428.1	26.6	29.2	2.35	-212.4	-906.3	911.9	858.7	53.23	17.132		
7,600.0	7,598.9	7,591.7	7,533.0	26.9	29.6	2.25	-216.1	-913.6	909.9	856.0	53.95	16.866		
7,700.0	7,698.3	7,700.3	7,641.3	27.2	30.0	2.10	-220.6	-920.3	905.6	850.9	54.68	16.560		
7,800.0	7,797.4	7,806.3	7,747.0	27.6	30.4	1.93	-225.2	-925.7	898.5	843.1	55.40	16.218		
7,900.0	7,896.3	7,913.3	7,853.9	27.9	30.8	1.77	-229.6	-930.5	889.0	832.9	56.12	15.842		
8,000.0	7,994.9	8,014.0	7,954.4	28.3	31.1	1.62	-233.5	-934.5	877.2	820.4	56.81	15.441		
8,100.0	8,093.3	8,146.0	8,086.3	28.6	31.6	1.55	-236.0	-937.4	861.5	803.9	57.55	14.969		
8,182.6	8,174.2	8,232.7	8,173.0	28.9	31.9	1.57	-236.4	-937.7	845.5	787.4	58.11	14.551		
8,200.0	8,191.3	8,249.1	8,189.4	29.0	31.9	1.57	-236.5	-937.8	842.0	783.8	58.22	14.461		
8,300.0	8,289.1	8,346.4	8,286.7	29.4	32.2	1.57	-237.1	-938.1	822.0	763.1	58.89	13.957		
8,400.0	8,387.0	8,444.8	8,385.1	29.7	32.5	1.57	-237.7	-938.2	801.8	742.2	59.57	13.461		
8,500.0	8,484.9	8,540.7	8,481.1	30.1	32.9	1.58	-238.2	-938.6	781.8	721.5	60.24	12.977		
8,600.0	8,582.8	8,638.2	8,578.5	30.5	33.2	1.56	-239.1	-939.1	762.0	701.0	60.92	12.508		
8,700.0	8,680.6	8,735.5	8,675.8	30.9	33.5	1.53	-240.2	-939.5	742.2	680.6	61.60	12.049		
8,800.0	8,778.5	8,831.6	8,771.9	31.2	33.8	1.48	-241.5	-940.1	722.6	660.3	62.28	11.603		
8,900.0	8,876.4	8,928.8	8,869.1	31.6	34.1	1.42	-243.1	-940.8	703.2	640.2	62.96	11.170		
9,000.0	8,974.3	9,023.1	8,963.4	32.0	34.4	1.28	-245.4	-941.6	684.1	620.4	63.64	10.749		
9,100.0	9,072.1	9,118.7	9,058.9	32.4	34.8	1.10	-248.3	-942.9	665.6	601.2	64.33	10.346		
9,200.0	9,170.0	9,215.2	9,155.3	32.8	35.1	1.01	-250.2	-944.6	647.3	582.3	65.02	9.955		
9,300.0	9,267.9	9,328.4	9,268.6	33.2	35.5	0.89	-252.3	-946.0	628.5	562.8	65.68	9.569		
9,400.0	9,365.8	9,429.8	9,369.9	33.6	35.8	0.87	-252.7	-945.4	607.5	541.2	66.33	9.159		
9,500.0	9,463.7	9,524.5	9,464.7	34.0	36.1	0.81	-253.5	-944.9	586.8	519.8	67.01	8.756		
9,600.0	9,561.5	9,625.9	9,566.0	34.4	36.4	0.82	-253.6	-944.6	566.0	498.4	67.67	8.364		
9,700.0	9,659.4	9,718.8	9,658.9	34.8	36.7	1.02	-252.0	-944.9	545.3	477.0	68.37	7.977		
9,800.0	9,757.3	9,812.9	9,753.0	35.2	37.0	1.22	-250.8	-945.8	525.5	456.4	69.06	7.609		
9,900.0	9,855.2	9,914.5	9,854.6	35.6	37.3	1.33	-250.4	-946.6	505.7	436.0	69.74	7.251		
10,000.0	9,953.0	10,009.6	9,949.7	36.0	37.6	1.34	-250.9	-947.1	485.8	415.4	70.44	6.896		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-MWD, 11004-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,050.9	10,107.9	10,047.9	36.4	38.0	1.30	-251.9	-947.8	466.2	395.0	71.14	6.553		
10,200.0	10,148.8	10,205.2	10,145.3	36.9	38.3	1.26	-252.9	-948.4	446.6	374.7	71.83	6.216		
10,300.0	10,246.7	10,305.4	10,245.5	37.3	38.6	1.37	-252.8	-949.4	427.0	354.5	72.52	5.888		
10,400.0	10,344.6	10,417.9	10,357.5	37.7	39.0	2.67	-244.3	-950.5	405.7	332.7	73.08	5.552		
10,500.0	10,442.4	10,525.9	10,463.5	38.1	39.3	5.97	-223.5	-949.9	381.0	307.4	73.65	5.174		
10,600.0	10,540.3	10,620.2	10,553.5	38.5	39.5	10.84	-195.6	-949.3	356.2	281.7	74.51	4.780		
10,700.0	10,638.2	10,700.3	10,626.7	39.0	39.7	16.92	-163.1	-950.1	336.0	260.4	75.57	4.446		
10,800.0	10,736.1	10,773.6	10,689.8	39.4	39.9	24.14	-125.9	-952.5	325.7	249.5	76.22	4.273		
10,830.3	10,765.7	10,794.6	10,707.0	39.5	39.9	26.45	-113.9	-953.2	325.0	248.8	76.22	4.264 SF		
10,900.0	10,833.9	10,838.6	10,741.9	39.8	40.0	31.56	-87.2	-954.9	328.8	253.2	75.64	4.347		
11,000.0	10,931.8	10,887.7	10,777.9	40.2	40.0	37.60	-54.0	-957.0	349.2	276.3	72.81	4.796		
11,100.0	11,029.7	10,920.1	10,799.4	40.7	40.1	41.71	-29.7	-958.5	387.6	319.9	67.69	5.726		
11,200.0	11,127.6	10,942.0	10,811.7	41.1	40.1	44.55	-11.7	-959.6	442.4	380.8	61.64	7.178		
11,300.0	11,225.5	10,942.0	10,811.7	41.5	40.1	44.55	-11.7	-959.6	510.0	455.2	54.82	9.302		
11,400.0	11,323.3	10,965.8	10,822.5	42.0	40.1	47.68	9.4	-960.4	585.3	534.2	51.03	11.469		
11,500.0	11,421.2	10,975.0	10,826.1	42.4	40.1	48.88	18.0	-960.6	666.8	619.4	47.36	14.079		
11,523.5	11,444.2	10,976.9	10,826.8	42.5	40.1	49.12	19.7	-960.6	686.6	640.0	46.63	14.725		
11,600.0	11,519.2	11,004.0	10,834.8	42.8	40.1	54.11	45.6	-960.2	754.0	708.3	45.72	16.492		
11,700.0	11,617.7	11,004.0	10,834.8	43.3	40.1	56.50	45.6	-960.2	842.9	799.6	43.23	19.496		
11,800.0	11,716.7	11,004.0	10,834.8	43.7	40.1	59.42	45.6	-960.2	934.5	893.1	41.40	22.571		
11,900.0	11,815.9	11,004.0	10,834.8	44.1	40.1	62.94	45.6	-960.2	1,028.2	988.1	40.07	25.661		
12,000.0	11,915.5	11,004.0	10,834.8	44.4	40.1	67.14	45.6	-960.2	1,123.3	1,084.2	39.10	28.728		
12,100.0	12,015.2	11,004.0	10,834.8	44.8	40.1	72.08	45.6	-960.2	1,219.5	1,181.1	38.41	31.748		
12,200.0	12,115.1	11,024.6	10,839.5	45.2	40.5	79.57	65.6	-959.6	1,316.2	1,277.7	38.49	34.199		
12,300.0	12,215.1	11,040.4	10,843.1	45.5	40.7	86.67	81.0	-959.0	1,413.2	1,374.8	38.45	36.759		
12,311.9	12,227.0	11,042.3	10,843.5	45.5	40.7	-17.98	82.8	-958.9	1,424.7	1,386.3	38.44	37.063		
12,400.0	12,315.1	11,055.8	10,846.5	45.8	41.0	-17.23	96.0	-958.4	1,510.4	1,472.0	38.44	39.297		
12,500.0	12,415.1	11,070.6	10,849.7	46.2	41.2	-16.45	110.4	-957.7	1,607.8	1,569.3	38.49	41.768		
12,600.0	12,515.1	11,084.8	10,852.7	46.5	41.4	-15.76	124.3	-957.1	1,705.3	1,666.7	38.61	44.169		
12,700.0	12,615.1	11,096.0	10,855.0	46.9	41.6	-15.24	135.2	-956.5	1,802.9	1,764.2	38.71	46.569		
12,711.9	12,627.0	11,096.0	10,855.0	46.9	41.6	-15.24	135.2	-956.5	1,814.5	1,775.8	38.70	46.889		
12,750.0	12,665.1	11,096.0	10,855.0	47.0	41.6	5.14	135.2	-956.5	1,851.5	1,812.9	38.63	47.934		
12,800.0	12,714.8	11,096.0	10,855.0	47.2	41.6	3.93	135.2	-956.5	1,899.0	1,860.5	38.47	49.359		
12,850.0	12,763.8	11,096.0	10,855.0	47.4	41.6	3.18	135.2	-956.5	1,945.2	1,906.9	38.27	50.832		
12,900.0	12,811.8	11,096.0	10,855.0	47.5	41.6	2.68	135.2	-956.5	1,989.8	1,951.8	38.02	52.338		
12,950.0	12,858.3	11,096.0	10,855.0	47.7	41.6	2.32	135.2	-956.5	2,032.5	1,994.8	37.74	53.863		
13,000.0	12,903.1	11,096.0	10,855.0	47.8	41.6	2.05	135.2	-956.5	2,073.3	2,035.9	37.43	55.388		
13,050.0	12,945.8	11,096.0	10,855.0	48.0	41.6	1.84	135.2	-956.5	2,111.8	2,074.7	37.12	56.897		
13,100.0	12,986.1	11,133.2	10,861.3	48.1	41.6	2.22	171.8	-954.6	2,146.3	2,109.1	37.22	57.667		
13,150.0	13,023.7	11,139.8	10,862.2	48.3	41.7	2.15	178.4	-954.3	2,179.3	2,142.4	36.94	59.001		
13,200.0	13,058.2	11,146.8	10,863.0	48.4	41.7	2.10	185.3	-954.0	2,209.5	2,172.9	36.66	60.270		
13,250.0	13,089.4	11,188.0	10,865.8	48.5	41.7	2.47	226.4	-952.1	2,238.2	2,201.5	36.71	60.966		
13,300.0	13,117.2	11,188.0	10,865.8	48.7	41.7	2.35	226.4	-952.1	2,261.9	2,225.5	36.37	62.191		
13,350.0	13,141.1	11,188.0	10,865.8	48.8	41.7	2.26	226.4	-952.1	2,282.5	2,246.5	36.07	63.275		
13,400.0	13,161.2	11,188.0	10,865.8	48.9	41.7	2.19	226.4	-952.1	2,300.1	2,264.3	35.83	64.188		
13,450.0	13,177.2	11,188.0	10,865.8	49.1	41.7	2.13	226.4	-952.1	2,314.6	2,278.9	35.66	64.905		
13,500.0	13,189.1	11,208.0	10,866.3	49.2	41.7	2.30	246.3	-951.2	2,325.7	2,290.0	35.62	65.294		
13,550.0	13,196.6	11,240.4	10,867.1	49.4	41.7	2.59	278.8	-949.8	2,332.9	2,297.3	35.64	65.464		
13,600.0	13,199.8	11,279.0	10,867.7	49.6	41.7	2.97	317.3	-948.0	2,336.3	2,300.6	35.69	65.470		
13,611.9	13,200.0	11,282.7	10,867.7	49.6	41.7	3.01	321.0	-947.9	2,336.5	2,300.8	35.69	65.473		
13,700.0	13,200.0	13,700.0	10,869.6	50.0	55.4	3.95	413.6	-942.9	2,337.0	2,298.1	38.90	60.083		
13,800.0	13,200.0	11,429.9	10,870.3	50.4	41.9	4.51	467.9	-939.4	2,338.7	2,302.6	36.15	64.697		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Nina Cortell - Nina Cortell Fed Com #125H - Wellbore #1 - Actual		Offset Site Error: 0.0 usft	
Survey Program: 176-MWD, 11004-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
13,900.0	13,200.0	11,486.7	10,870.0	50.9	42.0	5.07	524.6	-935.8	2,342.4	2,305.9	36.51	64.160				
14,000.0	13,200.0	11,553.3	10,868.8	51.4	42.1	5.68	591.0	-932.1	2,347.4	2,310.5	36.98	63.475				
14,100.0	13,200.0	11,630.3	10,866.5	52.0	42.3	6.30	667.9	-928.8	2,353.5	2,315.9	37.55	62.684				
14,200.0	13,200.0	11,732.0	10,863.5	52.6	42.6	6.93	769.6	-927.0	2,359.0	2,320.8	38.17	61.796				
14,300.0	13,200.0	11,794.9	10,861.1	53.2	42.9	7.29	832.4	-927.3	2,365.0	2,326.2	38.84	60.891				
14,400.0	13,200.0	11,841.9	10,858.0	53.8	43.1	7.58	879.4	-927.5	2,373.1	2,333.5	39.58	59.951				
14,500.0	13,200.0	11,893.8	10,853.6	54.5	43.3	7.87	931.1	-927.7	2,382.8	2,342.4	40.40	58.976				
14,600.0	13,200.0	11,955.4	10,847.1	55.1	43.6	8.15	992.3	-927.6	2,393.9	2,352.6	41.25	58.028				
14,687.2	13,200.0	12,019.6	10,839.7	55.7	43.9	8.38	1,056.0	-926.9	2,404.3	2,362.3	41.99	57.257				
14,700.0	13,200.0	12,032.7	10,838.1	55.8	44.0	8.38	1,069.1	-926.8	2,405.8	2,363.7	42.09	57.161				
14,800.0	13,200.0	12,539.5	10,829.0	56.5	47.7	8.28	1,574.5	-933.5	2,399.8	2,355.6	44.18	54.313				
14,900.0	13,200.0	12,603.1	10,831.1	57.3	48.3	8.25	1,638.0	-935.7	2,395.9	2,351.1	44.84	53.437				
15,000.0	13,200.0	12,697.3	10,833.7	58.1	49.2	8.20	1,732.1	-938.6	2,392.8	2,347.0	45.79	52.256				
15,100.0	13,200.0	12,810.9	10,837.2	58.9	50.3	8.16	1,845.6	-941.9	2,389.6	2,342.6	46.94	50.907				
15,200.0	13,200.0	12,888.5	10,839.7	59.7	51.0	8.13	1,923.1	-944.0	2,386.1	2,338.3	47.82	49.895				
15,300.0	13,200.0	12,945.0	10,840.6	60.6	51.6	8.11	1,979.6	-945.5	2,384.3	2,335.7	48.58	49.076				
15,349.9	13,200.0	12,973.8	10,840.7	61.1	51.9	8.10	2,008.4	-946.2	2,384.1	2,335.1	49.00	48.658				
15,400.0	13,200.0	13,002.9	10,840.5	61.6	52.2	8.09	2,037.5	-946.8	2,384.3	2,334.9	49.42	48.245				
15,500.0	13,200.0	13,073.4	10,839.1	62.5	53.0	8.07	2,108.0	-948.0	2,386.0	2,335.6	50.38	47.355				
15,600.0	13,200.0	13,158.6	10,837.0	63.5	53.9	8.04	2,193.2	-949.5	2,388.3	2,336.8	51.46	46.409				
15,700.0	13,200.0	13,229.0	10,834.7	64.5	54.7	8.03	2,263.5	-950.0	2,391.6	2,339.1	52.49	45.565				
15,800.0	13,200.0	13,496.4	10,835.8	65.5	57.8	8.07	2,530.9	-950.9	2,389.8	2,335.0	54.87	43.557				
15,900.0	13,200.0	13,598.2	10,839.1	66.6	59.0	8.09	2,632.6	-951.3	2,386.7	2,330.6	56.14	42.517				
16,000.0	13,200.0	13,669.1	10,841.1	67.7	59.9	8.10	2,703.4	-951.3	2,384.1	2,327.0	57.16	41.707				
16,100.0	13,200.0	13,703.0	10,841.7	68.8	60.3	8.12	2,737.3	-951.1	2,383.3	2,325.3	57.95	41.128				
16,114.6	13,200.0	13,728.9	10,841.8	69.0	60.6	8.13	2,763.2	-950.8	2,383.1	2,324.9	58.22	40.931				
16,200.0	13,200.0	13,763.2	10,841.4	69.9	61.0	8.15	2,797.5	-950.2	2,384.4	2,325.4	58.98	40.425				
16,300.0	13,200.0	16,300.0	10,838.9	71.1	93.3	8.21	2,898.8	-948.2	2,387.3	2,310.2	77.09	30.969				
16,400.0	13,200.0	14,081.4	10,839.5	72.3	65.1	8.31	3,115.7	-945.7	2,387.2	2,324.7	62.55	38.163				
16,500.0	13,200.0	14,178.0	10,842.4	73.5	66.3	8.34	3,212.2	-945.5	2,384.4	2,320.5	63.88	37.326				
16,600.0	13,200.0	14,248.7	10,844.1	74.7	67.3	8.37	3,282.9	-945.1	2,382.4	2,317.4	65.01	36.648				
16,700.0	13,200.0	14,485.4	10,853.6	75.9	70.4	8.42	3,519.3	-946.3	2,378.4	2,310.8	67.60	35.180				
16,800.0	13,200.0	14,534.4	10,856.4	77.1	71.1	8.42	3,568.3	-947.0	2,372.7	2,304.2	68.51	34.632				
16,900.0	13,200.0	14,592.8	10,858.4	78.4	71.9	8.42	3,626.6	-947.9	2,369.0	2,299.5	69.53	34.070				
17,000.0	13,200.0	14,652.0	10,859.7	79.7	72.7	8.41	3,685.7	-948.9	2,366.9	2,296.3	70.59	33.530				
17,088.1	13,200.0	14,712.9	10,860.2	80.8	73.6	8.40	3,746.6	-949.7	2,366.2	2,294.6	71.61	33.044				
17,100.0	13,200.0	14,720.2	10,860.1	81.0	73.7	8.40	3,753.9	-949.8	2,366.2	2,294.5	71.74	32.984				
17,200.0	13,200.0	14,779.6	10,859.5	82.3	74.5	8.40	3,813.4	-950.2	2,367.2	2,294.4	72.84	32.499				
17,300.0	13,200.0	14,842.0	10,857.8	83.6	75.4	8.40	3,875.7	-950.2	2,370.0	2,296.1	73.99	32.033				
17,400.0	13,200.0	14,926.5	10,854.6	84.9	76.6	8.42	3,960.2	-949.8	2,374.0	2,298.7	75.31	31.523				
17,500.0	13,200.0	15,034.6	10,850.5	86.3	78.1	8.45	4,068.2	-948.8	2,378.0	2,301.2	76.81	30.958				
17,600.0	13,200.0	15,097.1	10,847.7	87.6	79.0	8.47	4,130.6	-948.2	2,382.6	2,304.6	77.99	30.550				
17,700.0	13,200.0	15,169.5	10,843.5	89.0	80.0	8.48	4,202.8	-947.3	2,388.6	2,309.4	79.25	30.141				
17,800.0	13,200.0	15,255.5	10,837.8	90.3	81.2	8.51	4,288.7	-946.1	2,395.5	2,314.9	80.61	29.717				
17,900.0	13,200.0	15,446.2	10,827.8	91.7	84.0	8.56	4,479.1	-944.0	2,401.2	2,318.4	82.76	29.015				
18,000.0	13,200.0	15,589.6	10,823.7	93.1	86.1	8.57	4,622.4	-944.1	2,404.4	2,319.8	84.57	28.432				
18,100.0	13,200.0	15,685.7	10,822.2	94.5	87.5	8.54	4,718.5	-945.9	2,405.8	2,319.8	86.00	27.975				
18,200.0	13,200.0	15,758.3	10,820.5	95.9	88.6	8.52	4,791.1	-946.9	2,408.0	2,320.7	87.26	27.597				
18,300.0	13,200.0	18,300.0	10,817.6	97.3	126.4	8.50	4,903.0	-948.1	2,410.5	2,303.1	107.41	22.442				
18,400.0	13,200.0	15,957.3	10,815.7	98.7	91.5	8.49	4,990.0	-949.0	2,412.7	2,322.5	90.21	26.746				
18,500.0	13,200.0	16,135.6	10,812.6	100.2	94.2	8.47	5,168.2	-950.6	2,414.8	2,322.5	92.32	26.158				
18,600.0	13,200.0	16,228.1	10,813.3	101.6	95.6	8.48	5,260.7	-951.0	2,414.1	2,320.3	93.77	25.746				

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Nina Cortell - Nina Cortell Fed Com #125H - Wellbore #1 - Actual		Offset Site Error:		0.0 usft
Survey Program: 176-MWD, 11004-MWD														Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
18,606.5	13,200.0	16,232.4	10,813.3	101.7	95.7	8.48	5,265.0	-951.0	2,414.1	2,320.2	93.85	25.724				
18,700.0	13,200.0	16,321.3	10,813.1	103.0	97.0	8.51	5,354.0	-950.6	2,414.5	2,319.2	95.23	25.353				
18,767.4	13,200.0	16,393.3	10,813.2	104.0	98.1	8.53	5,425.9	-950.4	2,414.4	2,318.1	96.30	25.072				
18,800.0	13,200.0	16,421.5	10,813.3	104.5	98.5	8.54	5,454.2	-950.2	2,414.4	2,317.7	96.76	24.952				
18,900.0	13,200.0	16,493.4	10,813.1	105.9	99.6	8.57	5,526.0	-949.3	2,415.1	2,317.0	98.07	24.626				
19,000.0	13,200.0	16,551.0	10,812.1	107.4	100.5	8.60	5,583.6	-948.4	2,417.2	2,318.0	99.26	24.352				
19,100.0	13,200.0	16,614.0	10,810.0	108.9	101.4	8.63	5,646.6	-947.2	2,421.0	2,320.5	100.50	24.089				
19,200.0	13,200.0	16,757.4	10,804.3	110.3	103.6	8.68	5,789.8	-945.2	2,425.5	2,323.0	102.41	23.683				
19,300.0	13,200.0	17,016.8	10,804.9	111.8	107.6	8.53	6,049.0	-953.8	2,424.6	2,319.5	105.11	23.067				
19,400.0	13,200.0	17,106.5	10,807.7	113.3	109.0	8.48	6,138.5	-956.9	2,421.1	2,314.5	106.53	22.727				
19,500.0	13,200.0	17,216.4	10,811.3	114.8	110.7	8.45	6,248.4	-959.6	2,417.6	2,309.5	108.12	22.362				
19,600.0	13,200.0	17,305.9	10,814.3	116.3	112.1	8.44	6,337.8	-961.2	2,414.1	2,304.6	109.56	22.035				
19,700.0	13,200.0	17,403.8	10,817.4	117.8	113.6	8.44	6,435.7	-962.6	2,410.9	2,299.8	111.08	21.704				
19,800.0	13,200.0	17,462.4	10,818.8	119.3	114.5	8.44	6,494.2	-963.3	2,408.5	2,296.2	112.29	21.449				
19,900.0	13,200.0	17,557.6	10,819.5	120.8	116.0	8.42	6,589.4	-964.8	2,407.7	2,293.9	113.79	21.159				
20,000.0	13,200.0	17,641.1	10,820.6	122.3	117.3	8.42	6,672.9	-965.7	2,406.3	2,291.1	115.20	20.889				
20,034.5	13,200.0	17,661.2	10,820.7	122.8	117.6	8.42	6,693.0	-965.8	2,406.2	2,290.6	115.62	20.812				
20,100.0	13,200.0	17,691.0	10,820.6	123.8	118.1	8.42	6,722.8	-966.0	2,406.6	2,290.3	116.34	20.686				
20,200.0	13,200.0	17,765.2	10,819.4	125.3	119.2	8.43	6,797.0	-966.0	2,408.4	2,290.7	117.68	20.466				
20,300.0	13,200.0	17,863.2	10,816.7	126.8	120.7	8.44	6,895.0	-965.9	2,411.2	2,292.0	119.22	20.226				
20,400.0	13,200.0	17,938.9	10,814.4	128.4	121.9	8.43	6,970.6	-966.7	2,414.3	2,293.7	120.55	20.027				
20,500.0	13,200.0	18,197.5	10,812.1	129.9	126.0	8.34	7,229.1	-972.1	2,415.4	2,292.1	123.31	19.587				
20,600.0	13,200.0	18,297.0	10,814.5	131.4	127.6	8.28	7,328.5	-975.6	2,412.7	2,287.9	124.82	19.330				
20,700.0	13,200.0	18,504.0	10,824.4	132.9	130.8	8.16	7,535.0	-983.9	2,407.4	2,280.4	127.01	18.954				
20,800.0	13,200.0	18,544.0	10,827.2	134.5	131.5	8.13	7,574.9	-985.7	2,400.7	2,272.6	128.14	18.736				
20,900.0	13,200.0	18,602.1	10,830.1	136.0	132.4	8.10	7,632.8	-988.0	2,396.0	2,266.6	129.36	18.522				
21,000.0	13,200.0	18,639.0	10,830.6	137.6	133.0	8.08	7,669.7	-989.2	2,394.2	2,263.8	130.42	18.358				
21,030.2	13,200.0	18,654.0	10,830.5	138.0	133.2	8.07	7,684.8	-989.7	2,394.2	2,263.4	130.77	18.309				
21,100.0	13,200.0	18,693.8	10,830.1	139.1	133.9	8.05	7,724.6	-990.7	2,394.7	2,263.1	131.59	18.198				
21,200.0	13,200.0	18,752.9	10,828.6	140.7	134.8	8.03	7,783.6	-992.0	2,397.0	2,264.2	132.78	18.052				
21,300.0	13,200.0	18,816.7	10,826.0	142.2	135.8	8.01	7,847.3	-993.1	2,400.9	2,266.9	134.00	17.917				
21,400.0	13,200.0	18,873.3	10,822.9	143.8	136.7	7.99	7,903.9	-993.7	2,406.4	2,271.2	135.14	17.806				
21,500.0	13,200.0	19,143.5	10,811.2	145.3	141.0	7.81	8,173.5	-1,001.9	2,412.2	2,274.2	138.01	17.478				
21,600.0	13,200.0	19,229.6	10,811.1	146.9	142.4	7.71	8,259.4	-1,006.8	2,411.7	2,272.4	139.37	17.304				
21,603.8	13,200.0	19,232.2	10,811.0	146.9	142.4	7.71	8,262.0	-1,006.9	2,411.7	2,272.3	139.42	17.298				
21,700.0	13,200.0	19,304.0	10,810.1	148.4	143.6	7.62	8,333.7	-1,011.1	2,412.3	2,271.7	140.65	17.151				
21,800.0	13,200.0	19,364.3	10,808.4	150.0	144.6	7.54	8,393.9	-1,014.6	2,414.3	2,272.5	141.82	17.024				
21,900.0	13,200.0	19,580.1	10,807.6	151.5	148.0	7.30	8,609.3	-1,026.5	2,413.5	2,269.4	144.06	16.753				
22,000.0	13,200.0	19,644.1	10,808.1	153.1	149.1	7.23	8,673.2	-1,030.1	2,412.1	2,266.8	145.30	16.601				
22,039.1	13,200.0	19,668.1	10,808.0	153.7	149.4	7.20	8,697.1	-1,031.5	2,412.0	2,266.2	145.77	16.546				
22,100.0	13,200.0	19,706.9	10,807.6	154.7	150.1	7.15	8,735.9	-1,033.6	2,412.2	2,265.7	146.51	16.464				
22,200.0	13,200.0	22,200.0	10,805.8	156.2	190.3	6.98	8,867.9	-1,041.6	2,413.1	2,246.3	166.82	14.465				
22,300.0	13,200.0	19,968.0	10,807.3	157.8	154.3	6.83	8,996.5	-1,049.1	2,411.1	2,261.3	149.81	16.095				
22,385.3	13,200.0	20,014.7	10,807.5	159.2	155.0	6.82	9,043.2	-1,050.0	2,410.6	2,259.7	150.85	15.980				
22,400.0	13,200.0	20,023.9	10,807.5	159.4	155.2	6.82	9,052.4	-1,050.0	2,410.6	2,259.5	151.04	15.960				
22,500.0	13,200.0	20,100.9	10,806.9	161.0	156.4	6.85	9,129.3	-1,049.6	2,411.5	2,259.0	152.44	15.819				
22,600.0	13,200.0	20,201.3	10,805.9	162.5	158.0	6.88	9,229.8	-1,049.0	2,412.7	2,258.6	154.04	15.663				
22,700.0	13,200.0	20,472.2	10,811.0	164.1	162.4	6.72	9,500.3	-1,058.4	2,410.7	2,254.2	156.58	15.396				
22,800.0	13,200.0	20,537.0	10,813.8	165.7	163.4	6.67	9,564.9	-1,061.3	2,405.8	2,247.9	157.90	15.236				
22,900.0	13,200.0	20,575.7	10,814.8	167.3	164.0	6.65	9,603.6	-1,062.4	2,402.8	2,243.7	159.07	15.105				
23,000.0	13,200.0	20,632.0	10,815.1	168.9	164.9	6.64	9,659.9	-1,063.3	2,402.0	2,241.7	160.32	14.983				
23,002.1	13,200.0	20,632.0	10,815.1	168.9	164.9	6.64	9,659.9	-1,063.3	2,402.0	2,241.7	160.34	14.981				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		Nina Cortell - Nina Cortell Fed Com #125H - Wellbore #1 - Actual										Offset Site Error:	0.0 usft
Survey Program:		176-MWD, 11004-MWD										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
23,100.0	13,200.0	20,700.1	10,814.5	170.4	166.0	6.64	9,728.0	-1,063.7	2,402.8	2,241.2	161.64	14.865	
23,200.0	13,200.0	20,786.9	10,813.1	172.0	167.4	6.63	9,814.8	-1,064.5	2,404.4	2,241.3	163.09	14.742	
23,300.0	13,200.0	20,863.8	10,811.5	173.6	168.7	6.63	9,891.7	-1,065.1	2,406.5	2,242.1	164.47	14.632	
23,400.0	13,200.0	20,964.6	10,808.4	175.2	170.3	6.68	9,992.5	-1,063.5	2,409.8	2,243.7	166.08	14.510	
23,504.9	13,200.0	21,069.5	10,806.6	176.9	172.0	6.75	10,097.3	-1,060.9	2,412.1	2,244.3	167.80	14.375	

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	109.83	-28.9	80.2	85.3					
100.0	100.0	100.0	100.0	0.1	0.1	109.83	-28.9	80.2	85.3	85.0	0.26	332.719		
200.0	200.0	200.0	200.0	0.5	0.5	109.83	-28.9	80.2	85.3	84.3	0.97	87.622		
300.0	300.0	300.0	300.0	0.8	0.8	109.83	-28.9	80.2	85.3	83.6	1.69	50.455		
400.0	400.0	400.0	400.0	1.2	1.2	109.83	-28.9	80.2	85.3	82.9	2.41	35.427		
500.0	500.0	500.0	500.0	1.6	1.6	109.83	-28.9	80.2	85.3	82.2	3.12	27.297		
600.0	600.0	600.0	600.0	1.9	1.9	109.83	-28.9	80.2	85.3	81.4	3.84	22.202		
700.0	700.0	700.0	700.0	2.3	2.3	109.83	-28.9	80.2	85.3	80.7	4.56	18.710		
800.0	800.0	800.0	800.0	2.6	2.6	109.83	-28.9	80.2	85.3	80.0	5.27	16.167		
900.0	900.0	900.0	900.0	3.0	3.0	109.83	-28.9	80.2	85.3	79.3	5.99	14.232		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	109.83	-28.9	80.2	85.3	78.6	6.71	12.711		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	109.83	-28.9	80.2	85.3	77.9	7.43	11.484		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	109.83	-28.9	80.2	85.3	77.1	8.14	10.473 CC, ES		
1,300.0	1,300.0	1,298.6	1,298.6	4.4	4.4	109.95	-29.4	80.9	86.1	77.3	8.84	9.741		
1,400.0	1,400.0	1,397.1	1,397.0	4.8	4.7	110.30	-30.7	83.1	88.6	79.1	9.53	9.305		
1,500.0	1,500.0	1,495.4	1,495.3	5.1	5.1	110.84	-33.0	86.7	92.8	82.6	10.21	9.092		
1,600.0	1,600.0	1,593.6	1,593.3	5.5	5.4	111.52	-36.1	91.7	98.7	87.9	10.90	9.062		
1,700.0	1,700.0	1,691.6	1,691.0	5.9	5.8	112.28	-40.2	98.0	106.3	94.8	11.58	9.183		
1,800.0	1,800.0	1,789.3	1,788.3	6.2	6.1	113.07	-45.1	105.8	115.6	103.4	12.26	9.432		
1,900.0	1,900.0	1,886.7	1,885.0	6.6	6.5	113.86	-50.9	115.0	126.6	113.7	12.94	9.787		
2,000.0	2,000.0	1,983.6	1,981.2	6.9	6.8	114.61	-57.5	125.5	139.3	125.7	13.61	10.235		
2,100.0	2,100.0	2,082.2	2,078.8	7.3	7.2	115.30	-64.8	137.1	153.1	138.8	14.30	10.701		
2,200.0	2,200.0	2,181.3	2,176.9	7.7	7.6	115.88	-72.1	148.7	166.9	151.9	15.01	11.120		
2,300.0	2,300.0	2,280.3	2,275.0	8.0	7.9	116.36	-79.5	160.4	180.7	165.0	15.71	11.502		
2,400.0	2,400.0	2,379.3	2,373.0	8.4	8.3	116.78	-86.8	172.0	194.6	178.2	16.42	11.850		
2,500.0	2,500.0	2,478.4	2,471.1	8.7	8.7	117.15	-94.2	183.7	208.4	191.3	17.13	12.169		
2,600.0	2,600.0	2,577.4	2,569.2	9.1	9.1	117.47	-101.5	195.3	222.3	204.5	17.84	12.463		
2,700.0	2,700.0	2,676.4	2,667.2	9.4	9.5	117.75	-108.9	207.0	236.2	217.6	18.55	12.733		
2,800.0	2,800.0	2,775.4	2,765.3	9.8	9.9	118.00	-116.3	218.7	250.1	230.8	19.26	12.983		
2,900.0	2,900.0	2,874.5	2,863.4	10.2	10.3	118.22	-123.6	230.3	263.9	244.0	19.97	13.215		
3,000.0	3,000.0	2,973.5	2,961.4	10.5	10.7	118.42	-131.0	242.0	277.8	257.1	20.69	13.430		
3,100.0	3,100.0	3,072.5	3,059.5	10.9	11.1	118.60	-138.3	253.6	291.7	270.3	21.40	13.631		
3,200.0	3,200.0	3,171.5	3,157.5	11.2	11.5	118.77	-145.7	265.3	305.6	283.5	22.12	13.819		
3,300.0	3,300.0	3,270.6	3,255.6	11.6	11.9	118.92	-153.0	276.9	319.5	296.7	22.83	13.994		
3,400.0	3,400.0	3,369.6	3,353.7	12.0	12.3	119.06	-160.4	288.6	333.4	309.9	23.55	14.159		
3,500.0	3,500.0	3,468.6	3,451.7	12.3	12.7	119.19	-167.7	300.3	347.3	323.0	24.26	14.314		
3,600.0	3,600.0	3,567.6	3,549.8	12.7	13.1	119.30	-175.1	311.9	361.2	336.2	24.98	14.460		
3,700.0	3,700.0	3,666.7	3,647.9	13.0	13.5	119.41	-182.4	323.6	375.1	349.4	25.70	14.597		
3,800.0	3,800.0	3,765.7	3,745.9	13.4	13.9	119.51	-189.8	335.2	389.0	362.6	26.41	14.727		
3,900.0	3,900.0	3,864.7	3,844.0	13.8	14.3	119.61	-197.1	346.9	402.9	375.8	27.13	14.850		
4,000.0	4,000.0	3,974.1	3,952.5	14.1	14.8	119.70	-204.6	358.8	415.7	387.8	27.94	14.878		
4,100.0	4,100.0	4,085.9	4,063.7	14.5	15.2	119.76	-210.6	368.2	425.7	397.0	28.75	14.807		
4,200.0	4,200.0	4,198.3	4,175.8	14.8	15.6	119.81	-214.8	374.9	432.8	403.3	29.54	14.652		
4,300.0	4,300.0	4,311.0	4,288.4	15.2	16.0	119.84	-217.3	378.9	436.9	406.6	30.29	14.422		
4,400.0	4,400.0	4,422.6	4,400.0	15.5	16.4	119.84	-218.0	380.0	438.1	407.1	31.02	14.123		
4,500.0	4,500.0	4,522.6	4,500.0	15.9	16.7	119.84	-218.0	380.0	438.1	406.4	31.72	13.813		
4,600.0	4,600.0	4,622.6	4,600.0	16.3	17.1	119.84	-218.0	380.0	438.1	405.7	32.41	13.516		
4,700.0	4,700.0	4,722.6	4,700.0	16.6	17.4	119.84	-218.0	380.0	438.1	405.0	33.11	13.231		
4,800.0	4,800.0	4,822.6	4,800.0	17.0	17.7	119.84	-218.0	380.0	438.1	404.3	33.81	12.957		
4,900.0	4,900.0	4,922.6	4,900.0	17.3	18.0	119.84	-218.0	380.0	438.1	403.6	34.51	12.694		
5,000.0	5,000.0	5,022.6	5,000.0	17.7	18.4	119.84	-218.0	380.0	438.1	402.9	35.21	12.442		
5,100.0	5,100.0	5,122.6	5,100.0	18.1	18.7	119.84	-218.0	380.0	438.1	402.2	35.91	12.199		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,222.6	5,200.0	18.4	19.0	119.84	-218.0	380.0	438.1	401.5	36.61	11.965		
5,300.0	5,300.0	5,322.6	5,300.0	18.8	19.4	119.84	-218.0	380.0	438.1	400.8	37.32	11.740		
5,400.0	5,400.0	5,422.6	5,400.0	19.1	19.7	119.84	-218.0	380.0	438.1	400.1	38.02	11.523		
5,500.0	5,500.0	5,522.6	5,500.0	19.5	20.0	119.84	-218.0	380.0	438.1	399.4	38.72	11.314		
5,600.0	5,600.0	5,622.6	5,600.0	19.8	20.4	119.84	-218.0	380.0	438.1	398.7	39.43	11.112		
5,700.0	5,700.0	5,722.6	5,700.0	20.2	20.7	119.84	-218.0	380.0	438.1	398.0	40.13	10.917		
5,800.0	5,800.0	5,822.6	5,800.0	20.6	21.0	119.84	-218.0	380.0	438.1	397.3	40.83	10.729		
5,900.0	5,900.0	5,922.6	5,900.0	20.9	21.4	119.84	-218.0	380.0	438.1	396.6	41.54	10.546		
6,000.0	6,000.0	6,022.6	6,000.0	21.3	21.7	119.84	-218.0	380.0	438.1	395.9	42.25	10.370		
6,100.0	6,100.0	6,122.6	6,100.0	21.6	22.0	119.84	-218.0	380.0	438.1	395.1	42.95	10.200		
6,200.0	6,200.0	6,222.6	6,200.0	22.0	22.4	119.84	-218.0	380.0	438.1	394.4	43.66	10.035		
6,300.0	6,300.0	6,322.6	6,300.0	22.4	22.7	119.84	-218.0	380.0	438.1	393.7	44.36	9.875		
6,400.0	6,400.0	6,422.6	6,400.0	22.7	23.1	119.84	-218.0	380.0	438.1	393.0	45.07	9.720		
6,500.0	6,500.0	6,522.6	6,500.0	23.1	23.4	119.84	-218.0	380.0	438.1	392.3	45.78	9.570		
6,600.0	6,600.0	6,622.6	6,600.0	23.4	23.7	119.84	-218.0	380.0	438.1	391.6	46.49	9.424		
6,700.0	6,700.0	6,722.6	6,700.0	23.8	24.1	119.84	-218.0	380.0	438.1	390.9	47.19	9.283		
6,800.0	6,800.0	6,822.6	6,800.0	24.1	24.4	119.84	-218.0	380.0	438.1	390.2	47.90	9.146		
6,900.0	6,900.0	6,922.6	6,900.0	24.5	24.8	119.84	-218.0	380.0	438.1	389.5	48.61	9.013		
7,000.0	7,000.0	7,022.6	7,000.0	24.9	25.1	119.84	-218.0	380.0	438.1	388.8	49.32	8.883		
7,100.0	7,100.0	7,122.6	7,100.0	25.2	25.5	-134.74	-218.0	380.0	438.7	388.7	50.02	8.772		
7,200.0	7,200.0	7,222.6	7,200.0	25.5	25.8	-134.97	-218.0	380.0	440.6	389.9	50.70	8.689		
7,300.0	7,299.9	7,322.5	7,299.9	25.9	26.1	-135.35	-218.0	380.0	443.7	392.3	51.39	8.633		
7,400.0	7,399.7	7,422.3	7,399.7	26.2	26.5	-135.87	-218.0	380.0	448.0	395.9	52.08	8.603		
7,500.0	7,499.4	7,522.0	7,499.4	26.6	26.8	-136.52	-218.0	380.0	453.7	400.9	52.76	8.598 SF		
7,600.0	7,598.9	7,621.5	7,598.9	26.9	27.2	-137.29	-218.0	380.0	460.7	407.2	53.45	8.619		
7,700.0	7,698.3	7,720.9	7,698.3	27.2	27.5	-138.17	-218.0	380.0	469.1	415.0	54.14	8.664		
7,800.0	7,797.4	7,820.0	7,797.4	27.6	27.9	-139.14	-218.0	380.0	478.9	424.1	54.83	8.735		
7,900.0	7,896.3	7,918.9	7,896.3	27.9	28.2	-140.19	-218.0	380.0	490.3	434.7	55.52	8.830		
8,000.0	7,994.9	8,017.5	7,994.9	28.3	28.5	-141.31	-218.0	380.0	503.1	446.9	56.21	8.951		
8,100.0	8,093.3	8,115.9	8,093.3	28.6	28.9	-142.47	-218.0	380.0	517.5	460.6	56.90	9.096		
8,182.6	8,174.2	8,203.2	8,174.2	28.9	29.2	-143.46	-218.0	380.0	530.7	473.2	57.49	9.231		
8,200.0	8,191.3	8,213.9	8,191.3	29.0	29.2	-143.69	-218.0	380.0	533.6	476.0	57.59	9.266		
8,300.0	8,289.1	8,311.7	8,289.1	29.4	29.6	-144.94	-218.0	380.0	550.3	492.1	58.28	9.444		
8,400.0	8,387.0	8,409.6	8,387.0	29.7	29.9	-146.12	-218.0	380.0	567.3	508.4	58.97	9.622		
8,500.0	8,484.9	8,507.5	8,484.9	30.1	30.2	-147.23	-218.0	380.0	584.6	524.9	59.66	9.799		
8,600.0	8,582.8	8,605.4	8,582.8	30.5	30.6	-148.28	-218.0	380.0	602.0	541.7	60.35	9.975		
8,700.0	8,680.6	8,703.3	8,680.6	30.9	30.9	-149.28	-218.0	380.0	619.6	558.6	61.04	10.151		
8,800.0	8,778.5	8,801.1	8,778.5	31.2	31.3	-150.21	-218.0	380.0	637.4	575.7	61.74	10.325		
8,900.0	8,876.4	8,901.0	8,876.4	31.6	31.6	-151.10	-218.0	380.0	655.4	593.0	62.44	10.496		
9,000.0	8,974.3	9,003.1	8,974.3	32.0	32.0	-151.94	-218.0	380.0	673.5	610.4	63.15	10.665		
9,100.0	9,072.1	9,105.2	9,072.1	32.4	32.3	-152.73	-218.0	380.0	691.7	627.9	63.86	10.831		
9,200.0	9,170.0	9,207.4	9,170.0	32.8	32.7	-153.49	-218.0	380.0	710.1	645.5	64.58	10.996		
9,300.0	9,267.9	9,309.5	9,267.9	33.2	33.0	-154.20	-218.0	380.0	728.6	663.3	65.29	11.159		
9,400.0	9,365.8	9,388.4	9,365.8	33.6	33.3	-154.88	-218.0	380.0	747.1	681.2	65.92	11.334		
9,500.0	9,463.7	9,486.3	9,463.7	34.0	33.7	-155.53	-218.0	380.0	765.8	699.2	66.62	11.496		
9,600.0	9,561.5	9,584.2	9,561.5	34.4	34.0	-156.15	-218.0	380.0	784.6	717.3	67.32	11.655		
9,700.0	9,659.4	9,682.0	9,659.4	34.8	34.3	-156.74	-218.0	380.0	803.4	735.4	68.02	11.812		
9,800.0	9,757.3	9,779.9	9,757.3	35.2	34.7	-157.30	-218.0	380.0	822.4	753.6	68.72	11.967		
9,900.0	9,855.2	9,877.8	9,855.2	35.6	35.0	-157.84	-218.0	380.0	841.4	771.9	69.42	12.120		
10,000.0	9,953.0	9,975.7	9,953.0	36.0	35.4	-158.35	-218.0	380.0	860.4	790.3	70.12	12.271		
10,100.0	10,050.9	10,073.5	10,050.9	36.4	35.7	-158.84	-218.0	380.0	879.6	808.7	70.82	12.420		
10,200.0	10,148.8	10,171.4	10,148.8	36.9	36.1	-159.31	-218.0	380.0	898.8	827.2	71.52	12.566		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,269.3	10,246.7	37.3	36.4	-159.76	-218.0	380.0	918.0	845.8	72.23	12.710		
10,400.0	10,344.6	10,373.2	10,350.5	37.7	36.8	-160.35	-215.9	380.0	937.2	864.2	72.95	12.847		
10,500.0	10,442.4	10,479.5	10,455.0	38.1	37.1	-161.93	-197.1	379.8	955.5	881.9	73.65	12.975		
10,600.0	10,540.3	10,574.1	10,543.6	38.5	37.4	-164.23	-164.4	379.6	974.2	899.9	74.27	13.116		
10,700.0	10,638.2	10,654.6	10,613.9	39.0	37.6	-166.76	-125.3	379.3	995.0	920.2	74.80	13.301		
10,800.0	10,736.1	10,721.4	10,667.7	39.4	37.7	-169.22	-85.7	379.0	1,019.4	944.2	75.16	13.563		
10,900.0	10,833.9	10,776.4	10,708.2	39.8	37.8	-171.44	-48.6	378.7	1,048.6	973.3	75.27	13.931		
11,000.0	10,931.8	10,821.6	10,738.8	40.2	37.9	-173.38	-15.2	378.4	1,083.3	1,008.2	75.09	14.426		
11,100.0	11,029.7	10,859.1	10,762.1	40.7	38.0	-175.05	14.1	378.2	1,123.6	1,049.0	74.63	15.056		
11,200.0	11,127.6	10,890.4	10,780.0	41.1	38.0	-176.48	39.7	378.0	1,169.5	1,095.6	73.90	15.826		
11,300.0	11,225.5	10,916.7	10,793.9	41.5	38.0	-177.71	62.1	377.8	1,220.7	1,147.8	72.96	16.731		
11,400.0	11,323.3	10,939.1	10,805.0	42.0	38.0	-178.77	81.5	377.7	1,276.9	1,205.0	71.87	17.766		
11,500.0	11,421.2	10,950.0	10,810.1	42.4	38.0	-179.28	91.2	377.6	1,337.5	1,267.0	70.57	18.953		
11,523.5	11,444.2	10,962.5	10,815.7	42.5	38.1	-179.88	102.3	377.5	1,352.3	1,281.9	70.40	19.210		
11,600.0	11,519.2	10,975.1	10,821.2	42.8	38.1	-179.53	113.7	377.5	1,401.5	1,332.1	69.44	20.185		
11,700.0	11,617.7	11,000.0	10,831.2	43.3	38.1	-178.39	136.5	377.3	1,467.5	1,399.2	68.27	21.494		
11,800.0	11,716.7	11,000.0	10,831.2	43.7	38.1	-178.43	136.5	377.3	1,534.7	1,468.0	66.76	22.988		
11,900.0	11,815.9	11,015.6	10,836.9	44.1	38.2	-177.78	151.0	377.2	1,603.3	1,537.9	65.48	24.488		
12,000.0	11,915.5	11,026.7	10,840.8	44.4	38.2	-177.36	161.4	377.1	1,673.1	1,608.9	64.14	26.083		
12,100.0	12,015.2	11,050.0	10,848.2	44.8	38.3	-176.45	183.5	376.9	1,744.0	1,681.0	62.99	27.687		
12,200.0	12,115.1	11,050.0	10,848.2	45.2	38.3	-176.54	183.5	376.9	1,815.4	1,753.8	61.57	29.483		
12,300.0	12,215.1	11,050.0	10,848.2	45.5	38.3	-176.64	183.5	376.9	1,887.6	1,827.4	60.20	31.356		
12,311.9	12,227.0	11,050.0	10,848.2	45.5	38.3	-176.64	183.5	376.9	1,896.3	1,836.2	60.04	31.584		
12,400.0	12,315.1	11,050.0	10,848.2	45.8	38.3	-176.64	183.5	376.9	1,961.3	1,902.4	58.89	33.301		
12,500.0	12,415.1	11,070.0	10,853.9	46.2	38.3	-176.64	202.7	376.8	2,036.8	1,978.8	57.92	35.164		
12,600.0	12,515.1	11,076.7	10,855.6	46.5	38.3	-176.64	209.1	376.7	2,114.4	2,057.5	56.88	37.174		
12,700.0	12,615.1	11,100.0	10,861.1	46.9	38.4	-176.64	231.8	376.5	2,194.0	2,137.9	56.11	39.105		
12,711.9	12,627.0	11,100.0	10,861.1	46.9	38.4	-176.64	231.8	376.5	2,203.5	2,147.5	55.99	39.356		
12,750.0	12,665.1	11,100.0	10,861.1	47.0	38.4	-176.64	231.8	376.5	2,234.1	2,178.5	55.62	40.167		
12,800.0	12,714.8	11,100.0	10,861.1	47.2	38.4	-176.64	231.8	376.5	2,274.5	2,219.3	55.16	41.232		
12,850.0	12,763.8	11,100.0	10,861.1	47.4	38.4	-176.64	231.8	376.5	2,314.8	2,260.1	54.73	42.292		
12,900.0	12,811.8	11,100.0	10,861.1	47.5	38.4	-176.64	231.8	376.5	2,354.7	2,300.3	54.33	43.336		
12,950.0	12,858.3	11,100.0	10,861.1	47.7	38.4	-176.64	231.8	376.5	2,393.9	2,339.9	53.97	44.356		
13,000.0	12,903.1	11,100.0	10,861.1	47.8	38.4	-176.64	231.8	376.5	2,432.2	2,378.5	53.64	45.342		
13,050.0	12,945.8	11,118.7	10,864.8	48.0	38.5	-176.64	250.1	376.4	2,469.0	2,415.4	53.52	46.134		
13,100.0	12,986.1	11,125.9	10,866.1	48.1	38.5	-176.64	257.2	376.3	2,504.4	2,451.0	53.32	46.966		
13,150.0	13,023.7	11,150.0	10,869.7	48.3	38.5	-176.64	281.0	376.2	2,538.3	2,485.0	53.30	47.621		
13,200.0	13,058.2	11,150.0	10,869.7	48.4	38.5	-176.64	281.0	376.2	2,569.9	2,516.8	53.13	48.374		
13,250.0	13,089.4	11,150.0	10,869.7	48.5	38.5	-176.64	281.0	376.2	2,599.5	2,546.5	53.00	49.047		
13,300.0	13,117.2	11,150.0	10,869.7	48.7	38.5	-176.64	281.0	376.2	2,626.9	2,574.0	52.93	49.633		
13,350.0	13,141.1	11,150.0	10,869.7	48.8	38.5	-176.64	281.0	376.2	2,652.1	2,599.2	52.91	50.124		
13,400.0	13,161.2	11,175.7	10,872.4	48.9	38.6	-176.64	306.6	376.0	2,674.2	2,621.1	53.10	50.365		
13,450.0	13,177.2	11,200.0	10,874.0	49.1	38.7	-176.64	330.8	375.8	2,694.2	2,640.8	53.31	50.540		
13,500.0	13,189.1	11,200.0	10,874.0	49.2	38.7	-176.64	330.8	375.8	2,710.9	2,657.5	53.45	50.721		
13,550.0	13,196.6	11,200.0	10,874.0	49.4	38.7	-176.64	330.8	375.8	2,725.0	2,671.3	53.65	50.791		
13,600.0	13,199.8	11,212.2	10,874.3	49.6	38.7	-176.64	343.0	375.7	2,736.2	2,682.2	53.96	50.708		
13,611.9	13,200.0	11,214.3	10,874.4	49.6	38.7	-176.64	345.2	375.7	2,738.4	2,684.4	54.04	50.676		
13,700.0	13,200.0	11,251.8	10,874.4	50.0	38.9	-176.64	382.6	375.4	2,754.6	2,699.9	54.71	50.353		
13,800.0	13,200.0	11,346.6	10,874.2	50.4	39.2	-176.64	477.4	374.7	2,772.2	2,716.5	55.64	49.821		
13,900.0	13,200.0	11,442.3	10,874.0	50.9	39.6	-176.64	573.2	373.9	2,788.1	2,731.5	56.61	49.253		
14,000.0	13,200.0	11,539.0	10,873.7	51.4	40.0	-176.64	669.9	373.2	2,802.4	2,744.8	57.61	48.648		
14,100.0	13,200.0	11,636.6	10,873.5	52.0	40.6	-176.64	767.4	372.4	2,815.0	2,756.3	58.64	48.007		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	13,200.0	11,734.8	10,873.3	52.6	41.1	34.17	865.6	371.7	2,825.7	2,766.0	59.69	47.336		
14,300.0	13,200.0	11,833.6	10,873.1	53.2	41.8	34.57	964.4	370.9	2,834.5	2,773.7	60.78	46.637		
14,400.0	13,200.0	11,932.9	10,872.8	53.8	42.5	34.87	1,063.7	370.2	2,841.4	2,779.6	61.88	45.916		
14,500.0	13,200.0	12,032.6	10,872.6	54.5	43.2	35.09	1,163.4	369.4	2,846.4	2,783.4	63.01	45.177		
14,600.0	13,200.0	12,132.5	10,872.4	55.1	44.0	35.21	1,263.3	368.6	2,849.3	2,785.2	64.14	44.425		
14,687.2	13,200.0	12,219.7	10,872.2	55.7	44.7	35.25	1,350.5	368.0	2,850.3	2,785.1	65.13	43.763		
14,700.0	13,200.0	12,232.5	10,872.2	55.8	44.8	35.25	1,363.3	367.9	2,850.3	2,785.0	65.28	43.666		
14,800.0	13,200.0	12,332.5	10,871.9	56.5	45.7	35.24	1,463.2	367.1	2,850.5	2,784.0	66.45	42.896		
14,900.0	13,200.0	12,432.5	10,871.7	57.3	46.7	35.24	1,563.2	366.3	2,850.7	2,783.0	67.68	42.117		
15,000.0	13,200.0	12,532.5	10,871.5	58.1	47.6	35.24	1,663.2	365.6	2,850.8	2,781.9	68.97	41.334		
15,100.0	13,200.0	12,632.5	10,871.3	58.9	48.6	35.24	1,763.2	364.8	2,851.0	2,780.7	70.31	40.550		
15,200.0	13,200.0	12,732.5	10,871.0	59.7	49.7	35.23	1,863.2	364.0	2,851.2	2,779.5	71.70	39.768		
15,300.0	13,200.0	12,832.5	10,870.8	60.6	50.7	35.23	1,963.2	363.2	2,851.4	2,778.3	73.13	38.991		
15,400.0	13,200.0	12,932.5	10,870.6	61.6	51.8	35.23	2,063.2	362.5	2,851.6	2,777.0	74.60	38.223		
15,500.0	13,200.0	13,032.5	10,870.4	62.5	53.0	35.22	2,163.2	361.7	2,851.8	2,775.7	76.12	37.464		
15,600.0	13,200.0	13,132.5	10,870.1	63.5	54.1	35.22	2,263.2	360.9	2,852.0	2,774.3	77.68	36.716		
15,700.0	13,200.0	13,232.5	10,869.9	64.5	55.3	35.22	2,363.2	360.2	2,852.2	2,772.9	79.27	35.982		
15,800.0	13,200.0	13,332.5	10,869.7	65.5	56.5	35.22	2,463.2	359.4	2,852.4	2,771.5	80.89	35.262		
15,900.0	13,200.0	13,432.5	10,869.4	66.6	57.8	35.21	2,563.2	358.6	2,852.5	2,770.0	82.55	34.556		
16,000.0	13,200.0	13,532.5	10,869.2	67.7	59.0	35.21	2,663.2	357.9	2,852.7	2,768.5	84.23	33.867		
16,100.0	13,200.0	13,632.5	10,869.0	68.8	60.3	35.21	2,763.2	357.1	2,852.9	2,767.0	85.95	33.193		
16,200.0	13,200.0	13,732.5	10,868.8	69.9	61.6	35.21	2,863.2	356.3	2,853.1	2,765.4	87.69	32.536		
16,300.0	13,200.0	13,832.5	10,868.5	71.1	62.9	35.20	2,963.2	355.6	2,853.3	2,763.8	89.46	31.896		
16,400.0	13,200.0	13,932.5	10,868.3	72.3	64.2	35.20	3,063.2	354.8	2,853.5	2,762.2	91.25	31.273		
16,500.0	13,200.0	14,032.5	10,868.1	73.5	65.5	35.20	3,163.2	354.0	2,853.7	2,760.6	93.06	30.666		
16,600.0	13,200.0	14,132.5	10,867.9	74.7	66.9	35.20	3,263.2	353.3	2,853.9	2,759.0	94.89	30.075		
16,700.0	13,200.0	14,232.5	10,867.6	75.9	68.3	35.19	3,363.2	352.5	2,854.0	2,757.3	96.74	29.501		
16,800.0	13,200.0	14,332.5	10,867.4	77.1	69.6	35.19	3,463.2	351.7	2,854.2	2,755.6	98.61	28.943		
16,900.0	13,200.0	14,432.5	10,867.2	78.4	71.0	35.19	3,563.2	351.0	2,854.4	2,753.9	100.50	28.401		
17,000.0	13,200.0	14,532.5	10,867.0	79.7	72.4	35.19	3,663.2	350.2	2,854.6	2,752.2	102.41	27.875		
17,100.0	13,200.0	14,632.5	10,866.7	81.0	73.8	35.18	3,763.2	349.4	2,854.8	2,750.5	104.33	27.363		
17,200.0	13,200.0	14,732.5	10,866.5	82.3	75.3	35.18	3,863.2	348.7	2,855.0	2,748.7	106.27	26.867		
17,300.0	13,200.0	14,832.5	10,866.3	83.6	76.7	35.18	3,963.2	347.9	2,855.2	2,747.0	108.22	26.384		
17,400.0	13,200.0	14,932.5	10,866.0	84.9	78.1	35.18	4,063.2	347.1	2,855.4	2,745.2	110.18	25.916		
17,500.0	13,200.0	15,032.5	10,865.8	86.3	79.6	35.17	4,163.2	346.4	2,855.6	2,743.4	112.15	25.461		
17,600.0	13,200.0	15,132.5	10,865.6	87.6	81.0	35.17	4,263.1	345.6	2,855.7	2,741.6	114.14	25.019		
17,700.0	13,200.0	15,232.5	10,865.4	89.0	82.5	35.17	4,363.1	344.8	2,855.9	2,739.8	116.14	24.590		
17,800.0	13,200.0	15,332.5	10,865.1	90.3	84.0	35.17	4,463.1	344.0	2,856.1	2,738.0	118.15	24.174		
17,900.0	13,200.0	15,432.5	10,864.9	91.7	85.4	35.16	4,563.1	343.3	2,856.3	2,736.1	120.17	23.769		
18,000.0	13,200.0	15,532.5	10,864.7	93.1	86.9	35.16	4,663.1	342.5	2,856.5	2,734.3	122.20	23.376		
18,100.0	13,200.0	15,632.5	10,864.5	94.5	88.4	35.16	4,763.1	341.7	2,856.7	2,732.4	124.24	22.994		
18,200.0	13,200.0	15,732.5	10,864.2	95.9	89.9	35.16	4,863.1	341.0	2,856.9	2,730.6	126.29	22.622		
18,300.0	13,200.0	15,832.5	10,864.0	97.3	91.4	35.15	4,963.1	340.2	2,857.1	2,728.7	128.34	22.261		
18,400.0	13,200.0	15,932.5	10,863.8	98.7	92.9	35.15	5,063.1	339.4	2,857.3	2,726.8	130.41	21.910		
18,500.0	13,200.0	16,032.5	10,863.5	100.2	94.4	35.15	5,163.1	338.7	2,857.4	2,725.0	132.48	21.569		
18,600.0	13,200.0	16,132.5	10,863.3	101.6	96.0	35.15	5,263.1	337.9	2,857.6	2,723.1	134.56	21.238		
18,700.0	13,200.0	16,232.5	10,863.1	103.0	97.5	35.14	5,363.1	337.1	2,857.8	2,721.2	136.64	20.915		
18,800.0	13,200.0	16,332.5	10,862.9	104.5	99.0	35.14	5,463.1	336.4	2,858.0	2,719.3	138.73	20.601		
18,900.0	13,200.0	16,432.5	10,862.6	105.9	100.5	35.14	5,563.1	335.6	2,858.2	2,717.4	140.83	20.295		
19,000.0	13,200.0	16,532.5	10,862.4	107.4	102.1	35.14	5,663.1	334.8	2,858.4	2,715.4	142.93	19.998		
19,100.0	13,200.0	16,632.5	10,862.2	108.9	103.6	35.13	5,763.1	334.1	2,858.6	2,713.5	145.04	19.708		
19,200.0	13,200.0	16,732.5	10,862.0	110.3	105.2	35.13	5,863.1	333.3	2,858.8	2,711.6	147.16	19.426		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	13,200.0	16,832.5	10,861.7	111.8	106.7	35.13	5,963.1	332.5	2,858.9	2,709.7	149.28	19.152		
19,400.0	13,200.0	16,932.5	10,861.5	113.3	108.2	35.13	6,063.1	331.8	2,859.1	2,707.7	151.41	18.884		
19,500.0	13,200.0	17,032.5	10,861.3	114.8	109.8	35.12	6,163.1	331.0	2,859.3	2,705.8	153.54	18.623		
19,600.0	13,200.0	17,132.5	10,861.1	116.3	111.4	35.12	6,263.1	330.2	2,859.5	2,703.8	155.67	18.369		
19,700.0	13,200.0	17,232.5	10,860.8	117.8	112.9	35.12	6,363.1	329.5	2,859.7	2,701.9	157.81	18.121		
19,800.0	13,200.0	17,332.5	10,860.6	119.3	114.5	35.11	6,463.1	328.7	2,859.9	2,699.9	159.95	17.880		
19,900.0	13,200.0	17,432.5	10,860.4	120.8	116.0	35.11	6,563.1	327.9	2,860.1	2,698.0	162.10	17.644		
20,000.0	13,200.0	17,532.5	10,860.1	122.3	117.6	35.11	6,663.1	327.2	2,860.3	2,696.0	164.25	17.414		
20,100.0	13,200.0	17,632.5	10,859.9	123.8	119.2	35.11	6,763.1	326.4	2,860.5	2,694.1	166.41	17.190		
20,200.0	13,200.0	17,732.5	10,859.7	125.3	120.7	35.10	6,863.1	325.6	2,860.6	2,692.1	168.56	16.971		
20,300.0	13,200.0	17,832.5	10,859.5	126.8	122.3	35.10	6,963.1	324.9	2,860.8	2,690.1	170.73	16.757		
20,400.0	13,200.0	17,932.5	10,859.2	128.4	123.9	35.10	7,063.1	324.1	2,861.0	2,688.1	172.89	16.548		
20,500.0	13,200.0	18,032.5	10,859.0	129.9	125.5	35.10	7,163.0	323.3	2,861.2	2,686.2	175.06	16.344		
20,600.0	13,200.0	18,132.5	10,858.8	131.4	127.0	35.09	7,263.0	322.5	2,861.4	2,684.2	177.23	16.145		
20,700.0	13,200.0	18,232.4	10,858.6	132.9	128.6	35.09	7,363.0	321.8	2,861.6	2,682.2	179.40	15.951		
20,800.0	13,200.0	18,332.4	10,858.3	134.5	130.2	35.09	7,463.0	321.0	2,861.8	2,680.2	181.58	15.760		
20,900.0	13,200.0	18,432.4	10,858.1	136.0	131.8	35.09	7,563.0	320.2	2,862.0	2,678.2	183.76	15.574		
21,000.0	13,200.0	18,532.4	10,857.9	137.6	133.4	35.08	7,663.0	319.5	2,862.2	2,676.2	185.94	15.393		
21,100.0	13,200.0	18,632.4	10,857.6	139.1	135.0	35.08	7,763.0	318.7	2,862.3	2,674.2	188.13	15.215		
21,200.0	13,200.0	18,732.4	10,857.4	140.7	136.6	35.08	7,863.0	317.9	2,862.5	2,672.2	190.31	15.041		
21,300.0	13,200.0	18,832.4	10,857.2	142.2	138.1	35.08	7,963.0	317.2	2,862.7	2,670.2	192.50	14.871		
21,400.0	13,200.0	18,932.4	10,857.0	143.8	139.7	35.07	8,063.0	316.4	2,862.9	2,668.2	194.70	14.705		
21,500.0	13,200.0	19,032.4	10,856.7	145.3	141.3	35.07	8,163.0	315.6	2,863.1	2,666.2	196.89	14.542		
21,600.0	13,200.0	19,132.4	10,856.5	146.9	142.9	35.07	8,263.0	314.9	2,863.3	2,664.2	199.08	14.382		
21,700.0	13,200.0	19,232.4	10,856.3	148.4	144.5	35.07	8,363.0	314.1	2,863.5	2,662.2	201.28	14.226		
21,800.0	13,200.0	19,332.4	10,856.1	150.0	146.1	35.06	8,463.0	313.3	2,863.7	2,660.2	203.48	14.073		
21,900.0	13,200.0	19,432.4	10,855.8	151.5	147.7	35.06	8,563.0	312.6	2,863.9	2,658.2	205.68	13.924		
22,000.0	13,200.0	19,532.4	10,855.6	153.1	149.3	35.06	8,663.0	311.8	2,864.0	2,656.2	207.89	13.777		
22,100.0	13,200.0	19,632.4	10,855.4	154.7	150.9	35.06	8,763.0	311.0	2,864.2	2,654.1	210.09	13.633		
22,200.0	13,200.0	19,732.4	10,855.2	156.2	152.5	35.05	8,863.0	310.3	2,864.4	2,652.1	212.30	13.492		
22,300.0	13,200.0	19,832.4	10,854.9	157.8	154.1	35.05	8,963.0	309.5	2,864.6	2,650.1	214.51	13.354		
22,400.0	13,200.0	19,932.4	10,854.7	159.4	155.7	35.05	9,063.0	308.7	2,864.8	2,648.1	216.72	13.219		
22,500.0	13,200.0	20,032.4	10,854.5	161.0	157.4	35.05	9,163.0	308.0	2,865.0	2,646.1	218.93	13.086		
22,600.0	13,200.0	20,132.4	10,854.2	162.5	159.0	35.04	9,263.0	307.2	2,865.2	2,644.0	221.14	12.956		
22,700.0	13,200.0	20,232.4	10,854.0	164.1	160.6	35.04	9,363.0	306.4	2,865.4	2,642.0	223.36	12.829		
22,800.0	13,200.0	20,332.4	10,853.8	165.7	162.2	35.04	9,463.0	305.7	2,865.6	2,640.0	225.57	12.703		
22,900.0	13,200.0	20,432.4	10,853.6	167.3	163.8	35.04	9,563.0	304.9	2,865.7	2,637.9	227.79	12.581		
23,000.0	13,200.0	20,532.4	10,853.3	168.9	165.4	35.03	9,663.0	304.1	2,865.9	2,635.9	230.01	12.460		
23,100.0	13,200.0	20,632.4	10,853.1	170.4	167.0	35.03	9,763.0	303.3	2,866.1	2,633.9	232.23	12.342		
23,200.0	13,200.0	20,732.4	10,852.9	172.0	168.6	35.03	9,863.0	302.6	2,866.3	2,631.9	234.45	12.226		
23,300.0	13,200.0	20,832.4	10,852.7	173.6	170.2	35.03	9,963.0	301.8	2,866.5	2,629.8	236.67	12.112		
23,400.0	13,200.0	20,932.4	10,852.4	175.2	171.9	35.02	10,062.9	301.0	2,866.7	2,627.8	238.90	12.000		
23,504.9	13,200.0	21,019.0	10,852.1	176.9	173.3	35.02	10,149.5	300.4	2,867.1	2,626.1	240.97	11.898		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	-1.0	0.0	0.0	90.05	-2.1	2,453.4	2,453.4				
100.0	100.0	101.0	99.0	0.1	0.1	90.05	-2.1	2,453.4	2,453.4	2,453.1	0.26	9,439.992	
200.0	200.0	201.0	199.0	0.5	0.5	90.05	-2.1	2,453.4	2,453.4	2,452.4	0.98	2,511.560	
300.0	300.0	301.0	299.0	0.8	0.8	90.05	-2.1	2,453.4	2,453.4	2,451.7	1.69	1,448.466	
400.0	400.0	401.0	399.0	1.2	1.2	90.05	-2.1	2,453.4	2,453.4	2,451.0	2.41	1,017.696	
500.0	500.0	501.0	499.0	1.6	1.6	90.05	-2.1	2,453.4	2,453.4	2,450.3	3.13	784.413	
600.0	600.0	601.0	599.0	1.9	1.9	90.05	-2.1	2,453.4	2,453.4	2,449.5	3.84	638.135	
700.0	700.0	701.0	699.0	2.3	2.3	90.05	-2.1	2,453.4	2,453.4	2,448.8	4.56	537.839	
800.0	800.0	801.0	799.0	2.6	2.6	90.05	-2.1	2,453.4	2,453.4	2,448.1	5.28	464.788	
900.0	900.0	901.0	899.0	3.0	3.0	90.05	-2.1	2,453.4	2,453.4	2,447.4	6.00	409.208	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	90.05	-2.1	2,453.4	2,453.4	2,446.7	6.71	365.501	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	90.05	-2.1	2,453.4	2,453.4	2,446.0	7.43	330.229	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	90.05	-2.1	2,453.4	2,453.4	2,445.2	8.15	301.166	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	90.05	-2.1	2,453.4	2,453.4	2,444.5	8.86	276.805	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	90.05	-2.1	2,453.4	2,453.4	2,443.8	9.58	256.090	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	90.05	-2.1	2,453.4	2,453.4	2,443.1	10.29	238.425	
1,600.0	1,600.0	1,668.7	1,668.7	5.5	5.7	90.06	-2.7	2,451.0	2,452.0	2,440.7	11.23	218.375	
1,700.0	1,700.0	1,838.8	1,838.6	5.9	6.3	90.11	-4.7	2,443.7	2,447.7	2,435.5	12.15	201.376	
1,800.0	1,800.0	2,008.3	2,007.7	6.2	6.9	90.19	-7.9	2,431.6	2,440.6	2,427.5	13.08	186.655	
1,900.0	1,900.0	2,177.0	2,175.4	6.6	7.5	90.30	-12.5	2,414.8	2,430.6	2,416.6	13.99	173.767	
2,000.0	2,000.0	2,326.4	2,323.5	6.9	8.1	90.42	-17.5	2,396.0	2,417.9	2,403.1	14.84	162.960	
2,100.0	2,100.0	2,425.4	2,421.6	7.3	8.4	90.51	-21.1	2,382.7	2,404.5	2,389.0	15.54	154.713	
2,200.0	2,200.0	2,524.4	2,519.6	7.7	8.8	90.60	-24.7	2,369.4	2,391.1	2,374.9	16.25	147.162	
2,300.0	2,300.0	2,623.4	2,617.7	8.0	9.2	90.69	-28.3	2,356.1	2,377.7	2,360.7	16.96	140.225	
2,400.0	2,400.0	2,722.5	2,715.8	8.4	9.6	90.78	-31.9	2,342.8	2,364.3	2,346.6	17.67	133.832	
2,500.0	2,500.0	2,821.5	2,813.8	8.7	9.9	90.87	-35.5	2,329.5	2,350.9	2,332.5	18.38	127.923	
2,600.0	2,600.0	2,920.5	2,911.9	9.1	10.3	90.97	-39.1	2,316.2	2,337.5	2,318.4	19.09	122.445	
2,700.0	2,700.0	3,019.5	3,009.9	9.4	10.7	91.06	-42.6	2,302.8	2,324.1	2,304.3	19.80	117.355	
2,800.0	2,800.0	3,118.6	3,108.0	9.8	11.1	91.16	-46.2	2,289.5	2,310.8	2,290.2	20.52	112.613	
2,900.0	2,900.0	3,217.6	3,206.1	10.2	11.5	91.25	-49.8	2,276.2	2,297.4	2,276.2	21.24	108.186	
3,000.0	3,000.0	3,316.6	3,304.1	10.5	11.9	91.35	-53.4	2,262.9	2,284.0	2,262.1	21.95	104.043	
3,100.0	3,100.0	3,415.6	3,402.2	10.9	12.3	91.45	-57.0	2,249.6	2,270.7	2,248.0	22.67	100.159	
3,200.0	3,200.0	3,514.7	3,500.3	11.2	12.7	91.55	-60.6	2,236.3	2,257.3	2,233.9	23.39	96.510	
3,300.0	3,300.0	3,613.7	3,598.3	11.6	13.1	91.65	-64.2	2,223.0	2,244.0	2,219.9	24.11	93.076	
3,400.0	3,400.0	3,712.7	3,696.4	12.0	13.5	91.76	-67.7	2,209.7	2,230.6	2,205.8	24.83	89.839	
3,500.0	3,500.0	3,811.8	3,794.4	12.3	13.9	91.86	-71.3	2,196.4	2,217.3	2,191.8	25.55	86.782	
3,600.0	3,600.0	3,910.8	3,892.5	12.7	14.3	91.97	-74.9	2,183.1	2,204.0	2,177.7	26.27	83.891	
3,700.0	3,700.0	4,009.8	3,990.6	13.0	14.7	92.07	-78.5	2,169.8	2,190.7	2,163.7	26.99	81.154	
3,800.0	3,800.0	4,108.8	4,088.6	13.4	15.1	92.18	-82.1	2,156.5	2,177.4	2,149.7	27.72	78.558	
3,900.0	3,900.0	4,207.9	4,186.7	13.8	15.5	92.29	-85.7	2,143.2	2,164.1	2,135.6	28.44	76.092	
4,000.0	4,000.0	4,306.9	4,284.8	14.1	15.9	92.40	-89.3	2,129.9	2,150.8	2,121.6	29.16	73.748	
4,100.0	4,100.0	4,405.9	4,382.8	14.5	16.4	92.51	-92.8	2,116.5	2,137.5	2,107.6	29.89	71.517	
4,200.0	4,200.0	4,504.9	4,480.9	14.8	16.8	92.62	-96.4	2,103.2	2,124.2	2,093.6	30.61	69.390	
4,300.0	4,300.0	4,604.0	4,578.9	15.2	17.2	92.74	-100.0	2,089.9	2,111.0	2,079.6	31.34	67.361	
4,400.0	4,400.0	4,703.0	4,677.0	15.5	17.6	92.86	-103.6	2,076.6	2,097.7	2,065.6	32.06	65.423	
4,500.0	4,500.0	4,802.0	4,775.1	15.9	18.0	92.97	-107.2	2,063.3	2,084.5	2,051.7	32.79	63.570	
4,600.0	4,600.0	4,901.0	4,873.1	16.3	18.4	93.09	-110.8	2,050.0	2,071.2	2,037.7	33.52	61.797	
4,700.0	4,700.0	5,000.1	4,971.2	16.6	18.8	93.21	-114.4	2,036.7	2,058.0	2,023.7	34.24	60.099	
4,800.0	4,800.0	5,100.9	5,069.3	17.0	19.2	93.34	-117.9	2,023.4	2,044.8	2,009.8	34.98	58.460	
4,900.0	4,900.0	5,201.9	5,167.3	17.3	19.7	93.46	-121.5	2,010.1	2,031.6	1,995.8	35.71	56.887	
5,000.0	5,000.0	5,302.8	5,265.4	17.7	20.1	93.59	-125.1	1,996.8	2,018.4	1,981.9	36.45	55.377	
5,100.0	5,100.0	5,403.8	5,363.5	18.1	20.5	93.71	-128.7	1,983.5	2,005.2	1,968.0	37.18	53.926	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,504.8	5,461.5	18.4	20.9	93.84	-132.3	1,970.2	1,992.0	1,954.1	37.92	52.532		
5,300.0	5,300.0	5,594.2	5,559.6	18.8	21.3	93.97	-135.9	1,956.9	1,978.8	1,940.2	38.61	51.247		
5,400.0	5,400.0	5,706.7	5,657.6	19.1	21.8	94.10	-139.5	1,943.6	1,965.6	1,926.2	39.39	49.898		
5,500.0	5,500.0	5,807.7	5,755.7	19.5	22.2	94.24	-143.0	1,930.2	1,952.5	1,912.4	40.13	48.654		
5,600.0	5,600.0	5,908.7	5,853.8	19.8	22.6	94.37	-146.6	1,916.9	1,939.3	1,898.5	40.87	47.454		
5,700.0	5,700.0	6,009.7	5,951.8	20.2	23.0	94.51	-150.2	1,903.6	1,926.2	1,884.6	41.61	46.296		
5,800.0	5,800.0	6,089.4	6,049.9	20.6	23.4	94.65	-153.8	1,890.3	1,913.1	1,870.8	42.26	45.265		
5,900.0	5,900.0	6,188.4	6,148.0	20.9	23.8	94.79	-157.4	1,877.0	1,900.0	1,857.0	43.00	44.190		
6,000.0	6,000.0	6,287.4	6,246.0	21.3	24.2	94.94	-161.0	1,863.7	1,886.9	1,843.2	43.73	43.151		
6,100.0	6,100.0	6,386.5	6,344.1	21.6	24.6	95.08	-164.6	1,850.4	1,873.8	1,829.3	44.46	42.146		
6,200.0	6,200.0	6,485.5	6,442.1	22.0	25.0	95.23	-168.1	1,837.1	1,860.7	1,815.5	45.19	41.173		
6,300.0	6,300.0	6,584.5	6,540.2	22.4	25.4	95.38	-171.7	1,823.8	1,847.7	1,801.7	45.93	40.232		
6,400.0	6,400.0	6,683.5	6,638.3	22.7	25.8	95.53	-175.3	1,810.5	1,834.6	1,788.0	46.66	39.320		
6,500.0	6,500.0	6,782.6	6,736.3	23.1	26.3	95.68	-178.9	1,797.2	1,821.6	1,774.2	47.39	38.436		
6,600.0	6,600.0	6,881.6	6,834.4	23.4	26.7	95.84	-182.5	1,783.9	1,808.6	1,760.4	48.13	37.579		
6,700.0	6,700.0	6,980.6	6,932.5	23.8	27.1	96.00	-186.1	1,770.6	1,795.5	1,746.7	48.86	36.748		
6,800.0	6,800.0	7,079.6	7,030.5	24.1	27.5	96.16	-189.6	1,757.2	1,782.6	1,733.0	49.60	35.942		
6,900.0	6,900.0	7,178.7	7,128.6	24.5	27.9	96.32	-193.2	1,743.9	1,769.6	1,719.2	50.33	35.159		
7,000.0	7,000.0	7,257.1	7,206.3	24.9	28.2	96.45	-196.0	1,733.7	1,757.0	1,706.0	51.03	34.431		
7,100.0	7,100.0	7,326.8	7,275.5	25.2	28.5	-158.01	-198.1	1,725.8	1,746.9	1,695.2	51.69	33.795		
7,200.0	7,200.0	7,400.0	7,348.4	25.5	28.8	-157.97	-200.0	1,718.8	1,740.0	1,687.7	52.33	33.250		
7,300.0	7,299.9	7,467.0	7,415.2	25.9	29.1	-157.95	-201.4	1,713.5	1,736.5	1,683.6	52.94	32.803		
7,358.0	7,357.8	7,507.8	7,455.9	26.1	29.2	-157.95	-202.1	1,710.9	1,736.0	1,682.7	53.29	32.578 CC, ES		
7,400.0	7,399.7	7,537.3	7,485.3	26.2	29.3	-157.95	-202.6	1,709.3	1,736.3	1,682.8	53.54	32.433		
7,500.0	7,499.4	7,600.0	7,547.9	26.6	29.6	-157.96	-203.3	1,706.5	1,739.5	1,685.4	54.08	32.162		
7,600.0	7,598.9	7,677.6	7,625.5	26.9	29.8	-158.01	-203.9	1,704.5	1,745.9	1,691.3	54.67	31.934		
7,700.0	7,698.3	7,749.4	7,697.3	27.2	30.0	-158.06	-204.0	1,703.9	1,755.7	1,700.5	55.22	31.796		
7,800.0	7,797.4	7,848.5	7,796.4	27.6	30.4	-158.18	-204.0	1,703.9	1,767.8	1,712.0	55.88	31.639		
7,900.0	7,896.3	7,947.4	7,895.3	27.9	30.7	-158.30	-204.0	1,703.9	1,781.6	1,725.0	56.53	31.514		
8,000.0	7,994.9	8,046.0	7,993.9	28.3	31.0	-158.44	-204.0	1,703.9	1,796.9	1,739.8	57.19	31.421		
8,100.0	8,093.3	8,144.4	8,092.3	28.6	31.3	-158.59	-204.0	1,703.9	1,813.9	1,756.1	57.85	31.358		
8,182.6	8,174.2	8,225.3	8,173.2	28.9	31.5	-158.72	-204.0	1,703.9	1,829.2	1,770.8	58.39	31.329		
8,200.0	8,191.3	8,242.4	8,190.3	29.0	31.6	-158.76	-204.0	1,703.9	1,832.5	1,774.0	58.50	31.325		
8,300.0	8,289.1	8,340.2	8,288.1	29.4	31.9	-158.99	-204.0	1,703.9	1,851.7	1,792.5	59.16	31.302		
8,400.0	8,387.0	8,438.1	8,386.0	29.7	32.2	-159.21	-204.0	1,703.9	1,870.9	1,811.1	59.81	31.278		
8,500.0	8,484.9	8,536.0	8,483.9	30.1	32.5	-159.43	-204.0	1,703.9	1,890.1	1,829.7	60.47	31.255		
8,600.0	8,582.8	8,633.9	8,581.8	30.5	32.8	-159.65	-204.0	1,703.9	1,909.4	1,848.2	61.14	31.231		
8,700.0	8,680.6	8,731.7	8,679.6	30.9	33.2	-159.86	-204.0	1,703.9	1,928.7	1,866.8	61.80	31.207		
8,800.0	8,778.5	8,829.6	8,777.5	31.2	33.5	-160.06	-204.0	1,703.9	1,948.0	1,885.5	62.47	31.183		
8,900.0	8,876.4	8,927.5	8,875.4	31.6	33.8	-160.27	-204.0	1,703.9	1,967.3	1,904.1	63.14	31.160		
9,000.0	8,974.3	9,025.4	8,973.3	32.0	34.1	-160.47	-204.0	1,703.9	1,986.6	1,922.8	63.81	31.136		
9,100.0	9,072.1	9,123.3	9,071.1	32.4	34.4	-160.66	-204.0	1,703.9	2,006.0	1,941.5	64.48	31.112		
9,200.0	9,170.0	9,221.1	9,169.0	32.8	34.7	-160.85	-204.0	1,703.9	2,025.4	1,960.2	65.15	31.088		
9,300.0	9,267.9	9,319.0	9,266.9	33.2	35.1	-161.04	-204.0	1,703.9	2,044.8	1,979.0	65.82	31.064		
9,400.0	9,365.8	9,416.9	9,364.8	33.6	35.4	-161.22	-204.0	1,703.9	2,064.2	1,997.7	66.50	31.041		
9,500.0	9,463.7	9,514.8	9,462.7	34.0	35.7	-161.41	-204.0	1,703.9	2,083.7	2,016.5	67.18	31.017		
9,600.0	9,561.5	9,612.6	9,560.5	34.4	36.0	-161.58	-204.0	1,703.9	2,103.2	2,035.3	67.86	30.994		
9,700.0	9,659.4	9,710.5	9,658.4	34.8	36.3	-161.76	-204.0	1,703.9	2,122.7	2,054.1	68.54	30.971		
9,800.0	9,757.3	9,808.4	9,756.3	35.2	36.6	-161.93	-204.0	1,703.9	2,142.2	2,073.0	69.22	30.947		
9,900.0	9,855.2	9,906.3	9,854.2	35.6	37.0	-162.10	-204.0	1,703.9	2,161.7	2,091.8	69.90	30.924		
10,000.0	9,953.0	10,004.2	9,952.0	36.0	37.3	-162.26	-204.0	1,703.9	2,181.3	2,110.7	70.59	30.902		
10,100.0	10,050.9	10,102.0	10,049.9	36.4	37.6	-162.42	-204.0	1,703.9	2,200.8	2,129.5	71.27	30.879		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,200.1	10,147.8	36.9	37.9	-162.58	-204.0	1,703.9	2,220.4	2,148.4	71.96	30.856		
10,300.0	10,246.7	10,302.2	10,245.7	37.3	38.3	-162.74	-204.0	1,703.9	2,240.0	2,167.3	72.66	30.828		
10,400.0	10,344.6	10,400.2	10,348.0	37.7	38.6	-162.94	-202.7	1,703.9	2,259.6	2,186.2	73.36	30.803		
10,500.0	10,442.4	10,506.5	10,452.9	38.1	38.9	-163.53	-185.8	1,703.8	2,278.9	2,204.8	74.05	30.776		
10,600.0	10,540.3	10,601.8	10,542.7	38.5	39.2	-164.46	-154.4	1,703.6	2,298.2	2,223.6	74.64	30.790		
10,700.0	10,638.2	10,683.3	10,614.5	39.0	39.4	-165.53	-116.1	1,703.3	2,318.4	2,243.2	75.14	30.854		
10,800.0	10,736.1	10,751.2	10,669.7	39.4	39.5	-166.59	-76.6	1,702.9	2,340.1	2,264.5	75.55	30.974		
10,900.0	10,833.9	10,807.1	10,711.5	39.8	39.6	-167.57	-39.3	1,702.7	2,363.9	2,288.0	75.86	31.160		
11,000.0	10,931.8	10,850.0	10,740.9	40.2	39.6	-168.38	-8.2	1,702.4	2,390.3	2,314.2	76.07	31.423		
11,100.0	11,029.7	10,891.4	10,767.0	40.7	39.7	-169.20	24.0	1,702.2	2,419.4	2,343.2	76.21	31.748		
11,200.0	11,127.6	10,923.3	10,785.5	41.1	39.7	-169.86	50.0	1,702.0	2,451.6	2,375.3	76.24	32.157		
11,300.0	11,225.5	10,950.0	10,799.8	41.5	39.8	-170.43	72.5	1,701.8	2,486.7	2,410.5	76.18	32.644		
11,400.0	11,323.3	10,973.0	10,811.3	42.0	39.8	-170.93	92.4	1,701.6	2,524.9	2,448.8	76.04	33.206		
11,500.0	11,421.2	11,000.0	10,823.8	42.4	39.8	-171.53	116.3	1,701.4	2,566.0	2,490.2	75.86	33.827		
11,523.5	11,444.2	11,000.0	10,823.8	42.5	39.8	-171.53	116.3	1,701.4	2,576.1	2,500.3	75.77	33.998		
11,600.0	11,519.2	11,000.0	10,823.8	42.8	39.8	-171.61	116.3	1,701.4	2,609.4	2,534.0	75.46	34.579		
11,700.0	11,617.7	11,024.9	10,834.2	43.3	39.8	-172.26	138.9	1,701.3	2,653.4	2,578.2	75.16	35.302		
11,800.0	11,716.7	11,050.0	10,843.8	43.7	39.8	-172.91	162.1	1,701.1	2,697.9	2,623.1	74.82	36.056		
11,900.0	11,815.9	11,050.0	10,843.8	44.1	39.8	-173.00	162.1	1,701.1	2,742.8	2,668.5	74.27	36.930		
12,000.0	11,915.5	11,050.0	10,843.8	44.4	39.8	-173.09	162.1	1,701.1	2,788.3	2,714.6	73.67	37.848		
12,100.0	12,015.2	11,072.4	10,851.5	44.8	39.9	-173.66	183.2	1,700.9	2,834.0	2,760.8	73.18	38.728		
12,200.0	12,115.1	11,081.9	10,854.5	45.2	39.9	-173.95	192.1	1,700.8	2,880.2	2,807.6	72.56	39.694		
12,300.0	12,215.1	11,100.0	10,859.8	45.5	39.9	-174.41	209.5	1,700.7	2,926.7	2,854.7	71.97	40.668		
12,311.9	12,227.0	11,100.0	10,859.8	45.5	39.9	80.09	209.5	1,700.7	2,932.2	2,860.4	71.88	40.794		
12,400.0	12,315.1	11,100.0	10,859.8	45.8	39.9	80.09	209.5	1,700.7	2,974.3	2,903.1	71.23	41.755		
12,500.0	12,415.1	11,100.0	10,859.8	46.2	39.9	80.09	209.5	1,700.7	3,024.5	2,954.0	70.49	42.906		
12,600.0	12,515.1	11,100.0	10,859.8	46.5	39.9	80.09	209.5	1,700.7	3,077.1	3,007.3	69.75	44.119		
12,700.0	12,615.1	11,119.0	10,864.8	46.9	39.9	79.69	227.8	1,700.6	3,131.7	3,062.6	69.12	45.306		
12,711.9	12,627.0	11,119.7	10,865.0	46.9	39.9	79.68	228.5	1,700.6	3,138.4	3,069.3	69.04	45.457		
12,750.0	12,665.1	11,122.2	10,865.6	47.0	39.9	98.97	230.9	1,700.5	3,160.1	3,091.3	68.78	45.948		
12,800.0	12,714.8	11,126.1	10,866.5	47.2	39.9	95.28	234.7	1,700.5	3,189.5	3,121.1	68.44	46.603		
12,850.0	12,763.8	11,130.7	10,867.6	47.4	39.9	91.40	239.2	1,700.5	3,219.8	3,151.7	68.12	47.267		
12,900.0	12,811.8	11,150.0	10,871.6	47.5	39.9	87.16	258.0	1,700.3	3,250.7	3,182.8	67.90	47.875		
12,950.0	12,858.3	11,150.0	10,871.6	47.7	39.9	83.23	258.0	1,700.3	3,281.6	3,214.1	67.58	48.560		
13,000.0	12,903.1	11,150.0	10,871.6	47.8	39.9	79.32	258.0	1,700.3	3,312.7	3,245.4	67.28	49.238		
13,050.0	12,945.8	11,150.0	10,871.6	48.0	39.9	75.50	258.0	1,700.3	3,343.5	3,276.5	67.00	49.902		
13,100.0	12,986.1	11,150.0	10,871.6	48.1	39.9	71.81	258.0	1,700.3	3,374.0	3,307.2	66.75	50.544		
13,150.0	13,023.7	11,170.0	10,875.2	48.3	40.0	68.16	277.7	1,700.2	3,403.5	3,336.9	66.64	51.073		
13,200.0	13,058.2	11,178.0	10,876.4	48.4	40.0	64.88	285.6	1,700.1	3,432.3	3,365.8	66.49	51.619		
13,250.0	13,089.4	11,200.0	10,879.1	48.5	40.0	61.82	307.4	1,699.9	3,460.0	3,393.6	66.44	52.074		
13,300.0	13,117.2	11,200.0	10,879.1	48.7	40.0	59.14	307.4	1,699.9	3,486.2	3,419.9	66.33	52.559		
13,350.0	13,141.1	11,200.0	10,879.1	48.8	40.0	56.72	307.4	1,699.9	3,511.0	3,444.8	66.26	52.991		
13,400.0	13,161.2	11,200.0	10,879.1	48.9	40.0	54.55	307.4	1,699.9	3,534.3	3,468.1	66.23	53.365		
13,450.0	13,177.2	11,221.4	10,881.0	49.1	40.0	52.66	328.8	1,699.8	3,555.5	3,489.2	66.33	53.604		
13,500.0	13,189.1	11,230.5	10,881.6	49.2	40.0	51.02	337.9	1,699.7	3,574.9	3,508.5	66.42	53.820		
13,550.0	13,196.6	11,250.0	10,882.3	49.4	40.1	49.66	357.3	1,699.5	3,592.3	3,525.7	66.60	53.943		
13,600.0	13,199.8	11,250.0	10,882.3	49.6	40.1	48.46	357.3	1,699.5	3,607.4	3,540.7	66.75	54.044		
13,611.9	13,200.0	11,250.0	10,882.3	49.6	40.1	48.21	357.3	1,699.5	3,610.7	3,543.9	66.79	54.058		
13,700.0	13,200.0	11,283.6	10,882.4	50.0	40.1	48.66	391.0	1,699.3	3,634.3	3,567.1	67.23	54.057		
13,800.0	13,200.0	11,378.3	10,882.1	50.4	40.4	49.32	485.7	1,698.5	3,659.3	3,591.4	67.93	53.869		
13,900.0	13,200.0	11,474.1	10,881.8	50.9	40.7	49.90	581.4	1,697.8	3,681.8	3,613.1	68.71	53.583		
14,000.0	13,200.0	11,570.8	10,881.4	51.4	41.1	50.41	678.1	1,697.0	3,701.8	3,632.3	69.57	53.210		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	11,668.3	10,881.1	52.0	41.6	50.84	775.6	1,696.3	3,719.3	3,648.8	70.50	52.753		
14,200.0	13,200.0	11,766.6	10,880.8	52.6	42.2	51.21	873.9	1,695.5	3,734.0	3,662.5	71.51	52.218		
14,300.0	13,200.0	11,865.4	10,880.5	53.2	42.8	51.50	972.7	1,694.7	3,746.2	3,673.6	72.58	51.612		
14,400.0	13,200.0	11,964.7	10,880.1	53.8	43.5	51.72	1,072.0	1,693.9	3,755.6	3,681.9	73.72	50.944		
14,500.0	13,200.0	12,064.4	10,879.8	54.5	44.2	51.88	1,171.7	1,693.1	3,762.3	3,687.4	74.92	50.221		
14,600.0	13,200.0	12,164.2	10,879.5	55.1	45.0	51.97	1,271.5	1,692.4	3,766.3	3,690.1	76.16	49.451		
14,687.2	13,200.0	12,251.5	10,879.2	55.7	45.7	51.99	1,358.8	1,691.7	3,767.5	3,690.2	77.29	48.748		
14,700.0	13,200.0	12,264.2	10,879.1	55.8	45.8	51.99	1,371.5	1,691.6	3,767.5	3,690.1	77.45	48.643		
14,800.0	13,200.0	12,364.2	10,878.8	56.5	46.7	51.99	1,471.5	1,690.8	3,767.7	3,688.9	78.81	47.810		
14,900.0	13,200.0	12,464.2	10,878.5	57.3	47.6	51.99	1,571.5	1,690.0	3,767.9	3,687.7	80.23	46.961		
15,000.0	13,200.0	12,564.2	10,878.1	58.1	48.5	51.98	1,671.5	1,689.2	3,768.1	3,686.4	81.73	46.103		
15,100.0	13,200.0	12,664.2	10,877.8	58.9	49.5	51.98	1,771.5	1,688.4	3,768.3	3,685.0	83.30	45.240		
15,200.0	13,200.0	12,764.2	10,877.5	59.7	50.5	51.97	1,871.5	1,687.6	3,768.5	3,683.6	84.92	44.376		
15,300.0	13,200.0	12,864.2	10,877.1	60.6	51.6	51.97	1,971.5	1,686.9	3,768.7	3,682.1	86.61	43.515		
15,400.0	13,200.0	12,964.2	10,876.8	61.6	52.7	51.97	2,071.5	1,686.1	3,768.9	3,680.5	88.35	42.660		
15,500.0	13,200.0	13,064.2	10,876.5	62.5	53.8	51.96	2,171.5	1,685.3	3,769.1	3,678.9	90.14	41.814		
15,600.0	13,200.0	13,164.2	10,876.2	63.5	54.9	51.96	2,271.5	1,684.5	3,769.3	3,677.3	91.98	40.980		
15,700.0	13,200.0	13,264.2	10,875.8	64.5	56.1	51.95	2,371.5	1,683.7	3,769.4	3,675.6	93.87	40.158		
15,800.0	13,200.0	13,364.2	10,875.5	65.5	57.3	51.95	2,471.5	1,682.9	3,769.6	3,673.8	95.80	39.351		
15,900.0	13,200.0	13,464.2	10,875.2	66.6	58.5	51.94	2,571.5	1,682.2	3,769.8	3,672.1	97.77	38.560		
16,000.0	13,200.0	13,564.2	10,874.8	67.7	59.7	51.94	2,671.5	1,681.4	3,770.0	3,670.3	99.77	37.785		
16,100.0	13,200.0	13,664.2	10,874.5	68.8	61.0	51.94	2,771.5	1,680.6	3,770.2	3,668.4	101.82	37.028		
16,200.0	13,200.0	13,764.2	10,874.2	69.9	62.3	51.93	2,871.5	1,679.8	3,770.4	3,666.5	103.90	36.290		
16,300.0	13,200.0	13,864.2	10,873.8	71.1	63.5	51.93	2,971.5	1,679.0	3,770.6	3,664.6	106.01	35.569		
16,400.0	13,200.0	13,964.2	10,873.5	72.3	64.9	51.92	3,071.5	1,678.2	3,770.8	3,662.7	108.15	34.867		
16,500.0	13,200.0	14,064.2	10,873.2	73.5	66.2	51.92	3,171.4	1,677.4	3,771.0	3,660.7	110.32	34.183		
16,600.0	13,200.0	14,164.2	10,872.8	74.7	67.5	51.92	3,271.4	1,676.7	3,771.2	3,658.7	112.51	33.518		
16,700.0	13,200.0	14,264.2	10,872.5	75.9	68.9	51.91	3,371.4	1,675.9	3,771.4	3,656.7	114.73	32.871		
16,800.0	13,200.0	14,364.2	10,872.2	77.1	70.2	51.91	3,471.4	1,675.1	3,771.6	3,654.6	116.98	32.242		
16,900.0	13,200.0	14,464.2	10,871.8	78.4	71.6	51.90	3,571.4	1,674.3	3,771.8	3,652.5	119.24	31.631		
17,000.0	13,200.0	14,564.2	10,871.5	79.7	73.0	51.90	3,671.4	1,673.5	3,772.0	3,650.4	121.53	31.037		
17,100.0	13,200.0	14,664.2	10,871.2	81.0	74.4	51.90	3,771.4	1,672.7	3,772.2	3,648.3	123.84	30.460		
17,200.0	13,200.0	14,764.2	10,870.8	82.3	75.8	51.89	3,871.4	1,671.9	3,772.4	3,646.2	126.16	29.900		
17,300.0	13,200.0	14,864.2	10,870.5	83.6	77.2	51.89	3,971.4	1,671.2	3,772.6	3,644.1	128.51	29.357		
17,400.0	13,200.0	14,964.2	10,870.2	84.9	78.7	51.88	4,071.4	1,670.4	3,772.8	3,641.9	130.87	28.829		
17,500.0	13,200.0	15,064.2	10,869.9	86.3	80.1	51.88	4,171.4	1,669.6	3,772.9	3,639.7	133.24	28.316		
17,600.0	13,200.0	15,164.2	10,869.5	87.6	81.5	51.88	4,271.4	1,668.8	3,773.1	3,637.5	135.64	27.818		
17,700.0	13,200.0	15,264.2	10,869.2	89.0	83.0	51.87	4,371.4	1,668.0	3,773.3	3,635.3	138.04	27.335		
17,800.0	13,200.0	15,364.2	10,868.9	90.3	84.4	51.87	4,471.4	1,667.2	3,773.5	3,633.1	140.46	26.866		
17,900.0	13,200.0	15,464.2	10,868.5	91.7	85.9	51.86	4,571.4	1,666.4	3,773.7	3,630.8	142.89	26.410		
18,000.0	13,200.0	15,564.2	10,868.2	93.1	87.4	51.86	4,671.4	1,665.7	3,773.9	3,628.6	145.34	25.967		
18,100.0	13,200.0	15,664.2	10,867.9	94.5	88.9	51.85	4,771.4	1,664.9	3,774.1	3,626.3	147.79	25.537		
18,200.0	13,200.0	15,764.2	10,867.5	95.9	90.4	51.85	4,871.4	1,664.1	3,774.3	3,624.1	150.26	25.119		
18,300.0	13,200.0	15,864.2	10,867.2	97.3	91.9	51.85	4,971.4	1,663.3	3,774.5	3,621.8	152.73	24.713		
18,400.0	13,200.0	15,964.2	10,866.9	98.7	93.4	51.84	5,071.4	1,662.5	3,774.7	3,619.5	155.22	24.318		
18,500.0	13,200.0	16,064.2	10,866.5	100.2	94.9	51.84	5,171.4	1,661.7	3,774.9	3,617.2	157.72	23.935		
18,600.0	13,200.0	16,164.2	10,866.2	101.6	96.4	51.83	5,271.4	1,660.9	3,775.1	3,614.9	160.22	23.562		
18,700.0	13,200.0	16,264.2	10,865.9	103.0	97.9	51.83	5,371.4	1,660.2	3,775.3	3,612.6	162.74	23.199		
18,800.0	13,200.0	16,364.2	10,865.5	104.5	99.4	51.83	5,471.4	1,659.4	3,775.5	3,610.2	165.26	22.846		
18,900.0	13,200.0	16,464.2	10,865.2	105.9	100.9	51.82	5,571.3	1,658.6	3,775.7	3,607.9	167.79	22.503		
19,000.0	13,200.0	16,564.2	10,864.9	107.4	102.4	51.82	5,671.3	1,657.8	3,775.9	3,605.5	170.32	22.169		
19,100.0	13,200.0	16,664.2	10,864.5	108.9	104.0	51.81	5,771.3	1,657.0	3,776.1	3,603.2	172.87	21.844		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	13,200.0	16,764.2	10,864.2	110.3	105.5	51.81	5,871.3	1,656.2	3,776.3	3,600.8	175.42	21.527		
19,300.0	13,200.0	16,864.2	10,863.9	111.8	107.1	51.81	5,971.3	1,655.4	3,776.5	3,598.5	177.98	21.219		
19,400.0	13,200.0	16,964.2	10,863.6	113.3	108.6	51.80	6,071.3	1,654.7	3,776.7	3,596.1	180.54	20.919		
19,500.0	13,200.0	17,064.2	10,863.2	114.8	110.1	51.80	6,171.3	1,653.9	3,776.8	3,593.7	183.11	20.626		
19,600.0	13,200.0	17,164.2	10,862.9	116.3	111.7	51.79	6,271.3	1,653.1	3,777.0	3,591.4	185.69	20.341		
19,700.0	13,200.0	17,264.2	10,862.6	117.8	113.2	51.79	6,371.3	1,652.3	3,777.2	3,589.0	188.27	20.063		
19,800.0	13,200.0	17,364.2	10,862.2	119.3	114.8	51.79	6,471.3	1,651.5	3,777.4	3,586.6	190.85	19.792		
19,900.0	13,200.0	17,464.2	10,861.9	120.8	116.4	51.78	6,571.3	1,650.7	3,777.6	3,584.2	193.44	19.528		
20,000.0	13,200.0	17,564.2	10,861.6	122.3	117.9	51.78	6,671.3	1,650.0	3,777.8	3,581.8	196.04	19.271		
20,100.0	13,200.0	17,664.2	10,861.2	123.8	119.5	51.77	6,771.3	1,649.2	3,778.0	3,579.4	198.64	19.019		
20,200.0	13,200.0	17,764.2	10,860.9	125.3	121.0	51.77	6,871.3	1,648.4	3,778.2	3,577.0	201.24	18.774		
20,300.0	13,200.0	17,864.2	10,860.6	126.8	122.6	51.76	6,971.3	1,647.6	3,778.4	3,574.6	203.85	18.535		
20,400.0	13,200.0	17,964.2	10,860.2	128.4	124.2	51.76	7,071.3	1,646.8	3,778.6	3,572.1	206.47	18.301		
20,500.0	13,200.0	18,064.2	10,859.9	129.9	125.7	51.76	7,171.3	1,646.0	3,778.8	3,569.7	209.08	18.073		
20,600.0	13,200.0	18,164.2	10,859.6	131.4	127.3	51.75	7,271.3	1,645.2	3,779.0	3,567.3	211.70	17.850		
20,700.0	13,200.0	18,264.2	10,859.2	132.9	128.9	51.75	7,371.3	1,644.5	3,779.2	3,564.9	214.33	17.633		
20,800.0	13,200.0	18,364.2	10,858.9	134.5	130.5	51.74	7,471.3	1,643.7	3,779.4	3,562.4	216.96	17.420		
20,900.0	13,200.0	18,464.2	10,858.6	136.0	132.1	51.74	7,571.3	1,642.9	3,779.6	3,560.0	219.59	17.212		
21,000.0	13,200.0	18,564.2	10,858.2	137.6	133.6	51.74	7,671.3	1,642.1	3,779.8	3,557.6	222.22	17.009		
21,100.0	13,200.0	18,664.2	10,857.9	139.1	135.2	51.73	7,771.3	1,641.3	3,780.0	3,555.1	224.86	16.810		
21,200.0	13,200.0	18,764.2	10,857.6	140.7	136.8	51.73	7,871.3	1,640.5	3,780.2	3,552.7	227.50	16.616		
21,300.0	13,200.0	18,864.2	10,857.3	142.2	138.4	51.72	7,971.2	1,639.7	3,780.4	3,550.2	230.14	16.426		
21,400.0	13,200.0	18,964.2	10,856.9	143.8	140.0	51.72	8,071.2	1,639.0	3,780.6	3,547.8	232.79	16.240		
21,500.0	13,200.0	19,064.2	10,856.6	145.3	141.6	51.72	8,171.2	1,638.2	3,780.8	3,545.3	235.44	16.058		
21,600.0	13,200.0	19,164.2	10,856.3	146.9	143.2	51.71	8,271.2	1,637.4	3,781.0	3,542.9	238.09	15.880		
21,700.0	13,200.0	19,264.2	10,855.9	148.4	144.8	51.71	8,371.2	1,636.6	3,781.1	3,540.4	240.74	15.706		
21,800.0	13,200.0	19,364.2	10,855.6	150.0	146.4	51.70	8,471.2	1,635.8	3,781.3	3,537.9	243.40	15.536		
21,900.0	13,200.0	19,464.2	10,855.3	151.5	148.0	51.70	8,571.2	1,635.0	3,781.5	3,535.5	246.06	15.369		
22,000.0	13,200.0	19,564.2	10,854.9	153.1	149.6	51.70	8,671.2	1,634.2	3,781.7	3,533.0	248.72	15.205		
22,100.0	13,200.0	19,664.2	10,854.6	154.7	151.2	51.69	8,771.2	1,633.5	3,781.9	3,530.6	251.38	15.045		
22,200.0	13,200.0	19,764.2	10,854.3	156.2	152.8	51.69	8,871.2	1,632.7	3,782.1	3,528.1	254.04	14.888		
22,300.0	13,200.0	19,864.2	10,853.9	157.8	154.4	51.68	8,971.2	1,631.9	3,782.3	3,525.6	256.71	14.734		
22,400.0	13,200.0	19,964.2	10,853.6	159.4	156.0	51.68	9,071.2	1,631.1	3,782.5	3,523.1	259.38	14.583		
22,500.0	13,200.0	20,064.2	10,853.3	161.0	157.6	51.68	9,171.2	1,630.3	3,782.7	3,520.7	262.05	14.435		
22,600.0	13,200.0	20,164.2	10,852.9	162.5	159.2	51.67	9,271.2	1,629.5	3,782.9	3,518.2	264.72	14.290		
22,700.0	13,200.0	20,264.2	10,852.6	164.1	160.8	51.67	9,371.2	1,628.7	3,783.1	3,515.7	267.40	14.148		
22,800.0	13,200.0	20,364.2	10,852.3	165.7	162.4	51.66	9,471.2	1,628.0	3,783.3	3,513.2	270.07	14.008		
22,900.0	13,200.0	20,464.2	10,851.9	167.3	164.0	51.66	9,571.2	1,627.2	3,783.5	3,510.7	272.75	13.872		
23,000.0	13,200.0	20,564.2	10,851.6	168.9	165.6	51.65	9,671.2	1,626.4	3,783.7	3,508.3	275.43	13.737		
23,100.0	13,200.0	20,664.2	10,851.3	170.4	167.2	51.65	9,771.2	1,625.6	3,783.9	3,505.8	278.11	13.606		
23,200.0	13,200.0	20,764.2	10,851.0	172.0	168.8	51.65	9,871.2	1,624.8	3,784.1	3,503.3	280.79	13.476		
23,300.0	13,200.0	20,864.2	10,850.6	173.6	170.4	51.64	9,971.2	1,624.0	3,784.3	3,500.8	283.48	13.350		
23,400.0	13,200.0	20,964.2	10,850.3	175.2	172.0	51.64	10,071.2	1,623.2	3,784.5	3,498.3	286.16	13.225		
23,504.9	13,200.0	21,069.0	10,849.9	176.9	173.7	51.63	10,176.0	1,622.4	3,784.7	3,495.7	288.98	13.097 SF		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	89.35	28.0	2,453.2	2,453.3					
100.0	100.0	101.0	99.0	0.1	0.1	89.35	28.0	2,453.2	2,453.3	2,453.1	0.26	9,439.871		
200.0	200.0	201.0	199.0	0.5	0.5	89.35	28.0	2,453.2	2,453.3	2,452.4	0.98	2,511.528		
300.0	300.0	301.0	299.0	0.8	0.8	89.35	28.0	2,453.2	2,453.3	2,451.7	1.69	1,448.448		
400.0	400.0	401.0	399.0	1.2	1.2	89.35	28.0	2,453.2	2,453.3	2,450.9	2.41	1,017.682		
500.0	500.0	501.0	499.0	1.6	1.6	89.35	28.0	2,453.2	2,453.3	2,450.2	3.13	784.403		
600.0	600.0	601.0	599.0	1.9	1.9	89.35	28.0	2,453.2	2,453.3	2,449.5	3.84	638.127		
700.0	700.0	701.0	699.0	2.3	2.3	89.35	28.0	2,453.2	2,453.3	2,448.8	4.56	537.832		
800.0	800.0	801.0	799.0	2.6	2.6	89.35	28.0	2,453.2	2,453.3	2,448.1	5.28	464.782		
900.0	900.0	901.0	899.0	3.0	3.0	89.35	28.0	2,453.2	2,453.3	2,447.4	6.00	409.203		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	89.35	28.0	2,453.2	2,453.3	2,446.6	6.71	365.496		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	89.35	28.0	2,453.2	2,453.3	2,445.9	7.43	330.225		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	89.35	28.0	2,453.2	2,453.3	2,445.2	8.15	301.162		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	89.35	28.0	2,453.2	2,453.3	2,444.5	8.86	276.801		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	89.35	28.0	2,453.2	2,453.3	2,443.8	9.58	256.087		
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	89.35	28.0	2,453.2	2,453.3	2,443.1	10.30	238.256		
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	89.35	28.0	2,453.2	2,453.3	2,442.3	11.01	222.747		
1,700.0	1,700.0	1,701.0	1,699.0	5.9	5.9	89.35	28.0	2,453.2	2,453.3	2,441.6	11.73	209.134		
1,800.0	1,800.0	1,801.0	1,799.0	6.2	6.2	89.35	28.0	2,453.2	2,453.3	2,440.9	12.45	197.089		
1,900.0	1,900.0	1,901.0	1,899.0	6.6	6.6	89.35	28.0	2,453.2	2,453.3	2,440.2	13.16	186.356		
2,000.0	2,000.0	1,999.0	1,999.0	6.9	6.9	89.35	28.0	2,453.2	2,453.3	2,439.5	13.87	176.823 CC		
2,100.0	2,100.0	2,072.0	2,072.0	7.3	7.2	89.35	27.8	2,453.6	2,453.9	2,439.4	14.48	169.417 ES		
2,200.0	2,200.0	2,144.6	2,144.6	7.7	7.4	89.37	27.1	2,454.8	2,455.6	2,440.5	15.09	162.770		
2,300.0	2,300.0	2,217.3	2,217.2	8.0	7.7	89.39	26.0	2,456.8	2,458.3	2,442.6	15.68	156.753		
2,400.0	2,400.0	2,289.8	2,289.7	8.4	7.9	89.43	24.5	2,459.7	2,462.2	2,445.9	16.28	151.256		
2,500.0	2,500.0	2,362.3	2,362.0	8.7	8.2	89.47	22.6	2,463.3	2,467.2	2,450.3	16.87	146.225		
2,600.0	2,600.0	2,434.6	2,434.2	9.1	8.4	89.53	20.2	2,467.7	2,473.3	2,455.8	17.47	141.614		
2,700.0	2,700.0	2,506.8	2,506.2	9.4	8.7	89.60	17.4	2,473.0	2,480.5	2,462.5	18.06	137.383		
2,800.0	2,800.0	2,578.9	2,577.9	9.8	8.9	89.67	14.2	2,479.0	2,488.9	2,470.2	18.64	133.494		
2,900.0	2,900.0	2,650.7	2,649.4	10.2	9.2	89.76	10.6	2,485.8	2,498.3	2,479.1	19.23	129.916		
3,000.0	3,000.0	2,722.4	2,720.5	10.5	9.4	89.85	6.6	2,493.3	2,508.8	2,489.0	19.81	126.624		
3,100.0	3,100.0	2,808.6	2,788.9	10.9	9.7	89.95	2.3	2,501.3	2,520.5	2,500.0	20.44	123.293		
3,200.0	3,200.0	2,909.5	2,887.0	11.2	10.1	90.10	-4.2	2,513.5	2,532.8	2,511.6	21.15	119.742		
3,300.0	3,300.0	2,989.5	2,985.1	11.6	10.4	90.24	-10.7	2,525.7	2,545.1	2,523.3	21.79	116.806		
3,400.0	3,400.0	3,088.5	3,083.1	12.0	10.8	90.39	-17.2	2,537.8	2,557.5	2,535.0	22.50	113.688		
3,500.0	3,500.0	3,187.6	3,181.2	12.3	11.1	90.53	-23.6	2,550.0	2,569.8	2,546.6	23.20	110.750		
3,600.0	3,600.0	3,286.6	3,279.2	12.7	11.5	90.67	-30.1	2,562.2	2,582.2	2,558.3	23.91	107.980		
3,700.0	3,700.0	3,385.6	3,377.3	13.0	11.9	90.81	-36.6	2,574.3	2,594.6	2,570.0	24.63	105.363		
3,800.0	3,800.0	3,484.6	3,475.4	13.4	12.3	90.95	-43.1	2,586.5	2,607.0	2,581.7	25.34	102.888		
3,900.0	3,900.0	3,583.7	3,573.4	13.8	12.7	91.09	-49.6	2,598.6	2,619.4	2,593.4	26.05	100.545		
4,000.0	4,000.0	3,682.7	3,671.5	14.1	13.1	91.23	-56.0	2,610.8	2,631.9	2,605.1	26.77	98.323		
4,100.0	4,100.0	3,781.7	3,769.6	14.5	13.4	91.37	-62.5	2,623.0	2,644.3	2,616.8	27.48	96.213		
4,200.0	4,200.0	3,880.7	3,867.6	14.8	13.8	91.50	-69.0	2,635.1	2,656.8	2,628.6	28.20	94.208		
4,300.0	4,300.0	3,979.8	3,965.7	15.2	14.2	91.63	-75.5	2,647.3	2,669.3	2,640.3	28.92	92.300		
4,400.0	4,400.0	4,078.8	4,063.8	15.5	14.6	91.77	-82.0	2,659.4	2,681.7	2,652.1	29.64	90.483		
4,500.0	4,500.0	4,177.8	4,161.8	15.9	15.0	91.90	-88.5	2,671.6	2,694.3	2,663.9	30.36	88.751		
4,600.0	4,600.0	4,276.8	4,259.9	16.3	15.4	92.03	-94.9	2,683.8	2,706.8	2,675.7	31.08	87.097		
4,700.0	4,700.0	4,375.9	4,357.9	16.6	15.8	92.15	-101.4	2,695.9	2,719.3	2,687.5	31.80	85.517		
4,800.0	4,800.0	4,474.9	4,456.0	17.0	16.2	92.28	-107.9	2,708.1	2,731.9	2,699.3	32.52	84.006		
4,900.0	4,900.0	4,573.9	4,554.1	17.3	16.6	92.41	-114.4	2,720.3	2,744.4	2,711.2	33.24	82.560		
5,000.0	5,000.0	4,673.0	4,652.1	17.7	17.0	92.53	-120.9	2,732.4	2,757.0	2,723.0	33.96	81.175		
5,100.0	5,100.0	4,772.0	4,750.2	18.1	17.4	92.66	-127.4	2,744.6	2,769.6	2,734.9	34.69	79.846		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	4,871.0	4,848.3	18.4	17.8	92.78	-133.8	2,756.7	2,782.2	2,746.8	35.41	78.572		
5,300.0	5,300.0	4,970.0	4,946.3	18.8	18.2	92.90	-140.3	2,768.9	2,794.8	2,758.7	36.13	77.348		
5,400.0	5,400.0	5,069.1	5,044.4	19.1	18.6	93.02	-146.8	2,781.1	2,807.4	2,770.6	36.86	76.172		
5,500.0	5,500.0	5,168.1	5,142.4	19.5	19.0	93.14	-153.3	2,793.2	2,820.1	2,782.5	37.58	75.041		
5,600.0	5,600.0	5,267.1	5,240.5	19.8	19.4	93.26	-159.8	2,805.4	2,832.7	2,794.4	38.30	73.953		
5,700.0	5,700.0	5,366.1	5,338.6	20.2	19.8	93.38	-166.3	2,817.6	2,845.4	2,806.3	39.03	72.905		
5,800.0	5,800.0	5,472.3	5,443.7	20.6	20.3	93.50	-173.2	2,830.6	2,858.0	2,818.3	39.79	71.831		
5,900.0	5,900.0	5,786.3	5,756.1	20.9	21.5	93.75	-187.3	2,857.1	2,866.8	2,825.3	41.45	69.170		
6,000.0	6,000.0	6,029.2	5,999.0	21.3	22.3	93.80	-190.0	2,862.1	2,868.4	2,825.8	42.63	67.288		
6,100.0	6,100.0	6,129.2	6,099.0	21.6	22.6	93.80	-190.0	2,862.1	2,868.4	2,825.1	43.33	66.207		
6,200.0	6,200.0	6,229.2	6,199.0	22.0	23.0	93.80	-190.0	2,862.1	2,868.4	2,824.4	44.02	65.158		
6,300.0	6,300.0	6,329.2	6,299.0	22.4	23.3	93.80	-190.0	2,862.1	2,868.4	2,823.7	44.72	64.142		
6,400.0	6,400.0	6,429.2	6,399.0	22.7	23.6	93.80	-190.0	2,862.1	2,868.4	2,823.0	45.42	63.156		
6,500.0	6,500.0	6,529.2	6,499.0	23.1	24.0	93.80	-190.0	2,862.1	2,868.4	2,822.3	46.12	62.199		
6,600.0	6,600.0	6,629.2	6,599.0	23.4	24.3	93.80	-190.0	2,862.1	2,868.4	2,821.6	46.82	61.269		
6,700.0	6,700.0	6,729.2	6,699.0	23.8	24.6	93.80	-190.0	2,862.1	2,868.4	2,820.9	47.52	60.367		
6,800.0	6,800.0	6,829.2	6,799.0	24.1	25.0	93.80	-190.0	2,862.1	2,868.4	2,820.2	48.22	59.490		
6,900.0	6,900.0	6,929.2	6,899.0	24.5	25.3	93.80	-190.0	2,862.1	2,868.4	2,819.5	48.92	58.638		
7,000.0	7,000.0	7,029.2	6,999.0	24.9	25.6	93.80	-190.0	2,862.1	2,868.4	2,818.8	49.62	57.809		
7,100.0	7,100.0	7,129.2	7,099.0	25.2	26.0	-160.71	-190.0	2,862.1	2,869.2	2,818.9	50.31	57.032		
7,200.0	7,200.0	7,229.2	7,199.0	25.5	26.3	-160.72	-190.0	2,862.1	2,871.7	2,820.7	50.99	56.321		
7,300.0	7,299.9	7,329.1	7,298.9	25.9	26.6	-160.74	-190.0	2,862.1	2,875.8	2,824.2	51.67	55.660		
7,400.0	7,399.7	7,428.9	7,398.7	26.2	27.0	-160.76	-190.0	2,862.1	2,881.6	2,829.2	52.35	55.047		
7,500.0	7,499.4	7,528.6	7,498.4	26.6	27.3	-160.79	-190.0	2,862.1	2,889.0	2,836.0	53.03	54.480		
7,600.0	7,598.9	7,628.1	7,597.9	26.9	27.6	-160.82	-190.0	2,862.1	2,898.1	2,844.3	53.71	53.959		
7,700.0	7,698.3	7,727.5	7,697.3	27.2	28.0	-160.86	-190.0	2,862.1	2,908.8	2,854.4	54.39	53.481		
7,800.0	7,797.4	7,826.6	7,796.4	27.6	28.3	-160.90	-190.0	2,862.1	2,921.1	2,866.0	55.07	53.045		
7,900.0	7,896.3	7,925.5	7,895.3	27.9	28.6	-160.95	-190.0	2,862.1	2,935.1	2,879.3	55.75	52.650		
8,000.0	7,994.9	8,024.2	7,993.9	28.3	29.0	-161.00	-190.0	2,862.1	2,950.7	2,894.3	56.43	52.294		
8,100.0	8,093.3	8,122.5	8,092.3	28.6	29.3	-161.06	-190.0	2,862.1	2,968.0	2,910.9	57.10	51.976		
8,182.6	8,174.2	8,203.4	8,173.2	28.9	29.6	-161.11	-190.0	2,862.1	2,983.5	2,925.8	57.66	51.741		
8,200.0	8,191.3	8,220.5	8,190.3	29.0	29.6	-161.13	-190.0	2,862.1	2,986.9	2,929.1	57.78	51.694		
8,300.0	8,289.1	8,318.4	8,288.1	29.4	30.0	-161.26	-190.0	2,862.1	3,006.3	2,947.8	58.46	51.428		
8,400.0	8,387.0	8,416.2	8,386.0	29.7	30.3	-161.38	-190.0	2,862.1	3,025.7	2,966.6	59.13	51.167		
8,500.0	8,484.9	8,514.1	8,483.9	30.1	30.6	-161.50	-190.0	2,862.1	3,045.2	2,985.4	59.81	50.911		
8,600.0	8,582.8	8,612.0	8,581.8	30.5	31.0	-161.63	-190.0	2,862.1	3,064.7	3,004.2	60.50	50.660		
8,700.0	8,680.6	8,709.9	8,679.6	30.9	31.3	-161.75	-190.0	2,862.1	3,084.2	3,023.0	61.18	50.413		
8,800.0	8,778.5	8,807.7	8,777.5	31.2	31.7	-161.86	-190.0	2,862.1	3,103.7	3,041.8	61.86	50.171		
8,900.0	8,876.4	8,905.6	8,875.4	31.6	32.0	-161.98	-190.0	2,862.1	3,123.2	3,060.7	62.55	49.933		
9,000.0	8,974.3	9,003.5	8,973.3	32.0	32.3	-162.10	-190.0	2,862.1	3,142.8	3,079.5	63.23	49.700		
9,100.0	9,072.1	9,101.4	9,071.1	32.4	32.7	-162.21	-190.0	2,862.1	3,162.3	3,098.4	63.92	49.471		
9,200.0	9,170.0	9,200.7	9,169.0	32.8	33.0	-162.32	-190.0	2,862.1	3,181.9	3,117.2	64.62	49.242		
9,300.0	9,267.9	9,302.9	9,266.9	33.2	33.4	-162.43	-190.0	2,862.1	3,201.4	3,136.1	65.32	49.010		
9,400.0	9,365.8	9,405.0	9,364.8	33.6	33.7	-162.54	-190.0	2,862.1	3,221.0	3,155.0	66.03	48.782		
9,500.0	9,463.7	9,507.1	9,462.7	34.0	34.1	-162.65	-190.0	2,862.1	3,240.6	3,173.9	66.74	48.558		
9,600.0	9,561.5	9,609.2	9,560.5	34.4	34.4	-162.76	-190.0	2,862.1	3,260.2	3,192.8	67.45	48.339		
9,700.0	9,659.4	9,688.6	9,658.4	34.8	34.7	-162.86	-190.0	2,862.1	3,279.8	3,211.8	68.08	48.179		
9,800.0	9,757.3	9,786.5	9,756.3	35.2	35.0	-162.97	-190.0	2,862.1	3,299.5	3,230.7	68.77	47.977		
9,900.0	9,855.2	9,884.4	9,854.2	35.6	35.4	-163.07	-190.0	2,862.1	3,319.1	3,249.6	69.47	47.779		
10,000.0	9,953.0	9,982.3	9,952.0	36.0	35.7	-163.18	-190.0	2,862.1	3,338.7	3,268.6	70.16	47.584		
10,100.0	10,050.9	10,080.2	10,049.9	36.4	36.0	-163.28	-190.0	2,862.1	3,358.4	3,287.5	70.86	47.393		
10,200.0	10,148.8	10,178.0	10,147.8	36.9	36.4	-163.38	-190.0	2,862.1	3,378.1	3,306.5	71.56	47.204		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,275.9	10,245.7	37.3	36.7	-163.47	-190.0	2,862.1	3,397.7	3,325.5	72.26	47.019		
10,400.0	10,344.6	10,373.8	10,343.6	37.7	37.1	-163.57	-190.0	2,862.1	3,417.4	3,344.5	72.96	46.837		
10,500.0	10,442.4	10,450.0	10,419.8	38.1	37.3	-163.66	-189.3	2,862.2	3,437.3	3,363.7	73.59	46.712		
10,600.0	10,540.3	10,500.0	10,469.5	38.5	37.5	-163.79	-184.8	2,863.1	3,458.5	3,384.4	74.10	46.675		
10,700.0	10,638.2	10,538.7	10,507.6	39.0	37.6	-163.93	-178.3	2,864.3	3,481.1	3,406.5	74.54	46.699		
10,800.0	10,736.1	10,582.0	10,549.7	39.4	37.8	-164.14	-168.1	2,866.2	3,505.2	3,430.2	74.98	46.747		
10,900.0	10,833.9	10,622.9	10,588.6	39.8	37.9	-164.39	-155.6	2,868.5	3,530.9	3,455.5	75.39	46.835		
11,000.0	10,931.8	10,650.0	10,613.8	40.2	38.0	-164.58	-145.9	2,870.3	3,558.3	3,482.6	75.71	46.998		
11,100.0	11,029.7	10,700.0	10,659.0	40.7	38.1	-164.97	-124.9	2,874.2	3,587.3	3,511.2	76.11	47.133		
11,200.0	11,127.6	10,730.0	10,685.1	41.1	38.2	-165.23	-110.4	2,876.9	3,618.1	3,541.7	76.39	47.362		
11,300.0	11,225.5	10,750.0	10,702.1	41.5	38.2	-165.42	-100.1	2,878.8	3,650.7	3,574.1	76.60	47.660		
11,400.0	11,323.3	10,800.0	10,742.9	42.0	38.3	-165.92	-71.6	2,884.1	3,685.1	3,608.2	76.92	47.906		
11,500.0	11,421.2	10,800.0	10,742.9	42.4	38.3	-165.92	-71.6	2,884.1	3,721.3	3,644.4	76.97	48.345		
11,523.5	11,444.2	10,820.0	10,758.5	42.5	38.4	-166.14	-59.3	2,886.3	3,730.0	3,653.0	77.08	48.389		
11,600.0	11,519.2	10,850.0	10,781.0	42.8	38.4	-166.58	-39.8	2,889.9	3,758.7	3,681.5	77.25	48.655		
11,700.0	11,617.7	10,850.0	10,781.0	43.3	38.4	-166.72	-39.8	2,889.9	3,795.7	3,718.4	77.24	49.140		
11,800.0	11,716.7	10,881.1	10,803.2	43.7	38.5	-167.21	-18.4	2,893.9	3,832.1	3,754.8	77.36	49.534		
11,900.0	11,815.9	10,900.0	10,816.1	44.1	38.5	-167.55	-4.9	2,896.4	3,868.2	3,790.8	77.39	49.981		
12,000.0	11,915.5	10,918.9	10,828.6	44.4	38.5	-167.90	9.1	2,899.0	3,903.8	3,826.4	77.39	50.442		
12,100.0	12,015.2	10,950.0	10,848.0	44.8	38.6	-168.38	33.0	2,903.4	3,939.1	3,861.6	77.43	50.873		
12,200.0	12,115.1	10,950.0	10,848.0	45.2	38.6	-168.49	33.0	2,903.4	3,973.7	3,896.5	77.26	51.430		
12,300.0	12,215.1	10,967.5	10,858.4	45.5	38.6	-168.81	46.8	2,906.0	4,008.1	3,930.9	77.17	51.940		
12,311.9	12,227.0	10,969.2	10,859.4	45.5	38.6	85.66	48.2	2,906.3	4,012.1	3,934.9	77.15	52.003		
12,400.0	12,315.1	10,981.8	10,866.5	45.8	38.6	85.51	58.4	2,908.1	4,042.9	3,965.9	77.03	52.485		
12,500.0	12,415.1	11,000.0	10,876.5	46.2	38.7	85.29	73.4	2,910.9	4,079.7	4,002.8	76.90	53.054		
12,600.0	12,515.1	11,000.0	10,876.5	46.5	38.7	85.29	73.4	2,910.9	4,118.4	4,041.8	76.64	53.739		
12,700.0	12,615.1	11,019.2	10,886.4	46.9	38.7	85.05	89.5	2,913.9	4,159.0	4,082.5	76.47	54.385		
12,711.9	12,627.0	11,020.5	10,887.1	46.9	38.7	85.03	90.6	2,914.1	4,163.9	4,087.5	76.45	54.468		
12,750.0	12,665.1	11,024.9	10,889.3	47.0	38.7	105.19	94.4	2,914.8	4,180.3	4,104.0	76.37	54.741		
12,800.0	12,714.8	11,031.1	10,892.3	47.2	38.7	102.63	99.6	2,915.8	4,203.1	4,126.8	76.26	55.115		
12,850.0	12,763.8	11,050.0	10,901.2	47.4	38.7	99.74	116.1	2,918.8	4,227.2	4,151.0	76.23	55.452		
12,900.0	12,811.8	11,050.0	10,901.2	47.5	38.7	96.88	116.1	2,918.8	4,252.2	4,176.1	76.09	55.883		
12,950.0	12,858.3	11,050.0	10,901.2	47.7	38.7	93.87	116.1	2,918.8	4,278.1	4,202.1	75.95	56.324		
13,000.0	12,903.1	11,050.0	10,901.2	47.8	38.7	90.74	116.1	2,918.8	4,304.6	4,228.8	75.82	56.771		
13,050.0	12,945.8	11,050.0	10,901.2	48.0	38.7	87.53	116.1	2,918.8	4,331.6	4,255.9	75.70	57.220		
13,100.0	12,986.1	11,075.3	10,912.3	48.1	38.8	84.18	138.4	2,923.0	4,358.5	4,282.8	75.74	57.547		
13,150.0	13,023.7	11,100.0	10,922.1	48.3	38.8	80.91	160.7	2,927.1	4,385.7	4,310.0	75.78	57.874		
13,200.0	13,058.2	11,100.0	10,922.1	48.4	38.8	77.81	160.7	2,927.1	4,412.4	4,336.7	75.70	58.289		
13,250.0	13,089.4	11,100.0	10,922.1	48.5	38.8	74.81	160.7	2,927.1	4,438.7	4,363.1	75.64	58.685		
13,300.0	13,117.2	11,100.0	10,922.1	48.7	38.8	71.93	160.7	2,927.1	4,464.4	4,388.8	75.59	59.058		
13,350.0	13,141.1	11,100.0	10,922.1	48.8	38.8	69.21	160.7	2,927.1	4,489.4	4,413.8	75.58	59.403		
13,400.0	13,161.2	11,125.4	10,931.1	48.9	38.8	66.76	184.0	2,931.4	4,513.1	4,437.4	75.72	59.601		
13,450.0	13,177.2	11,150.0	10,938.9	49.1	38.9	64.54	207.0	2,935.7	4,535.9	4,460.0	75.89	59.773		
13,500.0	13,189.1	11,150.0	10,938.9	49.2	38.9	62.44	207.0	2,935.7	4,557.2	4,481.2	75.95	60.004		
13,550.0	13,196.6	11,150.0	10,938.9	49.4	38.9	60.54	207.0	2,935.7	4,577.0	4,501.0	76.04	60.193		
13,600.0	13,199.8	11,150.0	10,938.9	49.6	38.9	58.83	207.0	2,935.7	4,595.4	4,519.2	76.16	60.339		
13,611.9	13,200.0	11,150.0	10,938.9	49.6	38.9	58.46	207.0	2,935.7	4,599.5	4,523.3	76.19	60.368		
13,700.0	13,200.0	11,174.5	10,945.6	50.0	38.9	58.95	230.1	2,940.0	4,629.1	4,552.5	76.58	60.448		
13,800.0	13,200.0	11,200.0	10,951.6	50.4	39.0	59.45	254.6	2,944.5	4,661.6	4,584.6	77.03	60.517		
13,900.0	13,200.0	11,200.0	10,951.6	50.9	39.0	59.78	254.6	2,944.5	4,692.9	4,615.5	77.38	60.647		
14,000.0	13,200.0	11,226.2	10,956.5	51.4	39.1	60.22	279.9	2,949.2	4,722.8	4,644.9	77.88	60.644		
14,100.0	13,200.0	11,250.0	10,960.0	52.0	39.1	60.61	303.0	2,953.5	4,751.5	4,673.1	78.38	60.621		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	13,200.0	11,250.0	10,960.0	52.6	39.1	60.89	303.0	2,953.5	4,778.9	4,700.1	78.79	60.653		
14,300.0	13,200.0	11,300.0	10,964.0	53.2	39.3	61.29	352.0	2,962.6	4,805.0	4,725.6	79.44	60.486		
14,400.0	13,200.0	12,033.9	10,962.1	53.8	42.9	62.25	1,082.6	3,013.5	4,823.8	4,739.8	84.01	57.421		
14,500.0	13,200.0	12,133.6	10,961.8	54.5	43.6	62.36	1,182.2	3,012.7	4,831.3	4,746.0	85.28	56.652		
14,600.0	13,200.0	12,233.5	10,961.5	55.1	44.4	62.43	1,282.1	3,011.9	4,835.7	4,749.0	86.62	55.825		
14,687.2	13,200.0	12,320.7	10,961.2	55.7	45.1	62.44	1,369.3	3,011.3	4,837.0	4,749.1	87.84	55.065		
14,700.0	13,200.0	12,333.4	10,961.2	55.8	45.2	62.44	1,382.1	3,011.2	4,837.0	4,749.0	88.03	54.950		
14,800.0	13,200.0	12,433.4	10,960.8	56.5	46.0	62.44	1,482.1	3,010.4	4,837.1	4,747.6	89.50	54.046		
14,900.0	13,200.0	12,533.4	10,960.5	57.3	46.9	62.44	1,582.1	3,009.6	4,837.3	4,746.2	91.05	53.126		
15,000.0	13,200.0	12,633.4	10,960.2	58.1	47.9	62.43	1,682.1	3,008.8	4,837.4	4,744.7	92.68	52.196		
15,100.0	13,200.0	12,733.4	10,959.9	58.9	48.8	62.43	1,782.1	3,008.0	4,837.6	4,743.2	94.37	51.261		
15,200.0	13,200.0	12,833.4	10,959.5	59.7	49.8	62.43	1,882.1	3,007.3	4,837.7	4,741.6	96.13	50.325		
15,300.0	13,200.0	12,933.4	10,959.2	60.6	50.9	62.42	1,982.0	3,006.5	4,837.8	4,739.9	97.95	49.391		
15,400.0	13,200.0	13,033.4	10,958.9	61.6	52.0	62.42	2,082.0	3,005.7	4,838.0	4,738.2	99.83	48.463		
15,500.0	13,200.0	13,133.4	10,958.6	62.5	53.1	62.41	2,182.0	3,004.9	4,838.1	4,736.4	101.76	47.543		
15,600.0	13,200.0	13,233.4	10,958.3	63.5	54.2	62.41	2,282.0	3,004.1	4,838.3	4,734.5	103.75	46.635		
15,700.0	13,200.0	13,333.4	10,957.9	64.5	55.4	62.41	2,382.0	3,003.4	4,838.4	4,732.6	105.78	45.739		
15,800.0	13,200.0	13,433.4	10,957.6	65.5	56.5	62.40	2,482.0	3,002.6	4,838.6	4,730.7	107.86	44.858		
15,900.0	13,200.0	13,533.4	10,957.3	66.6	57.7	62.40	2,582.0	3,001.8	4,838.7	4,728.7	109.99	43.993		
16,000.0	13,200.0	13,633.4	10,957.0	67.7	59.0	62.40	2,682.0	3,001.0	4,838.9	4,726.7	112.15	43.145		
16,100.0	13,200.0	13,733.4	10,956.6	68.8	60.2	62.39	2,782.0	3,000.2	4,839.0	4,724.6	114.36	42.315		
16,200.0	13,200.0	13,833.4	10,956.3	69.9	61.5	62.39	2,882.0	2,999.5	4,839.1	4,722.5	116.60	41.502		
16,300.0	13,200.0	13,933.4	10,956.0	71.1	62.8	62.39	2,982.0	2,998.7	4,839.3	4,720.4	118.87	40.709		
16,400.0	13,200.0	14,033.4	10,955.7	72.3	64.1	62.38	3,082.0	2,997.9	4,839.4	4,718.3	121.18	39.935		
16,500.0	13,200.0	14,133.4	10,955.3	73.5	65.4	62.38	3,182.0	2,997.1	4,839.6	4,716.1	123.52	39.180		
16,600.0	13,200.0	14,233.4	10,955.0	74.7	66.7	62.38	3,282.0	2,996.4	4,839.7	4,713.8	125.89	38.444		
16,700.0	13,200.0	14,333.4	10,954.7	75.9	68.1	62.37	3,382.0	2,995.6	4,839.9	4,711.6	128.28	37.728		
16,800.0	13,200.0	14,433.4	10,954.4	77.1	69.4	62.37	3,482.0	2,994.8	4,840.0	4,709.3	130.70	37.030		
16,900.0	13,200.0	14,533.4	10,954.1	78.4	70.8	62.37	3,582.0	2,994.0	4,840.2	4,707.0	133.15	36.351		
17,000.0	13,200.0	14,633.4	10,953.7	79.7	72.2	62.36	3,682.0	2,993.2	4,840.3	4,704.7	135.62	35.690		
17,100.0	13,200.0	14,733.4	10,953.4	81.0	73.6	62.36	3,782.0	2,992.5	4,840.4	4,702.3	138.11	35.048		
17,200.0	13,200.0	14,833.4	10,953.1	82.3	75.0	62.36	3,882.0	2,991.7	4,840.6	4,700.0	140.62	34.423		
17,300.0	13,200.0	14,933.4	10,952.8	83.6	76.4	62.35	3,982.0	2,990.9	4,840.7	4,697.6	143.15	33.815		
17,400.0	13,200.0	15,033.4	10,952.4	84.9	77.8	62.35	4,082.0	2,990.1	4,840.9	4,695.2	145.70	33.225		
17,500.0	13,200.0	15,133.4	10,952.1	86.3	79.3	62.35	4,182.0	2,989.3	4,841.0	4,692.8	148.27	32.650		
17,600.0	13,200.0	15,233.4	10,951.8	87.6	80.7	62.34	4,282.0	2,988.6	4,841.2	4,690.3	150.85	32.092		
17,700.0	13,200.0	15,333.4	10,951.5	89.0	82.2	62.34	4,381.9	2,987.8	4,841.3	4,687.9	153.45	31.549		
17,800.0	13,200.0	15,433.4	10,951.1	90.3	83.6	62.34	4,481.9	2,987.0	4,841.5	4,685.4	156.07	31.022		
17,900.0	13,200.0	15,533.4	10,950.8	91.7	85.1	62.33	4,581.9	2,986.2	4,841.6	4,682.9	158.70	30.509		
18,000.0	13,200.0	15,633.4	10,950.5	93.1	86.6	62.33	4,681.9	2,985.5	4,841.7	4,680.4	161.34	30.010		
18,100.0	13,200.0	15,733.4	10,950.2	94.5	88.0	62.33	4,781.9	2,984.7	4,841.9	4,677.9	164.00	29.525		
18,200.0	13,200.0	15,833.4	10,949.9	95.9	89.5	62.32	4,881.9	2,983.9	4,842.0	4,675.4	166.66	29.053		
18,300.0	13,200.0	15,933.4	10,949.5	97.3	91.0	62.32	4,981.9	2,983.1	4,842.2	4,672.8	169.34	28.594		
18,400.0	13,200.0	16,033.4	10,949.2	98.7	92.5	62.32	5,081.9	2,982.3	4,842.3	4,670.3	172.03	28.147		
18,500.0	13,200.0	16,133.4	10,948.9	100.2	94.0	62.31	5,181.9	2,981.6	4,842.5	4,667.7	174.74	27.713		
18,600.0	13,200.0	16,233.4	10,948.6	101.6	95.5	62.31	5,281.9	2,980.8	4,842.6	4,665.2	177.45	27.290		
18,700.0	13,200.0	16,333.4	10,948.2	103.0	97.1	62.31	5,381.9	2,980.0	4,842.8	4,662.6	180.17	26.879		
18,800.0	13,200.0	16,433.4	10,947.9	104.5	98.6	62.30	5,481.9	2,979.2	4,842.9	4,660.0	182.90	26.478		
18,900.0	13,200.0	16,533.4	10,947.6	105.9	100.1	62.30	5,581.9	2,978.4	4,843.0	4,657.4	185.64	26.088		
19,000.0	13,200.0	16,633.4	10,947.3	107.4	101.6	62.29	5,681.9	2,977.7	4,843.2	4,654.8	188.39	25.708		
19,100.0	13,200.0	16,733.4	10,946.9	108.9	103.1	62.29	5,781.9	2,976.9	4,843.3	4,652.2	191.15	25.338		
19,200.0	13,200.0	16,833.4	10,946.6	110.3	104.7	62.29	5,881.9	2,976.1	4,843.5	4,649.6	193.91	24.978		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	13,200.0	16,933.4	10,946.3	111.8	106.2	62.28	5,981.9	2,975.3	4,843.6	4,646.9	196.68	24.627		
19,400.0	13,200.0	17,033.4	10,946.0	113.3	107.8	62.28	6,081.9	2,974.5	4,843.8	4,644.3	199.46	24.284		
19,500.0	13,200.0	17,133.4	10,945.7	114.8	109.3	62.28	6,181.9	2,973.8	4,843.9	4,641.7	202.25	23.951		
19,600.0	13,200.0	17,233.4	10,945.3	116.3	110.9	62.27	6,281.9	2,973.0	4,844.1	4,639.0	205.04	23.625		
19,700.0	13,200.0	17,333.4	10,945.0	117.8	112.4	62.27	6,381.9	2,972.2	4,844.2	4,636.4	207.84	23.308		
19,800.0	13,200.0	17,433.4	10,944.7	119.3	114.0	62.27	6,481.9	2,971.4	4,844.3	4,633.7	210.64	22.998		
19,900.0	13,200.0	17,533.4	10,944.4	120.8	115.5	62.26	6,581.9	2,970.7	4,844.5	4,631.0	213.45	22.696		
20,000.0	13,200.0	17,633.4	10,944.0	122.3	117.1	62.26	6,681.9	2,969.9	4,844.6	4,628.4	216.27	22.401		
20,100.0	13,200.0	17,733.4	10,943.7	123.8	118.6	62.26	6,781.9	2,969.1	4,844.8	4,625.7	219.09	22.113		
20,200.0	13,200.0	17,833.4	10,943.4	125.3	120.2	62.25	6,881.8	2,968.3	4,844.9	4,623.0	221.91	21.832		
20,300.0	13,200.0	17,933.4	10,943.1	126.8	121.8	62.25	6,981.8	2,967.5	4,845.1	4,620.3	224.75	21.558		
20,400.0	13,200.0	18,033.4	10,942.7	128.4	123.3	62.25	7,081.8	2,966.8	4,845.2	4,617.6	227.58	21.290		
20,500.0	13,200.0	18,133.4	10,942.4	129.9	124.9	62.24	7,181.8	2,966.0	4,845.4	4,614.9	230.42	21.028		
20,600.0	13,200.0	18,233.4	10,942.1	131.4	126.5	62.24	7,281.8	2,965.2	4,845.5	4,612.2	233.27	20.772		
20,700.0	13,200.0	18,333.4	10,941.8	132.9	128.1	62.24	7,381.8	2,964.4	4,845.7	4,609.5	236.11	20.522		
20,800.0	13,200.0	18,433.4	10,941.5	134.5	129.6	62.23	7,481.8	2,963.6	4,845.8	4,606.8	238.97	20.278		
20,900.0	13,200.0	18,533.4	10,941.1	136.0	131.2	62.23	7,581.8	2,962.9	4,845.9	4,604.1	241.82	20.039		
21,000.0	13,200.0	18,633.4	10,940.8	137.6	132.8	62.23	7,681.8	2,962.1	4,846.1	4,601.4	244.69	19.805		
21,100.0	13,200.0	18,733.4	10,940.5	139.1	134.4	62.22	7,781.8	2,961.3	4,846.2	4,598.7	247.55	19.577		
21,200.0	13,200.0	18,833.4	10,940.2	140.7	136.0	62.22	7,881.8	2,960.5	4,846.4	4,596.0	250.42	19.353		
21,300.0	13,200.0	18,933.4	10,939.8	142.2	137.6	62.22	7,981.8	2,959.7	4,846.5	4,593.2	253.29	19.134		
21,400.0	13,200.0	19,033.4	10,939.5	143.8	139.2	62.21	8,081.8	2,959.0	4,846.7	4,590.5	256.16	18.920		
21,500.0	13,200.0	19,133.4	10,939.2	145.3	140.7	62.21	8,181.8	2,958.2	4,846.8	4,587.8	259.04	18.711		
21,600.0	13,200.0	19,233.4	10,938.9	146.9	142.3	62.21	8,281.8	2,957.4	4,847.0	4,585.0	261.92	18.505		
21,700.0	13,200.0	19,333.4	10,938.5	148.4	143.9	62.20	8,381.8	2,956.6	4,847.1	4,582.3	264.80	18.305		
21,800.0	13,200.0	19,433.4	10,938.2	150.0	145.5	62.20	8,481.8	2,955.9	4,847.2	4,579.6	267.69	18.108		
21,900.0	13,200.0	19,533.4	10,937.9	151.5	147.1	62.20	8,581.8	2,955.1	4,847.4	4,576.8	270.58	17.915		
22,000.0	13,200.0	19,633.4	10,937.6	153.1	148.7	62.19	8,681.8	2,954.3	4,847.5	4,574.1	273.47	17.726		
22,100.0	13,200.0	19,733.4	10,937.3	154.7	150.3	62.19	8,781.8	2,953.5	4,847.7	4,571.3	276.36	17.541		
22,200.0	13,200.0	19,833.4	10,936.9	156.2	151.9	62.19	8,881.8	2,952.7	4,847.8	4,568.6	279.26	17.359		
22,300.0	13,200.0	19,933.4	10,936.6	157.8	153.5	62.18	8,981.8	2,952.0	4,848.0	4,565.8	282.16	17.182		
22,400.0	13,200.0	20,033.4	10,936.3	159.4	155.1	62.18	9,081.8	2,951.2	4,848.1	4,563.1	285.06	17.007		
22,500.0	13,200.0	20,133.4	10,936.0	161.0	156.7	62.18	9,181.8	2,950.4	4,848.3	4,560.3	287.96	16.836		
22,600.0	13,200.0	20,233.4	10,935.6	162.5	158.3	62.17	9,281.7	2,949.6	4,848.4	4,557.5	290.87	16.669		
22,700.0	13,200.0	20,333.4	10,935.3	164.1	159.9	62.17	9,381.7	2,948.8	4,848.6	4,554.8	293.78	16.504		
22,800.0	13,200.0	20,433.4	10,935.0	165.7	161.6	62.16	9,481.7	2,948.1	4,848.7	4,552.0	296.69	16.343		
22,900.0	13,200.0	20,533.4	10,934.7	167.3	163.2	62.16	9,581.7	2,947.3	4,848.8	4,549.2	299.60	16.184		
23,000.0	13,200.0	20,633.4	10,934.3	168.9	164.8	62.16	9,681.7	2,946.5	4,849.0	4,546.5	302.51	16.029		
23,100.0	13,200.0	20,733.4	10,934.0	170.4	166.4	62.15	9,781.7	2,945.7	4,849.1	4,543.7	305.43	15.876		
23,200.0	13,200.0	20,833.4	10,933.7	172.0	168.0	62.15	9,881.7	2,944.9	4,849.3	4,540.9	308.35	15.727		
23,300.0	13,200.0	20,933.4	10,933.4	173.6	169.6	62.15	9,981.7	2,944.2	4,849.4	4,538.2	311.27	15.580		
23,400.0	13,200.0	21,033.4	10,933.1	175.2	171.2	62.14	10,081.7	2,943.4	4,849.6	4,535.4	314.19	15.435		
23,504.9	13,200.0	21,138.3	10,932.7	176.9	172.9	62.14	10,186.6	2,942.6	4,849.7	4,532.5	317.25	15.287 SF		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 76-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.66	-1.3	-110.2	110.2					
100.0	100.0	100.6	100.6	0.1	0.2	-90.54	-1.0	-109.8	109.8	109.5	0.31	359.245		
200.0	200.0	200.4	200.4	0.5	0.5	-90.09	-0.2	-109.3	109.3	108.3	1.02	107.490		
300.0	300.0	300.3	300.2	0.8	0.9	-89.17	1.6	-109.0	109.0	107.3	1.73	62.948		
400.0	400.0	400.2	400.2	1.2	1.2	-88.17	3.5	-108.8	108.8	106.4	2.45	44.452		
466.5	466.5	466.6	466.5	1.4	1.5	-87.52	4.7	-108.6	108.7	105.8	2.92	37.193		
500.0	500.0	499.8	499.8	1.6	1.6	-87.27	5.2	-108.7	108.8	105.6	3.16	34.403		
600.0	600.0	599.9	599.8	1.9	2.0	-86.86	6.0	-108.9	109.1	105.2	3.88	28.149		
700.0	700.0	699.7	699.6	2.3	2.3	-86.36	6.9	-109.0	109.2	104.6	4.59	23.809		
800.0	800.0	799.3	799.2	2.6	2.7	-86.22	7.2	-109.6	109.8	104.5	5.29	20.741		
900.0	900.0	898.7	898.6	3.0	3.0	-86.12	7.5	-110.4	110.7	104.7	6.00	18.451		
1,000.0	1,000.0	998.6	998.5	3.4	3.4	-85.66	8.5	-111.8	112.1	105.4	6.71	16.701		
1,100.0	1,100.0	1,099.0	1,098.9	3.7	3.7	-85.22	9.4	-112.8	113.2	105.8	7.43	15.244		
1,200.0	1,200.0	1,199.3	1,199.2	4.1	4.1	-84.75	10.4	-113.6	114.1	105.9	8.14	14.007		
1,300.0	1,300.0	1,299.6	1,299.5	4.4	4.4	-84.22	11.5	-114.1	114.7	105.8	8.86	12.939		
1,400.0	1,400.0	1,400.0	1,399.9	4.8	4.8	-83.70	12.6	-114.2	114.9	105.3	9.58	11.998		
1,500.0	1,500.0	1,500.0	1,499.9	5.1	5.1	-83.21	13.6	-114.2	115.0	104.7	10.29	11.172		
1,600.0	1,600.0	1,600.0	1,599.9	5.5	5.5	-82.82	14.4	-114.2	115.1	104.1	11.01	10.452		
1,700.0	1,700.0	1,700.3	1,700.2	5.9	5.9	-82.49	15.0	-114.0	115.0	103.3	11.72	9.811		
1,800.0	1,800.0	1,800.6	1,800.5	6.2	6.2	-82.19	15.6	-113.7	114.7	102.3	12.44	9.224		
1,900.0	1,900.0	1,900.7	1,900.6	6.6	6.6	-81.94	16.0	-113.1	114.2	101.1	13.14	8.692		
2,000.0	2,000.0	2,000.9	2,000.7	6.9	6.9	-81.76	16.3	-112.5	113.7	99.8	13.85	8.205		
2,100.0	2,100.0	2,101.1	2,100.9	7.3	7.3	-81.58	16.5	-111.7	112.9	98.4	14.56	7.756		
2,200.0	2,200.0	2,201.2	2,201.1	7.7	7.6	-81.38	16.8	-110.7	112.0	96.7	15.26	7.337		
2,300.0	2,300.0	2,301.2	2,301.0	8.0	8.0	-81.14	17.1	-109.7	111.1	95.1	15.97	6.953		
2,400.0	2,400.0	2,401.1	2,401.0	8.4	8.3	-80.86	17.5	-108.7	110.1	93.5	16.68	6.603		
2,500.0	2,500.0	2,501.2	2,501.0	8.7	8.7	-80.52	18.0	-107.7	109.2	91.8	17.39	6.281		
2,600.0	2,600.0	2,601.3	2,601.1	9.1	9.0	-80.10	18.6	-106.7	108.3	90.2	18.10	5.981		
2,700.0	2,700.0	2,701.6	2,701.4	9.4	9.4	-79.61	19.3	-105.3	107.1	88.3	18.82	5.691		
2,800.0	2,800.0	2,801.7	2,801.5	9.8	9.7	-79.04	20.1	-103.8	105.7	86.2	19.53	5.413		
2,900.0	2,900.0	2,901.6	2,901.4	10.2	10.1	-78.37	21.0	-102.2	104.3	84.1	20.24	5.154		
3,000.0	3,000.0	3,001.4	3,001.2	10.5	10.4	-77.71	21.9	-100.7	103.1	82.1	20.95	4.918		
3,100.0	3,100.0	3,101.1	3,100.9	10.9	10.8	-77.34	22.4	-99.6	102.1	80.4	21.67	4.711		
3,200.0	3,200.0	3,202.0	3,201.8	11.2	11.1	-77.06	22.6	-98.3	100.8	78.5	22.38	4.506		
3,300.0	3,300.0	3,303.1	3,302.8	11.6	11.5	-76.44	23.1	-95.8	98.5	75.5	23.09	4.269		
3,400.0	3,400.0	3,402.1	3,401.8	12.0	11.9	-75.36	24.3	-93.0	96.2	72.4	23.80	4.041		
3,500.0	3,500.0	3,501.2	3,500.8	12.3	12.2	-73.70	26.6	-91.0	94.8	70.3	24.52	3.868		
3,526.8	3,526.8	3,527.2	3,526.8	12.4	12.3	-73.27	27.3	-90.7	94.7	70.0	24.70	3.835		
3,600.0	3,600.0	3,598.6	3,598.2	12.7	12.5	-72.52	28.7	-91.0	95.4	70.2	25.21	3.785		
3,700.0	3,700.0	3,697.4	3,697.0	13.0	12.9	-72.42	29.6	-93.6	98.2	72.3	25.90	3.791		
3,800.0	3,800.0	3,797.6	3,797.1	13.4	13.2	-72.71	30.0	-96.5	101.2	74.6	26.60	3.802		
3,900.0	3,900.0	3,898.0	3,897.5	13.8	13.6	-73.25	29.9	-99.4	103.8	76.5	27.31	3.802		
4,000.0	4,000.0	3,998.3	3,997.7	14.1	13.9	-74.03	29.2	-102.0	106.1	78.1	28.00	3.788		
4,100.0	4,100.0	4,098.5	4,097.9	14.5	14.2	-75.12	27.8	-104.5	108.2	79.5	28.70	3.768		
4,200.0	4,200.0	4,198.6	4,198.0	14.8	14.6	-76.40	25.9	-106.9	110.0	80.6	29.40	3.743		
4,300.0	4,300.0	4,298.2	4,297.5	15.2	14.9	-77.73	23.8	-109.5	112.1	82.0	30.09	3.724		
4,400.0	4,400.0	4,397.3	4,396.5	15.5	15.3	-79.07	21.7	-112.4	114.6	83.8	30.78	3.722		
4,500.0	4,500.0	4,495.9	4,495.0	15.9	15.6	-80.51	19.5	-116.5	118.2	86.7	31.46	3.756		
4,600.0	4,600.0	4,595.8	4,594.8	16.3	15.9	-81.86	17.4	-121.2	122.6	90.4	32.16	3.811		
4,700.0	4,700.0	4,696.5	4,695.4	16.6	16.3	-82.51	16.5	-125.3	126.5	93.6	32.87	3.848		
4,800.0	4,800.0	4,796.7	4,795.6	17.0	16.6	-82.68	16.5	-128.8	130.0	96.4	33.58	3.870		
4,900.0	4,900.0	4,896.8	4,895.6	17.3	17.0	-82.84	16.6	-132.2	133.3	99.0	34.29	3.888		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 76-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	5,000.0	4,996.9	4,995.7	17.7	17.3	-82.95	16.8	-135.5	136.6	101.6	35.00	3.902		
5,100.0	5,100.0	5,095.9	5,094.5	18.1	17.7	-83.06	16.9	-138.8	140.0	104.3	35.69	3.922		
5,200.0	5,200.0	5,193.9	5,192.4	18.4	18.0	-83.57	16.2	-143.4	144.5	108.1	36.37	3.973		
5,300.0	5,300.0	5,290.7	5,289.1	18.8	18.4	-84.56	14.2	-149.6	150.7	113.7	37.02	4.071		
5,400.0	5,400.0	5,387.9	5,385.8	19.1	18.7	-86.00	11.0	-157.9	158.9	121.3	37.67	4.219		
5,500.0	5,500.0	5,486.6	5,484.0	19.5	19.1	-87.76	6.5	-167.2	168.1	129.8	38.35	4.385		
5,600.0	5,600.0	5,585.5	5,582.2	19.8	19.4	-89.71	0.9	-177.1	178.0	138.9	39.03	4.559		
5,700.0	5,700.0	5,684.8	5,680.9	20.2	19.8	-91.63	-5.3	-187.0	188.0	148.3	39.73	4.733		
5,800.0	5,800.0	5,784.3	5,779.6	20.6	20.1	-93.42	-11.8	-196.9	198.3	157.8	40.42	4.905		
5,900.0	5,900.0	5,884.0	5,878.6	20.9	20.5	-95.00	-18.1	-206.7	208.5	167.4	41.13	5.071		
6,000.0	6,000.0	5,982.0	5,976.0	21.3	20.8	-96.37	-24.1	-216.3	219.0	177.2	41.80	5.239		
6,100.0	6,100.0	6,078.4	6,071.6	21.6	21.2	-97.73	-30.8	-226.8	230.6	188.2	42.43	5.435		
6,200.0	6,200.0	6,176.4	6,168.6	22.0	21.5	-99.11	-38.2	-238.3	243.4	200.3	43.10	5.647		
6,300.0	6,300.0	6,276.0	6,267.3	22.4	21.9	-100.37	-45.8	-250.0	256.2	212.4	43.82	5.848		
6,400.0	6,400.0	6,374.6	6,364.9	22.7	22.3	-101.46	-53.0	-261.5	269.1	224.6	44.50	6.046		
6,500.0	6,500.0	6,472.7	6,462.0	23.1	22.6	-102.28	-59.5	-273.4	282.3	237.1	45.18	6.248		
6,600.0	6,600.0	6,572.3	6,560.7	23.4	23.0	-102.89	-65.4	-285.7	295.8	249.9	45.90	6.444		
6,700.0	6,700.0	6,672.5	6,660.0	23.8	23.4	-103.36	-70.8	-298.0	308.9	262.3	46.63	6.624		
6,800.0	6,800.0	6,772.5	6,759.2	24.1	23.8	-103.73	-75.8	-310.0	321.7	274.3	47.36	6.793		
6,900.0	6,900.0	6,872.6	6,858.5	24.5	24.1	-104.06	-80.5	-321.7	334.2	286.2	48.08	6.952		
7,000.0	7,000.0	6,973.2	6,958.3	24.9	24.5	-104.47	-85.9	-333.0	346.5	297.7	48.81	7.098		
7,100.0	7,100.0	7,074.1	7,058.4	25.2	24.9	0.38	-92.8	-343.6	357.4	307.9	49.53	7.216		
7,200.0	7,200.0	7,175.8	7,159.3	25.5	25.3	-0.32	-100.1	-353.5	366.2	316.0	50.26	7.287		
7,300.0	7,299.9	7,276.0	7,258.9	25.9	25.7	-0.95	-107.0	-362.9	372.7	321.8	50.95	7.315		
7,400.0	7,399.7	7,370.2	7,352.3	26.2	26.0	-1.58	-114.0	-372.3	378.4	326.9	51.55	7.341		
7,500.0	7,499.4	7,466.2	7,447.3	26.6	26.4	-2.30	-122.1	-383.1	383.8	331.7	52.17	7.357		
7,600.0	7,598.9	7,568.5	7,548.7	26.9	26.8	-3.13	-131.3	-394.3	387.5	334.6	52.90	7.325		
7,700.0	7,698.3	7,670.0	7,649.2	27.2	27.2	-4.01	-140.4	-404.8	389.0	335.3	53.62	7.254		
7,800.0	7,797.4	7,770.0	7,748.4	27.6	27.6	-4.68	-148.1	-415.5	388.6	334.2	54.32	7.154		
7,900.0	7,896.3	7,871.6	7,849.2	27.9	28.0	-5.16	-154.3	-426.7	386.3	331.3	55.04	7.019		
8,000.0	7,994.9	7,974.6	7,951.4	28.3	28.4	-5.65	-160.2	-437.5	381.6	325.9	55.79	6.841		
8,100.0	8,093.3	8,073.3	8,049.5	28.6	28.7	-6.18	-165.8	-447.3	374.8	318.3	56.46	6.638		
8,182.6	8,174.2	8,153.0	8,128.5	28.9	29.0	-6.69	-170.7	-455.7	368.4	311.4	56.99	6.465		
8,200.0	8,191.3	8,169.8	8,145.2	29.0	29.1	-6.81	-171.8	-457.5	367.0	309.9	57.10	6.428		
8,300.0	8,289.1	8,267.7	8,242.2	29.4	29.5	-7.51	-178.4	-468.3	359.5	301.7	57.77	6.223		
8,400.0	8,387.0	8,366.2	8,339.8	29.7	29.9	-8.25	-185.2	-479.6	352.3	293.8	58.44	6.028		
8,500.0	8,484.9	8,465.9	8,438.7	30.1	30.3	-8.99	-192.0	-491.2	345.3	286.2	59.14	5.839		
8,600.0	8,582.8	8,566.1	8,538.0	30.5	30.7	-9.62	-198.0	-503.1	338.3	278.5	59.86	5.653		
8,700.0	8,680.6	8,667.3	8,638.4	30.9	31.1	-10.20	-203.4	-515.1	331.1	270.5	60.59	5.464		
8,800.0	8,778.5	8,768.7	8,738.9	31.2	31.5	-10.82	-208.7	-526.7	323.3	262.0	61.33	5.272		
8,900.0	8,876.4	8,869.9	8,839.4	31.6	31.9	-11.51	-214.0	-537.6	315.1	253.1	62.06	5.077		
9,000.0	8,974.3	8,971.0	8,939.8	32.0	32.3	-12.32	-219.4	-547.9	306.5	243.7	62.80	4.880		
9,100.0	9,072.1	9,071.1	9,039.3	32.4	32.6	-13.12	-224.4	-557.9	297.5	234.0	63.52	4.684		
9,200.0	9,170.0	9,172.1	9,139.7	32.8	33.0	-13.92	-229.0	-567.9	288.4	224.1	64.26	4.488		
9,300.0	9,267.9	9,274.8	9,241.8	33.2	33.4	-14.98	-234.1	-576.8	278.3	213.3	65.02	4.281		
9,400.0	9,365.8	9,377.5	9,344.2	33.6	33.8	-16.41	-239.6	-583.9	267.3	201.5	65.78	4.063		
9,500.0	9,463.7	9,480.7	9,447.1	34.0	34.2	-17.96	-244.3	-589.9	254.9	188.3	66.55	3.830		
9,600.0	9,561.5	9,584.5	9,550.7	34.4	34.6	-19.60	-247.7	-594.6	240.9	173.6	67.30	3.580		
9,700.0	9,659.4	9,688.4	9,654.6	34.8	34.9	-21.36	-249.4	-597.6	225.0	156.9	68.03	3.307		
9,800.0	9,757.3	9,789.1	9,755.2	35.2	35.3	-23.30	-249.8	-599.1	207.4	138.6	68.75	3.016		
9,900.0	9,855.2	9,888.5	9,854.7	35.6	35.6	-25.72	-250.0	-599.7	189.3	119.8	69.49	2.724		
10,000.0	9,953.0	9,986.1	9,952.3	36.0	36.0	-28.76	-250.4	-599.8	171.2	101.0	70.26	2.437		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 76-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,050.9	10,083.5	10,049.6	36.4	36.3	-32.66	-251.3	-599.7	154.1	83.1	71.07	2.169		
10,200.0	10,148.8	10,181.9	10,148.0	36.9	36.6	-37.63	-252.5	-599.5	138.0	66.0	71.92	1.918		
10,300.0	10,246.7	10,280.3	10,246.4	37.3	37.0	-43.86	-253.2	-599.0	122.6	49.8	72.83	1.684		
10,400.0	10,344.6	10,378.7	10,344.9	37.7	37.3	-51.86	-253.7	-598.0	108.6	34.8	73.84	1.471 Level 3		
10,500.0	10,442.4	10,476.8	10,443.0	38.1	37.6	-62.21	-253.7	-596.4	96.8	21.9	74.96	1.292 Level 3		
10,600.0	10,540.3	10,574.8	10,540.9	38.5	37.9	-74.53	-253.3	-595.2	88.6	12.4	76.10	1.164 Level 2		
10,700.0	10,638.2	10,673.2	10,639.3	39.0	38.2	-87.94	-252.4	-595.0	84.4	7.3	77.12	1.094 Level 2		
10,737.9	10,675.2	10,710.0	10,676.1	39.1	38.4	-92.94	-252.1	-595.3	84.1	6.6	77.46	1.085 Level 2, CC, ES, SF		
10,800.0	10,736.1	10,771.0	10,737.1	39.4	38.6	-100.84	-251.8	-596.3	84.9	7.0	77.92	1.090 Level 2		
10,900.0	10,833.9	10,869.5	10,835.6	39.8	38.9	-112.11	-251.8	-599.1	89.3	10.8	78.50	1.138 Level 2		
11,000.0	10,931.8	10,967.3	10,933.3	40.2	39.3	-122.58	-251.1	-600.9	97.1	18.2	78.93	1.230 Level 2		
11,100.0	11,029.7	11,064.5	11,030.5	40.7	39.6	-132.18	-249.4	-601.0	108.6	29.3	79.25	1.370 Level 3		
11,200.0	11,127.6	11,162.0	11,128.0	41.1	39.9	-139.68	-248.2	-601.0	123.0	43.4	79.62	1.545		
11,300.0	11,225.5	11,259.4	11,225.4	41.5	40.3	-145.11	-248.0	-601.2	139.1	59.1	80.07	1.738		
11,400.0	11,323.3	11,356.5	11,322.5	42.0	40.6	-148.95	-249.1	-601.2	156.8	76.2	80.59	1.945		
11,500.0	11,421.2	11,461.9	11,427.2	42.4	40.9	-155.79	-239.4	-601.1	173.2	92.1	81.10	2.136		
11,523.5	11,444.2	11,485.5	11,450.1	42.5	41.0	-158.21	-233.9	-601.2	176.8	95.7	81.15	2.179		
11,600.0	11,519.2	11,557.0	11,517.5	42.8	41.2	-167.08	-210.0	-601.8	189.8	108.6	81.22	2.337		
11,700.0	11,617.7	11,639.9	11,590.8	43.3	41.4	-178.82	-171.5	-603.2	213.1	132.5	80.62	2.643		
11,800.0	11,716.7	11,718.4	11,656.2	43.7	41.6	170.34	-128.1	-605.7	245.9	166.7	79.25	3.103		
11,900.0	11,815.9	11,780.1	11,704.7	44.1	41.7	162.66	-90.2	-608.1	288.3	212.1	76.26	3.781		
12,000.0	11,915.5	11,831.8	11,742.4	44.4	41.7	156.88	-54.9	-609.6	341.0	268.6	72.43	4.709		
12,100.0	12,015.2	11,879.9	11,775.2	44.8	41.8	152.30	-19.8	-610.4	401.6	332.7	68.82	5.835		
12,200.0	12,115.1	11,919.0	11,800.5	45.2	41.9	149.28	10.1	-610.5	467.8	402.7	65.15	7.180		
12,300.0	12,215.1	11,961.3	11,826.3	45.5	41.9	146.48	43.6	-610.3	538.4	475.8	62.51	8.613		
12,311.9	12,227.0	11,965.6	11,828.8	45.5	41.9	40.75	47.1	-610.3	547.0	484.8	62.17	8.798		
12,400.0	12,315.1	11,995.3	11,845.7	45.8	41.9	38.45	71.6	-610.1	612.9	553.0	59.87	10.237		
12,500.0	12,415.1	12,014.0	11,855.8	46.2	41.9	37.09	87.3	-610.0	691.4	634.6	56.83	12.166		
12,600.0	12,515.1	12,046.8	11,872.5	46.5	42.0	34.84	115.5	-609.8	773.0	717.6	55.38	13.958		
12,700.0	12,615.1	12,066.8	11,881.8	46.9	42.0	33.54	133.2	-609.7	857.4	803.8	53.58	16.001		
12,711.9	12,627.0	12,069.0	11,882.8	46.9	42.0	33.40	135.1	-609.7	867.5	814.1	53.39	16.249		
12,750.0	12,665.1	12,076.2	11,886.0	47.0	42.0	50.03	141.7	-609.7	900.0	847.2	52.78	17.052		
12,800.0	12,714.8	12,109.0	11,899.4	47.2	42.0	43.40	171.6	-609.9	942.4	889.3	53.13	17.738		
12,850.0	12,763.8	12,109.0	11,899.4	47.4	42.0	39.02	171.6	-609.9	982.4	930.6	51.77	18.976		
12,900.0	12,811.8	12,109.0	11,899.4	47.5	42.0	35.29	171.6	-609.9	1,021.2	970.8	50.46	20.240		
12,950.0	12,858.3	12,109.0	11,899.4	47.7	42.0	32.13	171.6	-609.9	1,058.8	1,009.6	49.21	21.517		
13,000.0	12,903.1	12,109.0	11,899.4	47.8	42.0	29.45	171.6	-609.9	1,094.9	1,046.9	48.04	22.794		
13,050.0	12,945.8	12,142.1	11,911.0	48.0	42.0	27.32	202.5	-610.1	1,128.0	1,079.8	48.15	23.426		
13,100.0	12,986.1	12,153.8	11,914.6	48.1	42.0	25.56	213.7	-610.1	1,159.6	1,112.2	47.47	24.428		
13,150.0	13,023.7	12,165.8	11,918.0	48.3	42.1	24.11	225.2	-610.2	1,189.1	1,142.3	46.85	25.379		
13,200.0	13,058.2	12,204.0	11,926.9	48.4	42.2	23.15	262.3	-610.4	1,217.3	1,170.2	47.09	25.851		
13,250.0	13,089.4	12,204.0	11,926.9	48.5	42.2	22.09	262.3	-610.4	1,241.5	1,195.3	46.22	26.860		
13,300.0	13,117.2	12,204.0	11,926.9	48.7	42.2	21.18	262.3	-610.4	1,263.7	1,218.2	45.51	27.764		
13,350.0	13,141.1	12,204.0	11,926.9	48.8	42.2	20.40	262.3	-610.4	1,283.8	1,238.8	44.99	28.536		
13,400.0	13,161.2	12,244.5	11,934.0	48.9	42.3	20.27	302.1	-610.7	1,300.5	1,255.1	45.37	28.662		
13,450.0	13,177.2	12,266.1	11,937.2	49.1	42.4	20.04	323.5	-610.9	1,314.5	1,269.1	45.44	28.926		
13,500.0	13,189.1	12,297.0	11,941.0	49.2	42.5	20.07	354.2	-611.4	1,325.7	1,279.9	45.74	28.982		
13,550.0	13,196.6	12,314.2	11,942.8	49.4	42.6	20.04	371.3	-611.6	1,333.7	1,287.8	45.92	29.047		
13,600.0	13,199.8	12,343.8	11,945.6	49.6	42.7	20.31	400.8	-612.2	1,338.6	1,292.2	46.35	28.881		
13,611.9	13,200.0	12,350.8	11,946.2	49.6	42.7	20.40	407.8	-612.3	1,339.2	1,292.8	46.46	28.825		
13,700.0	13,200.0	12,403.7	11,950.0	50.0	42.9	21.27	460.5	-613.4	1,344.4	1,297.0	47.35	28.392		
13,800.0	13,200.0	12,466.4	11,952.8	50.4	43.1	22.21	523.1	-614.8	1,351.9	1,303.5	48.42	27.922		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 76-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	13,200.0	12,544.3	11,954.4	50.9	43.5	23.22	601.0	-616.9	1,360.6	1,311.0	49.57	27.447		
14,000.0	13,200.0	12,635.7	11,955.4	51.4	43.9	24.21	692.3	-619.7	1,369.2	1,318.4	50.76	26.972		
14,100.0	13,200.0	12,744.5	11,956.4	52.0	44.5	25.16	801.1	-623.5	1,376.5	1,324.5	52.03	26.458		
14,200.0	13,200.0	12,821.6	11,957.7	52.6	44.9	25.78	878.1	-625.5	1,382.5	1,329.4	53.07	26.048		
14,300.0	13,200.0	12,902.6	11,958.7	53.2	45.4	26.44	959.1	-624.3	1,389.1	1,334.9	54.21	25.626		
14,400.0	13,200.0	12,994.9	11,959.7	53.8	46.0	27.06	1,051.4	-622.4	1,394.7	1,339.3	55.39	25.177		
14,500.0	13,200.0	13,082.9	11,959.6	54.5	46.6	27.50	1,139.4	-620.7	1,399.8	1,343.3	56.48	24.784		
14,600.0	13,200.0	13,184.8	11,959.2	55.1	47.4	27.82	1,241.2	-619.2	1,403.4	1,345.8	57.61	24.362		
14,687.2	13,200.0	13,266.6	11,958.4	55.7	48.0	27.92	1,323.0	-618.7	1,405.4	1,346.9	58.45	24.043		
14,700.0	13,200.0	13,278.3	11,958.2	55.8	48.1	27.92	1,334.7	-618.7	1,405.6	1,347.1	58.57	24.000		
14,800.0	13,200.0	13,367.5	11,956.0	56.5	48.8	27.88	1,423.9	-619.3	1,407.8	1,348.4	59.45	23.681		
14,900.0	13,200.0	13,535.8	11,953.1	57.3	50.3	27.81	1,592.1	-621.1	1,410.0	1,348.9	61.13	23.065		
15,000.0	13,200.0	13,621.1	11,953.6	58.1	51.1	27.78	1,677.4	-622.9	1,408.8	1,346.7	62.07	22.695		
15,100.0	13,200.0	13,709.4	11,953.1	58.9	52.0	27.68	1,765.7	-626.0	1,408.0	1,345.0	63.03	22.339		
15,115.7	13,200.0	13,720.4	11,953.0	59.0	52.1	27.67	1,776.6	-626.4	1,408.0	1,344.8	63.15	22.295		
15,200.0	13,200.0	13,780.8	11,952.0	59.7	52.7	27.62	1,837.0	-627.7	1,408.7	1,344.8	63.87	22.056		
15,300.0	13,200.0	13,867.1	11,950.1	60.6	53.5	27.61	1,923.3	-627.6	1,411.0	1,346.1	64.97	21.719		
15,400.0	13,200.0	13,965.0	11,947.3	61.6	54.6	27.58	2,021.1	-627.7	1,413.8	1,347.6	66.20	21.358		
15,500.0	13,200.0	14,099.4	11,944.5	62.5	56.0	27.51	2,155.5	-629.3	1,415.5	1,347.7	67.86	20.861		
15,600.0	13,200.0	14,193.7	11,943.3	63.5	57.0	27.45	2,249.8	-631.1	1,416.1	1,347.0	69.09	20.495		
15,700.0	13,200.0	14,288.1	11,940.9	64.5	58.1	27.32	2,344.1	-634.1	1,417.3	1,347.0	70.30	20.161		
15,800.0	13,200.0	14,415.9	11,939.2	65.5	59.6	27.17	2,471.8	-638.5	1,417.2	1,345.3	71.93	19.701		
15,900.0	13,200.0	14,527.0	11,940.6	66.6	60.9	27.19	2,582.9	-639.4	1,416.1	1,342.5	73.58	19.245		
16,000.0	13,200.0	14,627.6	11,941.7	67.7	62.1	27.16	2,683.5	-641.6	1,414.4	1,339.3	75.05	18.845		
16,083.5	13,200.0	14,688.5	11,941.9	68.6	62.9	27.12	2,744.3	-643.2	1,413.5	1,337.6	75.96	18.608		
16,100.0	13,200.0	14,699.1	11,941.9	68.8	63.0	27.13	2,755.0	-643.2	1,413.6	1,337.4	76.14	18.567		
16,200.0	13,200.0	14,772.9	11,941.8	69.9	63.9	27.21	2,828.7	-641.4	1,415.2	1,337.8	77.41	18.283		
16,300.0	13,200.0	14,869.0	11,940.6	71.1	65.1	27.29	2,924.8	-639.2	1,417.6	1,338.6	79.00	17.944		
16,400.0	13,200.0	14,966.7	11,938.4	72.3	66.3	27.30	3,022.4	-638.7	1,420.2	1,339.7	80.55	17.631		
16,500.0	13,200.0	15,067.5	11,935.4	73.5	67.6	27.25	3,123.2	-639.4	1,422.9	1,340.8	82.11	17.330		
16,600.0	13,200.0	15,163.5	11,932.2	74.7	68.9	27.17	3,219.1	-640.7	1,425.6	1,342.0	83.58	17.057		
16,700.0	13,200.0	15,260.5	11,930.0	75.9	70.1	27.22	3,316.1	-638.9	1,428.8	1,343.6	85.23	16.764		
16,800.0	13,200.0	15,437.9	11,931.1	77.1	72.5	27.42	3,493.4	-635.1	1,429.8	1,341.6	88.28	16.196		
16,900.0	13,200.0	15,539.0	11,935.6	78.4	73.9	27.59	3,594.4	-633.5	1,427.0	1,336.8	90.21	15.819		
17,000.0	13,200.0	15,623.3	11,937.1	79.7	75.0	27.63	3,678.6	-634.0	1,425.5	1,333.8	91.72	15.542		
17,100.0	13,200.0	15,721.3	11,938.1	81.0	76.3	27.61	3,776.6	-635.7	1,424.1	1,330.7	93.39	15.248		
17,200.0	13,200.0	15,805.6	11,937.9	82.3	77.5	27.56	3,860.9	-637.7	1,423.6	1,328.7	94.81	15.014		
17,200.2	13,200.0	15,805.8	11,937.9	82.3	77.5	27.56	3,861.1	-637.7	1,423.6	1,328.7	94.82	15.014		
17,300.0	13,200.0	15,894.9	11,937.4	83.6	78.8	27.54	3,950.2	-638.5	1,424.0	1,327.6	96.37	14.775		
17,400.0	13,200.0	15,987.8	11,936.2	84.9	80.1	27.51	4,043.1	-639.6	1,424.9	1,327.0	97.97	14.544		
17,500.0	13,200.0	16,077.6	11,933.8	86.3	81.3	27.41	4,132.9	-641.7	1,426.6	1,327.1	99.44	14.346		
17,600.0	13,200.0	16,175.9	11,930.1	87.6	82.7	27.24	4,231.0	-645.3	1,428.7	1,327.7	100.95	14.152		
17,700.0	13,200.0	16,286.2	11,926.4	89.0	84.3	27.07	4,341.2	-649.0	1,430.5	1,327.8	102.66	13.934		
17,800.0	13,200.0	16,399.4	11,922.9	90.3	86.0	26.84	4,454.1	-654.7	1,431.3	1,327.0	104.31	13.721		
17,900.0	13,200.0	16,501.6	11,921.1	91.7	87.4	26.70	4,556.3	-658.4	1,431.6	1,325.7	105.94	13.513		
18,000.0	13,200.0	16,589.0	11,920.6	93.1	88.7	26.70	4,643.6	-658.8	1,432.2	1,324.7	107.54	13.318		
18,100.0	13,200.0	16,687.8	11,920.8	94.5	90.1	26.84	4,742.5	-655.8	1,433.8	1,324.3	109.53	13.090		
18,200.0	13,200.0	16,774.5	11,921.5	95.9	91.4	27.00	4,829.0	-652.4	1,435.2	1,323.8	111.38	12.886		
18,300.0	13,200.0	16,854.5	11,920.6	97.3	92.5	27.12	4,909.0	-649.2	1,438.3	1,325.2	113.05	12.722		
18,400.0	13,200.0	16,950.5	11,918.5	98.7	94.0	27.21	5,004.9	-646.3	1,442.0	1,327.0	114.97	12.542		
18,500.0	13,200.0	17,046.4	11,915.5	100.2	95.4	27.25	5,100.8	-644.3	1,446.0	1,329.2	116.81	12.379		
18,600.0	13,200.0	17,152.2	11,911.6	101.6	96.9	27.24	5,206.5	-643.3	1,450.2	1,331.4	118.75	12.212		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 76-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,700.0	13,200.0	17,253.5	11,907.9	103.0	98.4	27.20	5,307.7	-643.4	1,453.7	1,333.1	120.56	12.057		
18,800.0	13,200.0	17,427.1	11,904.4	104.5	101.1	27.06	5,481.2	-646.9	1,455.1	1,331.6	123.42	11.790		
18,900.0	13,200.0	17,526.9	11,905.5	105.9	102.6	27.05	5,580.9	-648.6	1,453.6	1,328.3	125.27	11.604		
19,000.0	13,200.0	17,612.3	11,906.4	107.4	103.8	27.05	5,666.3	-649.6	1,452.5	1,325.6	126.92	11.445		
19,021.8	13,200.0	17,628.6	11,906.3	107.7	104.1	27.05	5,682.7	-649.9	1,452.5	1,325.3	127.23	11.416		
19,100.0	13,200.0	17,710.4	11,905.3	108.9	105.3	26.99	5,764.4	-651.7	1,452.8	1,324.2	128.65	11.293		
19,200.0	13,200.0	17,833.8	11,905.3	110.3	107.2	26.84	5,887.7	-656.9	1,451.2	1,320.6	130.64	11.108		
19,300.0	13,200.0	17,946.2	11,906.5	111.8	108.9	26.75	6,000.0	-660.8	1,449.1	1,316.5	132.57	10.931		
19,400.0	13,200.0	18,030.8	11,907.4	113.3	110.2	26.68	6,084.6	-663.9	1,446.8	1,312.7	134.09	10.790		
19,500.0	13,200.0	18,120.1	11,907.8	114.8	111.6	26.63	6,173.8	-666.2	1,445.6	1,309.9	135.73	10.651		
19,593.2	13,200.0	18,200.2	11,908.1	116.2	112.8	26.63	6,254.0	-667.1	1,445.1	1,307.9	137.27	10.527		
19,600.0	13,200.0	18,205.9	11,908.1	116.3	112.9	26.63	6,259.7	-667.2	1,445.1	1,307.8	137.38	10.519		
19,700.0	13,200.0	18,279.9	11,907.3	117.8	114.0	26.60	6,333.6	-668.1	1,446.0	1,307.2	138.79	10.418		
19,800.0	13,200.0	18,367.3	11,903.8	119.3	115.4	26.50	6,421.0	-669.9	1,448.8	1,308.6	140.27	10.329		
19,900.0	13,200.0	18,473.2	11,901.2	120.8	117.0	26.43	6,526.7	-671.4	1,450.7	1,308.5	142.14	10.206		
20,000.0	13,200.0	18,550.3	11,899.1	122.3	118.2	26.43	6,603.9	-670.8	1,453.9	1,310.2	143.64	10.121		
20,100.0	13,200.0	18,640.2	11,895.2	123.8	119.6	26.40	6,693.7	-670.4	1,458.3	1,313.0	145.30	10.036		
20,200.0	13,200.0	18,755.3	11,889.9	125.3	121.4	26.31	6,808.6	-671.4	1,462.4	1,315.1	147.29	9.928		
20,300.0	13,200.0	18,869.0	11,885.2	126.8	123.1	26.17	6,922.2	-673.9	1,465.5	1,316.3	149.16	9.825		
20,400.0	13,200.0	18,960.3	11,882.5	128.4	124.6	26.13	7,013.4	-674.4	1,468.2	1,317.3	150.84	9.733		
20,500.0	13,200.0	19,055.4	11,879.6	129.9	126.0	26.14	7,108.5	-673.4	1,471.7	1,319.1	152.69	9.639		
20,600.0	13,200.0	19,173.0	11,876.1	131.4	127.9	26.12	7,226.1	-673.2	1,474.8	1,320.0	154.88	9.523		
20,700.0	13,200.0	19,294.7	11,873.6	132.9	129.8	26.04	7,347.7	-675.1	1,476.3	1,319.3	157.00	9.404		
20,800.0	13,200.0	19,389.6	11,871.8	134.5	131.3	25.95	7,442.6	-677.6	1,477.2	1,318.6	158.64	9.312		
20,900.0	13,200.0	19,464.0	11,870.5	136.0	132.4	25.96	7,517.0	-677.3	1,479.3	1,319.2	160.12	9.239		
21,000.0	13,200.0	19,541.7	11,868.7	137.6	133.6	26.03	7,594.6	-675.0	1,483.0	1,321.2	161.78	9.167		
21,100.0	13,200.0	19,697.9	11,868.8	139.1	136.1	26.35	7,750.6	-667.0	1,485.6	1,320.2	165.44	8.980		
21,200.0	13,200.0	19,807.4	11,871.8	140.7	137.7	26.63	7,859.9	-661.2	1,485.8	1,317.6	168.19	8.834		
21,300.0	13,200.0	19,940.9	11,876.6	142.2	139.8	26.96	7,993.1	-655.1	1,485.1	1,313.7	171.44	8.663		
21,400.0	13,200.0	20,034.8	11,880.6	143.8	141.3	27.18	8,086.9	-651.6	1,483.3	1,309.5	173.83	8.533		
21,500.0	13,200.0	20,181.2	11,888.8	145.3	143.6	27.48	8,233.0	-648.2	1,479.6	1,302.5	177.19	8.351		
21,600.0	13,200.0	20,279.0	11,894.8	146.9	145.1	27.61	8,330.6	-648.2	1,474.6	1,295.1	179.48	8.216		
21,700.0	13,200.0	20,353.3	11,898.2	148.4	146.3	27.67	8,404.8	-648.9	1,470.6	1,289.3	181.26	8.113		
21,800.0	13,200.0	20,428.6	11,899.1	150.0	147.5	27.65	8,480.1	-650.6	1,468.6	1,285.8	182.82	8.033		
21,900.0	13,200.0	20,521.6	11,899.3	151.5	149.0	27.57	8,573.0	-653.6	1,467.3	1,282.8	184.50	7.953		
21,940.1	13,200.0	20,549.6	11,899.0	152.2	149.4	27.53	8,601.0	-654.7	1,467.2	1,282.2	185.00	7.931		
22,000.0	13,200.0	20,593.0	11,897.9	153.1	150.1	27.46	8,644.4	-656.6	1,467.5	1,281.8	185.72	7.902		
22,100.0	13,200.0	20,686.2	11,894.3	154.7	151.6	27.26	8,737.4	-661.3	1,469.0	1,281.9	187.05	7.853		
22,200.0	13,200.0	20,761.7	11,890.8	156.2	152.8	27.10	8,812.8	-664.7	1,471.4	1,283.2	188.15	7.820		
22,300.0	13,200.0	20,845.3	11,886.5	157.8	154.1	26.98	8,896.2	-666.6	1,475.3	1,285.8	189.48	7.786		
22,400.0	13,200.0	20,935.5	11,881.9	159.4	155.6	26.91	8,986.3	-666.9	1,480.0	1,289.0	191.06	7.746		
22,500.0	13,200.0	21,028.1	11,876.5	161.0	157.0	26.82	9,078.8	-667.4	1,485.3	1,292.7	192.65	7.710		
22,600.0	13,200.0	21,166.4	11,869.5	162.5	159.2	26.72	9,216.8	-667.9	1,490.2	1,295.1	195.14	7.637		
22,700.0	13,200.0	21,268.7	11,866.7	164.1	160.9	26.71	9,319.1	-667.7	1,493.1	1,296.0	197.12	7.575		
22,800.0	13,200.0	21,379.4	11,863.1	165.7	162.6	26.64	9,429.7	-668.7	1,496.0	1,296.8	199.11	7.513		
22,900.0	13,200.0	21,510.0	11,862.1	167.3	164.7	26.60	9,560.3	-670.3	1,496.3	1,294.8	201.52	7.425		
23,000.0	13,200.0	21,610.9	11,861.1	168.9	166.3	26.53	9,661.2	-672.8	1,496.4	1,293.1	203.29	7.361		
23,100.0	13,200.0	21,721.6	11,859.4	170.4	168.1	26.35	9,771.8	-678.0	1,496.1	1,291.1	204.93	7.300		
23,200.0	13,200.0	21,849.0	11,857.8	172.0	170.2	26.01	9,898.7	-688.0	1,494.0	1,287.7	206.34	7.240		
23,300.0	13,200.0	21,931.9	11,856.0	173.6	171.5	25.74	9,981.3	-695.7	1,492.1	1,284.9	207.27	7.199		
23,400.0	13,200.0	22,036.2	11,853.0	175.2	173.2	25.33	10,084.9	-706.8	1,490.5	1,282.4	208.11	7.162		
23,503.7	13,200.0	22,116.0	11,850.3	176.8	174.5	24.99	10,164.2	-715.8	1,489.1	1,280.3	208.78	7.132		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design	Nina Cortell - Nina Cortell Fed Com #131H - Actual - Actual											Offset Site Error:	0.0 usft
Survey Program:	76-MWD											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
23,504.9	13,200.0	22,116.0	11,850.3	176.9	174.5	24.99	10,164.2	-715.8	1,489.1	1,280.3	208.79	7.132	

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-135.24	-30.1	-29.9	42.4					
100.0	100.0	101.0	101.0	0.1	0.1	-135.24	-30.1	-29.9	42.4	42.2	0.26	163.264		
200.0	200.0	201.0	201.0	0.5	0.5	-135.24	-30.1	-29.9	42.4	41.5	0.98	43.437		
300.0	300.0	301.0	301.0	0.8	0.8	-135.24	-30.1	-29.9	42.4	40.7	1.69	25.051		
400.0	400.0	401.0	401.0	1.2	1.2	-135.24	-30.1	-29.9	42.4	40.0	2.41	17.601		
500.0	500.0	501.0	501.0	1.6	1.6	-135.24	-30.1	-29.9	42.4	39.3	3.13	13.566		
600.0	600.0	601.0	601.0	1.9	1.9	-135.24	-30.1	-29.9	42.4	38.6	3.84	11.036		
700.0	700.0	701.0	701.0	2.3	2.3	-135.24	-30.1	-29.9	42.4	37.9	4.56	9.302		
800.0	800.0	801.0	801.0	2.6	2.6	-135.24	-30.1	-29.9	42.4	37.2	5.28	8.038		
900.0	900.0	901.0	901.0	3.0	3.0	-135.24	-30.1	-29.9	42.4	36.4	6.00	7.077		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-135.24	-30.1	-29.9	42.4	35.7	6.71	6.321		
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-135.24	-30.1	-29.9	42.4	35.0	7.43	5.711		
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-135.24	-30.1	-29.9	42.4	34.3	8.15	5.209		
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-135.24	-30.1	-29.9	42.4	33.6	8.86	4.787		
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-135.24	-30.1	-29.9	42.4	32.9	9.58	4.429		
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-135.24	-30.1	-29.9	42.4	32.1	10.30	4.121		
1,600.0	1,600.0	1,601.4	1,601.4	5.5	5.5	-136.29	-30.3	-29.0	42.0	31.0	11.00	3.815		
1,700.0	1,700.0	1,701.7	1,701.6	5.9	5.8	-139.53	-31.0	-26.4	40.7	29.0	11.70	3.481		
1,800.0	1,800.0	1,801.9	1,801.7	6.2	6.2	-145.33	-32.0	-22.2	39.0	26.6	12.40	3.142		
1,900.0	1,900.0	1,901.9	1,901.5	6.6	6.5	-154.20	-33.5	-16.2	37.2	24.1	13.11	2.840		
1,997.9	1,997.9	1,999.5	1,998.9	6.9	6.9	-166.10	-35.4	-8.8	36.4	22.6	13.80	2.639 CC		
2,000.0	2,000.0	2,001.6	2,001.0	6.9	6.9	-166.38	-35.4	-8.6	36.4	22.6	13.82	2.636 ES		
2,100.0	2,100.0	2,101.1	2,100.0	7.3	7.2	178.94	-37.7	0.7	37.7	23.2	14.52	2.597 SF		
2,200.0	2,200.0	2,200.2	2,198.4	7.7	7.6	163.98	-40.4	11.6	42.1	26.9	15.21	2.768		
2,300.0	2,300.0	2,301.2	2,296.2	8.0	8.0	151.01	-43.5	24.1	49.9	34.0	15.89	3.142		
2,400.0	2,400.0	2,402.1	2,394.3	8.4	8.3	141.32	-46.8	37.5	60.3	43.7	16.58	3.638		
2,500.0	2,500.0	2,503.1	2,492.4	8.7	8.7	134.58	-50.1	50.8	71.9	54.6	17.28	4.162		
2,600.0	2,600.0	2,604.1	2,590.4	9.1	9.1	129.75	-53.4	64.2	84.2	66.2	17.98	4.683		
2,700.0	2,700.0	2,705.1	2,688.5	9.4	9.5	126.17	-56.7	77.6	96.9	78.3	18.69	5.188		
2,800.0	2,800.0	2,794.0	2,786.6	9.8	9.8	123.42	-60.0	91.0	110.0	90.6	19.35	5.682		
2,900.0	2,900.0	2,907.0	2,884.6	10.2	10.3	121.26	-63.4	104.4	123.2	103.1	20.11	6.126		
3,000.0	3,000.0	3,008.0	2,982.7	10.5	10.7	119.52	-66.7	117.7	136.5	115.7	20.82	6.558		
3,100.0	3,100.0	3,109.0	3,080.7	10.9	11.1	118.09	-70.0	131.1	150.0	128.5	21.54	6.965		
3,200.0	3,200.0	3,209.9	3,178.8	11.2	11.5	116.89	-73.3	144.5	163.5	141.3	22.25	7.349		
3,300.0	3,300.0	3,289.1	3,276.9	11.6	11.8	115.88	-76.6	157.9	177.1	154.2	22.89	7.738		
3,400.0	3,400.0	3,388.1	3,374.9	12.0	12.2	115.01	-79.9	171.3	190.8	167.2	23.60	8.083		
3,500.0	3,500.0	3,487.2	3,473.0	12.3	12.6	114.26	-83.2	184.6	204.4	180.1	24.31	8.408		
3,600.0	3,600.0	3,586.2	3,571.1	12.7	13.0	113.61	-86.5	198.0	218.2	193.1	25.03	8.717		
3,700.0	3,700.0	3,685.2	3,669.1	13.0	13.4	113.03	-89.8	211.4	231.9	206.1	25.74	9.008		
3,800.0	3,800.0	3,784.2	3,767.2	13.4	13.8	112.51	-93.2	224.8	245.6	219.2	26.46	9.285		
3,900.0	3,900.0	3,883.3	3,865.3	13.8	14.2	112.05	-96.5	238.1	259.4	232.2	27.17	9.548		
4,000.0	4,000.0	3,982.3	3,963.3	14.1	14.6	111.64	-99.8	251.5	273.2	245.3	27.89	9.797		
4,100.0	4,100.0	4,081.3	4,061.4	14.5	15.0	111.26	-103.1	264.9	287.0	258.4	28.60	10.034		
4,200.0	4,200.0	4,180.3	4,159.4	14.8	15.4	110.92	-106.4	278.3	300.8	271.5	29.32	10.260		
4,300.0	4,300.0	4,279.4	4,257.5	15.2	15.8	110.61	-109.7	291.7	314.6	284.6	30.03	10.476		
4,400.0	4,400.0	4,378.4	4,355.6	15.5	16.2	110.33	-113.0	305.0	328.5	297.7	30.75	10.681		
4,500.0	4,500.0	4,477.4	4,453.6	15.9	16.6	110.07	-116.3	318.4	342.3	310.8	31.47	10.877		
4,600.0	4,600.0	4,576.4	4,551.7	16.3	17.1	109.83	-119.6	331.8	356.1	323.9	32.19	11.065		
4,700.0	4,700.0	4,675.5	4,649.8	16.6	17.5	109.61	-123.0	345.2	370.0	337.1	32.90	11.244		
4,800.0	4,800.0	4,774.5	4,747.8	17.0	17.9	109.40	-126.3	358.5	383.8	350.2	33.62	11.416		
4,900.0	4,900.0	4,873.5	4,845.9	17.3	18.3	109.21	-129.6	371.9	397.7	363.3	34.34	11.581		
5,000.0	5,000.0	4,972.6	4,943.9	17.7	18.7	109.03	-132.9	385.3	411.5	376.5	35.06	11.738		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,071.6	5,042.0	18.1	19.1	108.86	-136.2	398.7	425.4	389.6	35.78	11.890		
5,200.0	5,200.0	5,170.6	5,140.1	18.4	19.5	108.70	-139.5	412.1	439.3	402.8	36.50	12.036		
5,300.0	5,300.0	5,269.6	5,238.1	18.8	19.9	108.56	-142.8	425.4	453.2	415.9	37.22	12.176		
5,400.0	5,400.0	5,368.7	5,336.2	19.1	20.3	108.42	-146.1	438.8	467.0	429.1	37.94	12.311		
5,500.0	5,500.0	5,467.7	5,434.3	19.5	20.7	108.29	-149.4	452.2	480.9	442.2	38.66	12.440		
5,600.0	5,600.0	5,566.7	5,532.3	19.8	21.2	108.16	-152.8	465.6	494.8	455.4	39.38	12.566		
5,700.0	5,700.0	5,665.7	5,630.4	20.2	21.6	108.05	-156.1	479.0	508.7	468.6	40.10	12.686		
5,800.0	5,800.0	5,764.8	5,728.5	20.6	22.0	107.94	-159.4	492.3	522.5	481.7	40.82	12.802		
5,900.0	5,900.0	5,863.8	5,826.5	20.9	22.4	107.83	-162.7	505.7	536.4	494.9	41.54	12.915		
6,000.0	6,000.0	5,962.8	5,924.6	21.3	22.8	107.73	-166.0	519.1	550.3	508.1	42.26	13.023		
6,100.0	6,100.0	6,061.8	6,022.6	21.6	23.2	107.64	-169.3	532.5	564.2	521.2	42.98	13.128		
6,200.0	6,200.0	6,160.9	6,120.7	22.0	23.6	107.55	-172.6	545.8	578.1	534.4	43.70	13.229		
6,300.0	6,300.0	6,259.9	6,218.8	22.4	24.1	107.46	-175.9	559.2	592.0	547.6	44.42	13.327		
6,400.0	6,400.0	6,358.9	6,316.8	22.7	24.5	107.38	-179.2	572.6	605.9	560.7	45.14	13.422		
6,500.0	6,500.0	6,458.0	6,414.9	23.1	24.9	107.30	-182.6	586.0	619.8	573.9	45.86	13.514		
6,600.0	6,600.0	6,557.0	6,513.0	23.4	25.3	107.23	-185.9	599.4	633.7	587.1	46.58	13.603		
6,700.0	6,700.0	6,656.0	6,611.0	23.8	25.7	107.16	-189.2	612.7	647.6	600.3	47.30	13.689		
6,800.0	6,800.0	6,755.0	6,709.1	24.1	26.1	107.09	-192.5	626.1	661.4	613.4	48.02	13.773		
6,900.0	6,900.0	6,854.1	6,807.1	24.5	26.5	107.02	-195.8	639.5	675.3	626.6	48.75	13.854		
7,000.0	7,000.0	6,953.1	6,905.2	24.9	27.0	106.96	-199.1	652.9	689.2	639.8	49.47	13.933		
7,100.0	7,100.0	7,052.0	7,003.2	25.2	27.4	-147.57	-202.4	666.2	703.9	653.7	50.18	14.028		
7,200.0	7,200.0	7,155.2	7,105.3	25.5	27.8	-147.66	-205.9	680.1	719.9	669.0	50.92	14.139		
7,300.0	7,299.9	7,277.1	7,226.5	25.9	28.3	-147.86	-209.3	694.0	735.3	683.5	51.80	14.195		
7,400.0	7,399.7	7,400.0	7,348.9	26.2	28.8	-148.13	-211.8	704.1	748.9	696.3	52.63	14.230		
7,500.0	7,499.4	7,523.6	7,472.3	26.6	29.2	-148.47	-213.4	710.5	760.9	707.5	53.41	14.246		
7,600.0	7,598.9	7,647.9	7,596.5	26.9	29.6	-148.89	-214.0	713.0	771.2	717.0	54.13	14.245		
7,700.0	7,698.3	7,750.6	7,699.3	27.2	29.9	-149.28	-214.0	713.0	780.9	726.1	54.81	14.249		
7,800.0	7,797.4	7,849.7	7,798.4	27.6	30.3	-149.71	-214.0	713.0	792.2	736.7	55.48	14.280		
7,900.0	7,896.3	7,948.6	7,897.3	27.9	30.6	-150.17	-214.0	713.0	805.0	748.9	56.15	14.337		
8,000.0	7,994.9	8,047.3	7,995.9	28.3	30.9	-150.67	-214.0	713.0	819.4	762.6	56.82	14.422		
8,100.0	8,093.3	8,145.6	8,094.3	28.6	31.2	-151.21	-214.0	713.0	835.4	777.9	57.49	14.532		
8,182.6	8,174.2	8,226.5	8,175.2	28.9	31.4	-151.67	-214.0	713.0	849.8	791.8	58.04	14.641		
8,200.0	8,191.3	8,243.6	8,192.3	29.0	31.5	-151.78	-214.0	713.0	853.0	794.8	58.16	14.666		
8,300.0	8,289.1	8,341.5	8,290.1	29.4	31.8	-152.41	-214.0	713.0	871.2	812.4	58.83	14.808		
8,400.0	8,387.0	8,439.4	8,388.0	29.7	32.1	-153.02	-214.0	713.0	889.5	830.0	59.51	14.947		
8,500.0	8,484.9	8,537.2	8,485.9	30.1	32.4	-153.61	-214.0	713.0	907.9	847.7	60.18	15.085		
8,600.0	8,582.8	8,635.1	8,583.8	30.5	32.8	-154.17	-214.0	713.0	926.4	865.5	60.86	15.221		
8,700.0	8,680.6	8,733.0	8,681.6	30.9	33.1	-154.71	-214.0	713.0	944.9	883.4	61.54	15.354		
8,800.0	8,778.5	8,830.9	8,779.5	31.2	33.4	-155.23	-214.0	713.0	963.6	901.3	62.22	15.486		
8,900.0	8,876.4	8,928.7	8,877.4	31.6	33.7	-155.72	-214.0	713.0	982.3	919.4	62.90	15.615		
9,000.0	8,974.3	9,026.6	8,975.3	32.0	34.0	-156.21	-214.0	713.0	1,001.0	937.5	63.59	15.743		
9,100.0	9,072.1	9,124.5	9,073.1	32.4	34.3	-156.67	-214.0	713.0	1,019.9	955.6	64.27	15.868		
9,200.0	9,170.0	9,222.4	9,171.0	32.8	34.7	-157.11	-214.0	713.0	1,038.8	973.8	64.96	15.992		
9,300.0	9,267.9	9,320.3	9,268.9	33.2	35.0	-157.54	-214.0	713.0	1,057.8	992.1	65.65	16.113		
9,400.0	9,365.8	9,418.1	9,366.8	33.6	35.3	-157.96	-214.0	713.0	1,076.8	1,010.5	66.33	16.233		
9,500.0	9,463.7	9,516.0	9,464.7	34.0	35.6	-158.36	-214.0	713.0	1,095.9	1,028.9	67.02	16.351		
9,600.0	9,561.5	9,613.9	9,562.5	34.4	35.9	-158.75	-214.0	713.0	1,115.0	1,047.3	67.71	16.466		
9,700.0	9,659.4	9,711.8	9,660.4	34.8	36.3	-159.12	-214.0	713.0	1,134.2	1,065.8	68.41	16.580		
9,800.0	9,757.3	9,809.6	9,758.3	35.2	36.6	-159.48	-214.0	713.0	1,153.4	1,084.3	69.10	16.693		
9,900.0	9,855.2	9,907.5	9,856.2	35.6	36.9	-159.83	-214.0	713.0	1,172.7	1,102.9	69.79	16.803		
10,000.0	9,953.0	10,005.4	9,954.0	36.0	37.2	-160.17	-214.0	713.0	1,192.0	1,121.5	70.48	16.911		
10,100.0	10,050.9	10,103.3	10,051.9	36.4	37.5	-160.50	-214.0	713.0	1,211.3	1,140.1	71.18	17.018		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,201.1	10,149.8	36.9	37.9	-160.82	-214.0	713.0	1,230.7	1,158.8	71.87	17.123		
10,300.0	10,246.7	10,301.0	10,247.7	37.3	38.2	-161.13	-214.0	713.0	1,250.1	1,177.5	72.58	17.225		
10,400.0	10,344.6	10,403.1	10,345.6	37.7	38.5	-161.43	-214.0	713.0	1,269.6	1,196.3	73.29	17.323		
10,500.0	10,442.4	10,505.2	10,443.4	38.1	38.9	-161.71	-214.0	713.0	1,289.1	1,215.1	74.00	17.420		
10,600.0	10,540.3	10,607.3	10,541.3	38.5	39.2	-162.00	-214.0	713.0	1,308.6	1,233.9	74.71	17.515		
10,700.0	10,638.2	10,709.5	10,639.2	39.0	39.6	-162.27	-214.0	713.0	1,328.1	1,252.7	75.42	17.608		
10,800.0	10,736.1	10,788.4	10,737.1	39.4	39.8	-162.53	-214.0	713.0	1,347.7	1,271.6	76.06	17.719		
10,900.0	10,833.9	10,886.3	10,834.9	39.8	40.2	-162.79	-214.0	713.0	1,367.3	1,290.5	76.76	17.813		
11,000.0	10,931.8	10,984.2	10,932.8	40.2	40.5	-163.04	-214.0	713.0	1,386.9	1,309.5	77.46	17.905		
11,100.0	11,029.7	11,082.0	11,030.7	40.7	40.8	-163.28	-214.0	713.0	1,406.6	1,328.4	78.16	17.996		
11,200.0	11,127.6	11,179.9	11,128.6	41.1	41.1	-163.52	-214.0	713.0	1,426.2	1,347.4	78.86	18.085		
11,300.0	11,225.5	11,277.8	11,226.5	41.5	41.5	-163.75	-214.0	713.0	1,445.9	1,366.4	79.56	18.173		
11,400.0	11,323.3	11,375.7	11,324.3	42.0	41.8	-163.97	-214.0	713.0	1,465.6	1,385.4	80.27	18.260		
11,500.0	11,421.2	11,474.4	11,423.0	42.4	42.1	-164.27	-212.1	713.0	1,485.4	1,404.4	80.97	18.345		
11,523.5	11,444.2	11,497.5	11,446.0	42.5	42.2	-164.41	-209.8	713.0	1,490.0	1,408.9	81.13	18.365		
11,600.0	11,519.2	11,570.3	11,517.5	42.8	42.4	-165.13	-196.4	712.9	1,504.4	1,422.8	81.64	18.427		
11,700.0	11,617.7	11,657.8	11,600.4	43.3	42.7	-166.40	-168.5	712.7	1,521.8	1,439.5	82.26	18.500		
11,800.0	11,716.7	11,734.9	11,669.1	43.7	42.9	-167.86	-133.7	712.4	1,538.2	1,455.4	82.80	18.576		
11,900.0	11,815.9	11,800.0	11,723.0	44.1	43.0	-169.32	-97.3	712.1	1,554.5	1,471.2	83.24	18.675		
12,000.0	11,915.5	11,857.3	11,766.9	44.4	43.1	-170.76	-60.4	711.8	1,571.4	1,487.9	83.55	18.809		
12,100.0	12,015.2	11,900.0	11,797.0	44.8	43.2	-171.92	-30.2	711.6	1,589.6	1,506.0	83.65	19.003		
12,200.0	12,115.1	11,950.0	11,829.3	45.2	43.2	-173.35	7.9	711.3	1,609.5	1,525.9	83.67	19.237		
12,300.0	12,215.1	11,979.9	11,847.0	45.5	43.3	-174.25	32.0	711.1	1,631.4	1,548.0	83.39	19.563		
12,311.9	12,227.0	11,983.7	11,849.2	45.5	43.3	80.14	35.1	711.0	1,634.1	1,550.8	83.35	19.605		
12,400.0	12,315.1	12,009.5	11,863.3	45.8	43.3	79.38	56.7	710.9	1,656.4	1,573.4	82.96	19.966		
12,500.0	12,415.1	12,034.9	11,876.2	46.2	43.3	78.61	78.6	710.7	1,686.1	1,603.7	82.36	20.473		
12,600.0	12,515.1	12,050.0	11,883.4	46.5	43.3	78.14	91.9	710.6	1,720.4	1,638.9	81.53	21.101		
12,700.0	12,615.1	12,075.8	11,894.9	46.9	43.3	77.33	115.0	710.4	1,759.2	1,678.5	80.71	21.797		
12,711.9	12,627.0	12,077.9	11,895.8	46.9	43.3	77.26	116.9	710.4	1,764.1	1,683.5	80.60	21.889		
12,750.0	12,665.1	12,084.9	11,898.7	47.0	43.3	97.21	123.2	710.3	1,780.4	1,700.2	80.23	22.192		
12,800.0	12,714.8	12,100.0	11,904.7	47.2	43.4	94.23	137.1	710.2	1,803.1	1,723.3	79.79	22.597		
12,850.0	12,763.8	12,100.0	11,904.7	47.4	43.4	91.51	137.1	710.2	1,827.0	1,747.8	79.21	23.064		
12,900.0	12,811.8	12,116.6	11,911.0	47.5	43.4	88.21	152.5	710.1	1,851.9	1,773.1	78.81	23.499		
12,950.0	12,858.3	12,128.4	11,915.1	47.7	43.4	84.96	163.5	710.0	1,877.4	1,799.1	78.36	23.959		
13,000.0	12,903.1	12,150.0	11,922.1	47.8	43.4	81.49	183.9	709.8	1,903.5	1,825.5	78.03	24.396		
13,050.0	12,945.8	12,150.0	11,922.1	48.0	43.4	78.47	183.9	709.8	1,929.6	1,852.1	77.53	24.889		
13,100.0	12,986.1	12,166.6	11,926.9	48.1	43.4	75.23	199.8	709.7	1,955.8	1,878.5	77.22	25.327		
13,150.0	13,023.7	12,180.0	11,930.5	48.3	43.4	72.15	212.7	709.6	1,981.6	1,904.7	76.92	25.761		
13,200.0	13,058.2	12,200.0	11,935.3	48.4	43.4	69.18	232.2	709.5	2,007.0	1,930.3	76.72	26.158		
13,250.0	13,089.4	12,200.0	11,935.3	48.5	43.4	66.55	232.2	709.5	2,031.7	1,955.3	76.43	26.582		
13,300.0	13,117.2	12,221.7	11,939.7	48.7	43.5	63.98	253.4	709.3	2,055.4	1,979.1	76.36	26.919		
13,350.0	13,141.1	12,250.0	11,944.2	48.8	43.5	61.64	281.3	709.1	2,078.3	2,002.0	76.37	27.213		
13,400.0	13,161.2	12,250.0	11,944.2	48.9	43.5	59.57	281.3	709.1	2,099.7	2,023.5	76.28	27.527		
13,450.0	13,177.2	12,250.0	11,944.2	49.1	43.5	57.67	281.3	709.1	2,120.1	2,043.9	76.26	27.801		
13,500.0	13,189.1	12,279.4	11,947.4	49.2	43.5	56.05	310.6	708.8	2,138.7	2,062.2	76.47	27.969		
13,550.0	13,196.6	12,300.0	11,948.8	49.4	43.6	54.63	331.1	708.7	2,155.9	2,079.2	76.69	28.114		
13,600.0	13,199.8	12,300.0	11,948.8	49.6	43.6	53.31	331.1	708.7	2,171.5	2,094.6	76.88	28.244		
13,611.9	13,200.0	12,312.1	11,949.2	49.6	43.6	53.10	343.2	708.6	2,174.8	2,097.9	76.99	28.250		
13,700.0	13,200.0	12,353.0	11,949.3	50.0	43.7	53.65	384.1	708.2	2,200.0	2,122.4	77.57	28.360		
13,800.0	13,200.0	12,447.5	11,948.8	50.4	43.9	54.44	478.6	707.5	2,226.7	2,148.3	78.43	28.392		
13,900.0	13,200.0	12,543.0	11,948.2	50.9	44.2	55.13	574.1	706.7	2,250.9	2,171.6	79.34	28.370		
14,000.0	13,200.0	12,639.4	11,947.6	51.4	44.6	55.73	670.5	705.9	2,272.4	2,192.1	80.32	28.293		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	12,736.7	11,947.0	52.0	45.1	56.24	767.7	705.2	2,291.2	2,209.8	81.35	28.163		
14,200.0	13,200.0	12,834.7	11,946.4	52.6	45.6	56.66	865.8	704.4	2,307.1	2,224.7	82.45	27.984		
14,300.0	13,200.0	12,933.5	11,945.7	53.2	46.1	56.99	964.6	703.6	2,320.2	2,236.6	83.60	27.753		
14,400.0	13,200.0	13,032.8	11,945.0	53.8	46.8	57.25	1,063.9	702.8	2,330.4	2,245.6	84.81	27.479		
14,500.0	13,200.0	13,132.5	11,944.4	54.5	47.4	57.42	1,163.5	702.0	2,337.7	2,251.7	86.06	27.163		
14,600.0	13,200.0	13,232.4	11,943.7	55.1	48.2	57.52	1,263.4	701.2	2,342.1	2,254.8	87.36	26.810		
14,687.2	13,200.0	13,319.6	11,943.1	55.7	48.9	57.54	1,350.6	700.5	2,343.5	2,255.0	88.52	26.475		
14,700.0	13,200.0	13,332.4	11,943.0	55.8	49.0	57.54	1,363.4	700.4	2,343.6	2,254.9	88.69	26.424		
14,800.0	13,200.0	13,432.3	11,942.4	56.5	49.8	57.52	1,463.4	699.6	2,343.9	2,253.8	90.08	26.019		
14,900.0	13,200.0	13,532.3	11,941.7	57.3	50.6	57.51	1,563.4	698.8	2,344.2	2,252.7	91.55	25.607		
15,000.0	13,200.0	13,632.3	11,941.0	58.1	51.5	57.49	1,663.4	698.0	2,344.6	2,251.5	93.08	25.189		
15,100.0	13,200.0	13,732.3	11,940.4	58.9	52.5	57.48	1,763.4	697.2	2,344.9	2,250.2	94.67	24.768		
15,200.0	13,200.0	13,832.3	11,939.7	59.7	53.4	57.47	1,863.3	696.4	2,345.2	2,248.9	96.33	24.345		
15,300.0	13,200.0	13,932.3	11,939.0	60.6	54.4	57.45	1,963.3	695.6	2,345.6	2,247.5	98.05	23.923		
15,400.0	13,200.0	14,032.3	11,938.4	61.6	55.5	57.44	2,063.3	694.7	2,345.9	2,246.1	99.82	23.502		
15,500.0	13,200.0	14,132.3	11,937.7	62.5	56.5	57.42	2,163.3	693.9	2,346.2	2,244.6	101.64	23.083		
15,600.0	13,200.0	14,232.3	11,937.0	63.5	57.6	57.41	2,263.3	693.1	2,346.6	2,243.1	103.51	22.669		
15,700.0	13,200.0	14,332.3	11,936.4	64.5	58.7	57.40	2,363.3	692.3	2,346.9	2,241.5	105.43	22.260		
15,800.0	13,200.0	14,432.3	11,935.7	65.5	59.9	57.38	2,463.3	691.5	2,347.2	2,239.8	107.40	21.856		
15,900.0	13,200.0	14,532.3	11,935.0	66.6	61.0	57.37	2,563.3	690.7	2,347.6	2,238.2	109.40	21.458		
16,000.0	13,200.0	14,632.3	11,934.4	67.7	62.2	57.35	2,663.3	689.9	2,347.9	2,236.5	111.45	21.068		
16,100.0	13,200.0	14,732.3	11,933.7	68.8	63.4	57.34	2,763.3	689.1	2,348.2	2,234.7	113.53	20.684		
16,200.0	13,200.0	14,832.3	11,933.0	69.9	64.7	57.32	2,863.3	688.3	2,348.6	2,232.9	115.64	20.309		
16,300.0	13,200.0	14,932.3	11,932.4	71.1	65.9	57.31	2,963.3	687.5	2,348.9	2,231.1	117.79	19.941		
16,400.0	13,200.0	15,032.3	11,931.7	72.3	67.2	57.30	3,063.3	686.7	2,349.2	2,229.3	119.98	19.581		
16,500.0	13,200.0	15,132.3	11,931.0	73.5	68.5	57.28	3,163.2	685.9	2,349.6	2,227.4	122.19	19.229		
16,600.0	13,200.0	15,232.3	11,930.4	74.7	69.7	57.27	3,263.2	685.1	2,349.9	2,225.5	124.43	18.886		
16,700.0	13,200.0	15,332.3	11,929.7	75.9	71.1	57.25	3,363.2	684.3	2,350.2	2,223.6	126.69	18.551		
16,800.0	13,200.0	15,432.3	11,929.0	77.1	72.4	57.24	3,463.2	683.5	2,350.6	2,221.6	128.98	18.224		
16,900.0	13,200.0	15,532.3	11,928.4	78.4	73.7	57.23	3,563.2	682.7	2,350.9	2,219.6	131.30	17.905		
17,000.0	13,200.0	15,632.3	11,927.7	79.7	75.1	57.21	3,663.2	681.9	2,351.3	2,217.6	133.64	17.594		
17,100.0	13,200.0	15,732.3	11,927.0	81.0	76.4	57.20	3,763.2	681.1	2,351.6	2,215.6	136.00	17.292		
17,200.0	13,200.0	15,832.3	11,926.4	82.3	77.8	57.18	3,863.2	680.3	2,351.9	2,213.6	138.37	16.997		
17,300.0	13,200.0	15,932.3	11,925.7	83.6	79.2	57.17	3,963.2	679.5	2,352.3	2,211.5	140.77	16.710		
17,400.0	13,200.0	16,032.3	11,925.0	84.9	80.6	57.16	4,063.2	678.7	2,352.6	2,209.4	143.19	16.430		
17,500.0	13,200.0	16,132.3	11,924.4	86.3	82.0	57.14	4,163.2	677.9	2,352.9	2,207.3	145.62	16.158		
17,600.0	13,200.0	16,232.3	11,923.7	87.6	83.4	57.13	4,263.2	677.1	2,353.3	2,205.2	148.07	15.893		
17,700.0	13,200.0	16,332.3	11,923.0	89.0	84.8	57.11	4,363.2	676.3	2,353.6	2,203.1	150.54	15.635		
17,800.0	13,200.0	16,432.3	11,922.4	90.3	86.3	57.10	4,463.1	675.5	2,353.9	2,200.9	153.02	15.384		
17,900.0	13,200.0	16,532.3	11,921.7	91.7	87.7	57.09	4,563.1	674.7	2,354.3	2,198.8	155.51	15.139		
18,000.0	13,200.0	16,632.3	11,921.0	93.1	89.2	57.07	4,663.1	673.9	2,354.6	2,196.6	158.02	14.901		
18,100.0	13,200.0	16,732.3	11,920.4	94.5	90.6	57.06	4,763.1	673.1	2,355.0	2,194.4	160.53	14.669		
18,200.0	13,200.0	16,832.3	11,919.7	95.9	92.1	57.04	4,863.1	672.3	2,355.3	2,192.2	163.07	14.444		
18,300.0	13,200.0	16,932.3	11,919.0	97.3	93.5	57.03	4,963.1	671.5	2,355.6	2,190.0	165.61	14.224		
18,400.0	13,200.0	17,032.3	11,918.4	98.7	95.0	57.02	5,063.1	670.7	2,356.0	2,187.8	168.16	14.010		
18,500.0	13,200.0	17,132.3	11,917.7	100.2	96.5	57.00	5,163.1	669.9	2,356.3	2,185.6	170.73	13.802		
18,600.0	13,200.0	17,232.3	11,917.0	101.6	98.0	56.99	5,263.1	669.1	2,356.6	2,183.3	173.30	13.599		
18,700.0	13,200.0	17,332.3	11,916.3	103.0	99.5	56.97	5,363.1	668.3	2,357.0	2,181.1	175.88	13.401		
18,800.0	13,200.0	17,432.3	11,915.7	104.5	101.0	56.96	5,463.1	667.4	2,357.3	2,178.8	178.47	13.208		
18,900.0	13,200.0	17,532.3	11,915.0	105.9	102.5	56.94	5,563.1	666.6	2,357.7	2,176.6	181.07	13.020		
19,000.0	13,200.0	17,632.3	11,914.3	107.4	104.0	56.93	5,663.1	665.8	2,358.0	2,174.3	183.68	12.837		
19,100.0	13,200.0	17,732.3	11,913.7	108.9	105.5	56.92	5,763.0	665.0	2,358.3	2,172.0	186.30	12.659		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	13,200.0	17,832.2	11,913.0	110.3	107.0	56.90	5,863.0	664.2	2,358.7	2,169.8	188.92	12.485		
19,300.0	13,200.0	17,932.2	11,912.3	111.8	108.5	56.89	5,963.0	663.4	2,359.0	2,167.5	191.55	12.315		
19,400.0	13,200.0	18,032.2	11,911.7	113.3	110.0	56.88	6,063.0	662.6	2,359.4	2,165.2	194.19	12.150		
19,500.0	13,200.0	18,132.2	11,911.0	114.8	111.6	56.86	6,163.0	661.8	2,359.7	2,162.9	196.83	11.988		
19,600.0	13,200.0	18,232.2	11,910.3	116.3	113.1	56.85	6,263.0	661.0	2,360.0	2,160.5	199.48	11.831		
19,700.0	13,200.0	18,332.2	11,909.7	117.8	114.6	56.83	6,363.0	660.2	2,360.4	2,158.2	202.14	11.677		
19,800.0	13,200.0	18,432.2	11,909.0	119.3	116.2	56.82	6,463.0	659.4	2,360.7	2,155.9	204.80	11.527		
19,900.0	13,200.0	18,532.2	11,908.3	120.8	117.7	56.81	6,563.0	658.6	2,361.1	2,153.6	207.47	11.380		
20,000.0	13,200.0	18,632.2	11,907.7	122.3	119.3	56.79	6,663.0	657.8	2,361.4	2,151.3	210.14	11.237		
20,100.0	13,200.0	18,732.2	11,907.0	123.8	120.8	56.78	6,763.0	657.0	2,361.7	2,148.9	212.82	11.098		
20,200.0	13,200.0	18,832.2	11,906.3	125.3	122.4	56.76	6,863.0	656.2	2,362.1	2,146.6	215.50	10.961		
20,300.0	13,200.0	18,932.2	11,905.7	126.8	123.9	56.75	6,963.0	655.4	2,362.4	2,144.2	218.18	10.828		
20,400.0	13,200.0	19,032.2	11,905.0	128.4	125.5	56.74	7,062.9	654.6	2,362.8	2,141.9	220.87	10.697		
20,500.0	13,200.0	19,132.2	11,904.3	129.9	127.0	56.72	7,162.9	653.8	2,363.1	2,139.5	223.57	10.570		
20,600.0	13,200.0	19,232.2	11,903.7	131.4	128.6	56.71	7,262.9	653.0	2,363.4	2,137.2	226.27	10.445		
20,700.0	13,200.0	19,332.2	11,903.0	132.9	130.1	56.69	7,362.9	652.2	2,363.8	2,134.8	228.97	10.324		
20,800.0	13,200.0	19,432.2	11,902.3	134.5	131.7	56.68	7,462.9	651.4	2,364.1	2,132.4	231.67	10.204		
20,900.0	13,200.0	19,532.2	11,901.7	136.0	133.3	56.67	7,562.9	650.6	2,364.5	2,130.1	234.38	10.088		
21,000.0	13,200.0	19,632.2	11,901.0	137.6	134.8	56.65	7,662.9	649.8	2,364.8	2,127.7	237.10	9.974		
21,100.0	13,200.0	19,732.2	11,900.3	139.1	136.4	56.64	7,762.9	649.0	2,365.1	2,125.3	239.81	9.862		
21,200.0	13,200.0	19,832.2	11,899.7	140.7	138.0	56.62	7,862.9	648.2	2,365.5	2,122.9	242.53	9.753		
21,300.0	13,200.0	19,932.2	11,899.0	142.2	139.6	56.61	7,962.9	647.4	2,365.8	2,120.6	245.25	9.646		
21,400.0	13,200.0	20,032.2	11,898.3	143.8	141.1	56.60	8,062.9	646.6	2,366.2	2,118.2	247.98	9.542		
21,500.0	13,200.0	20,132.2	11,897.7	145.3	142.7	56.58	8,162.9	645.8	2,366.5	2,115.8	250.71	9.439		
21,600.0	13,200.0	20,232.2	11,897.0	146.9	144.3	56.57	8,262.9	645.0	2,366.8	2,113.4	253.44	9.339		
21,700.0	13,200.0	20,332.2	11,896.3	148.4	145.9	56.55	8,362.8	644.2	2,367.2	2,111.0	256.17	9.241		
21,800.0	13,200.0	20,432.2	11,895.7	150.0	147.5	56.54	8,462.8	643.4	2,367.5	2,108.6	258.90	9.144		
21,900.0	13,200.0	20,532.2	11,895.0	151.5	149.1	56.53	8,562.8	642.6	2,367.9	2,106.2	261.64	9.050		
22,000.0	13,200.0	20,632.2	11,894.3	153.1	150.6	56.51	8,662.8	641.8	2,368.2	2,103.8	264.38	8.958		
22,100.0	13,200.0	20,732.2	11,893.7	154.7	152.2	56.50	8,762.8	640.9	2,368.6	2,101.4	267.12	8.867		
22,200.0	13,200.0	20,832.2	11,893.0	156.2	153.8	56.49	8,862.8	640.1	2,368.9	2,099.0	269.87	8.778		
22,300.0	13,200.0	20,932.2	11,892.3	157.8	155.4	56.47	8,962.8	639.3	2,369.2	2,096.6	272.61	8.691		
22,400.0	13,200.0	21,032.2	11,891.7	159.4	157.0	56.46	9,062.8	638.5	2,369.6	2,094.2	275.36	8.605		
22,500.0	13,200.0	21,132.2	11,891.0	161.0	158.6	56.44	9,162.8	637.7	2,369.9	2,091.8	278.11	8.522		
22,600.0	13,200.0	21,232.2	11,890.3	162.5	160.2	56.43	9,262.8	636.9	2,370.3	2,089.4	280.86	8.439		
22,700.0	13,200.0	21,332.2	11,889.7	164.1	161.8	56.42	9,362.8	636.1	2,370.6	2,087.0	283.61	8.359		
22,800.0	13,200.0	21,432.2	11,889.0	165.7	163.4	56.40	9,462.8	635.3	2,371.0	2,084.6	286.37	8.279		
22,900.0	13,200.0	21,532.2	11,888.3	167.3	165.0	56.39	9,562.8	634.5	2,371.3	2,082.2	289.12	8.202		
23,000.0	13,200.0	21,632.2	11,887.7	168.9	166.6	56.37	9,662.7	633.7	2,371.7	2,079.8	291.88	8.125		
23,100.0	13,200.0	21,732.2	11,887.0	170.4	168.2	56.36	9,762.7	632.9	2,372.0	2,077.4	294.64	8.050		
23,200.0	13,200.0	21,832.2	11,886.3	172.0	169.8	56.35	9,862.7	632.1	2,372.3	2,074.9	297.40	7.977		
23,300.0	13,200.0	21,932.2	11,885.7	173.6	171.4	56.33	9,962.7	631.3	2,372.7	2,072.5	300.16	7.905		
23,400.0	13,200.0	22,032.2	11,885.0	175.2	173.0	56.32	10,062.7	630.5	2,373.0	2,070.1	302.92	7.834		
23,504.9	13,200.0	22,137.0	11,884.3	176.9	174.7	56.30	10,167.6	629.7	2,373.4	2,067.6	305.82	7.761		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 161-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.08	-3.2	2,343.4	2,343.4					
100.0	100.0	103.3	103.3	0.1	0.2	90.08	-3.1	2,343.3	2,343.3	2,343.0	0.28	8,347.513		
200.0	200.0	203.8	203.8	0.5	0.4	90.07	-2.9	2,343.1	2,343.1	2,342.2	0.88	2,670.066		
300.0	300.0	308.8	308.8	0.8	0.8	90.07	-2.8	2,342.9	2,342.9	2,341.3	1.61	1,455.700		
370.8	370.8	370.8	370.8	1.1	1.0	90.07	-2.8	2,342.7	2,342.7	2,340.7	2.08	1,128.279		
400.0	400.0	396.3	396.3	1.2	1.1	90.07	-2.8	2,342.8	2,342.8	2,340.5	2.27	1,032.371		
500.0	500.0	496.5	496.5	1.6	1.4	90.07	-2.8	2,342.9	2,342.9	2,340.0	2.97	789.089		
600.0	600.0	601.2	601.2	1.9	1.8	90.07	-3.0	2,343.0	2,343.0	2,339.3	3.69	635.058		
633.8	633.8	633.8	633.8	2.0	1.9	90.07	-3.0	2,343.0	2,343.0	2,339.0	3.92	597.091		
700.0	700.0	697.1	697.1	2.3	2.1	90.08	-3.1	2,343.0	2,343.0	2,338.6	4.38	534.677		
800.0	800.0	795.3	795.3	2.6	2.4	90.08	-3.2	2,343.2	2,343.2	2,338.1	5.08	460.940		
900.0	900.0	897.0	897.0	3.0	2.8	90.08	-3.2	2,343.3	2,343.3	2,337.5	5.80	404.224		
1,000.0	1,000.0	1,004.1	1,004.1	3.4	3.2	90.08	-3.2	2,343.4	2,343.4	2,336.8	6.53	358.862		
1,100.0	1,100.0	1,104.0	1,104.0	3.7	3.5	90.08	-3.5	2,343.2	2,343.2	2,336.0	7.24	323.682		
1,200.0	1,200.0	1,254.0	1,253.9	4.1	4.1	90.11	-4.5	2,341.9	2,342.5	2,334.4	8.13	288.286		
1,300.0	1,300.0	1,443.0	1,442.7	4.4	4.7	90.20	-8.1	2,334.0	2,338.3	2,329.2	9.15	255.645		
1,400.0	1,400.0	1,625.5	1,624.4	4.8	5.4	90.36	-14.6	2,318.5	2,329.4	2,319.2	10.14	229.713		
1,500.0	1,500.0	1,695.7	1,694.4	5.1	5.6	90.44	-17.7	2,312.1	2,320.3	2,309.6	10.75	215.749		
1,600.0	1,600.0	1,763.1	1,761.4	5.5	5.9	90.52	-20.8	2,306.9	2,312.7	2,301.3	11.36	203.560		
1,700.0	1,700.0	1,831.3	1,829.5	5.9	6.1	90.59	-23.9	2,302.6	2,306.4	2,294.4	11.97	192.675		
1,800.0	1,800.0	1,907.6	1,905.6	6.2	6.4	90.67	-27.1	2,298.7	2,301.3	2,288.7	12.61	182.539		
1,900.0	1,900.0	1,979.0	1,976.9	6.6	6.7	90.73	-29.3	2,295.8	2,297.3	2,284.1	13.23	173.705		
2,000.0	2,000.0	2,064.1	2,061.9	6.9	7.0	90.76	-30.4	2,293.4	2,294.4	2,280.5	13.89	165.200		
2,100.0	2,100.0	2,180.6	2,178.4	7.3	7.4	90.76	-30.5	2,290.0	2,291.5	2,276.9	14.66	156.323		
2,200.0	2,200.0	2,316.6	2,314.3	7.7	7.9	90.74	-29.5	2,284.1	2,287.1	2,271.6	15.49	147.622		
2,300.0	2,300.0	2,403.9	2,401.5	8.0	8.2	90.75	-29.7	2,279.9	2,282.3	2,266.2	16.16	141.193		
2,400.0	2,400.0	2,479.0	2,476.5	8.4	8.5	90.78	-30.9	2,277.0	2,278.5	2,261.7	16.80	135.658		
2,500.0	2,500.0	2,565.7	2,563.1	8.7	8.8	90.85	-33.9	2,274.3	2,275.5	2,258.0	17.47	130.267		
2,600.0	2,600.0	2,653.3	2,650.6	9.1	9.1	90.95	-37.7	2,272.1	2,273.0	2,254.8	18.14	125.283		
2,700.0	2,700.0	2,750.4	2,747.6	9.4	9.5	91.03	-40.9	2,270.0	2,270.8	2,252.0	18.85	120.467		
2,800.0	2,800.0	2,881.1	2,878.2	9.8	9.9	91.14	-45.0	2,266.2	2,268.0	2,248.4	19.68	115.263		
2,900.0	2,900.0	2,974.6	2,971.5	10.2	10.3	91.22	-48.3	2,262.8	2,264.5	2,244.1	20.37	111.143		
3,000.0	3,000.0	3,043.0	3,039.9	10.5	10.5	91.26	-49.7	2,261.2	2,262.1	2,241.1	20.98	107.809		
3,100.0	3,100.0	3,113.6	3,110.6	10.9	10.8	91.27	-49.9	2,260.4	2,261.0	2,239.4	21.58	104.750		
3,167.6	3,167.6	3,171.7	3,168.6	11.1	11.0	91.25	-49.2	2,260.4	2,260.9	2,238.9	22.02	102.658		
3,200.0	3,200.0	3,203.2	3,200.1	11.2	11.1	91.23	-48.6	2,260.4	2,260.9	2,238.6	22.25	101.636		
3,300.0	3,300.0	3,338.0	3,334.8	11.6	11.5	91.13	-44.5	2,259.7	2,260.4	2,237.3	23.06	98.021		
3,400.0	3,400.0	3,496.8	3,493.4	12.0	12.1	90.98	-38.4	2,255.0	2,257.3	2,233.3	23.96	94.225		
3,500.0	3,500.0	3,605.4	3,601.9	12.3	12.5	90.88	-34.7	2,250.3	2,252.9	2,228.2	24.69	91.245		
3,600.0	3,600.0	3,686.0	3,682.4	12.7	12.7	90.83	-32.6	2,247.0	2,248.8	2,223.4	25.34	88.752		
3,700.0	3,700.0	3,766.9	3,763.3	13.0	13.0	90.82	-32.2	2,244.4	2,245.5	2,219.5	25.99	86.410		
3,800.0	3,800.0	3,853.9	3,850.2	13.4	13.3	90.88	-34.6	2,242.2	2,243.0	2,216.4	26.66	84.143		
3,900.0	3,900.0	3,949.5	3,945.5	13.8	13.7	91.05	-41.1	2,240.1	2,241.0	2,213.6	27.36	81.909		
4,000.0	4,000.0	4,045.8	4,041.3	14.1	14.0	91.31	-51.0	2,238.0	2,239.0	2,210.9	28.07	79.778		
4,100.0	4,100.0	4,157.4	4,152.3	14.5	14.4	91.60	-62.4	2,235.6	2,237.1	2,208.2	28.83	77.600		
4,200.0	4,200.0	4,310.9	4,305.3	14.8	15.0	91.88	-73.3	2,230.0	2,233.6	2,203.9	29.73	75.130		
4,300.0	4,300.0	4,500.6	4,494.4	15.2	15.7	92.12	-82.2	2,217.1	2,227.1	2,196.4	30.72	72.502		
4,400.0	4,400.0	4,618.3	4,611.2	15.5	16.2	92.32	-89.5	2,205.7	2,217.5	2,186.1	31.49	70.423		
4,500.0	4,500.0	4,698.4	4,690.8	15.9	16.5	92.46	-94.5	2,198.1	2,208.4	2,176.2	32.16	68.663		
4,600.0	4,600.0	4,822.3	4,814.1	16.3	16.9	92.64	-100.8	2,187.0	2,199.7	2,166.8	32.95	66.760		
4,700.0	4,700.0	4,933.8	4,924.8	16.6	17.4	92.80	-106.5	2,175.5	2,189.7	2,156.0	33.70	64.969		
4,800.0	4,800.0	5,015.9	5,006.4	17.0	17.7	92.93	-110.8	2,167.3	2,179.9	2,145.5	34.39	63.395		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 161-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,900.0	5,085.1	5,075.2	17.3	17.9	93.02	-114.0	2,161.0	2,171.1	2,136.1	35.03	61.976		
5,000.0	5,000.0	5,170.3	5,160.1	17.7	18.3	93.12	-117.4	2,154.4	2,163.5	2,127.8	35.72	60.576		
5,100.0	5,100.0	5,263.5	5,252.9	18.1	18.6	93.23	-121.1	2,147.4	2,156.3	2,119.8	36.42	59.203		
5,200.0	5,200.0	5,355.9	5,345.1	18.4	19.0	93.33	-124.5	2,140.8	2,149.3	2,112.2	37.12	57.896		
5,300.0	5,300.0	5,450.9	5,439.7	18.8	19.3	93.43	-128.0	2,134.4	2,142.7	2,104.9	37.83	56.636		
5,400.0	5,400.0	5,562.7	5,551.2	19.1	19.7	93.55	-132.0	2,126.5	2,135.9	2,097.3	38.59	55.347		
5,500.0	5,500.0	5,656.9	5,645.2	19.5	20.1	93.65	-135.2	2,119.5	2,128.8	2,089.5	39.30	54.169		
5,600.0	5,600.0	5,730.0	5,718.0	19.8	20.4	93.72	-137.5	2,114.9	2,122.6	2,082.7	39.94	53.139		
5,700.0	5,700.0	5,808.8	5,796.7	20.2	20.7	93.78	-139.6	2,110.7	2,117.5	2,076.9	40.60	52.154		
5,800.0	5,800.0	5,912.1	5,899.8	20.6	21.0	93.87	-142.5	2,105.8	2,113.0	2,071.7	41.33	51.120		
5,900.0	5,900.0	6,019.7	6,007.2	20.9	21.4	93.96	-145.6	2,100.3	2,108.1	2,066.0	42.08	50.098		
6,000.0	6,000.0	6,086.3	6,073.8	21.3	21.7	94.01	-147.1	2,097.4	2,103.9	2,061.2	42.69	49.277		
6,100.0	6,100.0	6,177.7	6,165.1	21.6	22.0	94.06	-148.7	2,094.4	2,100.7	2,057.3	43.38	48.420		
6,200.0	6,200.0	6,279.2	6,266.6	22.0	22.4	94.12	-150.6	2,091.1	2,097.6	2,053.5	44.11	47.554		
6,300.0	6,300.0	6,377.4	6,364.7	22.4	22.7	94.17	-152.4	2,087.9	2,094.4	2,049.6	44.82	46.728		
6,400.0	6,400.0	6,486.2	6,473.4	22.7	23.1	94.23	-154.3	2,084.2	2,091.2	2,045.6	45.57	45.889		
6,500.0	6,500.0	6,582.3	6,569.4	23.1	23.5	94.28	-155.9	2,080.8	2,087.8	2,041.5	46.28	45.115		
6,600.0	6,600.0	6,683.0	6,670.0	23.4	23.9	94.34	-157.6	2,077.3	2,084.4	2,037.4	47.00	44.352		
6,700.0	6,700.0	6,787.2	6,774.2	23.8	24.2	94.39	-159.2	2,073.6	2,081.0	2,033.2	47.73	43.599		
6,800.0	6,800.0	6,890.5	6,877.4	24.1	24.6	94.44	-160.8	2,069.7	2,077.3	2,028.9	48.46	42.867		
6,900.0	6,900.0	6,992.3	6,979.1	24.5	25.0	94.49	-162.2	2,065.7	2,073.5	2,024.4	49.18	42.159		
7,000.0	7,000.0	7,089.4	7,076.1	24.9	25.3	94.54	-163.6	2,061.9	2,069.8	2,019.9	49.89	41.484		
7,100.0	7,100.0	7,191.7	7,178.3	25.2	25.7	-159.94	-165.2	2,058.0	2,067.0	2,016.3	50.61	40.843		
7,200.0	7,200.0	7,293.1	7,279.7	25.5	26.1	-159.91	-166.9	2,053.9	2,065.5	2,014.2	51.31	40.256		
7,231.3	7,231.2	7,323.0	7,309.5	25.7	26.2	-159.91	-167.3	2,052.7	2,065.4	2,013.9	51.52	40.088 CC		
7,300.0	7,299.9	7,392.2	7,378.6	25.9	26.4	-159.90	-168.3	2,050.0	2,065.8	2,013.8	52.00	39.725 ES		
7,400.0	7,399.7	7,486.7	7,473.1	26.2	26.8	-159.91	-169.7	2,046.4	2,067.8	2,015.1	52.68	39.252		
7,500.0	7,499.4	7,587.5	7,573.7	26.6	27.2	-159.92	-171.0	2,042.7	2,071.7	2,018.3	53.38	38.811		
7,600.0	7,598.9	7,691.3	7,677.5	26.9	27.5	-159.95	-172.5	2,038.8	2,077.0	2,022.9	54.09	38.401		
7,700.0	7,698.3	7,795.8	7,781.9	27.2	27.9	-159.97	-174.6	2,034.5	2,083.8	2,029.0	54.80	38.025		
7,800.0	7,797.4	7,894.1	7,880.1	27.6	28.3	-159.96	-178.1	2,030.3	2,092.1	2,036.6	55.49	37.698		
7,900.0	7,896.3	7,997.0	7,982.7	27.9	28.7	-159.94	-182.5	2,025.7	2,101.8	2,045.6	56.21	37.395		
8,000.0	7,994.9	8,067.2	8,052.9	28.3	28.9	-159.93	-185.2	2,023.1	2,114.0	2,057.2	56.81	37.213		
8,100.0	8,093.3	8,157.0	8,142.5	28.6	29.2	-159.95	-188.1	2,020.7	2,128.7	2,071.2	57.47	37.042		
8,182.6	8,174.2	8,235.3	8,220.8	28.9	29.5	-159.97	-190.5	2,018.7	2,142.3	2,084.2	58.03	36.918		
8,200.0	8,191.3	8,251.8	8,237.3	29.0	29.6	-159.99	-191.0	2,018.3	2,145.3	2,087.1	58.15	36.894		
8,300.0	8,289.1	8,345.2	8,330.6	29.4	29.9	-160.09	-193.9	2,016.2	2,162.6	2,103.7	58.82	36.767		
8,400.0	8,387.0	8,458.5	8,443.9	29.7	30.3	-160.21	-196.8	2,013.5	2,179.8	2,120.2	59.57	36.594		
8,500.0	8,484.9	8,564.1	8,549.4	30.1	30.7	-160.35	-198.8	2,010.5	2,196.4	2,136.1	60.28	36.433		
8,600.0	8,582.8	8,658.5	8,643.7	30.5	31.1	-160.47	-200.7	2,007.7	2,212.9	2,152.0	60.97	36.298		
8,700.0	8,680.6	8,757.4	8,742.5	30.9	31.4	-160.58	-202.9	2,004.8	2,229.6	2,167.9	61.66	36.158		
8,800.0	8,778.5	8,867.1	8,852.2	31.2	31.8	-160.72	-204.9	2,001.4	2,246.0	2,183.6	62.40	35.993		
8,900.0	8,876.4	8,966.2	8,951.2	31.6	32.2	-160.84	-206.5	1,997.9	2,262.0	2,198.9	63.10	35.847		
9,000.0	8,974.3	9,055.0	9,039.9	32.0	32.5	-160.94	-208.6	1,995.1	2,278.4	2,214.7	63.77	35.730		
9,100.0	9,072.1	9,152.2	9,137.1	32.4	32.8	-161.03	-211.4	1,992.1	2,295.0	2,230.6	64.47	35.600		
9,200.0	9,170.0	9,240.2	9,225.0	32.8	33.2	-161.15	-212.4	1,989.7	2,311.8	2,246.7	65.13	35.497		
9,300.0	9,267.9	9,318.2	9,303.0	33.2	33.4	-161.27	-212.5	1,988.2	2,329.4	2,263.6	65.74	35.431		
9,400.0	9,365.8	9,411.2	9,396.0	33.6	33.8	-161.42	-212.3	1,986.9	2,347.4	2,281.0	66.42	35.345		
9,500.0	9,463.7	9,496.6	9,481.4	34.0	34.1	-161.57	-212.0	1,986.0	2,365.9	2,298.9	67.05	35.284		
9,600.0	9,561.5	9,599.8	9,584.6	34.4	34.4	-161.73	-211.9	1,985.2	2,384.6	2,316.8	67.77	35.187		
9,700.0	9,659.4	9,704.6	9,689.3	34.8	34.8	-161.88	-212.6	1,983.9	2,403.0	2,334.5	68.50	35.081		
9,800.0	9,757.3	9,802.4	9,787.1	35.2	35.1	-161.99	-214.2	1,982.6	2,421.2	2,352.0	69.20	34.990		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 161-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.0	9,855.2	9,892.1	9,876.9	35.6	35.5	-162.09	-215.6	1,981.6	2,439.7	2,369.8	69.86	34.921		
10,000.0	9,953.0	9,979.2	9,963.9	36.0	35.8	-162.22	-215.6	1,981.0	2,458.6	2,388.1	70.51	34.869		
10,100.0	10,050.9	10,067.0	10,051.7	36.4	36.1	-162.36	-215.2	1,980.9	2,477.9	2,406.8	71.15	34.828		
10,200.0	10,148.8	10,160.5	10,145.3	36.9	36.4	-162.49	-215.3	1,980.9	2,497.6	2,425.8	71.81	34.778		
10,300.0	10,246.7	10,242.6	10,227.3	37.3	36.6	-162.60	-215.7	1,981.3	2,517.6	2,445.2	72.43	34.760		
10,400.0	10,344.6	10,332.7	10,317.4	37.7	36.9	-162.72	-216.3	1,982.1	2,538.1	2,465.0	73.08	34.733		
10,500.0	10,442.4	10,408.3	10,393.0	38.1	37.2	-162.81	-216.7	1,983.2	2,559.2	2,485.5	73.65	34.748		
10,600.0	10,540.3	10,514.3	10,499.0	38.5	37.5	-162.97	-216.2	1,985.3	2,580.8	2,506.4	74.36	34.705		
10,700.0	10,638.2	10,619.9	10,604.6	39.0	37.9	-163.14	-215.0	1,986.8	2,601.8	2,526.7	75.07	34.656		
10,800.0	10,736.1	10,717.4	10,702.1	39.4	38.2	-163.28	-214.6	1,988.1	2,622.7	2,546.9	75.75	34.624		
10,900.0	10,833.9	10,827.6	10,812.3	39.8	38.5	-163.42	-214.7	1,989.3	2,643.4	2,566.9	76.49	34.561		
11,000.0	10,931.8	10,936.4	10,921.0	40.2	38.9	-163.57	-214.2	1,989.8	2,663.6	2,586.4	77.22	34.494		
11,100.0	11,029.7	11,019.4	11,004.0	40.7	39.2	-163.70	-213.3	1,990.4	2,683.9	2,606.1	77.83	34.484		
11,200.0	11,127.6	11,103.2	11,087.8	41.1	39.4	-163.83	-212.0	1,991.4	2,704.8	2,626.4	78.45	34.480		
11,300.0	11,225.5	11,193.3	11,177.9	41.5	39.7	-163.97	-210.6	1,992.9	2,726.1	2,647.0	79.09	34.470		
11,400.0	11,323.3	11,284.8	11,269.4	42.0	40.0	-164.11	-209.2	1,994.6	2,747.7	2,668.0	79.74	34.459		
11,500.0	11,421.2	11,525.2	11,507.7	42.4	40.8	-164.87	-186.6	1,994.8	2,768.6	2,687.6	81.00	34.180		
11,523.5	11,444.2	11,543.6	11,525.2	42.5	40.8	-165.01	-180.9	1,994.2	2,772.6	2,691.4	81.14	34.172		
11,600.0	11,519.2	11,586.0	11,564.8	42.8	41.0	-165.41	-165.9	1,993.0	2,785.3	2,703.8	81.51	34.172		
11,700.0	11,617.7	11,624.0	11,599.4	43.3	41.1	-165.83	-150.2	1,992.3	2,801.4	2,719.4	81.90	34.203		
11,800.0	11,716.7	11,668.4	11,638.7	43.7	41.2	-166.34	-129.6	1,992.2	2,817.1	2,734.8	82.28	34.237		
11,900.0	11,815.9	11,718.0	11,681.3	44.1	41.3	-166.94	-104.1	1,993.1	2,832.9	2,750.3	82.65	34.277		
12,000.0	11,915.5	11,718.0	11,681.3	44.4	41.3	-166.99	-104.1	1,993.1	2,848.6	2,765.8	82.73	34.432		
12,100.0	12,015.2	11,718.0	11,681.3	44.8	41.3	-167.05	-104.1	1,993.1	2,865.1	2,782.4	82.73	34.632		
12,200.0	12,115.1	11,767.6	11,721.8	45.2	41.4	-167.69	-75.5	1,995.7	2,880.8	2,797.9	82.95	34.729		
12,300.0	12,215.1	11,812.0	11,755.5	45.5	41.5	-168.31	-47.1	1,999.9	2,898.0	2,814.9	83.10	34.874		
12,311.9	12,227.0	11,812.0	11,755.5	45.5	41.5	86.19	-47.1	1,999.9	2,899.9	2,816.8	83.08	34.904		
12,400.0	12,315.1	12,256.8	11,976.5	45.8	42.5	78.79	325.4	1,983.3	2,913.4	2,828.2	85.16	34.209		
12,500.0	12,415.1	12,281.0	11,978.2	46.2	42.6	78.32	349.1	1,979.0	2,926.8	2,841.7	85.16	34.369		
12,600.0	12,515.1	12,281.0	11,978.2	46.5	42.6	78.32	349.1	1,979.0	2,943.4	2,858.4	85.00	34.628		
12,700.0	12,615.1	12,281.0	11,978.2	46.9	42.6	78.32	349.1	1,979.0	2,963.3	2,878.5	84.77	34.956		
12,711.9	12,627.0	12,281.0	11,978.2	46.9	42.6	78.32	349.1	1,979.0	2,965.9	2,881.1	84.74	34.999		
12,750.0	12,665.1	12,281.0	11,978.2	47.0	42.6	99.38	349.1	1,979.0	2,974.7	2,890.0	84.64	35.147		
12,800.0	12,714.8	12,281.0	11,978.2	47.2	42.6	98.07	349.1	1,979.0	2,987.5	2,903.0	84.48	35.362		
12,850.0	12,763.8	12,281.0	11,978.2	47.4	42.6	96.60	349.1	1,979.0	3,001.7	2,917.3	84.32	35.599		
12,900.0	12,811.8	12,281.0	11,978.2	47.5	42.6	94.98	349.1	1,979.0	3,017.1	2,932.9	84.15	35.855		
12,950.0	12,858.3	12,281.0	11,978.2	47.7	42.6	93.24	349.1	1,979.0	3,033.6	2,949.6	83.97	36.127		
13,000.0	12,903.1	12,281.0	11,978.2	47.8	42.6	91.37	349.1	1,979.0	3,051.1	2,967.3	83.79	36.413		
13,050.0	12,945.8	12,311.8	11,979.5	48.0	42.7	88.92	379.4	1,973.6	3,069.0	2,985.3	83.72	36.656		
13,100.0	12,986.1	12,324.8	11,980.1	48.1	42.7	86.73	392.2	1,971.5	3,087.6	3,004.0	83.60	36.932		
13,150.0	13,023.7	12,339.0	11,980.7	48.3	42.8	84.50	406.2	1,969.2	3,106.5	3,023.0	83.50	37.205		
13,200.0	13,058.2	12,374.0	11,982.2	48.4	42.9	82.04	440.8	1,964.1	3,125.7	3,042.2	83.49	37.439		
13,250.0	13,089.4	12,374.0	11,982.2	48.5	42.9	80.03	440.8	1,964.1	3,144.6	3,061.2	83.37	37.719		
13,300.0	13,117.2	12,374.0	11,982.2	48.7	42.9	78.04	440.8	1,964.1	3,163.4	3,080.1	83.27	37.988		
13,350.0	13,141.1	12,403.9	11,983.3	48.8	43.0	75.89	470.4	1,960.2	3,181.7	3,098.4	83.33	38.180		
13,400.0	13,161.2	12,421.2	11,983.9	48.9	43.1	73.96	487.5	1,958.1	3,199.5	3,116.2	83.37	38.377		
13,450.0	13,177.2	12,438.8	11,984.4	49.1	43.2	72.15	505.1	1,956.1	3,216.7	3,133.2	83.44	38.549		
13,500.0	13,189.1	12,467.0	11,985.1	49.2	43.3	70.46	533.1	1,953.2	3,233.0	3,149.4	83.60	38.673		
13,550.0	13,196.6	12,467.0	11,985.1	49.4	43.3	68.95	533.1	1,953.2	3,248.4	3,164.7	83.67	38.825		
13,600.0	13,199.8	12,467.0	11,985.1	49.6	43.3	67.54	533.1	1,953.2	3,262.9	3,179.2	83.77	38.951		
13,611.9	13,200.0	12,467.0	11,985.1	49.6	43.3	67.22	533.1	1,953.2	3,266.3	3,182.5	83.80	38.977		
13,700.0	13,200.0	12,507.1	11,985.9	50.0	43.5	67.50	573.1	1,950.1	3,289.7	3,205.4	84.24	39.052		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 161-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	13,200.0	12,560.0	11,986.7	50.4	43.7	67.83	625.9	1,948.5	3,316.1	3,231.3	84.81	39.101		
13,900.0	13,200.0	12,560.0	11,986.7	50.9	43.7	68.01	625.9	1,948.5	3,340.5	3,255.4	85.13	39.241		
14,000.0	13,200.0	12,625.3	11,987.3	51.4	44.0	68.31	691.2	1,948.1	3,364.0	3,278.1	85.84	39.187		
14,100.0	13,200.0	12,686.4	11,987.0	52.0	44.3	68.55	752.3	1,947.6	3,384.8	3,298.3	86.57	39.099		
14,200.0	13,200.0	12,748.0	11,985.5	52.6	44.7	68.74	813.9	1,947.8	3,404.0	3,316.6	87.33	38.977		
14,300.0	13,200.0	12,788.9	11,984.0	53.2	44.9	68.89	854.7	1,948.4	3,421.2	3,333.2	87.99	38.880		
14,400.0	13,200.0	12,875.2	11,980.2	53.8	45.4	69.01	941.0	1,950.3	3,436.4	3,347.4	89.01	38.609		
14,500.0	13,200.0	13,037.9	11,978.2	54.5	46.5	69.16	1,103.6	1,953.2	3,446.8	3,356.0	90.75	37.980		
14,600.0	13,200.0	13,172.2	11,977.2	55.1	47.5	69.24	1,237.9	1,954.4	3,453.1	3,360.7	92.40	37.370		
14,687.2	13,200.0	13,271.6	11,976.5	55.7	48.3	69.26	1,337.3	1,954.4	3,455.1	3,361.4	93.75	36.854		
14,700.0	13,200.0	13,283.5	11,976.4	55.8	48.3	69.26	1,349.3	1,954.4	3,455.2	3,361.3	93.92	36.787		
14,800.0	13,200.0	13,364.5	11,975.4	56.5	49.0	69.25	1,430.2	1,954.3	3,456.4	3,361.2	95.20	36.306		
14,900.0	13,200.0	13,454.7	11,974.3	57.3	49.8	69.24	1,520.4	1,954.9	3,458.1	3,361.5	96.64	35.782		
15,000.0	13,200.0	13,576.5	11,972.8	58.1	50.9	69.22	1,642.2	1,955.4	3,459.6	3,361.1	98.52	35.115		
15,100.0	13,200.0	13,720.7	11,973.1	58.9	52.3	69.23	1,786.3	1,954.6	3,459.7	3,358.9	100.79	34.325		
15,116.3	13,200.0	13,731.5	11,973.1	59.0	52.4	69.23	1,797.2	1,954.5	3,459.6	3,358.6	101.02	34.248		
15,200.0	13,200.0	13,792.1	11,972.9	59.7	53.0	69.23	1,857.8	1,954.3	3,460.0	3,357.8	102.22	33.848		
15,300.0	13,200.0	13,933.8	11,971.5	60.6	54.4	69.20	1,999.5	1,952.7	3,460.0	3,355.4	104.62	33.072		
15,400.0	13,200.0	14,085.1	11,969.5	61.6	56.1	69.16	2,150.7	1,948.5	3,458.5	3,351.3	107.24	32.251		
15,500.0	13,200.0	14,160.0	11,968.5	62.5	56.9	69.13	2,225.6	1,946.3	3,457.0	3,348.2	108.87	31.753		
15,570.4	13,200.0	14,185.7	11,968.1	63.2	57.2	69.12	2,251.2	1,945.9	3,456.6	3,347.0	109.67	31.520		
15,600.0	13,200.0	14,199.8	11,967.9	63.5	57.4	69.12	2,265.3	1,945.7	3,456.7	3,346.7	110.04	31.412		
15,700.0	13,200.0	14,253.0	11,967.3	64.5	58.0	69.11	2,318.5	1,945.8	3,457.9	3,346.5	111.42	31.034		
15,800.0	13,200.0	14,366.8	11,967.1	65.5	59.3	69.12	2,432.3	1,947.0	3,459.7	3,345.9	113.75	30.415		
15,900.0	13,200.0	15,900.0	11,966.4	66.6	77.5	69.12	2,577.2	1,946.7	3,460.3	3,328.0	132.34	26.148		
15,950.4	13,200.0	14,565.7	11,966.2	67.2	61.6	69.11	2,631.3	1,946.0	3,460.2	3,342.4	117.78	29.380		
16,000.0	13,200.0	14,591.6	11,965.9	67.7	61.9	69.11	2,657.1	1,945.8	3,460.4	3,341.9	118.50	29.200		
16,100.0	13,200.0	14,716.8	11,962.8	68.8	63.5	69.06	2,782.3	1,944.9	3,461.5	3,340.3	121.14	28.575		
16,200.0	13,200.0	14,837.5	11,958.8	69.9	65.0	68.99	2,902.9	1,942.1	3,461.2	3,337.4	123.73	27.973		
16,300.0	13,200.0	14,944.4	11,954.5	71.1	66.4	68.90	3,009.6	1,938.3	3,460.0	3,333.9	126.13	27.431		
16,370.1	13,200.0	14,985.7	11,953.5	71.9	66.9	68.88	3,050.9	1,937.4	3,459.7	3,332.4	127.31	27.175		
16,400.0	13,200.0	15,006.0	11,953.3	72.3	67.2	68.88	3,071.2	1,937.2	3,459.8	3,331.9	127.86	27.060		
16,500.0	13,200.0	15,093.6	11,952.3	73.5	68.3	68.87	3,158.8	1,936.7	3,460.3	3,330.3	130.04	26.609		
16,600.0	13,200.0	15,150.7	11,951.5	74.7	69.0	68.85	3,215.8	1,936.6	3,461.5	3,329.8	131.72	26.279		
16,700.0	13,200.0	15,209.4	11,950.8	75.9	69.8	68.85	3,274.5	1,937.5	3,464.0	3,330.6	133.44	25.959		
16,800.0	13,200.0	15,294.8	11,948.9	77.1	70.9	68.84	3,360.0	1,939.2	3,467.4	3,331.7	135.64	25.564		
16,900.0	13,200.0	16,900.0	11,943.9	78.4	92.6	68.77	3,521.9	1,940.3	3,469.7	3,312.0	157.73	21.998		
17,000.0	13,200.0	15,711.0	11,945.5	79.7	76.6	68.79	3,776.0	1,937.1	3,468.8	3,324.4	144.47	24.011		
17,100.0	13,200.0	15,837.7	11,949.1	81.0	78.4	68.83	3,902.5	1,932.9	3,465.4	3,317.9	147.54	23.488		
17,200.0	13,200.0	15,896.2	11,951.0	82.3	79.2	68.85	3,961.0	1,931.3	3,462.4	3,312.9	149.45	23.168		
17,300.0	13,200.0	15,951.0	11,953.0	83.6	80.0	68.88	4,015.8	1,930.7	3,460.8	3,309.5	151.29	22.876		
17,383.7	13,200.0	15,999.8	11,954.4	84.7	80.6	68.90	4,064.5	1,930.7	3,460.5	3,307.6	152.88	22.635		
17,400.0	13,200.0	16,010.9	11,954.6	84.9	80.8	68.91	4,075.7	1,930.8	3,460.5	3,307.3	153.22	22.585		
17,500.0	13,200.0	16,068.9	11,955.2	86.3	81.6	68.92	4,133.6	1,930.9	3,461.2	3,306.1	155.09	22.317		
17,600.0	13,200.0	16,116.1	11,955.3	87.6	82.3	68.93	4,180.9	1,931.7	3,463.3	3,306.6	156.75	22.094		
17,700.0	13,200.0	16,190.4	11,955.1	89.0	83.3	68.94	4,255.1	1,933.8	3,466.7	3,307.8	158.93	21.813		
17,800.0	13,200.0	16,278.7	11,954.6	90.3	84.6	68.95	4,343.3	1,936.5	3,470.5	3,309.1	161.39	21.504		
17,900.0	13,200.0	16,394.2	11,953.2	91.7	86.2	68.96	4,458.8	1,940.0	3,474.5	3,310.1	164.39	21.136		
18,000.0	13,200.0	16,538.7	11,952.1	93.1	88.3	68.96	4,603.3	1,942.8	3,477.3	3,309.3	167.99	20.700		
18,100.0	13,200.0	18,100.0	11,952.8	94.5	111.1	68.99	4,746.5	1,944.3	3,478.8	3,287.5	191.27	18.188		
18,200.0	13,200.0	16,792.4	11,953.9	95.9	92.0	69.01	4,856.9	1,944.4	3,479.2	3,304.7	174.56	19.931		
18,300.0	13,200.0	16,884.7	11,954.7	97.3	93.4	69.03	4,949.3	1,944.8	3,480.0	3,302.8	177.20	19.639		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 161-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,400.0	13,200.0	16,969.5	11,955.8	98.7	94.6	69.06	5,034.0	1,945.6	3,481.2	3,301.5	179.70	19.372		
18,500.0	13,200.0	17,177.0	11,960.4	100.2	97.7	69.14	5,241.4	1,945.6	3,481.2	3,296.6	184.63	18.855		
18,600.0	13,200.0	17,293.0	11,963.4	101.6	99.5	69.17	5,357.4	1,943.0	3,478.9	3,291.1	187.79	18.526		
18,700.0	13,200.0	17,504.5	11,971.0	103.0	102.7	69.26	5,568.6	1,936.6	3,475.9	3,283.2	192.71	18.037		
18,800.0	13,200.0	17,555.0	11,971.7	104.5	103.4	69.26	5,619.0	1,934.1	3,471.4	3,276.7	194.69	17.831		
18,900.0	13,200.0	17,603.2	11,972.0	105.9	104.2	69.26	5,667.2	1,932.3	3,468.3	3,271.7	196.59	17.642		
19,000.0	13,200.0	17,702.2	11,973.0	107.4	105.7	69.26	5,766.1	1,929.8	3,466.3	3,266.8	199.44	17.380		
19,100.0	13,200.0	17,743.0	11,973.8	108.9	106.3	69.27	5,806.9	1,928.5	3,464.2	3,263.0	201.19	17.219		
19,167.9	13,200.0	17,784.8	11,974.6	109.9	106.9	69.28	5,848.7	1,927.8	3,463.4	3,260.8	202.63	17.092		
19,200.0	13,200.0	17,793.7	11,974.8	110.3	107.1	69.28	5,857.6	1,927.8	3,463.5	3,260.4	203.10	17.054		
19,300.0	13,200.0	17,839.0	11,975.1	111.8	107.7	69.30	5,902.9	1,928.8	3,465.4	3,260.5	204.86	16.916		
19,400.0	13,200.0	17,923.6	11,975.3	113.3	109.0	69.32	5,987.4	1,931.2	3,468.6	3,261.2	207.44	16.721		
19,500.0	13,200.0	17,994.8	11,975.1	114.8	110.1	69.33	6,058.7	1,932.9	3,471.6	3,261.9	209.72	16.554		
19,600.0	13,200.0	18,088.4	11,973.7	116.3	111.5	69.32	6,152.2	1,935.5	3,475.5	3,263.0	212.46	16.358		
19,700.0	13,200.0	18,271.7	11,973.5	117.8	114.3	69.34	6,335.4	1,937.6	3,476.7	3,259.6	217.14	16.011		
19,800.0	13,200.0	18,333.6	11,972.5	119.3	115.3	69.33	6,397.4	1,937.9	3,478.6	3,259.3	219.24	15.866		
19,900.0	13,200.0	18,404.0	11,970.2	120.8	116.4	69.30	6,467.7	1,938.7	3,481.5	3,260.0	221.49	15.718		
20,000.0	13,200.0	18,582.3	11,966.0	122.3	119.1	69.25	6,645.9	1,939.8	3,483.6	3,257.6	226.00	15.414		
20,100.0	13,200.0	18,714.0	11,963.1	123.8	121.2	69.21	6,777.7	1,938.6	3,484.3	3,254.8	229.52	15.181		
20,200.0	13,200.0	18,854.5	11,961.2	125.3	123.4	69.17	6,918.0	1,935.4	3,483.2	3,250.0	233.21	14.936		
20,300.0	13,200.0	18,923.5	11,959.8	126.8	124.4	69.14	6,987.0	1,933.9	3,482.5	3,247.0	235.51	14.787		
20,316.2	13,200.0	18,933.6	11,959.6	127.1	124.6	69.13	6,997.1	1,933.7	3,482.5	3,246.7	235.86	14.765		
20,400.0	13,200.0	18,985.9	11,958.0	128.4	125.4	69.11	7,049.4	1,932.9	3,482.9	3,245.2	237.66	14.655		
20,500.0	13,200.0	19,049.2	11,955.8	129.9	126.4	69.07	7,112.7	1,932.6	3,484.3	3,244.5	239.79	14.530		
20,600.0	13,200.0	19,206.5	11,951.7	131.4	128.9	69.01	7,269.9	1,931.8	3,485.5	3,241.7	243.86	14.293		
20,700.0	13,200.0	19,334.0	11,951.0	132.9	130.9	69.00	7,397.4	1,930.4	3,485.5	3,238.1	247.36	14.091		
20,800.0	13,200.0	19,513.8	11,953.6	134.5	133.7	69.03	7,577.1	1,926.4	3,483.3	3,231.4	251.90	13.828		
20,900.0	13,200.0	19,632.0	11,957.6	136.0	135.6	69.07	7,695.2	1,922.2	3,479.5	3,224.2	255.27	13.631		
21,000.0	13,200.0	19,688.2	11,959.6	137.6	136.4	69.09	7,751.3	1,920.5	3,476.3	3,218.9	257.46	13.502		
21,100.0	13,200.0	19,726.0	11,960.3	139.1	137.0	69.10	7,789.1	1,920.0	3,475.2	3,216.0	259.23	13.406		
21,108.3	13,200.0	19,726.0	11,960.3	139.2	137.0	69.10	7,789.1	1,920.0	3,475.2	3,215.9	259.31	13.402		
21,200.0	13,200.0	19,799.7	11,961.0	140.7	138.2	69.11	7,862.7	1,919.9	3,475.5	3,213.8	261.69	13.281		
21,300.0	13,200.0	19,915.0	11,962.7	142.2	140.0	69.14	7,978.1	1,919.5	3,475.3	3,210.2	265.03	13.113		
21,332.6	13,200.0	19,950.3	11,963.3	142.7	140.6	69.15	8,013.3	1,919.3	3,475.0	3,209.0	266.08	13.060		
21,332.6	13,200.0	19,950.3	11,963.3	142.7	140.6	69.15	8,013.3	1,919.3	3,475.0	3,209.0	266.08	13.060		
21,400.0	13,200.0	19,980.6	11,963.7	143.8	141.1	69.16	8,043.6	1,919.3	3,475.4	3,208.1	267.33	13.000		
21,500.0	13,200.0	20,137.4	11,966.0	145.3	143.5	69.21	8,200.4	1,920.1	3,476.3	3,204.7	271.56	12.801		
21,600.0	13,200.0	20,228.0	11,968.7	146.9	145.0	69.25	8,291.0	1,919.8	3,475.7	3,201.3	274.43	12.665		
21,629.5	13,200.0	20,247.3	11,969.1	147.3	145.3	69.26	8,310.3	1,919.8	3,475.6	3,200.5	275.12	12.633		
21,700.0	13,200.0	20,294.0	11,969.6	148.4	146.0	69.27	8,356.9	1,919.8	3,475.9	3,199.1	276.75	12.560		
21,800.0	13,200.0	20,376.2	11,968.6	150.0	147.3	69.26	8,439.2	1,919.6	3,476.8	3,197.5	279.36	12.446		
21,900.0	13,200.0	20,482.2	11,965.7	151.5	149.0	69.21	8,545.1	1,919.0	3,478.0	3,195.6	282.43	12.314		
22,000.0	13,200.0	20,568.6	11,963.0	153.1	150.4	69.17	8,631.5	1,918.5	3,479.2	3,194.1	285.09	12.204		
22,100.0	13,200.0	20,645.0	11,960.0	154.7	151.6	69.13	8,707.8	1,918.1	3,481.0	3,193.4	287.52	12.107		
22,200.0	13,200.0	20,759.8	11,954.0	156.2	153.4	69.04	8,822.5	1,917.5	3,483.0	3,192.3	290.72	11.981		
22,300.0	13,200.0	20,841.1	11,949.0	157.8	154.7	68.96	8,903.6	1,916.6	3,485.0	3,191.7	293.21	11.886		
22,400.0	13,200.0	21,062.7	11,938.6	159.4	158.3	68.79	9,124.9	1,912.8	3,486.2	3,187.7	298.50	11.679		
22,500.0	13,200.0	21,137.4	11,935.8	161.0	159.5	68.73	9,199.5	1,910.4	3,485.3	3,184.3	300.94	11.581		
22,600.0	13,200.0	21,223.1	11,931.0	162.5	160.8	68.65	9,285.0	1,907.6	3,485.0	3,181.4	303.53	11.481		
22,700.0	13,200.0	21,332.0	11,923.5	164.1	162.6	68.51	9,393.6	1,903.6	3,484.8	3,178.2	306.52	11.369		
22,800.0	13,200.0	21,461.2	11,914.4	165.7	164.7	68.34	9,522.4	1,897.6	3,483.7	3,173.8	309.85	11.243		
22,900.0	13,200.0	21,569.5	11,908.9	167.3	166.4	68.24	9,630.4	1,893.3	3,482.7	3,169.8	312.87	11.132		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		Nina Cortell - Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1										Offset Site Error:	0.0 usft
Survey Program:		161-MWD										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
23,000.0	13,200.0	21,670.2	11,906.0	168.9	168.1	68.17	9,731.0	1,889.5	3,480.9	3,165.1	315.80	11.023	
23,100.0	13,200.0	21,820.6	11,900.6	170.4	170.5	68.06	9,881.2	1,883.3	3,479.4	3,159.8	319.59	10.887	
23,200.0	13,200.0	21,914.1	11,895.5	172.0	172.0	67.95	9,974.3	1,877.9	3,476.8	3,154.5	322.32	10.787	
23,300.0	13,200.0	22,044.1	11,886.6	173.6	174.1	67.77	10,103.7	1,869.0	3,473.7	3,148.1	325.57	10.670	
23,400.0	13,200.0	22,057.0	11,885.7	175.2	174.3	67.75	10,116.6	1,868.0	3,471.2	3,144.3	326.92	10.618	
23,436.1	13,200.0	22,057.0	11,885.7	175.8	174.3	67.75	10,116.6	1,868.0	3,471.0	3,143.7	327.28	10.606	
23,504.9	13,200.0	22,057.0	11,885.7	176.9	174.3	67.75	10,116.6	1,868.0	3,471.7	3,143.8	327.87	10.589 SF	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.34	26.9	2,343.1	2,343.3					
100.0	100.0	92.2	92.2	0.1	0.1	89.34	26.9	2,343.3	2,343.4	2,343.2	0.27	8,760.882		
200.0	200.0	183.7	183.7	0.5	0.3	89.35	26.8	2,343.7	2,343.9	2,343.2	0.78	2,991.521		
300.0	300.0	280.7	280.7	0.8	0.6	89.35	26.8	2,344.6	2,344.8	2,343.3	1.49	1,574.741		
400.0	400.0	376.3	376.3	1.2	1.0	89.34	26.9	2,345.4	2,345.7	2,343.5	2.19	1,071.142		
500.0	500.0	471.5	471.5	1.6	1.3	89.34	27.0	2,346.5	2,346.8	2,343.9	2.89	812.128		
600.0	600.0	576.0	576.0	1.9	1.7	89.33	27.3	2,347.7	2,347.9	2,344.3	3.62	648.287		
700.0	700.0	686.7	686.6	2.3	2.1	89.33	27.4	2,348.5	2,348.7	2,344.3	4.38	536.725		
800.0	800.0	786.2	786.2	2.6	2.5	89.33	27.4	2,349.1	2,349.3	2,344.2	5.09	461.503		
900.0	900.0	896.6	896.5	3.0	2.8	89.34	27.1	2,349.6	2,349.7	2,343.9	5.84	402.570		
1,000.0	1,000.0	1,013.9	1,013.8	3.4	3.2	89.35	26.8	2,349.3	2,349.5	2,342.9	6.59	356.420		
1,100.0	1,100.0	1,114.0	1,113.9	3.7	3.6	89.37	25.9	2,348.6	2,348.8	2,341.5	7.29	322.281		
1,167.5	1,167.5	1,167.5	1,167.5	4.0	3.8	89.38	25.2	2,348.4	2,348.5	2,340.8	7.72	304.398		
1,200.0	1,200.0	1,190.5	1,190.5	4.1	3.8	89.39	24.9	2,348.4	2,348.6	2,340.7	7.91	296.811 ES		
1,300.0	1,300.0	1,257.2	1,257.1	4.4	4.1	89.42	23.7	2,349.1	2,349.7	2,341.1	8.51	276.224		
1,400.0	1,400.0	1,329.0	1,328.9	4.8	4.3	89.46	22.2	2,351.2	2,352.4	2,343.3	9.12	257.936		
1,500.0	1,500.0	1,372.6	1,372.4	5.1	4.5	89.49	21.1	2,353.3	2,356.8	2,347.2	9.63	244.732		
1,600.0	1,600.0	1,420.0	1,419.7	5.5	4.7	89.52	19.9	2,356.2	2,363.2	2,353.0	10.15	232.841		
1,700.0	1,700.0	1,475.5	1,475.0	5.9	4.9	89.55	18.5	2,360.8	2,371.6	2,360.9	10.70	221.746		
1,800.0	1,800.0	1,511.0	1,510.3	6.2	5.0	89.57	17.7	2,364.5	2,382.2	2,371.1	11.16	213.514		
1,900.0	1,900.0	1,577.2	1,576.0	6.6	5.2	89.61	16.0	2,372.6	2,394.7	2,383.0	11.74	204.050		
2,000.0	2,000.0	1,632.7	1,630.9	6.9	5.5	89.66	14.3	2,380.7	2,409.2	2,396.9	12.26	196.430		
2,100.0	2,100.0	1,697.0	1,694.3	7.3	5.7	89.71	12.2	2,391.1	2,425.3	2,412.5	12.83	189.042		
2,200.0	2,200.0	1,788.9	1,784.8	7.7	6.1	89.77	9.5	2,406.8	2,442.3	2,428.8	13.51	180.782		
2,300.0	2,300.0	1,909.5	1,903.7	8.0	6.5	89.86	5.9	2,427.0	2,459.1	2,444.8	14.32	171.753		
2,400.0	2,400.0	2,072.8	2,065.1	8.4	7.2	90.01	-0.3	2,450.7	2,473.5	2,458.2	15.31	161.526		
2,500.0	2,500.0	2,150.2	2,141.7	8.7	7.5	90.06	-2.8	2,461.5	2,487.5	2,471.5	15.94	156.064		
2,600.0	2,600.0	2,235.4	2,225.9	9.1	7.9	90.13	-5.4	2,474.0	2,502.2	2,485.6	16.60	150.758		
2,700.0	2,700.0	2,373.8	2,362.8	9.4	8.4	90.24	-10.5	2,493.8	2,516.5	2,499.0	17.49	143.876		
2,800.0	2,800.0	2,468.3	2,456.4	9.8	8.8	90.32	-14.2	2,506.5	2,530.0	2,511.8	18.19	139.065		
2,900.0	2,900.0	2,558.9	2,546.1	10.2	9.2	90.40	-17.4	2,519.0	2,543.8	2,524.9	18.88	134.754		
3,000.0	3,000.0	2,668.9	2,655.0	10.5	9.6	90.45	-20.0	2,533.8	2,557.2	2,537.6	19.65	130.166		
3,100.0	3,100.0	2,749.6	2,734.9	10.9	10.0	90.48	-21.1	2,545.0	2,571.2	2,550.9	20.28	126.757		
3,200.0	3,200.0	2,866.0	2,850.2	11.2	10.5	90.52	-23.2	2,561.1	2,585.0	2,563.9	21.08	122.617		
3,300.0	3,300.0	2,954.5	2,937.9	11.6	10.8	90.57	-25.7	2,573.0	2,598.5	2,576.8	21.76	119.434		
3,400.0	3,400.0	3,018.0	3,000.6	12.0	11.1	90.62	-28.1	2,582.3	2,613.1	2,590.8	22.32	117.093		
3,500.0	3,500.0	3,097.6	3,079.2	12.3	11.4	90.68	-30.9	2,594.7	2,628.8	2,605.9	22.95	114.546		
3,600.0	3,600.0	3,231.7	3,211.7	12.7	12.0	90.71	-32.6	2,615.4	2,644.2	2,620.4	23.83	110.943		
3,700.0	3,700.0	3,370.0	3,351.9	13.0	13.9	90.69	-31.7	2,634.9	2,658.0	2,632.0	25.94	102.470		
3,800.0	3,800.0	3,504.6	3,482.3	13.4	13.1	90.69	-32.0	2,650.7	2,669.8	2,644.2	25.60	104.271		
3,900.0	3,900.0	3,577.3	3,554.4	13.8	13.4	90.70	-32.7	2,659.7	2,682.2	2,656.0	26.21	102.345		
4,000.0	4,000.0	3,637.1	3,613.7	14.1	13.6	90.72	-33.4	2,667.8	2,695.8	2,669.1	26.75	100.780		
4,100.0	4,100.0	3,696.4	3,672.3	14.5	13.9	90.73	-34.0	2,676.7	2,710.9	2,683.6	27.28	99.365		
4,200.0	4,200.0	3,758.4	3,733.4	14.8	14.2	90.74	-34.5	2,686.9	2,727.3	2,699.5	27.82	98.025		
4,300.0	4,300.0	3,912.7	3,885.6	15.2	14.8	90.80	-37.7	2,712.2	2,743.9	2,715.1	28.82	95.212		
4,400.0	4,400.0	4,079.9	4,051.0	15.5	15.5	90.96	-45.6	2,734.9	2,757.4	2,727.6	29.86	92.330		
4,500.0	4,500.0	4,171.6	4,142.0	15.9	15.9	90.99	-47.5	2,746.5	2,770.2	2,739.6	30.55	90.666		
4,600.0	4,600.0	4,261.2	4,230.8	16.3	16.3	91.00	-48.2	2,758.3	2,783.3	2,752.1	31.23	89.121		
4,700.0	4,700.0	4,373.0	4,341.7	16.6	16.7	91.02	-49.2	2,772.9	2,796.3	2,764.3	32.01	87.357		
4,800.0	4,800.0	4,471.2	4,439.1	17.0	17.1	91.03	-50.2	2,785.4	2,809.1	2,776.4	32.73	85.832		
4,900.0	4,900.0	4,687.0	4,653.5	17.3	18.0	91.15	-56.4	2,808.7	2,820.0	2,786.1	33.96	83.046		
5,000.0	5,000.0	4,800.6	4,766.6	17.7	18.4	91.21	-59.7	2,818.2	2,828.5	2,793.8	34.74	81.429		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	4,887.3	4,853.0	18.1	18.8	91.25	-61.8	2,825.5	2,837.0	2,801.6	35.40	80.132		
5,200.0	5,200.0	4,957.9	4,923.2	18.4	19.1	91.28	-63.3	2,832.0	2,846.2	2,810.2	36.00	79.052		
5,300.0	5,300.0	5,032.1	4,997.1	18.8	19.3	91.31	-65.0	2,839.5	2,856.4	2,819.8	36.62	78.008		
5,400.0	5,400.0	5,110.9	5,075.3	19.1	19.7	91.35	-66.9	2,848.1	2,867.3	2,830.1	37.25	76.980		
5,500.0	5,500.0	5,182.0	5,145.9	19.5	20.0	91.38	-68.9	2,856.4	2,879.1	2,841.2	37.84	76.083		
5,600.0	5,600.0	5,257.2	5,220.5	19.8	20.3	91.43	-71.4	2,865.8	2,891.7	2,853.3	38.45	75.203		
5,700.0	5,700.0	5,335.9	5,298.4	20.2	20.6	91.48	-74.5	2,876.4	2,905.2	2,866.2	39.08	74.342		
5,800.0	5,800.0	5,415.8	5,377.5	20.6	20.9	91.54	-77.8	2,887.6	2,919.4	2,879.7	39.71	73.517		
5,900.0	5,900.0	5,495.0	5,455.8	20.9	21.3	91.60	-81.1	2,899.2	2,934.2	2,893.9	40.34	72.743		
6,000.0	6,000.0	5,572.8	5,532.5	21.3	21.6	91.65	-84.1	2,911.2	2,949.7	2,908.7	40.95	72.025		
6,100.0	6,100.0	5,650.0	5,608.7	21.6	21.9	91.71	-87.1	2,923.6	2,965.9	2,924.3	41.57	71.354		
6,200.0	6,200.0	5,735.0	5,692.4	22.0	22.3	91.76	-90.4	2,937.8	2,982.7	2,940.5	42.22	70.648		
6,300.0	6,300.0	5,813.7	5,769.9	22.4	22.7	91.82	-93.7	2,951.3	3,000.0	2,957.2	42.84	70.033		
6,400.0	6,400.0	5,893.2	5,848.0	22.7	23.0	91.88	-97.1	2,965.5	3,018.0	2,974.5	43.46	69.446		
6,500.0	6,500.0	5,966.2	5,919.7	23.1	23.4	91.93	-100.2	2,979.0	3,036.7	2,992.6	44.04	68.951		
6,600.0	6,600.0	6,000.0	6,111.6	23.4	26.2	92.07	-108.9	3,013.8	3,055.0	3,008.1	46.97	65.041		
6,700.0	6,700.0	6,323.9	6,272.2	23.8	25.0	92.21	-117.3	3,037.5	3,069.7	3,023.3	46.36	66.212		
6,800.0	6,800.0	6,456.4	6,403.4	24.1	25.5	92.29	-122.3	3,054.8	3,082.8	3,035.6	47.25	65.244		
6,900.0	6,900.0	6,563.5	6,509.6	24.5	26.0	92.34	-125.5	3,068.3	3,095.6	3,047.5	48.01	64.474		
7,000.0	7,000.0	6,670.4	6,615.6	24.9	26.4	92.39	-128.7	3,081.5	3,108.0	3,059.3	48.77	63.724		
7,100.0	7,100.0	6,752.7	6,697.2	25.2	26.7	-162.04	-131.4	3,091.8	3,121.5	3,072.1	49.41	63.181		
7,200.0	7,200.0	6,835.7	6,779.5	25.5	27.1	-161.96	-134.1	3,102.6	3,137.1	3,087.1	50.03	62.706		
7,300.0	7,299.9	6,910.7	6,853.7	25.9	27.4	-161.88	-137.0	3,112.8	3,155.0	3,104.4	50.61	62.336		
7,400.0	7,399.7	6,987.0	6,929.2	26.2	27.7	-161.79	-140.0	3,123.8	3,175.2	3,124.0	51.20	62.016		
7,500.0	7,499.4	7,073.9	7,015.1	26.6	28.1	-161.70	-143.7	3,136.7	3,197.6	3,145.7	51.84	61.679		
7,600.0	7,598.9	7,163.7	7,103.7	26.9	28.5	-161.61	-147.8	3,150.1	3,221.7	3,169.2	52.50	61.366		
7,700.0	7,698.3	7,234.0	7,173.1	27.2	28.8	-161.52	-151.3	3,161.0	3,248.0	3,194.9	53.05	61.222		
7,800.0	7,797.4	7,404.9	7,342.0	27.6	29.5	-161.44	-158.8	3,185.8	3,274.5	3,220.4	54.14	60.486		
7,900.0	7,896.3	7,497.4	7,433.5	27.9	29.9	-161.37	-162.8	3,198.5	3,302.2	3,247.4	54.81	60.251		
8,000.0	7,994.9	7,574.6	7,509.9	28.3	30.3	-161.29	-166.1	3,209.3	3,331.8	3,276.4	55.40	60.141		
8,100.0	8,093.3	7,650.7	7,585.1	28.6	30.6	-161.21	-169.4	3,220.5	3,363.5	3,307.5	55.99	60.079		
8,182.6	8,174.2	7,712.9	7,646.5	28.9	30.9	-161.14	-172.4	3,229.9	3,391.3	3,334.8	56.46	60.060		
8,200.0	8,191.3	7,724.5	7,658.0	29.0	30.9	-161.15	-173.0	3,231.7	3,397.3	3,340.8	56.56	60.068		
8,300.0	8,289.1	7,796.0	7,728.5	29.4	31.2	-161.18	-176.7	3,243.0	3,432.3	3,375.2	57.12	60.094		
8,400.0	8,387.0	8,400.0	7,971.5	29.7	33.8	-161.37	-183.7	3,278.3	3,466.3	3,406.4	59.90	57.866		
8,500.0	8,484.9	8,516.9	8,445.5	30.1	34.0	-161.90	-184.2	3,306.3	3,489.0	3,428.3	60.70	57.482		
8,600.0	8,582.8	8,622.1	8,550.8	30.5	34.3	-162.00	-185.2	3,307.3	3,509.5	3,448.1	61.40	57.159		
8,700.0	8,680.6	8,728.9	8,657.6	30.9	34.7	-162.09	-186.3	3,308.2	3,529.8	3,467.7	62.10	56.838		
8,800.0	8,778.5	8,828.7	8,757.3	31.2	35.0	-162.17	-187.6	3,308.7	3,550.0	3,487.2	62.79	56.540		
8,900.0	8,876.4	8,933.4	8,862.0	31.6	35.3	-162.26	-189.0	3,309.2	3,570.0	3,506.5	63.49	56.234		
9,000.0	8,974.3	9,034.9	8,963.5	32.0	35.6	-162.34	-190.3	3,309.6	3,590.0	3,525.8	64.17	55.943		
9,100.0	9,072.1	9,173.2	9,101.8	32.4	36.0	-162.47	-190.8	3,309.1	3,609.2	3,544.3	64.94	55.580		
9,200.0	9,170.0	9,284.3	9,212.9	32.8	36.4	-162.60	-189.5	3,308.0	3,627.8	3,562.2	65.62	55.281		
9,300.0	9,267.9	9,381.5	9,310.0	33.2	36.6	-162.72	-187.8	3,306.9	3,646.2	3,579.9	66.28	55.011		
9,400.0	9,365.8	9,468.0	9,396.5	33.6	36.9	-162.83	-186.7	3,306.0	3,664.8	3,597.9	66.91	54.769		
9,500.0	9,463.7	9,579.2	9,507.7	34.0	37.2	-162.94	-186.0	3,305.0	3,683.5	3,615.9	67.61	54.485		
9,600.0	9,561.5	9,707.7	9,636.2	34.4	37.6	-163.08	-185.0	3,303.0	3,701.6	3,633.3	68.34	54.166		
9,700.0	9,659.4	9,821.3	9,749.8	34.8	37.9	-163.20	-183.8	3,300.3	3,718.9	3,649.9	69.03	53.871		
9,800.0	9,757.3	9,903.5	9,832.0	35.2	38.1	-163.29	-182.9	3,298.5	3,736.3	3,666.7	69.66	53.635		
9,900.0	9,855.2	9,976.7	9,905.2	35.6	38.3	-163.37	-182.3	3,297.3	3,754.4	3,684.1	70.27	53.429		
10,000.0	9,953.0	10,079.4	10,007.8	36.0	38.6	-163.47	-181.8	3,295.9	3,772.7	3,701.8	70.95	53.176		
10,100.0	10,050.9	10,186.1	10,114.5	36.4	39.0	-163.56	-182.0	3,294.1	3,790.8	3,719.2	71.64	52.916		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,274.8	10,203.2	36.9	39.2	-163.64	-182.1	3,292.8	3,809.0	3,736.7	72.29	52.693		
10,300.0	10,246.7	10,362.3	10,290.7	37.3	39.5	-163.71	-182.1	3,291.6	3,827.4	3,754.4	72.93	52.479		
10,400.0	10,344.6	10,439.5	10,367.8	37.7	39.7	-163.78	-182.2	3,290.9	3,846.2	3,772.7	73.55	52.293		
10,500.0	10,442.4	10,563.5	10,491.9	38.1	40.1	-163.87	-183.0	3,289.6	3,864.9	3,790.6	74.30	52.017		
10,600.0	10,540.3	10,645.1	10,573.5	38.5	40.3	-163.93	-183.8	3,288.7	3,883.5	3,808.5	74.94	51.822		
10,700.0	10,638.2	10,698.9	10,627.2	39.0	40.5	-163.97	-184.3	3,288.5	3,902.9	3,827.4	75.50	51.695		
10,800.0	10,736.1	10,781.7	10,710.1	39.4	40.8	-164.03	-185.3	3,289.0	3,923.2	3,847.1	76.15	51.520		
10,900.0	10,833.9	10,896.7	10,825.1	39.8	41.1	-164.10	-187.0	3,289.6	3,943.5	3,866.6	76.91	51.277		
11,000.0	10,931.8	11,000.0	10,936.1	40.2	41.5	-164.16	-189.0	3,289.5	3,963.1	3,885.5	77.62	51.060		
11,100.0	11,029.7	11,062.1	10,990.4	40.7	41.7	-164.19	-189.8	3,289.7	3,983.2	3,905.0	78.20	50.934		
11,200.0	11,127.6	11,124.1	11,052.4	41.1	41.9	-164.24	-190.0	3,290.7	4,004.5	3,925.7	78.78	50.829		
11,300.0	11,225.5	11,215.3	11,143.6	41.5	42.2	-164.31	-190.0	3,292.5	4,026.2	3,946.8	79.47	50.665		
11,400.0	11,323.3	11,324.7	11,253.0	42.0	42.6	-164.40	-190.0	3,294.6	4,047.8	3,967.6	80.22	50.462		
11,500.0	11,421.2	11,856.9	11,754.1	42.4	44.0	-166.44	-73.8	3,276.8	4,065.2	3,983.3	81.88	49.651		
11,523.5	11,444.2	11,867.7	11,762.2	42.5	44.0	-166.55	-66.7	3,275.9	4,068.0	3,986.0	82.01	49.604		
11,600.0	11,519.2	11,902.3	11,787.4	42.8	44.0	-166.93	-43.1	3,273.1	4,077.1	3,994.7	82.44	49.455		
11,700.0	11,617.7	11,969.7	11,834.6	43.3	44.1	-167.67	4.7	3,267.9	4,088.1	4,005.0	83.02	49.241		
11,800.0	11,716.7	11,993.0	11,850.5	43.7	44.1	-167.95	21.7	3,266.1	4,098.0	4,014.5	83.52	49.068		
11,900.0	11,815.9	11,993.0	11,850.5	44.1	44.1	-167.98	21.7	3,266.1	4,107.8	4,023.8	83.93	48.941		
12,000.0	11,915.5	11,993.0	11,850.5	44.4	44.1	-168.01	21.7	3,266.1	4,117.4	4,033.1	84.31	48.838		
12,100.0	12,015.2	11,993.0	11,850.5	44.8	44.1	-168.04	21.7	3,266.1	4,126.9	4,042.2	84.64	48.760		
12,200.0	12,115.1	11,993.0	11,850.5	45.2	44.1	-168.07	21.7	3,266.1	4,136.2	4,051.3	84.92	48.707		
12,300.0	12,215.1	11,993.0	11,850.5	45.5	44.1	-168.10	21.7	3,266.1	4,145.4	4,060.2	85.16	48.677		
12,311.9	12,227.0	11,993.0	11,850.5	45.5	44.1	86.41	21.7	3,266.1	4,146.5	4,061.3	85.19	48.675		
12,400.0	12,315.1	11,993.0	11,850.5	45.8	44.1	86.41	21.7	3,266.1	4,155.4	4,070.0	85.36	48.679		
12,500.0	12,415.1	11,993.0	11,850.5	46.2	44.1	86.41	21.7	3,266.1	4,167.8	4,082.2	85.53	48.731		
12,600.0	12,515.1	12,037.8	11,880.9	46.5	44.2	85.95	54.4	3,265.6	4,179.4	4,093.5	85.84	48.689		
12,700.0	12,615.1	12,043.0	11,884.5	46.9	44.2	85.90	58.3	3,265.9	4,195.7	4,109.7	85.96	48.809		
12,711.9	12,627.0	12,043.7	11,884.9	46.9	44.2	85.90	58.7	3,265.9	4,197.8	4,111.8	85.97	48.826		
12,750.0	12,665.1	12,086.0	11,913.7	47.0	44.3	106.75	89.3	3,271.5	4,207.5	4,121.3	86.19	48.815		
12,800.0	12,714.8	12,086.0	11,913.7	47.2	44.3	105.69	89.3	3,271.5	4,218.3	4,132.1	86.23	48.922		
12,850.0	12,763.8	12,086.0	11,913.7	47.4	44.3	104.44	89.3	3,271.5	4,230.8	4,144.5	86.25	49.054		
12,900.0	12,811.8	12,086.0	11,913.7	47.5	44.3	103.02	89.3	3,271.5	4,244.9	4,158.6	86.26	49.211		
12,950.0	12,858.3	12,086.0	11,913.7	47.7	44.3	101.42	89.3	3,271.5	4,260.4	4,174.2	86.26	49.391		
13,000.0	12,903.1	12,086.0	11,913.7	47.8	44.3	99.65	89.3	3,271.5	4,277.3	4,191.1	86.25	49.590		
13,050.0	12,945.8	12,086.0	11,913.7	48.0	44.3	97.73	89.3	3,271.5	4,295.4	4,209.2	86.24	49.806		
13,100.0	12,986.1	12,086.0	11,913.7	48.1	44.3	95.68	89.3	3,271.5	4,314.6	4,228.3	86.23	50.036		
13,150.0	13,023.7	12,086.0	11,913.7	48.3	44.3	93.50	89.3	3,271.5	4,334.6	4,248.4	86.21	50.277		
13,200.0	13,058.2	12,086.0	11,913.7	48.4	44.3	91.22	89.3	3,271.5	4,355.3	4,269.1	86.20	50.525		
13,250.0	13,089.4	12,086.0	11,913.7	48.5	44.3	88.86	89.3	3,271.5	4,376.6	4,290.4	86.19	50.777		
13,300.0	13,117.2	12,086.0	11,913.7	48.7	44.3	86.46	89.3	3,271.5	4,398.3	4,312.1	86.19	51.030		
13,350.0	13,141.1	12,086.0	11,913.7	48.8	44.3	84.03	89.3	3,271.5	4,420.2	4,334.0	86.20	51.279		
13,400.0	13,161.2	12,086.0	11,913.7	48.9	44.3	81.61	89.3	3,271.5	4,442.2	4,356.0	86.22	51.521		
13,450.0	13,177.2	12,086.0	11,913.7	49.1	44.3	79.21	89.3	3,271.5	4,464.0	4,377.8	86.26	51.753		
13,500.0	13,189.1	12,086.0	11,913.7	49.2	44.3	76.87	89.3	3,271.5	4,485.6	4,399.3	86.31	51.973		
13,550.0	13,196.6	12,086.0	11,913.7	49.4	44.3	74.62	89.3	3,271.5	4,506.7	4,420.3	86.37	52.178		
13,600.0	13,199.8	12,086.0	11,913.7	49.6	44.3	72.46	89.3	3,271.5	4,527.2	4,440.8	86.45	52.366		
13,611.9	13,200.0	12,086.0	11,913.7	49.6	44.3	71.96	89.3	3,271.5	4,532.0	4,445.5	86.48	52.408		
13,700.0	13,200.0	12,086.0	11,913.7	50.0	44.3	72.19	89.3	3,271.5	4,566.8	4,480.1	86.66	52.700		
13,800.0	13,200.0	12,086.0	11,913.7	50.4	44.3	72.45	89.3	3,271.5	4,605.2	4,518.3	86.89	52.997		
13,900.0	13,200.0	12,086.0	11,913.7	50.9	44.3	72.69	89.3	3,271.5	4,642.3	4,555.1	87.16	53.260		
14,000.0	13,200.0	13,113.0	12,014.2	51.4	47.6	75.09	1,047.5	3,306.4	4,665.6	4,572.9	92.61	50.377		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	13,113.0	12,014.2	52.0	47.6	75.17	1,047.5	3,306.4	4,680.6	4,587.5	93.11	50.271		
14,200.0	13,200.0	13,173.0	12,009.5	52.6	48.0	75.20	1,107.1	3,301.5	4,693.5	4,599.5	94.02	49.920		
14,300.0	13,200.0	13,208.0	12,007.2	53.2	48.2	75.24	1,141.9	3,299.1	4,704.3	4,609.5	94.80	49.622		
14,400.0	13,200.0	13,266.8	12,003.8	53.8	48.6	75.26	1,200.6	3,295.9	4,712.8	4,617.0	95.80	49.194		
14,500.0	13,200.0	13,322.3	12,001.2	54.5	49.0	75.27	1,255.9	3,293.8	4,719.0	4,622.2	96.81	48.744		
14,600.0	13,200.0	13,405.0	11,997.0	55.1	49.6	75.24	1,338.5	3,291.1	4,722.4	4,624.4	98.08	48.149		
14,687.2	13,200.0	13,466.0	11,994.2	55.7	50.1	75.21	1,399.4	3,289.4	4,723.1	4,624.0	99.14	47.640		
14,700.0	13,200.0	13,474.9	11,993.8	55.8	50.1	75.20	1,408.3	3,289.2	4,723.0	4,623.8	99.30	47.564		
14,800.0	13,200.0	13,591.4	11,988.6	56.5	51.1	75.14	1,524.6	3,286.4	4,722.6	4,621.7	100.98	46.769		
14,881.9	13,200.0	13,639.9	11,986.1	57.1	51.5	75.10	1,573.0	3,285.2	4,722.4	4,620.4	102.00	46.299		
14,900.0	13,200.0	13,651.2	11,985.5	57.3	51.6	75.10	1,584.4	3,284.9	4,722.4	4,620.2	102.23	46.194		
15,000.0	13,200.0	13,828.2	11,981.2	58.1	53.2	75.04	1,761.2	3,281.5	4,722.0	4,617.4	104.66	45.118		
15,100.0	13,200.0	13,897.6	11,980.6	58.9	53.8	75.03	1,830.6	3,279.8	4,720.6	4,614.5	106.13	44.479		
15,165.1	13,200.0	13,923.3	11,980.3	59.4	54.1	75.03	1,856.3	3,279.4	4,720.4	4,613.4	106.92	44.149		
15,200.0	13,200.0	13,937.0	11,980.2	59.7	54.2	75.02	1,870.0	3,279.3	4,720.4	4,613.1	107.34	43.977		
15,300.0	13,200.0	14,017.9	11,979.3	60.6	55.0	75.02	1,950.8	3,279.3	4,721.4	4,612.4	109.02	43.308		
15,400.0	13,200.0	14,129.3	11,978.2	61.6	56.1	75.00	2,062.3	3,278.8	4,722.0	4,610.9	111.08	42.509		
15,500.0	13,200.0	14,252.6	11,974.5	62.5	57.4	74.96	2,185.5	3,277.4	4,722.4	4,609.1	113.34	41.667		
15,600.0	13,200.0	14,339.0	11,971.0	63.5	58.4	74.92	2,271.8	3,276.0	4,722.6	4,607.4	115.24	40.982		
15,700.0	13,200.0	14,397.2	11,968.7	64.5	59.0	74.89	2,329.9	3,275.3	4,723.4	4,606.6	116.85	40.423		
15,800.0	13,200.0	14,584.5	11,968.9	65.5	61.1	74.90	2,517.2	3,275.5	4,724.6	4,604.5	120.07	39.348		
15,900.0	13,200.0	14,679.9	11,970.7	66.6	62.2	74.92	2,612.6	3,274.5	4,723.8	4,601.6	122.25	38.641		
15,988.6	13,200.0	14,747.0	11,970.4	67.6	63.0	74.91	2,679.7	3,273.8	4,723.7	4,599.7	123.98	38.099		
16,000.0	13,200.0	14,757.0	11,970.3	67.7	63.1	74.91	2,689.7	3,273.7	4,723.7	4,599.5	124.22	38.025		
16,100.0	13,200.0	14,867.0	11,969.0	68.8	64.4	74.89	2,799.7	3,272.5	4,723.7	4,597.1	126.65	37.298		
16,200.0	13,200.0	14,977.2	11,967.4	69.9	65.8	74.87	2,909.8	3,270.8	4,723.4	4,594.2	129.12	36.583		
16,300.0	13,200.0	15,112.9	11,965.9	71.1	67.5	74.85	3,045.5	3,268.4	4,722.7	4,590.7	131.96	35.789		
16,400.0	13,200.0	15,188.0	11,965.2	72.3	68.4	74.84	3,120.6	3,266.5	4,721.4	4,587.3	134.05	35.221		
16,480.7	13,200.0	15,239.2	11,964.8	73.2	69.1	74.83	3,171.8	3,265.5	4,720.8	4,585.2	135.63	34.807		
16,500.0	13,200.0	15,246.3	11,964.7	73.5	69.1	74.83	3,178.9	3,265.4	4,720.8	4,584.9	135.94	34.728		
16,600.0	13,200.0	15,283.9	11,964.5	74.7	69.6	74.83	3,216.4	3,265.4	4,721.7	4,584.2	137.56	34.326		
16,700.0	13,200.0	15,391.7	11,963.9	75.9	71.0	74.83	3,324.3	3,266.0	4,723.2	4,583.0	140.16	33.699		
16,800.0	13,200.0	15,465.4	11,963.4	77.1	72.0	74.83	3,398.0	3,266.6	4,724.9	4,582.5	142.31	33.200		
16,900.0	13,200.0	15,621.0	11,962.2	78.4	74.0	74.82	3,553.5	3,267.2	4,726.1	4,580.5	145.65	32.449		
17,000.0	13,200.0	17,000.0	11,960.9	79.7	92.6	74.80	3,685.8	3,266.2	4,726.4	4,561.3	165.12	28.624		
17,100.0	13,200.0	15,827.6	11,960.4	81.0	76.8	74.80	3,760.1	3,265.6	4,726.6	4,575.6	150.93	31.316		
17,200.0	13,200.0	15,897.3	11,959.7	82.3	77.7	74.79	3,829.8	3,265.6	4,727.6	4,574.5	153.12	30.875		
17,300.0	13,200.0	15,965.3	11,957.4	83.6	78.7	74.76	3,897.7	3,265.6	4,729.2	4,573.9	155.29	30.454		
17,400.0	13,200.0	16,019.9	11,956.2	84.9	79.4	74.75	3,952.4	3,266.2	4,731.6	4,574.3	157.27	30.086		
17,500.0	13,200.0	16,117.3	11,956.5	86.3	80.8	74.77	4,049.7	3,268.7	4,734.7	4,574.8	159.92	29.607		
17,600.0	13,200.0	16,367.1	11,962.7	87.6	84.3	74.85	4,299.4	3,271.5	4,735.5	4,570.6	164.92	28.715		
17,700.0	13,200.0	16,477.1	11,962.1	89.0	85.8	74.85	4,409.4	3,270.0	4,735.1	4,567.3	167.80	28.219		
17,800.0	13,200.0	16,560.2	11,960.4	90.3	87.0	74.82	4,492.5	3,268.7	4,734.9	4,564.6	170.30	27.804		
17,806.2	13,200.0	16,565.0	11,960.3	90.4	87.1	74.82	4,497.3	3,268.6	4,734.9	4,564.4	170.45	27.779		
17,900.0	13,200.0	16,651.1	11,958.8	91.7	88.3	74.80	4,583.4	3,267.7	4,735.0	4,562.1	172.92	27.382		
18,000.0	13,200.0	16,744.8	11,956.2	93.1	89.7	74.77	4,677.0	3,266.4	4,735.2	4,559.6	175.60	26.966		
18,100.0	13,200.0	16,819.7	11,954.2	94.5	90.7	74.75	4,751.9	3,265.7	4,735.7	4,557.7	178.00	26.605		
18,200.0	13,200.0	16,888.0	11,953.4	95.9	91.7	74.74	4,820.2	3,265.8	4,736.9	4,556.6	180.32	26.270		
18,300.0	13,200.0	17,007.3	11,953.0	97.3	93.5	74.74	4,939.4	3,266.3	4,738.2	4,554.7	183.44	25.830		
18,400.0	13,200.0	17,126.6	11,951.8	98.7	95.2	74.73	5,058.8	3,266.6	4,739.4	4,552.9	186.57	25.403		
18,500.0	13,200.0	17,267.2	11,954.2	100.2	97.3	74.76	5,199.3	3,266.2	4,739.4	4,549.3	190.06	24.936		
18,600.0	13,200.0	17,418.0	11,955.0	101.6	99.5	74.77	5,350.1	3,264.0	4,738.5	4,544.8	193.71	24.462		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design     Nina Cortell - Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program:     174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,700.0	13,200.0	17,527.3	11,954.8	103.0	101.1	74.76	5,459.4	3,261.5	4,737.2	4,540.4	196.73	24.080		
18,800.0	13,200.0	17,620.2	11,954.3	104.5	102.5	74.75	5,552.3	3,259.3	4,735.8	4,536.3	199.51	23.738		
18,900.0	13,200.0	17,692.8	11,953.7	105.9	103.6	74.74	5,624.8	3,257.8	4,734.7	4,532.7	201.98	23.441		
19,000.0	13,200.0	17,764.9	11,954.3	107.4	104.7	74.75	5,696.9	3,257.2	4,734.3	4,529.9	204.46	23.155		
19,033.8	13,200.0	17,792.8	11,954.5	107.9	105.1	74.75	5,724.8	3,257.0	4,734.3	4,529.0	205.36	23.054		
19,100.0	13,200.0	17,854.0	11,954.6	108.9	106.0	74.75	5,786.0	3,256.6	4,734.4	4,527.2	207.21	22.848		
19,200.0	13,200.0	19,200.0	11,958.0	110.3	126.4	74.78	6,014.0	3,253.5	4,733.8	4,505.1	228.72	20.697		
19,300.0	13,200.0	18,160.6	11,960.3	111.8	110.7	74.81	6,092.5	3,251.2	4,731.0	4,516.2	214.76	22.029		
19,400.0	13,200.0	18,208.0	11,961.3	113.3	111.4	74.82	6,139.9	3,250.5	4,729.6	4,512.7	216.92	21.803		
19,500.0	13,200.0	18,290.3	11,963.0	114.8	112.6	74.84	6,222.1	3,249.9	4,729.1	4,509.5	219.61	21.534		
19,600.0	13,200.0	18,397.5	11,965.4	116.3	114.3	74.86	6,329.3	3,248.9	4,728.3	4,505.6	222.71	21.231		
19,700.0	13,200.0	18,501.8	11,967.7	117.8	115.9	74.89	6,433.6	3,247.8	4,727.5	4,501.7	225.77	20.940		
19,762.5	13,200.0	18,521.9	11,967.9	118.7	116.2	74.89	6,453.7	3,247.6	4,727.2	4,500.3	226.96	20.829		
19,800.0	13,200.0	18,537.8	11,968.0	119.3	116.4	74.89	6,469.6	3,247.6	4,727.3	4,499.6	227.73	20.759		
19,900.0	13,200.0	18,586.0	11,967.8	120.8	117.1	74.89	6,517.8	3,247.7	4,728.4	4,498.5	229.86	20.571		
20,000.0	13,200.0	18,646.1	11,966.8	122.3	118.1	74.88	6,577.9	3,248.3	4,730.4	4,498.3	232.16	20.375		
20,100.0	13,200.0	20,100.0	11,965.4	123.8	140.4	74.88	6,691.1	3,249.7	4,732.7	4,477.2	255.47	18.525		
20,200.0	13,200.0	18,853.7	11,965.2	125.3	121.3	74.88	6,785.4	3,250.8	4,734.6	4,496.3	238.27	19.871		
20,300.0	13,200.0	19,011.7	11,966.0	126.8	123.7	74.90	6,943.4	3,252.1	4,736.0	4,493.7	242.25	19.550		
20,400.0	13,200.0	19,107.8	11,966.8	128.4	125.2	74.91	7,039.5	3,252.8	4,737.1	4,491.9	245.20	19.319		
20,500.0	13,200.0	19,221.2	11,967.8	129.9	126.9	74.93	7,152.9	3,253.2	4,738.0	4,489.6	248.45	19.070		
20,600.0	13,200.0	19,316.1	11,968.1	131.4	128.4	74.93	7,247.9	3,253.4	4,738.8	4,487.5	251.39	18.850		
20,700.0	13,200.0	19,402.8	11,967.7	132.9	129.8	74.93	7,334.5	3,253.5	4,739.9	4,485.7	254.19	18.647		
20,800.0	13,200.0	19,651.6	11,967.8	134.5	133.6	74.93	7,583.3	3,250.2	4,739.1	4,479.4	259.61	18.255		
20,900.0	13,200.0	19,757.6	11,968.0	136.0	135.3	74.92	7,689.3	3,247.4	4,737.2	4,474.5	262.74	18.030		
21,000.0	13,200.0	19,863.0	11,969.6	137.6	137.0	74.93	7,794.5	3,244.4	4,734.8	4,468.9	265.88	17.808		
21,100.0	13,200.0	19,939.3	11,970.2	139.1	138.1	74.94	7,870.8	3,242.5	4,732.9	4,464.4	268.57	17.623		
21,200.0	13,200.0	20,042.8	11,970.5	140.7	139.8	74.94	7,974.3	3,240.1	4,731.3	4,459.7	271.68	17.415		
21,300.0	13,200.0	20,135.3	11,970.8	142.2	141.2	74.93	8,066.8	3,237.6	4,729.4	4,454.8	274.62	17.222		
21,400.0	13,200.0	20,196.8	11,969.6	143.8	142.2	74.92	8,128.3	3,236.1	4,728.3	4,451.2	277.06	17.066		
21,500.0	13,200.0	20,278.2	11,967.6	145.3	143.5	74.89	8,209.6	3,234.4	4,727.7	4,447.9	279.80	16.897		
21,600.0	13,200.0	20,390.0	11,967.0	146.9	145.2	74.88	8,321.4	3,232.8	4,727.2	4,444.1	283.05	16.701		
21,700.0	13,200.0	20,494.2	11,969.2	148.4	146.9	74.91	8,425.6	3,231.8	4,726.4	4,440.2	286.21	16.514		
21,800.0	13,200.0	20,581.3	11,970.9	150.0	148.3	74.93	8,512.6	3,231.1	4,725.9	4,436.8	289.09	16.347		
21,900.0	13,200.0	20,685.7	11,972.0	151.5	149.9	74.94	8,617.0	3,230.1	4,725.5	4,433.2	292.25	16.169		
22,000.0	13,200.0	20,885.1	11,976.7	153.1	153.1	74.99	8,816.3	3,226.3	4,723.6	4,426.7	296.94	15.908		
22,100.0	13,200.0	20,978.3	11,979.5	154.7	154.6	75.01	8,909.5	3,223.8	4,721.0	4,421.1	299.95	15.739		
22,200.0	13,200.0	21,069.8	11,980.9	156.2	156.0	75.02	9,000.9	3,221.2	4,718.6	4,415.7	302.93	15.577		
22,300.0	13,200.0	21,138.0	11,981.1	157.8	157.1	75.02	9,069.1	3,219.1	4,716.4	4,410.9	305.53	15.437		
22,400.0	13,200.0	21,207.8	11,980.3	159.4	158.2	75.01	9,138.8	3,217.1	4,714.8	4,406.7	308.13	15.301		
22,500.0	13,200.0	21,315.7	11,977.6	161.0	159.9	74.97	9,246.7	3,214.6	4,714.0	4,402.7	311.32	15.142		
22,600.0	13,200.0	21,366.1	11,976.3	162.5	160.7	74.95	9,297.0	3,213.5	4,713.3	4,399.7	313.60	15.030		
22,611.0	13,200.0	21,370.8	11,976.2	162.7	160.8	74.95	9,301.8	3,213.4	4,713.3	4,399.4	313.83	15.018		
22,700.0	13,200.0	21,421.0	11,974.3	164.1	161.6	74.93	9,351.9	3,212.9	4,713.8	4,397.9	315.91	14.921		
22,800.0	13,200.0	21,467.6	11,972.0	165.7	162.4	74.90	9,398.4	3,212.7	4,715.3	4,397.3	318.05	14.826		
22,900.0	13,200.0	21,547.6	11,967.0	167.3	163.6	74.84	9,478.3	3,212.6	4,717.6	4,396.9	320.73	14.709		
23,000.0	13,200.0	21,644.2	11,960.2	168.9	165.2	74.77	9,574.7	3,212.3	4,719.9	4,396.2	323.69	14.582		
23,100.0	13,200.0	21,815.3	11,952.1	170.4	167.9	74.68	9,745.5	3,212.5	4,722.2	4,394.3	327.94	14.400		
23,200.0	13,200.0	21,944.6	11,950.3	172.0	170.0	74.66	9,874.8	3,212.2	4,723.2	4,391.7	331.53	14.247		
23,300.0	13,200.0	22,089.5	11,949.3	173.6	172.3	74.64	10,019.7	3,210.4	4,722.9	4,387.5	335.36	14.083		
23,400.0	13,200.0	22,187.9	11,948.6	175.2	173.9	74.63	10,118.0	3,208.9	4,722.4	4,383.9	338.44	13.953		
23,504.9	13,200.0	22,275.0	11,947.8	176.9	175.3	74.62	10,205.2	3,207.4	4,721.7	4,380.3	341.40	13.830 SF		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	104.65	-28.8	110.1	113.8					
100.0	100.0	100.0	100.0	0.1	0.1	104.65	-28.8	110.1	113.8	113.5	0.26	443.996		
200.0	200.0	200.0	200.0	0.5	0.5	104.65	-28.8	110.1	113.8	112.8	0.97	116.927		
300.0	300.0	300.0	300.0	0.8	0.8	104.65	-28.8	110.1	113.8	112.1	1.69	67.329		
400.0	400.0	400.0	400.0	1.2	1.2	104.65	-28.8	110.1	113.8	111.4	2.41	47.276		
500.0	500.0	500.0	500.0	1.6	1.6	104.65	-28.8	110.1	113.8	110.7	3.12	36.427		
600.0	600.0	600.0	600.0	1.9	1.9	104.65	-28.8	110.1	113.8	110.0	3.84	29.627		
700.0	700.0	700.0	700.0	2.3	2.3	104.65	-28.8	110.1	113.8	109.2	4.56	24.967		
800.0	800.0	800.0	800.0	2.6	2.6	104.65	-28.8	110.1	113.8	108.5	5.27	21.574		
900.0	900.0	900.0	900.0	3.0	3.0	104.65	-28.8	110.1	113.8	107.8	5.99	18.992		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	104.65	-28.8	110.1	113.8	107.1	6.71	16.963		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	104.65	-28.8	110.1	113.8	106.4	7.43	15.325		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	104.65	-28.8	110.1	113.8	105.7	8.14	13.976		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	104.65	-28.8	110.1	113.8	104.9	8.86	12.845		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	104.65	-28.8	110.1	113.8	104.2	9.58	11.883		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	104.65	-28.8	110.1	113.8	103.5	10.29	11.055		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	104.65	-28.8	110.1	113.8	102.8	11.01	10.336		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	104.65	-28.8	110.1	113.8	102.1	11.73	9.704		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	104.65	-28.8	110.1	113.8	101.4	12.44	9.145		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	104.65	-28.8	110.1	113.8	100.6	13.16	8.647		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	104.65	-28.8	110.1	113.8	99.9	13.88	8.200		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	104.65	-28.8	110.1	113.8	99.2	14.60	7.797		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	104.65	-28.8	110.1	113.8	98.5	15.31	7.432		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	104.65	-28.8	110.1	113.8	97.8	16.03	7.100		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	104.65	-28.8	110.1	113.8	97.1	16.75	6.796		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	104.65	-28.8	110.1	113.8	96.3	17.46	6.517		
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	104.65	-28.8	110.1	113.8	95.6	18.18	6.260		
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	104.65	-28.8	110.1	113.8	94.9	18.90	6.022		
2,800.0	2,800.0	2,800.0	2,800.0	9.8	9.8	104.65	-28.8	110.1	113.8	94.2	19.61	5.802		
2,900.0	2,900.0	2,900.0	2,900.0	10.2	10.2	104.65	-28.8	110.1	113.8	93.5	20.33	5.597		
3,000.0	3,000.0	3,000.0	3,000.0	10.5	10.5	104.65	-28.8	110.1	113.8	92.8	21.05	5.407		
3,100.0	3,100.0	3,101.8	3,101.8	10.9	10.9	104.86	-29.0	109.2	113.0	91.2	21.76	5.194		
3,200.0	3,200.0	3,203.5	3,203.5	11.2	11.2	105.49	-29.5	106.6	110.6	88.2	22.45	4.928		
3,300.0	3,300.0	3,305.1	3,305.0	11.6	11.6	106.61	-30.5	102.2	106.7	83.6	23.14	4.612		
3,400.0	3,400.0	3,406.5	3,406.2	12.0	11.9	108.32	-31.8	96.0	101.3	77.5	23.83	4.252		
3,500.0	3,500.0	3,507.7	3,507.0	12.3	12.3	110.79	-33.5	88.1	94.5	70.0	24.51	3.856		
3,600.0	3,600.0	3,608.5	3,607.4	12.7	12.6	114.32	-35.5	78.5	86.5	61.3	25.19	3.433		
3,700.0	3,700.0	3,709.0	3,707.2	13.0	13.0	119.40	-37.9	67.2	77.5	51.6	25.88	2.995		
3,800.0	3,800.0	3,809.0	3,806.4	13.4	13.3	126.80	-40.6	54.3	68.1	41.5	26.59	2.562		
3,900.0	3,900.0	3,908.3	3,904.5	13.8	13.7	137.46	-43.7	40.1	59.4	32.1	27.35	2.173		
4,000.0	4,000.0	4,007.2	4,002.3	14.1	14.0	151.21	-46.7	25.7	53.4	25.2	28.12	1.897		
4,100.0	4,100.0	4,106.1	4,100.1	14.5	14.4	167.22	-49.8	11.3	51.0	22.2	28.88	1.767		
4,104.8	4,104.8	4,110.8	4,104.8	14.5	14.4	168.01	-49.9	10.6	51.0	22.1	28.91	1.765 CC, ES, SF		
4,200.0	4,200.0	4,205.0	4,197.9	14.8	14.8	-176.64	-52.8	-3.1	53.0	23.4	29.58	1.790		
4,300.0	4,300.0	4,303.8	4,295.7	15.2	15.2	-162.62	-55.9	-17.5	58.7	28.5	30.23	1.942		
4,400.0	4,400.0	4,402.7	4,393.5	15.5	15.5	-151.60	-58.9	-31.9	67.3	36.5	30.87	2.181		
4,500.0	4,500.0	4,501.6	4,491.3	15.9	15.9	-143.27	-62.0	-46.3	77.8	46.3	31.52	2.470		
4,600.0	4,600.0	4,600.5	4,589.0	16.3	16.3	-137.01	-65.1	-60.6	89.6	57.4	32.18	2.784		
4,700.0	4,700.0	4,700.6	4,686.8	16.6	16.7	-132.23	-68.1	-75.0	102.2	69.3	32.86	3.110		
4,800.0	4,800.0	4,801.7	4,784.6	17.0	17.1	-128.51	-71.2	-89.4	115.3	81.8	33.55	3.437		
4,900.0	4,900.0	4,902.8	4,882.4	17.3	17.5	-125.56	-74.2	-103.8	128.8	94.6	34.25	3.762		
5,000.0	5,000.0	4,996.1	4,980.2	17.7	17.8	-123.18	-77.3	-118.2	142.6	107.7	34.92	4.084		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,105.1	5,078.0	18.1	18.3	-121.21	-80.3	-132.6	156.6	120.9	35.65	4.392		
5,200.0	5,200.0	5,193.8	5,175.8	18.4	18.6	-119.57	-83.4	-147.0	170.7	134.4	36.31	4.701		
5,300.0	5,300.0	5,307.3	5,273.6	18.8	19.1	-118.18	-86.4	-161.4	185.0	147.9	37.07	4.989		
5,400.0	5,400.0	5,408.4	5,371.3	19.1	19.5	-116.99	-89.5	-175.7	199.3	161.5	37.78	5.275		
5,500.0	5,500.0	5,509.5	5,469.1	19.5	19.9	-115.96	-92.6	-190.1	213.7	175.2	38.49	5.551		
5,600.0	5,600.0	5,589.4	5,566.9	19.8	20.2	-115.06	-95.6	-204.5	228.2	189.0	39.13	5.831		
5,700.0	5,700.0	5,688.3	5,664.7	20.2	20.6	-114.26	-98.7	-218.9	242.7	202.9	39.84	6.092		
5,800.0	5,800.0	5,787.2	5,762.5	20.6	21.0	-113.56	-101.7	-233.3	257.3	216.7	40.55	6.344		
5,900.0	5,900.0	5,886.0	5,860.3	20.9	21.4	-112.93	-104.8	-247.7	271.8	230.6	41.26	6.589		
6,000.0	6,000.0	5,984.9	5,958.1	21.3	21.8	-112.37	-107.8	-262.1	286.5	244.5	41.97	6.826		
6,100.0	6,100.0	6,083.8	6,055.9	21.6	22.2	-111.86	-110.9	-276.5	301.1	258.4	42.68	7.055		
6,200.0	6,200.0	6,182.7	6,153.7	22.0	22.6	-111.39	-113.9	-290.8	315.8	272.4	43.39	7.277		
6,300.0	6,300.0	6,281.6	6,251.4	22.4	23.0	-110.97	-117.0	-305.2	330.5	286.4	44.10	7.493		
6,400.0	6,400.0	6,380.5	6,349.2	22.7	23.4	-110.59	-120.1	-319.6	345.2	300.4	44.82	7.702		
6,500.0	6,500.0	6,479.4	6,447.0	23.1	23.8	-110.23	-123.1	-334.0	359.9	314.4	45.53	7.904		
6,600.0	6,600.0	6,578.3	6,544.8	23.4	24.2	-109.91	-126.2	-348.4	374.6	328.4	46.24	8.101		
6,700.0	6,700.0	6,677.1	6,642.6	23.8	24.6	-109.61	-129.2	-362.8	389.4	342.4	46.96	8.292		
6,800.0	6,800.0	6,776.0	6,740.4	24.1	25.0	-109.33	-132.3	-377.2	404.1	356.4	47.67	8.477		
6,900.0	6,900.0	6,874.9	6,838.2	24.5	25.4	-109.07	-135.3	-391.5	418.9	370.5	48.39	8.656		
7,000.0	7,000.0	6,973.8	6,936.0	24.9	25.9	-108.83	-138.4	-405.9	433.6	384.5	49.10	8.831		
7,100.0	7,100.0	7,072.8	7,033.9	25.2	26.3	-3.11	-141.5	-420.3	447.5	397.7	49.81	8.985		
7,200.0	7,200.0	7,172.1	7,132.0	25.5	26.7	-2.91	-144.5	-434.8	459.7	409.2	50.50	9.103		
7,300.0	7,299.9	7,271.5	7,230.3	25.9	27.1	-2.72	-147.6	-449.2	470.2	419.0	51.20	9.183		
7,400.0	7,399.7	7,371.1	7,328.8	26.2	27.5	-2.56	-150.7	-463.7	478.9	427.0	51.90	9.228		
7,500.0	7,499.4	7,470.9	7,427.5	26.6	27.9	-2.42	-153.8	-478.2	485.9	433.3	52.60	9.238		
7,600.0	7,598.9	7,570.7	7,526.2	26.9	28.3	-2.28	-156.8	-492.8	491.2	437.9	53.30	9.215		
7,700.0	7,698.3	7,670.6	7,625.0	27.2	28.8	-2.16	-159.9	-507.3	494.7	440.7	54.01	9.160		
7,800.0	7,797.4	7,770.6	7,723.9	27.6	29.2	-2.05	-163.0	-521.9	496.5	441.8	54.71	9.075		
7,900.0	7,896.3	7,870.6	7,822.8	27.9	29.6	-1.94	-166.1	-536.4	496.5	441.1	55.41	8.960		
8,000.0	7,994.9	7,970.6	7,921.7	28.3	30.0	-1.84	-169.2	-551.0	494.8	438.7	56.12	8.817		
8,100.0	8,093.3	8,070.5	8,020.5	28.6	30.4	-1.75	-172.3	-565.5	491.3	434.5	56.82	8.647		
8,182.6	8,174.2	8,153.0	8,102.0	28.9	30.8	-1.68	-174.8	-577.5	487.2	429.8	57.41	8.487		
8,200.0	8,191.3	8,170.4	8,119.2	29.0	30.9	-1.66	-175.4	-580.0	486.2	428.7	57.53	8.451		
8,300.0	8,289.1	8,270.2	8,218.0	29.4	31.3	-1.58	-178.5	-594.5	480.4	422.2	58.23	8.250		
8,400.0	8,387.0	8,370.1	8,316.7	29.7	31.7	-1.48	-181.5	-609.1	474.7	415.7	58.94	8.053		
8,500.0	8,484.9	8,469.9	8,415.4	30.1	32.1	-1.39	-184.6	-623.6	468.9	409.3	59.65	7.861		
8,600.0	8,582.8	8,569.7	8,514.1	30.5	32.5	-1.30	-187.7	-638.1	463.2	402.8	60.36	7.673		
8,700.0	8,680.6	8,669.6	8,612.8	30.9	33.0	-1.20	-190.8	-652.6	457.4	396.3	61.07	7.490		
8,800.0	8,778.5	8,769.4	8,711.6	31.2	33.4	-1.10	-193.9	-667.2	451.6	389.9	61.78	7.310		
8,900.0	8,876.4	8,869.2	8,810.3	31.6	33.8	-1.00	-197.0	-681.7	445.9	383.4	62.49	7.135		
9,000.0	8,974.3	8,969.0	8,909.0	32.0	34.2	-0.89	-200.1	-696.2	440.1	376.9	63.21	6.963		
9,100.0	9,072.1	9,068.9	9,007.7	32.4	34.6	-0.78	-203.1	-710.7	434.4	370.5	63.92	6.796		
9,200.0	9,170.0	9,168.7	9,106.4	32.8	35.1	-0.67	-206.2	-725.3	428.7	364.0	64.64	6.632		
9,300.0	9,267.9	9,268.5	9,205.2	33.2	35.5	-0.56	-209.3	-739.8	422.9	357.6	65.36	6.471		
9,400.0	9,365.8	9,368.4	9,303.9	33.6	35.9	-0.44	-212.4	-754.3	417.2	351.1	66.07	6.314		
9,500.0	9,463.7	9,468.2	9,402.6	34.0	36.3	-0.32	-215.5	-768.8	411.4	344.6	66.79	6.160		
9,600.0	9,561.5	9,568.0	9,501.3	34.4	36.8	-0.20	-218.6	-783.4	405.7	338.2	67.51	6.009		
9,700.0	9,659.4	9,667.9	9,600.0	34.8	37.2	-0.07	-221.7	-797.9	399.9	331.7	68.23	5.862		
9,800.0	9,757.3	9,767.7	9,698.8	35.2	37.6	0.06	-224.7	-812.4	394.2	325.3	68.95	5.717		
9,900.0	9,855.2	9,867.5	9,797.5	35.6	38.0	0.19	-227.8	-826.9	388.5	318.8	69.67	5.576		
10,000.0	9,953.0	9,977.2	9,906.1	36.0	38.5	0.34	-231.0	-841.7	381.6	311.1	70.54	5.410		
10,100.0	10,050.9	10,087.6	10,015.8	36.4	38.9	0.46	-233.5	-853.4	371.9	300.5	71.37	5.211		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,197.2	10,125.1	36.9	39.3	0.56	-235.3	-862.0	359.3	287.2	72.14	4.981		
10,300.0	10,246.7	10,306.1	10,233.8	37.3	39.7	0.65	-236.4	-867.5	343.9	271.1	72.84	4.721		
10,400.0	10,344.6	10,413.8	10,341.5	37.7	40.1	0.72	-237.0	-870.0	325.7	252.2	73.49	4.432		
10,500.0	10,442.4	10,514.7	10,442.4	38.1	40.4	0.77	-237.0	-870.2	305.3	231.2	74.14	4.118		
10,600.0	10,540.3	10,612.6	10,540.3	38.5	40.7	0.82	-237.0	-870.2	284.9	210.0	74.83	3.807		
10,700.0	10,638.2	10,710.5	10,638.2	39.0	41.0	0.89	-237.0	-870.2	264.4	188.9	75.51	3.501		
10,800.0	10,736.1	10,808.4	10,736.1	39.4	41.3	0.96	-237.0	-870.2	243.9	167.7	76.20	3.201		
10,900.0	10,833.9	10,906.2	10,833.9	39.8	41.7	1.05	-237.0	-870.2	223.4	146.5	76.89	2.905		
11,000.0	10,931.8	11,001.6	10,929.3	40.2	42.0	1.84	-234.8	-871.0	203.2	125.6	77.62	2.618		
11,100.0	11,029.7	11,092.9	11,019.1	40.7	42.3	6.82	-220.4	-876.8	185.8	107.4	78.44	2.369		
11,200.0	11,127.6	11,178.0	11,099.7	41.1	42.6	16.12	-195.1	-886.7	175.9	96.8	79.08	2.224		
11,224.5	11,151.5	11,197.5	11,117.5	41.2	42.6	18.84	-187.8	-889.6	175.4	96.3	79.08	2.218		
11,300.0	11,225.5	11,254.1	11,167.7	41.5	42.8	27.58	-163.4	-899.3	180.6	102.3	78.28	2.307		
11,400.0	11,323.3	11,320.5	11,222.8	42.0	43.0	38.35	-129.1	-912.9	205.2	130.2	75.01	2.736		
11,500.0	11,421.2	11,377.3	11,266.3	42.4	43.2	46.88	-95.1	-926.3	248.7	178.4	70.26	3.539		
11,523.5	11,444.2	11,389.4	11,275.1	42.5	43.2	48.54	-87.4	-929.3	261.1	192.0	69.12	3.778		
11,600.0	11,519.2	11,425.7	11,300.4	42.8	43.3	53.74	-63.2	-938.9	306.7	241.1	65.56	4.678		
11,700.0	11,617.7	11,466.9	11,327.0	43.3	43.4	59.20	-34.0	-950.5	375.4	313.8	61.53	6.100		
11,800.0	11,716.7	11,500.0	11,346.7	43.7	43.5	63.49	-9.3	-960.2	451.3	393.3	58.00	7.781		
11,900.0	11,815.9	11,531.9	11,364.3	44.1	43.6	67.46	15.5	-970.0	532.3	476.8	55.51	9.589		
12,000.0	11,915.5	11,550.0	11,373.6	44.4	43.7	70.65	30.0	-975.8	617.1	564.5	52.65	11.722		
12,100.0	12,015.2	11,579.6	11,387.7	44.8	43.8	74.36	54.2	-985.3	704.4	652.9	51.50	13.678		
12,200.0	12,115.1	11,600.0	11,396.6	45.2	43.8	77.77	71.2	-992.1	793.9	743.8	50.09	15.849		
12,300.0	12,215.1	11,615.5	11,402.9	45.5	43.9	81.22	84.4	-997.3	885.0	836.2	48.80	18.134		
12,311.9	12,227.0	11,617.3	11,403.6	45.5	43.9	-23.85	85.9	-997.9	895.9	847.2	48.67	18.406		
12,400.0	12,315.1	11,630.2	11,408.6	45.8	43.9	-23.78	97.0	-1,002.3	977.3	929.4	47.81	20.438		
12,500.0	12,415.1	11,650.0	11,415.6	46.2	44.0	-23.67	114.2	-1,009.1	1,070.5	1,023.2	47.33	22.617		
12,600.0	12,515.1	11,650.0	11,415.6	46.5	44.0	-23.67	114.2	-1,009.1	1,164.4	1,118.3	46.13	25.243		
12,700.0	12,615.1	11,650.0	11,415.6	46.9	44.0	-23.67	114.2	-1,009.1	1,259.3	1,214.1	45.20	27.860		
12,711.9	12,627.0	11,666.4	11,421.0	46.9	44.0	-23.59	128.6	-1,014.8	1,270.3	1,224.5	45.74	27.772		
12,750.0	12,665.1	11,670.4	11,422.3	47.0	44.1	-1.35	132.1	-1,016.2	1,306.1	1,260.5	45.54	28.681		
12,800.0	12,714.8	11,676.5	11,424.1	47.2	44.1	-1.09	137.5	-1,018.3	1,351.8	1,306.6	45.22	29.895		
12,850.0	12,763.8	11,683.4	11,426.1	47.4	44.1	-0.92	143.7	-1,020.7	1,395.8	1,351.0	44.84	31.127		
12,900.0	12,811.8	11,700.0	11,430.6	47.5	44.2	-0.78	158.5	-1,026.6	1,438.0	1,393.3	44.71	32.165		
12,950.0	12,858.3	11,700.0	11,430.6	47.7	44.2	-0.69	158.5	-1,026.6	1,478.0	1,434.0	43.98	33.606		
13,000.0	12,903.1	11,700.0	11,430.6	47.8	44.2	-0.63	158.5	-1,026.6	1,515.9	1,472.7	43.24	35.058		
13,050.0	12,945.8	11,718.3	11,435.0	48.0	44.2	-0.56	175.0	-1,033.1	1,551.2	1,508.3	42.99	36.081		
13,100.0	12,986.1	11,728.3	11,437.2	48.1	44.3	-0.51	184.1	-1,036.7	1,584.1	1,541.6	42.49	37.280		
13,150.0	13,023.7	11,750.0	11,441.4	48.3	44.4	-0.47	203.9	-1,044.6	1,614.4	1,572.1	42.26	38.201		
13,200.0	13,058.2	11,750.0	11,441.4	48.4	44.4	-0.44	203.9	-1,044.6	1,641.6	1,600.1	41.51	39.546		
13,250.0	13,089.4	11,750.0	11,441.4	48.5	44.4	-0.42	203.9	-1,044.6	1,666.2	1,625.4	40.82	40.815		
13,300.0	13,117.2	11,772.5	11,444.8	48.7	44.4	-0.40	224.6	-1,052.7	1,687.5	1,646.9	40.61	41.557		
13,350.0	13,141.1	11,800.0	11,447.8	48.8	44.6	-0.38	250.0	-1,062.8	1,706.2	1,665.7	40.48	42.150		
13,400.0	13,161.2	11,800.0	11,447.8	48.9	44.6	-0.37	250.0	-1,062.8	1,721.2	1,681.3	39.93	43.108		
13,450.0	13,177.2	11,800.0	11,447.8	49.1	44.6	-0.36	250.0	-1,062.8	1,733.3	1,693.8	39.49	43.895		
13,500.0	13,189.1	11,820.4	11,449.2	49.2	44.6	-0.35	268.9	-1,070.3	1,742.1	1,702.7	39.37	44.251		
13,550.0	13,196.6	11,849.3	11,450.0	49.4	44.8	-0.34	295.8	-1,080.9	1,748.0	1,708.6	39.36	44.406		
13,600.0	13,199.8	11,849.3	11,450.0	49.6	44.8	-0.34	295.8	-1,080.9	1,750.0	1,710.8	39.18	44.666		
13,611.9	13,200.0	11,849.3	11,450.0	49.6	44.8	-0.34	295.8	-1,080.9	1,750.0	1,710.9	39.16	44.693		
13,643.6	13,200.0	11,875.6	11,450.0	49.7	44.9	-0.33	320.3	-1,090.5	1,750.0	1,710.8	39.26	44.579		
13,700.0	13,200.0	11,932.2	11,450.0	50.0	45.1	-0.32	373.3	-1,110.3	1,750.0	1,710.5	39.50	44.310		
13,800.0	13,200.0	12,032.5	11,450.0	50.4	45.7	-0.31	468.2	-1,142.8	1,750.0	1,710.1	39.96	43.791		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	13,200.0	12,132.8	11,450.0	50.9	46.2	-0.29	564.2	-1,172.0	1,750.0	1,709.5	40.49	43.225		
14,000.0	13,200.0	12,233.1	11,450.0	51.4	46.8	-0.28	661.1	-1,197.8	1,750.0	1,709.0	41.06	42.618		
14,100.0	13,200.0	12,333.4	11,450.0	52.0	47.5	-0.26	758.9	-1,220.2	1,750.0	1,708.3	41.69	41.976		
14,200.0	13,200.0	12,433.7	11,450.0	52.6	48.1	-0.24	857.3	-1,239.1	1,750.0	1,707.6	42.37	41.305		
14,300.0	13,200.0	12,534.0	11,450.0	53.2	48.8	-0.23	956.4	-1,254.6	1,750.0	1,706.9	43.09	40.612		
14,400.0	13,200.0	12,634.2	11,450.0	53.8	49.5	-0.21	1,055.9	-1,266.6	1,750.0	1,706.1	43.86	39.901		
14,500.0	13,200.0	12,734.4	11,450.0	54.5	50.3	-0.19	1,155.7	-1,275.1	1,750.0	1,705.3	44.67	39.179		
14,600.0	13,200.0	12,834.6	11,450.0	55.1	51.0	-0.17	1,255.8	-1,280.2	1,750.0	1,704.5	45.52	38.449		
14,687.2	13,200.0	12,922.0	11,450.0	55.7	51.7	-0.16	1,343.2	-1,281.7	1,750.0	1,703.7	46.28	37.809		
14,700.0	13,200.0	12,934.7	11,450.0	55.8	51.8	-0.16	1,355.9	-1,281.8	1,750.0	1,703.6	46.40	37.715		
14,800.0	13,200.0	13,034.7	11,450.0	56.5	52.5	-0.16	1,455.9	-1,282.6	1,750.0	1,702.7	47.33	36.977		
14,900.0	13,200.0	13,134.7	11,450.0	57.3	53.4	-0.16	1,555.9	-1,283.4	1,750.0	1,701.7	48.29	36.243		
15,000.0	13,200.0	13,234.7	11,450.0	58.1	54.2	-0.16	1,655.9	-1,284.1	1,750.0	1,700.7	49.28	35.514		
15,100.0	13,200.0	13,334.7	11,450.0	58.9	55.1	-0.16	1,755.9	-1,284.9	1,750.0	1,699.7	50.29	34.795		
15,200.0	13,200.0	13,434.7	11,450.0	59.7	56.1	-0.16	1,855.9	-1,285.7	1,750.0	1,698.6	51.34	34.085		
15,300.0	13,200.0	13,534.7	11,450.0	60.6	57.1	-0.16	1,955.9	-1,286.5	1,750.0	1,697.6	52.41	33.388		
15,400.0	13,200.0	13,634.7	11,450.0	61.6	58.1	-0.16	2,055.9	-1,287.2	1,750.0	1,696.5	53.51	32.703		
15,500.0	13,200.0	13,734.7	11,450.0	62.5	59.1	-0.16	2,155.9	-1,288.0	1,750.0	1,695.3	54.63	32.033		
15,600.0	13,200.0	13,834.7	11,450.0	63.5	60.2	-0.16	2,255.9	-1,288.8	1,750.0	1,694.2	55.77	31.377		
15,700.0	13,200.0	13,934.7	11,450.0	64.5	61.2	-0.16	2,355.9	-1,289.5	1,750.0	1,693.0	56.93	30.737		
15,800.0	13,200.0	14,034.7	11,450.0	65.5	62.4	-0.16	2,455.9	-1,290.3	1,750.0	1,691.9	58.11	30.113		
15,900.0	13,200.0	14,134.7	11,450.0	66.6	63.5	-0.16	2,555.9	-1,291.1	1,750.0	1,690.7	59.31	29.504		
16,000.0	13,200.0	14,234.7	11,450.0	67.7	64.6	-0.16	2,655.9	-1,291.8	1,750.0	1,689.4	60.53	28.912		
16,100.0	13,200.0	14,334.7	11,450.0	68.8	65.8	-0.16	2,755.9	-1,292.6	1,750.0	1,688.2	61.76	28.336		
16,200.0	13,200.0	14,434.7	11,450.0	69.9	67.0	-0.16	2,855.9	-1,293.4	1,750.0	1,687.0	63.00	27.775		
16,300.0	13,200.0	14,534.7	11,450.0	71.1	68.2	-0.16	2,955.9	-1,294.2	1,750.0	1,685.7	64.26	27.231		
16,400.0	13,200.0	14,634.7	11,450.0	72.3	69.5	-0.16	3,055.9	-1,294.9	1,750.0	1,684.4	65.54	26.702		
16,500.0	13,200.0	14,734.7	11,450.0	73.5	70.7	-0.16	3,155.9	-1,295.7	1,750.0	1,683.1	66.82	26.188		
16,600.0	13,200.0	14,834.7	11,450.0	74.7	72.0	-0.16	3,255.9	-1,296.5	1,749.9	1,681.8	68.12	25.689		
16,700.0	13,200.0	14,934.7	11,450.0	75.9	73.3	-0.16	3,355.9	-1,297.2	1,749.9	1,680.5	69.43	25.205		
16,800.0	13,200.0	15,034.7	11,450.0	77.1	74.6	-0.16	3,455.8	-1,298.0	1,749.9	1,679.2	70.75	24.735		
16,900.0	13,200.0	15,134.7	11,450.0	78.4	75.9	-0.16	3,555.8	-1,298.8	1,749.9	1,677.9	72.08	24.279		
17,000.0	13,200.0	15,234.7	11,450.0	79.7	77.2	-0.16	3,655.8	-1,299.5	1,749.9	1,676.5	73.41	23.836		
17,100.0	13,200.0	15,334.9	11,450.0	81.0	78.6	-0.12	3,755.9	-1,299.1	1,749.9	1,675.2	74.75	23.411		
17,189.1	13,200.0	15,423.9	11,450.0	82.1	79.7	0.02	3,844.9	-1,295.7	1,749.9	1,674.0	75.91	23.052		
17,200.0	13,200.0	15,434.8	11,450.0	82.3	79.9	0.04	3,855.8	-1,295.1	1,749.9	1,673.9	76.05	23.009		
17,300.0	13,200.0	15,534.3	11,450.0	83.6	81.2	0.30	3,955.0	-1,287.8	1,750.0	1,672.6	77.33	22.629		
17,400.0	13,200.0	15,633.1	11,450.0	84.9	82.5	0.68	4,053.2	-1,277.0	1,750.1	1,671.5	78.59	22.267		
17,500.0	13,200.0	15,731.0	11,450.0	86.3	83.7	1.16	4,150.1	-1,263.1	1,750.3	1,670.5	79.85	21.921		
17,600.0	13,200.0	15,827.7	11,450.0	87.6	84.9	1.74	4,245.3	-1,246.0	1,750.8	1,669.7	81.10	21.588		
17,700.0	13,200.0	15,923.2	11,450.0	89.0	86.1	2.42	4,338.7	-1,226.1	1,751.6	1,669.2	82.37	21.264		
17,800.0	13,200.0	16,019.8	11,450.0	90.3	87.2	3.19	4,432.6	-1,203.2	1,752.8	1,669.1	83.69	20.945		
17,900.0	13,200.0	16,121.3	11,450.0	91.7	88.5	3.92	4,531.7	-1,181.5	1,754.2	1,669.1	85.08	20.618		
18,000.0	13,200.0	16,224.3	11,450.0	93.1	89.8	4.55	4,633.0	-1,163.1	1,755.6	1,669.1	86.54	20.287		
18,100.0	13,200.0	16,328.6	11,450.0	94.5	91.2	5.06	4,736.2	-1,148.2	1,756.9	1,668.9	88.04	19.956		
18,200.0	13,200.0	16,433.9	11,450.0	95.9	92.7	5.45	4,840.9	-1,136.9	1,758.0	1,668.4	89.56	19.629		
18,300.0	13,200.0	16,539.9	11,450.0	97.3	94.2	5.72	4,946.7	-1,129.4	1,758.7	1,667.6	91.09	19.307		
18,400.0	13,200.0	16,646.4	11,450.0	98.7	95.7	5.86	5,053.2	-1,125.9	1,759.1	1,666.5	92.62	18.993		
18,500.0	13,200.0	16,753.1	11,450.0	100.2	97.3	5.87	5,159.9	-1,126.3	1,759.2	1,665.0	94.13	18.689		
18,600.0	13,200.0	16,859.7	11,450.0	101.6	98.9	5.76	5,266.4	-1,130.7	1,758.8	1,663.2	95.61	18.395		
18,700.0	13,200.0	16,965.9	11,450.0	103.0	100.5	5.51	5,372.2	-1,139.0	1,758.1	1,661.1	97.07	18.112		
18,800.0	13,200.0	17,071.4	11,450.0	104.5	102.1	5.15	5,477.0	-1,151.2	1,757.1	1,658.6	98.50	17.839		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,900.0	13,200.0	17,175.9	11,450.0	105.9	103.7	4.66	5,580.3	-1,167.0	1,755.9	1,656.0	99.91	17.574		
19,000.0	13,200.0	17,279.1	11,450.0	107.4	105.4	4.06	5,681.7	-1,186.3	1,754.5	1,653.2	101.33	17.315		
19,100.0	13,200.0	17,380.9	11,450.0	108.9	107.0	3.34	5,780.9	-1,208.9	1,753.1	1,650.3	102.76	17.060		
19,200.0	13,200.0	17,478.8	11,450.0	110.3	108.5	2.57	5,875.6	-1,233.5	1,751.8	1,647.6	104.23	16.807		
19,300.0	13,200.0	17,574.0	11,450.0	111.8	110.1	1.87	5,968.3	-1,255.3	1,750.9	1,645.2	105.74	16.559		
19,400.0	13,200.0	17,670.5	11,450.0	113.3	111.6	1.27	6,062.9	-1,274.4	1,750.4	1,643.1	107.29	16.315		
19,500.0	13,200.0	17,768.2	11,450.0	114.8	113.1	0.77	6,159.3	-1,290.4	1,750.1	1,641.2	108.86	16.077		
19,600.0	13,200.0	17,866.8	11,450.0	116.3	114.7	0.38	6,257.1	-1,303.2	1,750.0	1,639.5	110.43	15.847		
19,700.0	13,200.0	17,966.2	11,450.0	117.8	116.3	0.09	6,356.0	-1,312.8	1,749.9	1,638.0	111.99	15.627		
19,737.6	13,200.0	18,003.7	11,450.0	118.3	116.8	0.01	6,393.4	-1,315.5	1,749.9	1,637.4	112.57	15.546		
19,800.0	13,200.0	18,066.0	11,450.0	119.3	117.8	-0.08	6,455.6	-1,318.9	1,749.9	1,636.4	113.52	15.416		
19,900.0	13,200.0	18,166.1	11,450.0	120.8	119.4	-0.14	6,555.7	-1,321.5	1,749.9	1,634.9	115.02	15.215		
20,000.0	13,200.0	18,266.1	11,450.0	122.3	120.9	-0.14	6,655.7	-1,322.3	1,749.9	1,633.4	116.50	15.021		
20,100.0	13,200.0	18,366.1	11,450.0	123.8	122.4	-0.14	6,755.7	-1,323.0	1,749.9	1,632.0	117.98	14.832		
20,200.0	13,200.0	18,466.1	11,450.0	125.3	124.0	-0.14	6,855.7	-1,323.8	1,750.0	1,630.5	119.47	14.648		
20,300.0	13,200.0	18,566.1	11,450.0	126.8	125.5	-0.14	6,955.7	-1,324.6	1,750.0	1,629.0	120.96	14.468		
20,400.0	13,200.0	18,666.1	11,450.0	128.4	127.0	-0.14	7,055.7	-1,325.3	1,750.0	1,627.5	122.45	14.291		
20,500.0	13,200.0	18,766.1	11,450.0	129.9	128.6	-0.14	7,155.7	-1,326.1	1,750.0	1,626.0	123.94	14.119		
20,600.0	13,200.0	18,866.1	11,450.0	131.4	130.1	-0.14	7,255.7	-1,326.8	1,750.0	1,624.5	125.43	13.951		
20,700.0	13,200.0	18,966.1	11,450.0	132.9	131.7	-0.14	7,355.7	-1,327.6	1,750.0	1,623.0	126.93	13.787		
20,800.0	13,200.0	19,066.1	11,450.0	134.5	133.3	-0.14	7,455.7	-1,328.4	1,750.0	1,621.5	128.43	13.626		
20,900.0	13,200.0	19,166.1	11,450.0	136.0	134.8	-0.14	7,555.7	-1,329.1	1,750.0	1,620.0	129.93	13.469		
21,000.0	13,200.0	19,266.1	11,450.0	137.6	136.4	-0.14	7,655.7	-1,329.9	1,750.0	1,618.5	131.43	13.315		
21,100.0	13,200.0	19,366.1	11,450.0	139.1	137.9	-0.14	7,755.7	-1,330.7	1,750.0	1,617.0	132.93	13.165		
21,200.0	13,200.0	19,466.1	11,450.0	140.7	139.5	-0.14	7,855.7	-1,331.4	1,750.0	1,615.5	134.43	13.017		
21,300.0	13,200.0	19,566.1	11,450.0	142.2	141.1	-0.14	7,955.6	-1,332.2	1,750.0	1,614.0	135.94	12.873		
21,400.0	13,200.0	19,666.1	11,450.0	143.8	142.6	-0.14	8,055.6	-1,333.0	1,750.0	1,612.5	137.45	12.732		
21,500.0	13,200.0	19,766.1	11,450.0	145.3	144.2	-0.14	8,155.6	-1,333.7	1,750.0	1,611.0	138.96	12.594		
21,600.0	13,200.0	19,866.1	11,450.0	146.9	145.8	-0.14	8,255.6	-1,334.5	1,750.0	1,609.5	140.46	12.458		
21,700.0	13,200.0	19,966.1	11,450.0	148.4	147.3	-0.14	8,355.6	-1,335.2	1,750.0	1,608.0	141.98	12.326		
21,800.0	13,200.0	20,066.1	11,450.0	150.0	148.9	-0.14	8,455.6	-1,336.0	1,750.0	1,606.5	143.49	12.196		
21,900.0	13,200.0	20,166.1	11,450.0	151.5	150.5	-0.14	8,555.6	-1,336.8	1,750.0	1,605.0	145.00	12.069		
22,000.0	13,200.0	20,266.1	11,450.0	153.1	152.1	-0.14	8,655.6	-1,337.5	1,750.0	1,603.5	146.52	11.944		
22,100.0	13,200.0	20,366.1	11,450.0	154.7	153.7	-0.14	8,755.6	-1,338.3	1,750.0	1,601.9	148.03	11.822		
22,200.0	13,200.0	20,466.1	11,450.0	156.2	155.2	-0.14	8,855.6	-1,339.1	1,750.0	1,600.4	149.55	11.702		
22,300.0	13,200.0	20,566.1	11,450.0	157.8	156.8	-0.14	8,955.6	-1,339.8	1,750.0	1,598.9	151.07	11.584		
22,400.0	13,200.0	20,666.1	11,450.0	159.4	158.4	-0.14	9,055.6	-1,340.6	1,750.0	1,597.4	152.59	11.469		
22,500.0	13,200.0	20,766.1	11,450.0	161.0	160.0	-0.14	9,155.6	-1,341.4	1,750.0	1,595.9	154.11	11.356		
22,600.0	13,200.0	20,866.1	11,450.0	162.5	161.6	-0.14	9,255.6	-1,342.1	1,750.0	1,594.4	155.63	11.245		
22,700.0	13,200.0	20,966.1	11,450.0	164.1	163.2	-0.14	9,355.6	-1,342.9	1,750.0	1,592.8	157.15	11.136		
22,800.0	13,200.0	21,066.1	11,450.0	165.7	164.8	-0.13	9,455.6	-1,343.7	1,750.0	1,591.3	158.67	11.029		
22,900.0	13,200.0	21,166.1	11,450.0	167.3	166.4	-0.13	9,555.6	-1,344.4	1,750.0	1,589.8	160.20	10.924		
23,000.0	13,200.0	21,266.1	11,450.0	168.9	168.0	-0.13	9,655.6	-1,345.2	1,750.0	1,588.3	161.72	10.821		
23,100.0	13,200.0	21,366.1	11,450.0	170.4	169.6	-0.13	9,755.6	-1,345.9	1,750.0	1,586.8	163.25	10.720		
23,200.0	13,200.0	21,466.1	11,450.0	172.0	171.2	-0.13	9,855.6	-1,346.7	1,750.0	1,585.2	164.77	10.621		
23,300.0	13,200.0	21,566.1	11,450.0	173.6	172.7	-0.13	9,955.6	-1,347.5	1,750.0	1,583.7	166.30	10.523		
23,400.0	13,200.0	21,666.1	11,450.0	175.2	174.3	-0.13	10,055.6	-1,348.2	1,750.0	1,582.2	167.83	10.427		
23,504.9	13,200.0	21,771.0	11,450.0	176.9	176.0	-0.13	10,160.5	-1,349.0	1,750.0	1,580.6	169.43	10.329		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	179.76	-30.0	0.1	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	179.76	-30.0	0.1	30.0	29.7	0.26	116.962		
200.0	200.0	200.0	200.0	0.5	0.5	179.76	-30.0	0.1	30.0	29.0	0.97	30.802		
300.0	300.0	300.0	300.0	0.8	0.8	179.76	-30.0	0.1	30.0	28.3	1.69	17.737		
400.0	400.0	400.0	400.0	1.2	1.2	179.76	-30.0	0.1	30.0	27.6	2.41	12.454		
500.0	500.0	500.0	500.0	1.6	1.6	179.76	-30.0	0.1	30.0	26.9	3.12	9.596		
600.0	600.0	600.0	600.0	1.9	1.9	179.76	-30.0	0.1	30.0	26.1	3.84	7.805		
700.0	700.0	700.0	700.0	2.3	2.3	179.76	-30.0	0.1	30.0	25.4	4.56	6.577		
800.0	800.0	800.0	800.0	2.6	2.6	179.76	-30.0	0.1	30.0	24.7	5.27	5.683		
900.0	900.0	900.0	900.0	3.0	3.0	179.76	-30.0	0.1	30.0	24.0	5.99	5.003		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	179.76	-30.0	0.1	30.0	23.3	6.71	4.468 CC, ES		
1,100.0	1,100.0	1,099.5	1,099.5	3.7	3.7	178.95	-30.7	0.6	30.7	23.3	7.41	4.149		
1,200.0	1,200.0	1,199.0	1,199.0	4.1	4.0	176.76	-33.0	1.9	33.0	24.9	8.09	4.081 SF		
1,300.0	1,300.0	1,298.4	1,298.2	4.4	4.4	173.72	-36.7	4.0	37.0	28.2	8.78	4.208		
1,400.0	1,400.0	1,397.6	1,397.2	4.8	4.7	170.43	-41.9	7.1	42.6	33.1	9.47	4.495		
1,500.0	1,500.0	1,496.5	1,495.9	5.1	5.0	167.30	-48.6	10.9	49.9	39.8	10.16	4.916		
1,600.0	1,600.0	1,595.1	1,594.1	5.5	5.4	164.54	-56.7	15.7	59.1	48.2	10.85	5.448		
1,700.0	1,700.0	1,693.4	1,691.7	5.9	5.7	162.23	-66.2	21.2	70.0	58.5	11.53	6.072		
1,800.0	1,800.0	1,808.8	1,788.7	6.2	6.2	160.32	-77.1	27.6	82.7	70.4	12.27	6.739		
1,900.0	1,900.0	1,909.8	1,886.7	6.6	6.6	158.81	-89.0	34.5	96.4	83.4	12.97	7.429		
2,000.0	2,000.0	1,989.3	1,984.8	6.9	6.9	157.67	-100.9	41.4	110.2	96.5	13.61	8.094		
2,100.0	2,100.0	2,088.3	2,082.9	7.3	7.2	156.79	-112.8	48.4	124.0	109.6	14.31	8.660		
2,200.0	2,200.0	2,187.3	2,180.9	7.7	7.6	156.09	-124.7	55.3	137.8	122.8	15.02	9.173		
2,300.0	2,300.0	2,286.3	2,279.0	8.0	8.0	155.51	-136.6	62.3	151.6	135.9	15.73	9.639		
2,400.0	2,400.0	2,385.4	2,377.1	8.4	8.4	155.03	-148.6	69.2	165.5	149.0	16.44	10.066		
2,500.0	2,500.0	2,484.4	2,475.1	8.7	8.8	154.62	-160.5	76.1	179.3	162.2	17.15	10.457		
2,600.0	2,600.0	2,583.4	2,573.2	9.1	9.2	154.27	-172.4	83.1	193.2	175.4	17.86	10.817		
2,700.0	2,700.0	2,682.4	2,671.3	9.4	9.6	153.97	-184.3	90.0	207.1	188.5	18.58	11.149		
2,800.0	2,800.0	2,784.7	2,772.5	9.8	10.0	153.71	-196.2	97.0	220.6	201.3	19.33	11.415		
2,900.0	2,900.0	2,890.3	2,877.5	10.2	10.4	153.51	-206.4	102.9	231.7	211.6	20.10	11.526		
3,000.0	3,000.0	2,996.5	2,983.3	10.5	10.8	153.37	-214.0	107.3	240.0	219.1	20.86	11.504		
3,100.0	3,100.0	3,103.1	3,089.8	10.9	11.2	153.28	-219.1	110.3	245.5	223.9	21.61	11.363		
3,200.0	3,200.0	3,210.0	3,196.6	11.2	11.6	153.24	-221.7	111.8	248.3	226.0	22.34	11.116		
3,300.0	3,300.0	3,313.4	3,300.0	11.6	11.9	153.24	-222.0	112.0	248.6	225.6	23.04	10.791		
3,400.0	3,400.0	3,413.4	3,400.0	12.0	12.3	153.24	-222.0	112.0	248.6	224.9	23.74	10.474		
3,500.0	3,500.0	3,513.4	3,500.0	12.3	12.6	153.24	-222.0	112.0	248.6	224.2	24.44	10.174		
3,600.0	3,600.0	3,613.4	3,600.0	12.7	12.9	153.24	-222.0	112.0	248.6	223.5	25.14	9.891		
3,700.0	3,700.0	3,713.4	3,700.0	13.0	13.3	153.24	-222.0	112.0	248.6	222.8	25.84	9.623		
3,800.0	3,800.0	3,813.4	3,800.0	13.4	13.6	153.24	-222.0	112.0	248.6	222.1	26.54	9.369		
3,900.0	3,900.0	3,913.4	3,900.0	13.8	13.9	153.24	-222.0	112.0	248.6	221.4	27.24	9.127		
4,000.0	4,000.0	4,013.4	4,000.0	14.1	14.3	153.24	-222.0	112.0	248.6	220.7	27.95	8.897		
4,100.0	4,100.0	4,113.4	4,100.0	14.5	14.6	153.24	-222.0	112.0	248.6	220.0	28.65	8.679		
4,200.0	4,200.0	4,213.4	4,200.0	14.8	14.9	153.24	-222.0	112.0	248.6	219.3	29.35	8.470		
4,300.0	4,300.0	4,313.4	4,300.0	15.2	15.3	153.24	-222.0	112.0	248.6	218.6	30.06	8.272		
4,400.0	4,400.0	4,413.4	4,400.0	15.5	15.6	153.24	-222.0	112.0	248.6	217.9	30.77	8.082		
4,500.0	4,500.0	4,513.4	4,500.0	15.9	15.9	153.24	-222.0	112.0	248.6	217.2	31.47	7.901		
4,600.0	4,600.0	4,613.4	4,600.0	16.3	16.3	153.24	-222.0	112.0	248.6	216.5	32.18	7.727		
4,700.0	4,700.0	4,713.4	4,700.0	16.6	16.6	153.24	-222.0	112.0	248.6	215.8	32.88	7.561		
4,800.0	4,800.0	4,813.4	4,800.0	17.0	17.0	153.24	-222.0	112.0	248.6	215.1	33.59	7.402		
4,900.0	4,900.0	4,913.4	4,900.0	17.3	17.3	153.24	-222.0	112.0	248.6	214.3	34.30	7.249		
5,000.0	5,000.0	5,013.4	5,000.0	17.7	17.7	153.24	-222.0	112.0	248.6	213.6	35.01	7.102		
5,100.0	5,100.0	5,113.4	5,100.0	18.1	18.0	153.24	-222.0	112.0	248.6	212.9	35.72	6.962		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,213.4	5,200.0	18.4	18.3	153.24	-222.0	112.0	248.6	212.2	36.43	6.826		
5,300.0	5,300.0	5,313.4	5,300.0	18.8	18.7	153.24	-222.0	112.0	248.6	211.5	37.14	6.696		
5,400.0	5,400.0	5,413.4	5,400.0	19.1	19.0	153.24	-222.0	112.0	248.6	210.8	37.84	6.570		
5,500.0	5,500.0	5,513.4	5,500.0	19.5	19.4	153.24	-222.0	112.0	248.6	210.1	38.55	6.449		
5,600.0	5,600.0	5,613.4	5,600.0	19.8	19.7	153.24	-222.0	112.0	248.6	209.4	39.26	6.333		
5,700.0	5,700.0	5,713.4	5,700.0	20.2	20.1	153.24	-222.0	112.0	248.6	208.7	39.97	6.220		
5,800.0	5,800.0	5,813.4	5,800.0	20.6	20.4	153.24	-222.0	112.0	248.6	208.0	40.69	6.111		
5,900.0	5,900.0	5,913.4	5,900.0	20.9	20.8	153.24	-222.0	112.0	248.6	207.2	41.40	6.006		
6,000.0	6,000.0	6,013.4	6,000.0	21.3	21.1	153.24	-222.0	112.0	248.6	206.5	42.11	5.905		
6,100.0	6,100.0	6,113.4	6,100.0	21.6	21.5	153.24	-222.0	112.0	248.6	205.8	42.82	5.807		
6,200.0	6,200.0	6,213.4	6,200.0	22.0	21.8	153.24	-222.0	112.0	248.6	205.1	43.53	5.712		
6,300.0	6,300.0	6,313.4	6,300.0	22.4	22.2	153.24	-222.0	112.0	248.6	204.4	44.24	5.620		
6,400.0	6,400.0	6,413.4	6,400.0	22.7	22.5	153.24	-222.0	112.0	248.6	203.7	44.95	5.531		
6,500.0	6,500.0	6,513.4	6,500.0	23.1	22.9	153.24	-222.0	112.0	248.6	203.0	45.66	5.445		
6,600.0	6,600.0	6,613.4	6,600.0	23.4	23.2	153.24	-222.0	112.0	248.6	202.3	46.38	5.361		
6,700.0	6,700.0	6,713.4	6,700.0	23.8	23.6	153.24	-222.0	112.0	248.6	201.6	47.09	5.280		
6,800.0	6,800.0	6,813.4	6,800.0	24.1	23.9	153.24	-222.0	112.0	248.6	200.8	47.80	5.202		
6,900.0	6,900.0	6,913.4	6,900.0	24.5	24.3	153.24	-222.0	112.0	248.6	200.1	48.51	5.125		
7,000.0	7,000.0	7,013.4	7,000.0	24.9	24.6	153.24	-222.0	112.0	248.6	199.4	49.23	5.051		
7,100.0	7,100.0	7,113.4	7,100.0	25.2	25.0	-101.47	-222.0	112.0	248.8	198.9	49.93	4.984		
7,200.0	7,200.0	7,213.3	7,200.0	25.5	25.3	-102.05	-222.0	112.0	249.4	198.7	50.62	4.926		
7,300.0	7,299.9	7,313.2	7,299.9	25.9	25.7	-103.02	-222.0	112.0	250.3	199.0	51.31	4.878		
7,400.0	7,399.7	7,413.0	7,399.7	26.2	26.0	-104.36	-222.0	112.0	251.7	199.7	52.00	4.841		
7,500.0	7,499.4	7,512.7	7,499.4	26.6	26.4	-106.05	-222.0	112.0	253.8	201.1	52.69	4.817		
7,600.0	7,598.9	7,612.3	7,598.9	26.9	26.7	-108.07	-222.0	112.0	256.6	203.3	53.38	4.807		
7,700.0	7,698.3	7,711.6	7,698.3	27.2	27.1	-110.39	-222.0	112.0	260.4	206.3	54.08	4.815		
7,800.0	7,797.4	7,810.8	7,797.4	27.6	27.4	-112.97	-222.0	112.0	265.2	210.5	54.77	4.843		
7,900.0	7,896.3	7,909.7	7,896.3	27.9	27.8	-115.76	-222.0	112.0	271.4	215.9	55.47	4.893		
8,000.0	7,994.9	8,008.3	7,994.9	28.3	28.1	-118.72	-222.0	112.0	279.0	222.9	56.17	4.968		
8,100.0	8,093.3	8,106.6	8,093.3	28.6	28.5	-121.77	-222.0	112.0	288.3	231.5	56.86	5.071		
8,182.6	8,174.2	8,187.6	8,174.2	28.9	28.7	-124.34	-222.0	112.0	297.4	239.9	57.44	5.177		
8,200.0	8,191.3	8,204.6	8,191.3	29.0	28.8	-124.90	-222.0	112.0	299.4	241.9	57.56	5.202		
8,300.0	8,289.1	8,302.5	8,289.1	29.4	29.2	-127.95	-222.0	112.0	311.8	253.5	58.26	5.351		
8,400.0	8,387.0	8,400.4	8,387.0	29.7	29.5	-130.76	-222.0	112.0	324.9	266.0	58.96	5.511		
8,500.0	8,484.9	8,501.7	8,484.9	30.1	29.9	-133.36	-222.0	112.0	338.8	279.2	59.67	5.678		
8,600.0	8,582.8	8,603.9	8,582.8	30.5	30.2	-135.75	-222.0	112.0	353.4	293.0	60.39	5.852		
8,700.0	8,680.6	8,706.0	8,680.6	30.9	30.6	-137.95	-222.0	112.0	368.5	307.4	61.10	6.031		
8,800.0	8,778.5	8,808.1	8,778.5	31.2	30.9	-139.98	-222.0	112.0	384.1	322.3	61.81	6.213		
8,900.0	8,876.4	8,889.8	8,876.4	31.6	31.2	-141.86	-222.0	112.0	400.1	337.7	62.46	6.407		
9,000.0	8,974.3	8,987.6	8,974.3	32.0	31.6	-143.58	-222.0	112.0	416.6	353.4	63.15	6.596		
9,100.0	9,072.1	9,085.5	9,072.1	32.4	31.9	-145.18	-222.0	112.0	433.3	369.5	63.85	6.787		
9,200.0	9,170.0	9,183.4	9,170.0	32.8	32.3	-146.66	-222.0	112.0	450.4	385.9	64.55	6.978		
9,300.0	9,267.9	9,281.3	9,267.9	33.2	32.6	-148.03	-222.0	112.0	467.8	402.5	65.25	7.169		
9,400.0	9,365.8	9,379.2	9,365.8	33.6	33.0	-149.31	-222.0	112.0	485.4	419.5	65.95	7.360		
9,500.0	9,463.7	9,477.0	9,463.7	34.0	33.3	-150.49	-222.0	112.0	503.2	436.6	66.65	7.551		
9,600.0	9,561.5	9,574.9	9,561.5	34.4	33.7	-151.60	-222.0	112.0	521.2	453.9	67.34	7.740		
9,700.0	9,659.4	9,672.8	9,659.4	34.8	34.0	-152.63	-222.0	112.0	539.4	471.4	68.04	7.928		
9,800.0	9,757.3	9,770.7	9,757.3	35.2	34.3	-153.59	-222.0	112.0	557.8	489.1	68.74	8.114		
9,900.0	9,855.2	9,868.5	9,855.2	35.6	34.7	-154.49	-222.0	112.0	576.3	506.9	69.44	8.299		
10,000.0	9,953.0	9,966.4	9,953.0	36.0	35.0	-155.34	-222.0	112.0	594.9	524.8	70.14	8.482		
10,100.0	10,050.9	10,064.3	10,050.9	36.4	35.4	-156.14	-222.0	112.0	613.7	542.8	70.84	8.663		
10,200.0	10,148.8	10,162.2	10,148.8	36.9	35.7	-156.88	-222.0	112.0	632.5	561.0	71.54	8.841		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,260.0	10,246.7	37.3	36.1	-157.59	-222.0	112.0	651.5	579.3	72.25	9.018		
10,400.0	10,344.6	10,357.9	10,344.6	37.7	36.4	-158.26	-222.0	112.0	670.6	597.6	72.95	9.192		
10,500.0	10,442.4	10,455.8	10,442.4	38.1	36.8	-158.88	-222.0	112.0	689.7	616.0	73.65	9.364		
10,600.0	10,540.3	10,553.7	10,540.3	38.5	37.1	-159.48	-222.0	112.0	708.9	634.5	74.35	9.534		
10,700.0	10,638.2	10,651.6	10,638.2	39.0	37.5	-160.04	-222.0	112.0	728.2	653.1	75.06	9.702		
10,800.0	10,736.1	10,749.4	10,736.1	39.4	37.8	-160.58	-222.0	112.0	747.5	671.7	75.76	9.867		
10,900.0	10,833.9	10,847.3	10,833.9	39.8	38.2	-161.09	-222.0	112.0	766.9	690.4	76.46	10.030		
11,000.0	10,931.8	10,957.8	10,944.2	40.2	38.6	-161.92	-218.1	111.6	785.9	708.7	77.22	10.178		
11,100.0	11,029.7	11,071.3	11,054.9	40.7	38.9	-164.17	-193.8	109.3	803.1	725.1	77.92	10.307		
11,200.0	11,127.6	11,170.5	11,146.1	41.1	39.2	-167.27	-155.2	105.6	820.1	741.5	78.54	10.442		
11,300.0	11,225.5	11,253.2	11,216.1	41.5	39.4	-170.56	-111.4	101.5	839.4	760.4	79.05	10.619		
11,400.0	11,323.3	11,320.6	11,267.9	42.0	39.6	-173.64	-68.6	97.5	863.3	784.0	79.33	10.882		
11,500.0	11,421.2	11,375.2	11,306.0	42.4	39.7	-176.35	-29.7	93.8	893.0	813.7	79.27	11.266		
11,523.5	11,444.2	11,386.4	11,313.4	42.5	39.7	-176.93	-21.3	93.0	900.9	821.7	79.19	11.376		
11,600.0	11,519.2	11,419.6	11,334.1	42.8	39.8	-178.68	4.5	90.6	928.5	849.7	78.80	11.784		
11,700.0	11,617.7	11,456.4	11,355.4	43.3	39.9	179.36	34.5	87.7	968.5	890.5	77.92	12.428		
11,800.0	11,716.7	11,487.3	11,371.6	43.7	40.0	177.73	60.5	85.3	1,012.7	936.0	76.69	13.204		
11,900.0	11,815.9	11,513.4	11,384.3	44.1	40.0	176.37	83.2	83.1	1,061.0	985.8	75.17	14.114		
12,000.0	11,915.5	11,535.7	11,394.3	44.4	40.1	175.25	103.1	81.2	1,113.1	1,039.6	73.44	15.157		
12,100.0	12,015.2	11,550.0	11,400.3	44.8	40.1	174.58	116.1	80.0	1,168.6	1,097.1	71.47	16.350		
12,200.0	12,115.1	11,571.8	11,408.8	45.2	40.2	173.56	136.1	78.1	1,227.1	1,157.5	69.60	17.631		
12,300.0	12,215.1	11,586.7	11,414.1	45.5	40.2	172.93	149.8	76.8	1,288.3	1,220.7	67.61	19.054		
12,311.9	12,227.0	11,600.0	11,418.6	45.5	40.3	66.78	162.3	75.6	1,295.9	1,228.3	67.57	19.177		
12,400.0	12,315.1	11,600.0	11,418.6	45.8	40.3	66.78	162.3	75.6	1,352.6	1,286.9	65.66	20.599		
12,500.0	12,415.1	11,600.0	11,418.6	46.2	40.3	66.78	162.3	75.6	1,420.8	1,357.2	63.61	22.336		
12,600.0	12,515.1	11,621.6	11,425.3	46.5	40.3	65.68	182.8	73.7	1,492.2	1,430.2	62.06	24.045		
12,700.0	12,615.1	11,630.8	11,427.9	46.9	40.3	65.21	191.6	72.9	1,566.7	1,506.2	60.45	25.915		
12,711.9	12,627.0	11,631.9	11,428.2	46.9	40.3	65.16	192.6	72.8	1,575.7	1,515.4	60.27	26.143		
12,750.0	12,665.1	11,650.0	11,432.8	47.0	40.4	81.74	210.1	71.1	1,605.0	1,545.1	59.92	26.784		
12,800.0	12,714.8	11,650.0	11,432.8	47.2	40.4	75.92	210.1	71.1	1,643.2	1,584.1	59.14	27.787		
12,850.0	12,763.8	11,650.0	11,432.8	47.4	40.4	70.27	210.1	71.1	1,681.4	1,623.0	58.39	28.794		
12,900.0	12,811.8	11,650.0	11,432.8	47.5	40.4	64.91	210.1	71.1	1,719.3	1,661.6	57.70	29.798		
12,950.0	12,858.3	11,650.0	11,432.8	47.7	40.4	59.96	210.1	71.1	1,756.6	1,699.5	57.06	30.787		
13,000.0	12,903.1	11,670.9	11,437.5	47.8	40.4	55.05	230.3	69.2	1,792.6	1,735.8	56.73	31.599		
13,050.0	12,945.8	11,679.9	11,439.3	48.0	40.5	50.99	239.1	68.4	1,827.5	1,771.2	56.30	32.463		
13,100.0	12,986.1	11,700.0	11,442.8	48.1	40.5	47.34	258.8	66.5	1,861.1	1,805.1	56.04	33.213		
13,150.0	13,023.7	11,700.0	11,442.8	48.3	40.5	44.39	258.8	66.5	1,892.8	1,837.2	55.62	34.035		
13,200.0	13,058.2	11,700.0	11,442.8	48.4	40.5	41.81	258.8	66.5	1,922.9	1,867.7	55.27	34.792		
13,250.0	13,089.4	11,720.3	11,445.7	48.5	40.6	39.53	278.8	64.6	1,950.8	1,895.7	55.17	35.359		
13,300.0	13,117.2	11,731.2	11,446.9	48.7	40.6	37.62	289.6	63.6	1,976.7	1,921.6	55.06	35.903		
13,350.0	13,141.1	11,750.0	11,448.5	48.8	40.7	36.03	308.2	61.8	2,000.3	1,945.2	55.06	36.331		
13,400.0	13,161.2	11,750.0	11,448.5	48.9	40.7	34.68	308.2	61.8	2,021.4	1,966.4	55.01	36.745		
13,450.0	13,177.2	11,765.3	11,449.4	49.1	40.7	33.60	323.4	60.4	2,040.0	1,984.9	55.13	37.003		
13,500.0	13,189.1	11,790.4	11,450.0	49.2	40.8	32.77	348.4	58.0	2,056.2	2,000.9	55.35	37.146		
13,550.0	13,196.6	11,790.4	11,450.0	49.4	40.8	32.04	348.4	58.0	2,069.4	2,013.9	55.56	37.250		
13,600.0	13,199.8	11,819.8	11,450.0	49.6	40.9	31.65	377.7	55.4	2,079.9	2,024.0	55.93	37.187		
13,611.9	13,200.0	11,827.9	11,450.0	49.6	40.9	31.60	385.8	54.8	2,081.9	2,025.9	56.03	37.155		
13,700.0	13,200.0	11,888.2	11,450.0	50.0	41.1	32.26	445.9	50.5	2,096.0	2,039.2	56.82	36.887		
13,800.0	13,200.0	11,956.3	11,450.0	50.4	41.3	32.98	514.0	47.2	2,111.7	2,053.9	57.75	36.569		
13,900.0	13,200.0	12,024.2	11,450.0	50.9	41.6	33.66	581.9	45.6	2,127.0	2,068.3	58.69	36.244		
14,000.0	13,200.0	12,115.2	11,450.0	51.4	42.0	34.42	672.9	44.8	2,141.6	2,081.8	59.76	35.838		
14,100.0	13,200.0	12,212.8	11,450.0	52.0	42.5	35.11	770.4	44.0	2,154.3	2,093.5	60.87	35.395		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	13,200.0	12,311.0	11,450.0	52.6	43.1	35.68	868.6	43.3	2,165.3	2,103.3	61.99	34.929		
14,300.0	13,200.0	12,409.8	11,450.0	53.2	43.7	36.15	967.5	42.5	2,174.2	2,111.1	63.13	34.443		
14,400.0	13,200.0	12,509.1	11,450.0	53.8	44.3	36.51	1,066.8	41.7	2,181.2	2,117.0	64.27	33.939		
14,500.0	13,200.0	12,608.8	11,450.0	54.5	45.1	36.76	1,166.4	40.9	2,186.2	2,120.7	65.41	33.420		
14,600.0	13,200.0	12,708.7	11,450.0	55.1	45.8	36.91	1,266.3	40.1	2,189.0	2,122.5	66.56	32.890		
14,687.2	13,200.0	12,804.1	11,450.0	55.7	46.6	36.95	1,353.5	39.4	2,189.8	2,122.2	67.60	32.394		
14,700.0	13,200.0	12,808.7	11,450.0	55.8	46.6	36.95	1,366.3	39.3	2,189.8	2,122.1	67.69	32.349		
14,800.0	13,200.0	12,908.7	11,450.0	56.5	47.5	36.95	1,466.3	38.6	2,189.8	2,120.9	68.86	31.800		
14,900.0	13,200.0	13,008.7	11,450.0	57.3	48.4	36.95	1,566.3	37.8	2,189.8	2,119.7	70.09	31.243		
15,000.0	13,200.0	13,108.7	11,450.0	58.1	49.4	36.95	1,666.3	37.0	2,189.8	2,118.4	71.37	30.681		
15,100.0	13,200.0	13,208.7	11,450.0	58.9	50.3	36.95	1,766.3	36.2	2,189.8	2,117.1	72.71	30.116		
15,200.0	13,200.0	13,308.7	11,450.0	59.7	51.3	36.95	1,866.3	35.4	2,189.8	2,115.7	74.10	29.552		
15,300.0	13,200.0	13,408.7	11,450.0	60.6	52.4	36.95	1,966.3	34.6	2,189.8	2,114.2	75.54	28.990		
15,400.0	13,200.0	13,508.7	11,450.0	61.6	53.5	36.95	2,066.3	33.8	2,189.7	2,112.7	77.01	28.433		
15,500.0	13,200.0	13,608.7	11,450.0	62.5	54.6	36.95	2,166.3	33.0	2,189.7	2,111.2	78.54	27.880		
15,600.0	13,200.0	13,708.7	11,450.0	63.5	55.7	36.95	2,266.3	32.3	2,189.7	2,109.6	80.10	27.336		
15,700.0	13,200.0	13,808.7	11,450.0	64.5	56.9	36.95	2,366.3	31.5	2,189.7	2,108.0	81.71	26.800		
15,800.0	13,200.0	13,908.7	11,450.0	65.5	58.1	36.95	2,466.2	30.7	2,189.7	2,106.4	83.34	26.274		
15,900.0	13,200.0	14,008.7	11,450.0	66.6	59.3	36.95	2,566.2	29.9	2,189.7	2,104.7	85.01	25.757		
16,000.0	13,200.0	14,108.7	11,450.0	67.7	60.5	36.95	2,666.2	29.1	2,189.7	2,103.0	86.72	25.251		
16,100.0	13,200.0	14,208.7	11,450.0	68.8	61.7	36.95	2,766.2	28.3	2,189.7	2,101.2	88.45	24.757		
16,200.0	13,200.0	14,308.7	11,450.0	69.9	63.0	36.95	2,866.2	27.5	2,189.7	2,099.5	90.21	24.273		
16,300.0	13,200.0	14,408.7	11,450.0	71.1	64.3	36.95	2,966.2	26.7	2,189.7	2,097.7	92.00	23.802		
16,400.0	13,200.0	14,508.7	11,450.0	72.3	65.6	36.95	3,066.2	25.9	2,189.7	2,095.8	93.81	23.342		
16,500.0	13,200.0	14,608.7	11,450.0	73.5	66.9	36.94	3,166.2	25.2	2,189.6	2,094.0	95.64	22.894		
16,600.0	13,200.0	14,708.7	11,450.0	74.7	68.2	36.94	3,266.2	24.4	2,189.6	2,092.1	97.50	22.458		
16,700.0	13,200.0	14,808.7	11,450.0	75.9	69.6	36.94	3,366.2	23.6	2,189.6	2,090.2	99.38	22.033		
16,800.0	13,200.0	14,908.7	11,450.0	77.1	70.9	36.94	3,466.2	22.8	2,189.6	2,088.3	101.28	21.620		
16,900.0	13,200.0	15,008.7	11,450.0	78.4	72.3	36.94	3,566.2	22.0	2,189.6	2,086.4	103.20	21.218		
17,000.0	13,200.0	15,108.7	11,450.0	79.7	73.7	36.94	3,666.2	21.2	2,189.6	2,084.5	105.13	20.827		
17,100.0	13,200.0	15,208.7	11,450.0	81.0	75.1	36.94	3,766.2	20.4	2,189.6	2,082.5	107.08	20.448		
17,200.0	13,200.0	15,308.7	11,450.0	82.3	76.5	36.94	3,866.2	19.6	2,189.6	2,080.5	109.05	20.079		
17,300.0	13,200.0	15,408.7	11,450.0	83.6	77.9	36.94	3,966.2	18.9	2,189.6	2,078.5	111.03	19.720		
17,400.0	13,200.0	15,508.7	11,450.0	84.9	79.3	36.94	4,066.2	18.1	2,189.6	2,076.5	113.03	19.371		
17,500.0	13,200.0	15,608.7	11,450.0	86.3	80.8	36.94	4,166.2	17.3	2,189.6	2,074.5	115.04	19.033		
17,600.0	13,200.0	15,708.7	11,450.0	87.6	82.2	36.94	4,266.2	16.5	2,189.5	2,072.5	117.06	18.704		
17,700.0	13,200.0	15,808.7	11,450.0	89.0	83.7	36.94	4,366.2	15.7	2,189.5	2,070.4	119.10	18.384		
17,800.0	13,200.0	15,908.7	11,450.0	90.3	85.1	36.94	4,466.2	14.9	2,189.5	2,068.4	121.15	18.073		
17,900.0	13,200.0	16,008.7	11,450.0	91.7	86.6	36.94	4,566.2	14.1	2,189.5	2,066.3	123.21	17.771		
18,000.0	13,200.0	16,108.7	11,450.0	93.1	88.1	36.94	4,666.2	13.3	2,189.5	2,064.2	125.27	17.478		
18,100.0	13,200.0	16,208.7	11,450.0	94.5	89.5	36.94	4,766.2	12.6	2,189.5	2,062.1	127.35	17.192		
18,200.0	13,200.0	16,308.7	11,450.0	95.9	91.0	36.94	4,866.2	11.8	2,189.5	2,060.0	129.44	16.915		
18,300.0	13,200.0	16,408.7	11,450.0	97.3	92.5	36.94	4,966.2	11.0	2,189.5	2,057.9	131.54	16.645		
18,400.0	13,200.0	16,508.7	11,450.0	98.7	94.0	36.94	5,066.2	10.2	2,189.5	2,055.8	133.64	16.383		
18,500.0	13,200.0	16,608.7	11,450.0	100.2	95.5	36.94	5,166.2	9.4	2,189.5	2,053.7	135.76	16.128		
18,600.0	13,200.0	16,708.7	11,450.0	101.6	97.0	36.94	5,266.2	8.6	2,189.4	2,051.6	137.88	15.880		
18,700.0	13,200.0	16,808.7	11,450.0	103.0	98.5	36.94	5,366.2	7.8	2,189.4	2,049.4	140.01	15.638		
18,800.0	13,200.0	16,908.7	11,450.0	104.5	100.0	36.94	5,466.2	7.0	2,189.4	2,047.3	142.14	15.403		
18,900.0	13,200.0	17,008.7	11,450.0	105.9	101.5	36.94	5,566.2	6.2	2,189.4	2,045.1	144.29	15.174		
19,000.0	13,200.0	17,108.7	11,450.0	107.4	103.1	36.94	5,666.1	5.5	2,189.4	2,043.0	146.43	14.951		
19,100.0	13,200.0	17,208.7	11,450.0	108.9	104.6	36.94	5,766.1	4.7	2,189.4	2,040.8	148.59	14.735		
19,200.0	13,200.0	17,308.7	11,450.0	110.3	106.1	36.94	5,866.1	3.9	2,189.4	2,038.6	150.75	14.523		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	13,200.0	17,408.7	11,450.0	111.8	107.7	36.94	5,966.1	3.1	2,189.4	2,036.5	152.92	14.317		
19,400.0	13,200.0	17,508.7	11,450.0	113.3	109.2	36.94	6,066.1	2.3	2,189.4	2,034.3	155.09	14.117		
19,500.0	13,200.0	17,608.7	11,450.0	114.8	110.7	36.93	6,166.1	1.5	2,189.4	2,032.1	157.27	13.921		
19,600.0	13,200.0	17,708.7	11,450.0	116.3	112.3	36.93	6,266.1	0.7	2,189.4	2,029.9	159.45	13.731		
19,700.0	13,200.0	17,808.7	11,450.0	117.8	113.8	36.93	6,366.1	-0.1	2,189.3	2,027.7	161.64	13.545		
19,800.0	13,200.0	17,908.7	11,450.0	119.3	115.4	36.93	6,466.1	-0.8	2,189.3	2,025.5	163.83	13.363		
19,900.0	13,200.0	18,008.7	11,450.0	120.8	117.0	36.93	6,566.1	-1.6	2,189.3	2,023.3	166.03	13.186		
20,000.0	13,200.0	18,108.7	11,450.0	122.3	118.5	36.93	6,666.1	-2.4	2,189.3	2,021.1	168.23	13.014		
20,100.0	13,200.0	18,208.7	11,450.0	123.8	120.1	36.93	6,766.1	-3.2	2,189.3	2,018.9	170.43	12.845		
20,200.0	13,200.0	18,308.7	11,450.0	125.3	121.6	36.93	6,866.1	-4.0	2,189.3	2,016.7	172.64	12.681		
20,300.0	13,200.0	18,408.7	11,450.0	126.8	123.2	36.93	6,966.1	-4.8	2,189.3	2,014.4	174.86	12.521		
20,400.0	13,200.0	18,508.7	11,450.0	128.4	124.8	36.93	7,066.1	-5.6	2,189.3	2,012.2	177.07	12.364		
20,500.0	13,200.0	18,608.7	11,450.0	129.9	126.3	36.93	7,166.1	-6.4	2,189.3	2,010.0	179.29	12.211		
20,600.0	13,200.0	18,708.7	11,450.0	131.4	127.9	36.93	7,266.1	-7.1	2,189.3	2,007.7	181.52	12.061		
20,700.0	13,200.0	18,808.7	11,450.0	132.9	129.5	36.93	7,366.1	-7.9	2,189.3	2,005.5	183.74	11.915		
20,800.0	13,200.0	18,908.7	11,450.0	134.5	131.1	36.93	7,466.1	-8.7	2,189.2	2,003.3	185.97	11.772		
20,900.0	13,200.0	19,008.7	11,450.0	136.0	132.6	36.93	7,566.1	-9.5	2,189.2	2,001.0	188.20	11.632		
21,000.0	13,200.0	19,108.7	11,450.0	137.6	134.2	36.93	7,666.1	-10.3	2,189.2	1,998.8	190.44	11.496		
21,100.0	13,200.0	19,208.7	11,450.0	139.1	135.8	36.93	7,766.1	-11.1	2,189.2	1,996.5	192.68	11.362		
21,200.0	13,200.0	19,308.7	11,450.0	140.7	137.4	36.93	7,866.1	-11.9	2,189.2	1,994.3	194.92	11.231		
21,300.0	13,200.0	19,408.7	11,450.0	142.2	139.0	36.93	7,966.1	-12.7	2,189.2	1,992.0	197.16	11.103		
21,400.0	13,200.0	19,508.7	11,450.0	143.8	140.6	36.93	8,066.1	-13.5	2,189.2	1,989.8	199.41	10.978		
21,500.0	13,200.0	19,608.7	11,450.0	145.3	142.1	36.93	8,166.1	-14.2	2,189.2	1,987.5	201.66	10.856		
21,600.0	13,200.0	19,708.7	11,450.0	146.9	143.7	36.93	8,266.1	-15.0	2,189.2	1,985.3	203.91	10.736		
21,700.0	13,200.0	19,808.7	11,450.0	148.4	145.3	36.93	8,366.1	-15.8	2,189.2	1,983.0	206.16	10.619		
21,800.0	13,200.0	19,908.7	11,450.0	150.0	146.9	36.93	8,466.1	-16.6	2,189.1	1,980.7	208.42	10.504		
21,900.0	13,200.0	20,008.7	11,450.0	151.5	148.5	36.93	8,566.1	-17.4	2,189.1	1,978.5	210.68	10.391		
22,000.0	13,200.0	20,108.7	11,450.0	153.1	150.1	36.93	8,666.1	-18.2	2,189.1	1,976.2	212.94	10.281		
22,100.0	13,200.0	20,208.7	11,450.0	154.7	151.7	36.93	8,766.1	-19.0	2,189.1	1,973.9	215.20	10.173		
22,200.0	13,200.0	20,308.7	11,450.0	156.2	153.3	36.93	8,866.0	-19.8	2,189.1	1,971.6	217.46	10.067		
22,300.0	13,200.0	20,408.7	11,450.0	157.8	154.9	36.93	8,966.0	-20.5	2,189.1	1,969.4	219.73	9.963		
22,400.0	13,200.0	20,508.7	11,450.0	159.4	156.5	36.93	9,066.0	-21.3	2,189.1	1,967.1	222.00	9.861		
22,500.0	13,200.0	20,608.7	11,450.0	161.0	158.1	36.93	9,166.0	-22.1	2,189.1	1,964.8	224.26	9.761		
22,600.0	13,200.0	20,708.7	11,450.0	162.5	159.7	36.92	9,266.0	-22.9	2,189.1	1,962.5	226.54	9.663		
22,700.0	13,200.0	20,808.7	11,450.0	164.1	161.3	36.92	9,366.0	-23.7	2,189.1	1,960.3	228.81	9.567		
22,800.0	13,200.0	20,908.7	11,450.0	165.7	162.9	36.92	9,466.0	-24.5	2,189.1	1,958.0	231.08	9.473		
22,900.0	13,200.0	21,008.7	11,450.0	167.3	164.5	36.92	9,566.0	-25.3	2,189.0	1,955.7	233.36	9.381		
23,000.0	13,200.0	21,108.7	11,450.0	168.9	166.1	36.92	9,666.0	-26.1	2,189.0	1,953.4	235.64	9.290		
23,100.0	13,200.0	21,208.7	11,450.0	170.4	167.7	36.92	9,766.0	-26.9	2,189.0	1,951.1	237.91	9.201		
23,200.0	13,200.0	21,308.7	11,450.0	172.0	169.4	36.92	9,866.0	-27.6	2,189.0	1,948.8	240.20	9.114		
23,300.0	13,200.0	21,408.7	11,450.0	173.6	171.0	36.92	9,966.0	-28.4	2,189.0	1,946.5	242.48	9.028		
23,400.0	13,200.0	21,508.7	11,450.0	175.2	172.6	36.92	10,066.0	-29.2	2,189.0	1,944.2	244.76	8.943		
23,504.9	13,200.0	21,613.5	11,450.0	176.9	174.2	36.92	10,170.9	-30.0	2,189.0	1,941.9	247.12	8.858		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	90.06	-2.3	2,423.2	2,423.2				
100.0	100.0	101.0	99.0	0.1	0.1	90.06	-2.3	2,423.2	2,423.2	2,423.0	0.26	9,323.960	
200.0	200.0	201.0	199.0	0.5	0.5	90.06	-2.3	2,423.2	2,423.2	2,422.2	0.98	2,480.689	
300.0	300.0	301.0	299.0	0.8	0.8	90.06	-2.3	2,423.2	2,423.2	2,421.5	1.69	1,430.662	
400.0	400.0	401.0	399.0	1.2	1.2	90.06	-2.3	2,423.2	2,423.2	2,420.8	2.41	1,005.186	
500.0	500.0	501.0	499.0	1.6	1.6	90.06	-2.3	2,423.2	2,423.2	2,420.1	3.13	774.771	
600.0	600.0	601.0	599.0	1.9	1.9	90.06	-2.3	2,423.2	2,423.2	2,419.4	3.84	630.292	
700.0	700.0	701.0	699.0	2.3	2.3	90.06	-2.3	2,423.2	2,423.2	2,418.7	4.56	531.228	
800.0	800.0	801.0	799.0	2.6	2.6	90.06	-2.3	2,423.2	2,423.2	2,417.9	5.28	459.075	
900.0	900.0	901.0	899.0	3.0	3.0	90.06	-2.3	2,423.2	2,423.2	2,417.2	6.00	404.178	
1,000.0	1,000.0	999.0	999.0	3.4	3.4	90.06	-2.3	2,423.2	2,423.2	2,416.5	6.71	361.394	
1,100.0	1,100.0	1,171.4	1,171.4	3.7	3.9	90.06	-2.4	2,420.7	2,421.7	2,414.1	7.66	316.104	
1,200.0	1,200.0	1,344.3	1,344.1	4.1	4.6	90.06	-2.7	2,412.9	2,417.2	2,408.6	8.61	280.654	
1,300.0	1,300.0	1,516.5	1,515.8	4.4	5.2	90.07	-3.1	2,400.0	2,409.7	2,400.2	9.56	252.025	
1,400.0	1,400.0	1,687.8	1,686.2	4.8	5.8	90.09	-3.6	2,382.0	2,399.3	2,388.8	10.50	228.425	
1,500.0	1,500.0	1,810.6	1,807.9	5.1	6.3	90.10	-4.1	2,366.4	2,386.5	2,375.2	11.28	211.481	
1,600.0	1,600.0	1,909.8	1,906.3	5.5	6.6	90.11	-4.5	2,353.6	2,373.5	2,361.5	11.99	197.941	
1,700.0	1,700.0	2,008.9	2,004.6	5.9	7.0	90.12	-4.9	2,340.7	2,360.6	2,347.9	12.70	185.881	
1,800.0	1,800.0	2,108.1	2,102.9	6.2	7.4	90.13	-5.3	2,327.9	2,347.6	2,334.2	13.41	175.076	
1,900.0	1,900.0	2,207.2	2,201.2	6.6	7.8	90.14	-5.7	2,315.0	2,334.7	2,320.6	14.12	165.343	
2,000.0	2,000.0	2,306.4	2,299.6	6.9	8.2	90.15	-6.1	2,302.2	2,321.7	2,306.9	14.83	156.531	
2,100.0	2,100.0	2,405.5	2,397.9	7.3	8.6	90.16	-6.5	2,289.4	2,308.8	2,293.3	15.55	148.518	
2,200.0	2,200.0	2,504.7	2,496.2	7.7	9.0	90.17	-6.9	2,276.5	2,295.9	2,279.6	16.26	141.200	
2,300.0	2,300.0	2,603.9	2,594.5	8.0	9.4	90.19	-7.3	2,263.7	2,282.9	2,265.9	16.97	134.493	
2,400.0	2,400.0	2,703.0	2,692.8	8.4	9.8	90.20	-7.7	2,250.9	2,270.0	2,252.3	17.69	128.322	
2,500.0	2,500.0	2,802.2	2,791.2	8.7	10.2	90.21	-8.1	2,238.0	2,257.0	2,238.6	18.41	122.627	
2,600.0	2,600.0	2,901.3	2,889.5	9.1	10.6	90.22	-8.5	2,225.2	2,244.1	2,225.0	19.12	117.356	
2,700.0	2,700.0	3,000.5	2,987.8	9.4	11.0	90.23	-8.9	2,212.3	2,231.1	2,211.3	19.84	112.463	
2,800.0	2,800.0	3,099.6	3,086.1	9.8	11.4	90.24	-9.3	2,199.5	2,218.2	2,197.6	20.56	107.909	
2,900.0	2,900.0	3,201.2	3,184.5	10.2	11.8	90.26	-9.7	2,186.7	2,205.2	2,184.0	21.28	103.617	
3,000.0	3,000.0	3,302.0	3,282.8	10.5	12.2	90.27	-10.1	2,173.8	2,192.3	2,170.3	22.01	99.619	
3,100.0	3,100.0	3,402.9	3,381.1	10.9	12.6	90.28	-10.5	2,161.0	2,179.4	2,156.6	22.73	95.875	
3,200.0	3,200.0	3,503.7	3,479.4	11.2	13.0	90.29	-10.9	2,148.2	2,166.4	2,143.0	23.46	92.360	
3,300.0	3,300.0	3,604.6	3,577.7	11.6	13.4	90.30	-11.3	2,135.3	2,153.5	2,129.3	24.18	89.056	
3,400.0	3,400.0	3,705.4	3,676.1	12.0	13.8	90.32	-11.7	2,122.5	2,140.5	2,115.6	24.91	85.942	
3,500.0	3,500.0	3,806.3	3,774.4	12.3	14.2	90.33	-12.1	2,109.6	2,127.6	2,101.9	25.63	83.005	
3,600.0	3,600.0	3,907.1	3,872.7	12.7	14.6	90.34	-12.5	2,096.8	2,114.6	2,088.3	26.36	80.228	
3,700.0	3,700.0	4,007.9	3,971.0	13.0	15.1	90.36	-12.9	2,084.0	2,101.7	2,074.6	27.08	77.600	
3,800.0	3,800.0	4,108.8	4,069.4	13.4	15.5	90.37	-13.4	2,071.1	2,088.7	2,060.9	27.81	75.108	
3,900.0	3,900.0	4,209.6	4,167.7	13.8	15.9	90.38	-13.8	2,058.3	2,075.8	2,047.3	28.54	72.743	
4,000.0	4,000.0	4,289.5	4,266.0	14.1	16.2	90.40	-14.2	2,045.5	2,062.9	2,033.7	29.19	70.681	
4,100.0	4,100.0	4,388.7	4,364.3	14.5	16.6	90.41	-14.6	2,032.6	2,049.9	2,020.0	29.91	68.546	
4,200.0	4,200.0	4,487.8	4,462.6	14.8	17.0	90.42	-15.0	2,019.8	2,037.0	2,006.3	30.63	66.511	
4,300.0	4,300.0	4,587.0	4,561.0	15.2	17.4	90.44	-15.4	2,006.9	2,024.0	1,992.7	31.35	64.569	
4,400.0	4,400.0	4,686.2	4,659.3	15.5	17.8	90.45	-15.8	1,994.1	2,011.1	1,979.0	32.07	62.714	
4,500.0	4,500.0	4,785.3	4,757.6	15.9	18.2	90.47	-16.2	1,981.3	1,998.1	1,965.4	32.79	60.941	
4,600.0	4,600.0	4,884.5	4,855.9	16.3	18.6	90.48	-16.6	1,968.4	1,985.2	1,951.7	33.51	59.243	
4,700.0	4,700.0	4,983.6	4,954.3	16.6	19.1	90.50	-17.0	1,955.6	1,972.3	1,938.0	34.23	57.617	
4,800.0	4,800.0	5,082.8	5,052.6	17.0	19.5	90.51	-17.4	1,942.8	1,959.3	1,924.4	34.95	56.058	
4,900.0	4,900.0	5,182.0	5,150.9	17.3	19.9	90.53	-17.8	1,929.9	1,946.4	1,910.7	35.67	54.562	
5,000.0	5,000.0	5,281.1	5,249.2	17.7	20.3	90.54	-18.2	1,917.1	1,933.4	1,897.0	36.39	53.125	
5,100.0	5,100.0	5,380.3	5,347.5	18.1	20.7	90.56	-18.6	1,904.3	1,920.5	1,883.4	37.12	51.744	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,479.4	5,445.9	18.4	21.1	90.57	-19.0	1,891.4	1,907.6	1,869.7	37.84	50.415		
5,300.0	5,300.0	5,578.6	5,544.2	18.8	21.5	90.59	-19.4	1,878.6	1,894.6	1,856.1	38.56	49.136		
5,400.0	5,400.0	5,677.7	5,642.5	19.1	21.9	90.61	-19.8	1,865.7	1,881.7	1,842.4	39.28	47.904		
5,500.0	5,500.0	5,776.9	5,740.8	19.5	22.3	90.62	-20.2	1,852.9	1,868.7	1,828.7	40.00	46.716		
5,600.0	5,600.0	5,876.1	5,839.2	19.8	22.7	90.64	-20.6	1,840.1	1,855.8	1,815.1	40.72	45.571		
5,700.0	5,700.0	5,975.2	5,937.5	20.2	23.1	90.66	-21.0	1,827.2	1,842.8	1,801.4	41.45	44.465		
5,800.0	5,800.0	6,074.4	6,035.8	20.6	23.6	90.67	-21.4	1,814.4	1,829.9	1,787.7	42.17	43.396		
5,900.0	5,900.0	6,173.5	6,134.1	20.9	24.0	90.69	-21.8	1,801.6	1,817.0	1,774.1	42.89	42.364		
6,000.0	6,000.0	6,272.7	6,232.4	21.3	24.4	90.71	-22.2	1,788.7	1,804.0	1,760.4	43.61	41.366		
6,100.0	6,100.0	6,371.8	6,330.8	21.6	24.8	90.73	-22.6	1,775.9	1,791.1	1,746.7	44.33	40.401		
6,200.0	6,200.0	6,471.0	6,429.1	22.0	25.2	90.75	-23.0	1,763.0	1,778.1	1,733.1	45.06	39.466		
6,300.0	6,300.0	6,570.2	6,527.4	22.4	25.6	90.77	-23.4	1,750.2	1,765.2	1,719.4	45.78	38.561		
6,400.0	6,400.0	6,669.3	6,625.7	22.7	26.0	90.78	-23.8	1,737.4	1,752.3	1,705.8	46.50	37.683		
6,500.0	6,500.0	6,768.5	6,724.1	23.1	26.4	90.80	-24.2	1,724.5	1,739.3	1,692.1	47.22	36.833		
6,600.0	6,600.0	6,867.6	6,822.4	23.4	26.8	90.82	-24.6	1,711.7	1,726.4	1,678.4	47.94	36.008		
6,700.0	6,700.0	6,966.8	6,920.7	23.8	27.2	90.84	-25.0	1,698.9	1,713.4	1,664.8	48.67	35.208		
6,800.0	6,800.0	7,065.9	7,019.0	24.1	27.6	90.86	-25.4	1,686.0	1,700.5	1,651.1	49.39	34.431		
6,900.0	6,900.0	7,165.1	7,117.3	24.5	28.1	90.88	-25.8	1,673.2	1,687.6	1,637.5	50.11	33.676		
7,000.0	7,000.0	7,264.3	7,215.7	24.9	28.5	90.90	-26.2	1,660.3	1,674.6	1,623.8	50.83	32.943		
7,100.0	7,100.0	7,363.5	7,314.1	25.2	28.9	-163.63	-26.6	1,647.5	1,662.5	1,611.0	51.55	32.253		
7,200.0	7,200.0	7,463.0	7,412.7	25.5	29.3	-163.66	-27.0	1,634.6	1,652.1	1,599.8	52.25	31.621		
7,300.0	7,299.9	7,551.0	7,500.0	25.9	29.7	-163.70	-27.3	1,623.2	1,643.3	1,590.4	52.93	31.046		
7,400.0	7,399.7	7,614.3	7,562.9	26.2	29.9	-163.72	-28.4	1,615.9	1,637.8	1,584.3	53.56	30.577		
7,477.6	7,477.0	7,658.4	7,606.8	26.5	30.1	-163.69	-30.2	1,611.9	1,636.5	1,582.5	54.02	30.293 CC		
7,500.0	7,499.4	7,674.8	7,623.1	26.6	30.1	-163.67	-31.0	1,610.7	1,636.6	1,582.5	54.16	30.218 ES		
7,600.0	7,598.9	7,768.4	7,716.3	26.9	30.5	-163.57	-36.2	1,603.8	1,638.6	1,583.8	54.84	29.880		
7,700.0	7,698.3	7,868.3	7,815.7	27.2	30.8	-163.48	-41.7	1,596.5	1,642.3	1,586.7	55.54	29.570		
7,800.0	7,797.4	7,968.1	7,915.2	27.6	31.2	-163.39	-47.2	1,589.3	1,647.6	1,591.4	56.23	29.298		
7,900.0	7,896.3	8,067.9	8,014.5	27.9	31.6	-163.33	-52.7	1,582.0	1,654.6	1,597.7	56.93	29.062		
8,000.0	7,994.9	8,167.5	8,113.7	28.3	32.0	-163.27	-58.2	1,574.7	1,663.3	1,605.6	57.63	28.861		
8,100.0	8,093.3	8,266.9	8,212.7	28.6	32.3	-163.22	-63.7	1,567.4	1,673.6	1,615.3	58.33	28.693		
8,182.6	8,174.2	8,348.9	8,294.4	28.9	32.6	-163.20	-68.2	1,561.4	1,683.4	1,624.5	58.90	28.579		
8,200.0	8,191.3	8,366.2	8,311.6	29.0	32.7	-163.20	-69.2	1,560.2	1,685.5	1,626.5	59.02	28.557		
8,300.0	8,289.1	8,465.4	8,410.4	29.4	33.1	-163.21	-74.6	1,552.9	1,698.1	1,638.4	59.72	28.434		
8,400.0	8,387.0	8,564.7	8,509.2	29.7	33.4	-163.22	-80.1	1,545.7	1,710.6	1,650.2	60.42	28.312		
8,500.0	8,484.9	8,663.9	8,608.0	30.1	33.8	-163.23	-85.6	1,538.4	1,723.1	1,662.0	61.12	28.192		
8,600.0	8,582.8	8,763.1	8,706.8	30.5	34.2	-163.23	-91.1	1,531.2	1,735.7	1,673.9	61.82	28.075		
8,700.0	8,680.6	8,862.3	8,805.6	30.9	34.5	-163.24	-96.5	1,523.9	1,748.2	1,685.7	62.53	27.959		
8,800.0	8,778.5	8,961.5	8,904.4	31.2	34.9	-163.25	-102.0	1,516.7	1,760.7	1,697.5	63.23	27.846		
8,900.0	8,876.4	9,060.7	9,003.2	31.6	35.3	-163.26	-107.5	1,509.4	1,773.3	1,709.3	63.94	27.734		
9,000.0	8,974.3	9,159.9	9,102.0	32.0	35.7	-163.27	-113.0	1,502.2	1,785.8	1,721.2	64.65	27.624		
9,100.0	9,072.1	9,259.1	9,200.7	32.4	36.0	-163.28	-118.4	1,494.9	1,798.3	1,733.0	65.36	27.516		
9,200.0	9,170.0	9,358.3	9,299.5	32.8	36.4	-163.28	-123.9	1,487.7	1,810.9	1,744.8	66.07	27.409		
9,300.0	9,267.9	9,457.6	9,398.3	33.2	36.8	-163.29	-129.4	1,480.4	1,823.4	1,756.6	66.78	27.304		
9,400.0	9,365.8	9,556.8	9,497.1	33.6	37.1	-163.30	-134.9	1,473.2	1,835.9	1,768.4	67.49	27.201		
9,500.0	9,463.7	9,656.0	9,595.9	34.0	37.5	-163.31	-140.3	1,465.9	1,848.5	1,780.2	68.21	27.100		
9,600.0	9,561.5	9,755.2	9,694.7	34.4	37.9	-163.31	-145.8	1,458.7	1,861.0	1,792.1	68.92	27.001		
9,700.0	9,659.4	9,854.4	9,793.5	34.8	38.3	-163.32	-151.3	1,451.4	1,873.5	1,803.9	69.64	26.902		
9,800.0	9,757.3	9,953.6	9,892.3	35.2	38.6	-163.33	-156.8	1,444.2	1,886.1	1,815.7	70.36	26.806		
9,900.0	9,855.2	10,052.8	9,991.1	35.6	39.0	-163.34	-162.2	1,436.9	1,898.6	1,827.5	71.08	26.711		
10,000.0	9,953.0	10,152.0	10,089.9	36.0	39.4	-163.34	-167.7	1,429.7	1,911.1	1,839.3	71.80	26.618		
10,100.0	10,050.9	10,251.2	10,188.7	36.4	39.8	-163.35	-173.2	1,422.4	1,923.6	1,851.1	72.52	26.526		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,350.5	10,287.5	36.9	40.1	-163.36	-178.7	1,415.2	1,936.2	1,862.9	73.24	26.435		
10,300.0	10,246.7	10,449.7	10,386.3	37.3	40.5	-163.36	-184.1	1,407.9	1,948.7	1,874.7	73.96	26.346		
10,400.0	10,344.6	10,548.9	10,485.1	37.7	40.9	-163.37	-189.6	1,400.7	1,961.2	1,886.6	74.69	26.259		
10,500.0	10,442.4	10,648.1	10,583.9	38.1	41.2	-163.38	-195.1	1,393.4	1,973.8	1,898.4	75.41	26.173		
10,600.0	10,540.3	10,747.3	10,682.7	38.5	41.6	-163.38	-200.6	1,386.2	1,986.3	1,910.2	76.14	26.088		
10,700.0	10,638.2	10,800.0	10,735.2	39.0	41.8	-163.40	-203.2	1,382.7	1,999.7	1,923.0	76.67	26.082		
10,800.0	10,736.1	10,863.0	10,798.1	39.4	42.0	-163.44	-205.3	1,379.9	2,015.2	1,938.0	77.21	26.099		
10,900.0	10,833.9	10,917.6	10,852.6	39.8	42.2	-163.51	-206.2	1,378.7	2,032.9	1,955.2	77.68	26.168		
11,000.0	10,931.8	10,999.2	10,934.1	40.2	42.5	-163.72	-203.4	1,378.6	2,052.3	1,974.0	78.27	26.221		
11,100.0	11,029.7	11,098.2	11,031.3	40.7	42.8	-164.39	-185.1	1,378.5	2,071.8	1,992.9	78.91	26.257		
11,200.0	11,127.6	11,186.9	11,114.6	41.1	43.0	-165.37	-154.7	1,378.2	2,091.8	2,012.4	79.45	26.329		
11,300.0	11,225.5	11,263.3	11,181.8	41.5	43.2	-166.47	-118.5	1,377.9	2,112.9	2,033.0	79.89	26.448		
11,400.0	11,323.3	11,327.7	11,234.3	42.0	43.3	-167.57	-81.2	1,377.6	2,135.9	2,055.6	80.23	26.621		
11,500.0	11,421.2	11,381.4	11,274.6	42.4	43.3	-168.59	-45.9	1,377.4	2,161.2	2,080.7	80.47	26.858		
11,523.5	11,444.2	11,392.6	11,282.6	42.5	43.4	-168.81	-38.0	1,377.3	2,167.5	2,087.0	80.51	26.924		
11,600.0	11,519.2	11,426.2	11,305.6	42.8	43.4	-169.57	-13.5	1,377.1	2,188.6	2,108.0	80.59	27.156		
11,700.0	11,617.7	11,464.2	11,329.9	43.3	43.4	-170.45	15.7	1,376.9	2,216.6	2,136.0	80.60	27.501		
11,800.0	11,716.7	11,500.0	11,350.9	43.7	43.5	-171.31	44.7	1,376.6	2,245.4	2,164.9	80.52	27.887		
11,900.0	11,815.9	11,524.5	11,364.3	44.1	43.5	-171.92	65.3	1,376.5	2,275.1	2,194.8	80.28	28.339		
12,000.0	11,915.5	11,550.0	11,377.2	44.4	43.5	-172.57	87.2	1,376.3	2,305.7	2,225.7	79.96	28.836		
12,100.0	12,015.2	11,570.0	11,386.6	44.8	43.5	-173.08	104.8	1,376.2	2,337.3	2,257.8	79.53	29.390		
12,200.0	12,115.1	11,600.0	11,399.6	45.2	43.6	-173.83	131.9	1,375.9	2,370.0	2,290.9	79.08	29.970		
12,300.0	12,215.1	11,600.0	11,399.6	45.5	43.6	-173.89	131.9	1,375.9	2,403.5	2,325.2	78.33	30.685		
12,311.9	12,227.0	11,600.0	11,399.6	45.5	43.6	80.61	131.9	1,375.9	2,407.6	2,329.4	78.23	30.774		
12,400.0	12,315.1	11,620.1	11,407.6	45.8	43.6	80.15	150.4	1,375.8	2,439.0	2,361.4	77.67	31.401		
12,500.0	12,415.1	11,633.3	11,412.4	46.2	43.6	79.84	162.6	1,375.7	2,477.8	2,400.9	76.92	32.213		
12,600.0	12,515.1	11,650.0	11,418.1	46.5	43.6	79.45	178.3	1,375.6	2,519.9	2,443.7	76.16	33.086		
12,700.0	12,615.1	11,650.0	11,418.1	46.9	43.6	79.45	178.3	1,375.6	2,564.9	2,489.7	75.24	34.091		
12,711.9	12,627.0	11,650.0	11,418.1	46.9	43.6	79.45	178.3	1,375.6	2,570.5	2,495.4	75.13	34.216		
12,750.0	12,665.1	11,650.0	11,418.1	47.0	43.6	99.35	178.3	1,375.6	2,588.8	2,514.1	74.77	34.624		
12,800.0	12,714.8	11,666.8	11,423.4	47.2	43.6	96.08	194.2	1,375.4	2,613.9	2,539.4	74.44	35.114		
12,850.0	12,763.8	11,673.6	11,425.4	47.4	43.6	92.88	200.8	1,375.4	2,640.1	2,566.0	74.03	35.660		
12,900.0	12,811.8	11,681.1	11,427.5	47.5	43.6	89.52	208.0	1,375.3	2,667.0	2,593.4	73.65	36.214		
12,950.0	12,858.3	11,700.0	11,432.5	47.7	43.6	85.89	226.2	1,375.2	2,694.6	2,621.2	73.36	36.733		
13,000.0	12,903.1	11,700.0	11,432.5	47.8	43.6	82.58	226.2	1,375.2	2,722.3	2,649.4	72.95	37.320		
13,050.0	12,945.8	11,700.0	11,432.5	48.0	43.6	79.26	226.2	1,375.2	2,750.2	2,677.7	72.56	37.901		
13,100.0	12,986.1	11,700.0	11,432.5	48.1	43.6	75.98	226.2	1,375.2	2,778.1	2,705.9	72.21	38.470		
13,150.0	13,023.7	11,726.7	11,438.4	48.3	43.7	72.55	252.2	1,375.0	2,805.2	2,733.1	72.08	38.918		
13,200.0	13,058.2	11,750.0	11,442.6	48.4	43.7	69.38	275.1	1,374.8	2,832.0	2,760.1	71.95	39.361		
13,250.0	13,089.4	11,750.0	11,442.6	48.5	43.7	66.60	275.1	1,374.8	2,857.8	2,786.1	71.72	39.848		
13,300.0	13,117.2	11,750.0	11,442.6	48.7	43.7	63.98	275.1	1,374.8	2,882.7	2,811.2	71.53	40.299		
13,350.0	13,141.1	11,769.4	11,445.4	48.8	43.7	61.53	294.3	1,374.7	2,906.4	2,834.9	71.51	40.645		
13,400.0	13,161.2	11,780.6	11,446.7	48.9	43.7	59.34	305.4	1,374.6	2,928.7	2,857.3	71.48	40.971		
13,450.0	13,177.2	11,800.0	11,448.4	49.1	43.8	57.40	324.8	1,374.4	2,949.7	2,878.1	71.55	41.227		
13,500.0	13,189.1	11,800.0	11,448.4	49.2	43.8	55.66	324.8	1,374.4	2,968.9	2,897.3	71.58	41.477		
13,550.0	13,196.6	11,800.0	11,448.4	49.4	43.8	54.11	324.8	1,374.4	2,986.6	2,914.9	71.67	41.669		
13,600.0	13,199.8	11,826.2	11,449.7	49.6	43.8	52.88	350.9	1,374.2	3,002.1	2,930.2	71.92	41.744		
13,611.9	13,200.0	11,841.9	11,450.0	49.6	43.8	52.67	366.7	1,374.1	3,005.7	2,933.7	72.01	41.740		
13,700.0	13,200.0	11,871.6	11,450.0	50.0	43.9	53.10	396.3	1,373.8	3,030.5	2,958.1	72.44	41.833		
13,800.0	13,200.0	11,966.3	11,450.0	50.4	44.1	53.78	491.0	1,373.1	3,056.8	2,983.6	73.17	41.777		
13,900.0	13,200.0	12,062.1	11,450.0	50.9	44.4	54.38	586.8	1,372.3	3,080.5	3,006.5	73.97	41.645		
14,000.0	13,200.0	12,158.8	11,450.0	51.4	44.7	54.89	683.5	1,371.6	3,101.4	3,026.6	74.85	41.437		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	12,256.3	11,450.0	52.0	45.2	55.34	781.0	1,370.8	3,119.6	3,043.8	75.80	41.156		
14,200.0	13,200.0	12,354.6	11,450.0	52.6	45.7	55.71	879.3	1,370.0	3,135.1	3,058.3	76.82	40.808		
14,300.0	13,200.0	12,453.4	11,450.0	53.2	46.3	56.00	978.1	1,369.2	3,147.7	3,069.8	77.92	40.398		
14,400.0	13,200.0	12,552.7	11,450.0	53.8	46.9	56.23	1,077.4	1,368.4	3,157.4	3,078.4	79.07	39.931		
14,500.0	13,200.0	12,652.3	11,450.0	54.5	47.6	56.39	1,177.0	1,367.6	3,164.3	3,084.0	80.29	39.413		
14,600.0	13,200.0	12,752.2	11,450.0	55.1	48.3	56.48	1,276.9	1,366.8	3,168.3	3,086.7	81.55	38.850		
14,687.2	13,200.0	12,839.5	11,450.0	55.7	49.0	56.51	1,364.2	1,366.2	3,169.4	3,086.7	82.69	38.328		
14,700.0	13,200.0	12,852.2	11,450.0	55.8	49.1	56.51	1,376.9	1,366.0	3,169.4	3,086.5	82.86	38.249		
14,800.0	13,200.0	12,952.2	11,450.0	56.5	49.9	56.51	1,476.9	1,365.3	3,169.4	3,085.1	84.24	37.624		
14,900.0	13,200.0	13,052.2	11,450.0	57.3	50.8	56.51	1,576.9	1,364.5	3,169.3	3,083.7	85.69	36.987		
15,000.0	13,200.0	13,152.2	11,450.0	58.1	51.7	56.51	1,676.9	1,363.7	3,169.3	3,082.1	87.21	36.340		
15,100.0	13,200.0	13,252.2	11,450.0	58.9	52.7	56.51	1,776.9	1,362.9	3,169.3	3,080.5	88.80	35.689		
15,200.0	13,200.0	13,352.2	11,450.0	59.7	53.6	56.51	1,876.9	1,362.1	3,169.3	3,078.8	90.46	35.035		
15,300.0	13,200.0	13,452.2	11,450.0	60.6	54.6	56.51	1,976.9	1,361.3	3,169.3	3,077.1	92.18	34.381		
15,400.0	13,200.0	13,552.2	11,450.0	61.6	55.7	56.50	2,076.9	1,360.5	3,169.3	3,075.3	93.96	33.731		
15,500.0	13,200.0	13,652.2	11,450.0	62.5	56.8	56.50	2,176.9	1,359.7	3,169.2	3,073.4	95.79	33.086		
15,600.0	13,200.0	13,752.2	11,450.0	63.5	57.9	56.50	2,276.9	1,358.9	3,169.2	3,071.5	97.67	32.448		
15,700.0	13,200.0	13,852.2	11,450.0	64.5	59.0	56.50	2,376.9	1,358.1	3,169.2	3,069.6	99.60	31.819		
15,800.0	13,200.0	13,952.2	11,450.0	65.5	60.1	56.50	2,476.9	1,357.3	3,169.2	3,067.6	101.58	31.200		
15,900.0	13,200.0	14,052.2	11,450.0	66.6	61.3	56.50	2,576.9	1,356.5	3,169.2	3,065.6	103.60	30.591		
16,000.0	13,200.0	14,152.2	11,450.0	67.7	62.5	56.50	2,676.9	1,355.7	3,169.1	3,063.5	105.66	29.994		
16,100.0	13,200.0	14,252.2	11,450.0	68.8	63.7	56.50	2,776.9	1,354.9	3,169.1	3,061.4	107.76	29.410		
16,200.0	13,200.0	14,352.2	11,450.0	69.9	65.0	56.50	2,876.9	1,354.1	3,169.1	3,059.2	109.89	28.838		
16,300.0	13,200.0	14,452.2	11,450.0	71.1	66.2	56.50	2,976.9	1,353.3	3,169.1	3,057.0	112.06	28.280		
16,400.0	13,200.0	14,552.2	11,450.0	72.3	67.5	56.50	3,076.9	1,352.5	3,169.1	3,054.8	114.26	27.735		
16,500.0	13,200.0	14,652.2	11,450.0	73.5	68.8	56.50	3,176.9	1,351.7	3,169.0	3,052.6	116.50	27.203		
16,600.0	13,200.0	14,752.2	11,450.0	74.7	70.1	56.50	3,276.9	1,351.0	3,169.0	3,050.3	118.76	26.685		
16,700.0	13,200.0	14,852.2	11,450.0	75.9	71.4	56.50	3,376.8	1,350.2	3,169.0	3,048.0	121.04	26.181		
16,800.0	13,200.0	14,952.2	11,450.0	77.1	72.7	56.50	3,476.8	1,349.4	3,169.0	3,045.6	123.36	25.690		
16,900.0	13,200.0	15,052.2	11,450.0	78.4	74.1	56.50	3,576.8	1,348.6	3,169.0	3,043.3	125.69	25.212		
17,000.0	13,200.0	15,152.2	11,450.0	79.7	75.4	56.50	3,676.8	1,347.8	3,169.0	3,040.9	128.06	24.747		
17,100.0	13,200.0	15,252.2	11,450.0	81.0	76.8	56.50	3,776.8	1,347.0	3,168.9	3,038.5	130.44	24.295		
17,200.0	13,200.0	15,352.2	11,450.0	82.3	78.2	56.50	3,876.8	1,346.2	3,168.9	3,036.1	132.84	23.855		
17,300.0	13,200.0	15,452.2	11,450.0	83.6	79.5	56.50	3,976.8	1,345.4	3,168.9	3,033.6	135.26	23.428		
17,400.0	13,200.0	15,552.2	11,450.0	84.9	80.9	56.50	4,076.8	1,344.6	3,168.9	3,031.2	137.70	23.013		
17,500.0	13,200.0	15,652.2	11,450.0	86.3	82.4	56.50	4,176.8	1,343.8	3,168.9	3,028.7	140.16	22.609		
17,600.0	13,200.0	15,752.2	11,450.0	87.6	83.8	56.50	4,276.8	1,343.0	3,168.8	3,026.2	142.63	22.217		
17,700.0	13,200.0	15,852.2	11,450.0	89.0	85.2	56.50	4,376.8	1,342.2	3,168.8	3,023.7	145.12	21.836		
17,800.0	13,200.0	15,952.2	11,450.0	90.3	86.6	56.50	4,476.8	1,341.4	3,168.8	3,021.2	147.63	21.465		
17,900.0	13,200.0	16,052.2	11,450.0	91.7	88.1	56.50	4,576.8	1,340.6	3,168.8	3,018.6	150.14	21.105		
18,000.0	13,200.0	16,152.2	11,450.0	93.1	89.5	56.50	4,676.8	1,339.8	3,168.8	3,016.1	152.68	20.755		
18,100.0	13,200.0	16,252.2	11,450.0	94.5	91.0	56.50	4,776.8	1,339.0	3,168.8	3,013.5	155.22	20.415		
18,200.0	13,200.0	16,352.2	11,450.0	95.9	92.5	56.50	4,876.8	1,338.2	3,168.7	3,011.0	157.78	20.084		
18,300.0	13,200.0	16,452.2	11,450.0	97.3	93.9	56.50	4,976.8	1,337.4	3,168.7	3,008.4	160.35	19.762		
18,400.0	13,200.0	16,552.2	11,450.0	98.7	95.4	56.50	5,076.8	1,336.6	3,168.7	3,005.8	162.92	19.449		
18,500.0	13,200.0	16,652.2	11,450.0	100.2	96.9	56.50	5,176.8	1,335.9	3,168.7	3,003.2	165.51	19.144		
18,600.0	13,200.0	16,752.2	11,450.0	101.6	98.4	56.50	5,276.8	1,335.1	3,168.7	3,000.5	168.11	18.848		
18,700.0	13,200.0	16,852.2	11,450.0	103.0	99.9	56.50	5,376.8	1,334.3	3,168.6	2,997.9	170.72	18.560		
18,800.0	13,200.0	16,952.2	11,450.0	104.5	101.4	56.50	5,476.8	1,333.5	3,168.6	2,995.3	173.34	18.280		
18,900.0	13,200.0	17,052.2	11,450.0	105.9	102.9	56.50	5,576.8	1,332.7	3,168.6	2,992.6	175.97	18.007		
19,000.0	13,200.0	17,152.2	11,450.0	107.4	104.4	56.50	5,676.8	1,331.9	3,168.6	2,990.0	178.60	17.741		
19,100.0	13,200.0	17,252.2	11,450.0	108.9	105.9	56.50	5,776.8	1,331.1	3,168.6	2,987.3	181.25	17.482		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	13,200.0	17,352.2	11,450.0	110.3	107.4	56.50	5,876.8	1,330.3	3,168.5	2,984.7	183.90	17.230		
19,300.0	13,200.0	17,452.2	11,450.0	111.8	108.9	56.50	5,976.8	1,329.5	3,168.5	2,982.0	186.56	16.984		
19,400.0	13,200.0	17,552.2	11,450.0	113.3	110.4	56.50	6,076.8	1,328.7	3,168.5	2,979.3	189.22	16.745		
19,500.0	13,200.0	17,652.2	11,450.0	114.8	112.0	56.50	6,176.8	1,327.9	3,168.5	2,976.6	191.90	16.512		
19,600.0	13,200.0	17,752.2	11,450.0	116.3	113.5	56.50	6,276.8	1,327.1	3,168.5	2,973.9	194.57	16.284		
19,700.0	13,200.0	17,852.2	11,450.0	117.8	115.0	56.50	6,376.8	1,326.3	3,168.5	2,971.2	197.26	16.062		
19,800.0	13,200.0	17,952.2	11,450.0	119.3	116.6	56.50	6,476.7	1,325.5	3,168.4	2,968.5	199.95	15.846		
19,900.0	13,200.0	18,052.2	11,450.0	120.8	118.1	56.49	6,576.7	1,324.7	3,168.4	2,965.8	202.65	15.635		
20,000.0	13,200.0	18,152.2	11,450.0	122.3	119.7	56.49	6,676.7	1,323.9	3,168.4	2,963.1	205.35	15.429		
20,100.0	13,200.0	18,252.2	11,450.0	123.8	121.2	56.49	6,776.7	1,323.1	3,168.4	2,960.3	208.05	15.229		
20,200.0	13,200.0	18,352.2	11,450.0	125.3	122.8	56.49	6,876.7	1,322.3	3,168.4	2,957.6	210.77	15.033		
20,300.0	13,200.0	18,452.2	11,450.0	126.8	124.3	56.49	6,976.7	1,321.5	3,168.3	2,954.9	213.48	14.841		
20,400.0	13,200.0	18,552.2	11,450.0	128.4	125.9	56.49	7,076.7	1,320.8	3,168.3	2,952.1	216.21	14.654		
20,500.0	13,200.0	18,652.2	11,450.0	129.9	127.4	56.49	7,176.7	1,320.0	3,168.3	2,949.4	218.93	14.472		
20,600.0	13,200.0	18,752.2	11,450.0	131.4	129.0	56.49	7,276.7	1,319.2	3,168.3	2,946.6	221.66	14.293		
20,700.0	13,200.0	18,852.2	11,450.0	132.9	130.5	56.49	7,376.7	1,318.4	3,168.3	2,943.9	224.40	14.119		
20,800.0	13,200.0	18,952.2	11,450.0	134.5	132.1	56.49	7,476.7	1,317.6	3,168.3	2,941.1	227.14	13.949		
20,900.0	13,200.0	19,052.2	11,450.0	136.0	133.7	56.49	7,576.7	1,316.8	3,168.2	2,938.4	229.88	13.782		
21,000.0	13,200.0	19,152.2	11,450.0	137.6	135.3	56.49	7,676.7	1,316.0	3,168.2	2,935.6	232.62	13.619		
21,100.0	13,200.0	19,252.2	11,450.0	139.1	136.8	56.49	7,776.7	1,315.2	3,168.2	2,932.8	235.37	13.460		
21,200.0	13,200.0	19,352.2	11,450.0	140.7	138.4	56.49	7,876.7	1,314.4	3,168.2	2,930.1	238.13	13.305		
21,300.0	13,200.0	19,452.2	11,450.0	142.2	140.0	56.49	7,976.7	1,313.6	3,168.2	2,927.3	240.88	13.152		
21,400.0	13,200.0	19,552.2	11,450.0	143.8	141.6	56.49	8,076.7	1,312.8	3,168.1	2,924.5	243.64	13.003		
21,500.0	13,200.0	19,652.2	11,450.0	145.3	143.1	56.49	8,176.7	1,312.0	3,168.1	2,921.7	246.41	12.857		
21,600.0	13,200.0	19,752.2	11,450.0	146.9	144.7	56.49	8,276.7	1,311.2	3,168.1	2,918.9	249.17	12.714		
21,700.0	13,200.0	19,852.2	11,450.0	148.4	146.3	56.49	8,376.7	1,310.4	3,168.1	2,916.1	251.94	12.575		
21,800.0	13,200.0	19,952.2	11,450.0	150.0	147.9	56.49	8,476.7	1,309.6	3,168.1	2,913.4	254.71	12.438		
21,900.0	13,200.0	20,052.2	11,450.0	151.5	149.5	56.49	8,576.7	1,308.8	3,168.0	2,910.6	257.49	12.304		
22,000.0	13,200.0	20,152.2	11,450.0	153.1	151.1	56.49	8,676.7	1,308.0	3,168.0	2,907.8	260.27	12.172		
22,100.0	13,200.0	20,252.2	11,450.0	154.7	152.6	56.49	8,776.7	1,307.2	3,168.0	2,905.0	263.05	12.044		
22,200.0	13,200.0	20,352.2	11,450.0	156.2	154.2	56.49	8,876.7	1,306.5	3,168.0	2,902.2	265.83	11.917		
22,300.0	13,200.0	20,452.2	11,450.0	157.8	155.8	56.49	8,976.7	1,305.7	3,168.0	2,899.4	268.61	11.794		
22,400.0	13,200.0	20,552.2	11,450.0	159.4	157.4	56.49	9,076.7	1,304.9	3,168.0	2,896.6	271.40	11.673		
22,500.0	13,200.0	20,652.2	11,450.0	161.0	159.0	56.49	9,176.7	1,304.1	3,167.9	2,893.7	274.19	11.554		
22,600.0	13,200.0	20,752.2	11,450.0	162.5	160.6	56.49	9,276.7	1,303.3	3,167.9	2,890.9	276.98	11.437		
22,700.0	13,200.0	20,852.2	11,450.0	164.1	162.2	56.49	9,376.7	1,302.5	3,167.9	2,888.1	279.78	11.323		
22,800.0	13,200.0	20,952.2	11,450.0	165.7	163.8	56.49	9,476.7	1,301.7	3,167.9	2,885.3	282.57	11.211		
22,900.0	13,200.0	21,052.2	11,450.0	167.3	165.4	56.49	9,576.7	1,300.9	3,167.9	2,882.5	285.37	11.101		
23,000.0	13,200.0	21,152.2	11,450.0	168.9	167.0	56.49	9,676.6	1,300.1	3,167.8	2,879.7	288.17	10.993		
23,100.0	13,200.0	21,252.2	11,450.0	170.4	168.6	56.49	9,776.6	1,299.3	3,167.8	2,876.9	290.97	10.887		
23,200.0	13,200.0	21,352.2	11,450.0	172.0	170.2	56.49	9,876.6	1,298.5	3,167.8	2,874.0	293.78	10.783		
23,300.0	13,200.0	21,452.2	11,450.0	173.6	171.8	56.49	9,976.6	1,297.7	3,167.8	2,871.2	296.58	10.681		
23,400.0	13,200.0	21,552.2	11,450.0	175.2	173.4	56.49	10,076.6	1,296.9	3,167.8	2,868.4	299.39	10.581		
23,504.9	13,200.0	21,657.1	11,450.0	176.9	175.1	56.49	10,181.5	1,296.1	3,167.8	2,865.4	302.33	10.478 SF		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.35	27.6	2,423.1	2,423.3					
100.0	100.0	100.0	100.0	0.1	0.1	89.35	27.6	2,423.1	2,423.3	2,423.0	0.26	9,454.475		
200.0	200.0	200.0	200.0	0.5	0.5	89.35	27.6	2,423.1	2,423.3	2,422.3	0.97	2,489.855		
300.0	300.0	300.0	300.0	0.8	0.8	89.35	27.6	2,423.1	2,423.3	2,421.6	1.69	1,433.713		
400.0	400.0	400.0	400.0	1.2	1.2	89.35	27.6	2,423.1	2,423.3	2,420.8	2.41	1,006.695		
500.0	500.0	500.0	500.0	1.6	1.6	89.35	27.6	2,423.1	2,423.3	2,420.1	3.12	775.669		
600.0	600.0	600.0	600.0	1.9	1.9	89.35	27.6	2,423.1	2,423.3	2,419.4	3.84	630.887		
700.0	700.0	700.0	700.0	2.3	2.3	89.35	27.6	2,423.1	2,423.3	2,418.7	4.56	531.652		
800.0	800.0	800.0	800.0	2.6	2.6	89.35	27.6	2,423.1	2,423.3	2,418.0	5.27	459.392		
900.0	900.0	900.0	900.0	3.0	3.0	89.35	27.6	2,423.1	2,423.3	2,417.3	5.99	404.425		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.35	27.6	2,423.1	2,423.3	2,416.5	6.71	361.205		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.35	27.6	2,423.1	2,423.3	2,415.8	7.43	326.332		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.35	27.6	2,423.1	2,423.3	2,415.1	8.14	297.599		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.35	27.6	2,423.1	2,423.3	2,414.4	8.86	273.516		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.35	27.6	2,423.1	2,423.3	2,413.7	9.58	253.040		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.35	27.6	2,423.1	2,423.3	2,413.0	10.29	235.416		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	89.35	27.6	2,423.1	2,423.3	2,412.2	11.01	220.087		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	89.35	27.6	2,423.1	2,423.3	2,411.5	11.73	206.632		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	89.35	27.6	2,423.1	2,423.3	2,410.8	12.44	194.727		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	89.35	27.6	2,423.1	2,423.3	2,410.1	13.16	184.120		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	89.35	27.6	2,423.1	2,423.3	2,409.4	13.88	174.608		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	89.35	27.6	2,423.1	2,423.3	2,408.7	14.60	166.031		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	89.35	27.6	2,423.1	2,423.3	2,407.9	15.31	158.257		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	89.35	27.6	2,423.1	2,423.3	2,407.2	16.03	151.179		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	89.35	27.6	2,423.1	2,423.3	2,406.5	16.75	144.706		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.35	27.6	2,423.1	2,423.3	2,405.8	17.46	138.765 CC		
2,600.0	2,600.0	2,573.0	2,573.0	9.1	9.0	89.35	27.3	2,423.5	2,423.8	2,405.7	18.07	134.119 ES		
2,700.0	2,700.0	2,645.9	2,645.9	9.4	9.2	89.37	26.7	2,424.7	2,425.5	2,406.8	18.67	129.889		
2,800.0	2,800.0	2,718.8	2,718.7	9.8	9.5	89.40	25.6	2,426.8	2,428.3	2,409.0	19.27	126.018		
2,900.0	2,900.0	2,791.6	2,791.5	10.2	9.7	89.43	24.1	2,429.6	2,432.2	2,412.3	19.86	122.446		
3,000.0	3,000.0	2,864.3	2,864.1	10.5	10.0	89.48	22.1	2,433.3	2,437.2	2,416.7	20.46	119.148		
3,100.0	3,100.0	2,936.9	2,936.5	10.9	10.2	89.54	19.7	2,437.8	2,443.3	2,422.3	21.04	116.102		
3,200.0	3,200.0	3,009.4	3,008.7	11.2	10.5	89.60	16.9	2,443.0	2,450.6	2,428.9	21.63	113.288		
3,300.0	3,300.0	3,081.7	3,080.7	11.6	10.7	89.68	13.6	2,449.1	2,458.9	2,436.7	22.22	110.686		
3,400.0	3,400.0	3,153.8	3,152.4	12.0	11.0	89.77	10.0	2,455.9	2,468.4	2,445.6	22.80	108.280		
3,500.0	3,500.0	3,225.7	3,223.8	12.3	11.2	89.86	5.9	2,463.6	2,479.0	2,455.6	23.37	106.056		
3,600.0	3,600.0	3,303.6	3,293.9	12.7	11.5	89.97	1.5	2,471.8	2,490.7	2,466.7	23.97	103.914		
3,700.0	3,700.0	3,404.5	3,391.9	13.0	11.9	90.12	-5.0	2,484.0	2,503.0	2,478.3	24.67	101.440		
3,800.0	3,800.0	3,494.5	3,490.0	13.4	12.2	90.27	-11.5	2,496.1	2,515.3	2,490.0	25.34	99.246		
3,900.0	3,900.0	3,593.5	3,588.1	13.8	12.5	90.41	-18.1	2,508.3	2,527.6	2,501.6	26.05	97.041		
4,000.0	4,000.0	3,692.5	3,686.1	14.1	12.9	90.56	-24.6	2,520.4	2,540.0	2,513.2	26.75	94.945		
4,100.0	4,100.0	3,791.6	3,784.2	14.5	13.3	90.70	-31.1	2,532.6	2,552.4	2,524.9	27.46	92.952		
4,200.0	4,200.0	3,909.4	3,882.2	14.8	13.7	90.85	-37.6	2,544.7	2,564.7	2,536.5	28.23	90.838		
4,300.0	4,300.0	3,989.6	3,980.3	15.2	14.0	90.99	-44.1	2,556.9	2,577.1	2,548.3	28.88	89.247		
4,400.0	4,400.0	4,088.6	4,078.4	15.5	14.4	91.13	-50.6	2,569.0	2,589.6	2,560.0	29.59	87.523		
4,500.0	4,500.0	4,187.7	4,176.4	15.9	14.8	91.27	-57.1	2,581.2	2,602.0	2,571.7	30.30	85.876		
4,600.0	4,600.0	4,286.7	4,274.5	16.3	15.2	91.40	-63.6	2,593.3	2,614.4	2,583.4	31.01	84.303		
4,700.0	4,700.0	4,385.7	4,372.6	16.6	15.6	91.54	-70.1	2,605.5	2,626.9	2,595.2	31.73	82.798		
4,800.0	4,800.0	4,484.7	4,470.6	17.0	16.0	91.68	-76.6	2,617.6	2,639.4	2,606.9	32.44	81.358		
4,900.0	4,900.0	4,583.8	4,568.7	17.3	16.3	91.81	-83.1	2,629.7	2,651.8	2,618.7	33.16	79.979		
5,000.0	5,000.0	4,682.8	4,666.7	17.7	16.7	91.94	-89.6	2,641.9	2,664.3	2,630.5	33.87	78.656		
5,100.0	5,100.0	4,781.8	4,764.8	18.1	17.1	92.07	-96.1	2,654.0	2,676.9	2,642.3	34.59	77.387		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	4,880.9	4,862.9	18.4	17.5	92.20	-102.6	2,666.2	2,689.4	2,654.1	35.31	76.168		
5,300.0	5,300.0	4,979.9	4,960.9	18.8	17.9	92.33	-109.2	2,678.3	2,701.9	2,665.9	36.03	74.998		
5,400.0	5,400.0	5,078.9	5,059.0	19.1	18.3	92.46	-115.7	2,690.5	2,714.5	2,677.7	36.75	73.872		
5,500.0	5,500.0	5,177.9	5,157.1	19.5	18.7	92.59	-122.2	2,702.6	2,727.1	2,689.6	37.47	72.789		
5,600.0	5,600.0	5,277.0	5,255.1	19.8	19.1	92.71	-128.7	2,714.8	2,739.6	2,701.4	38.19	71.746		
5,700.0	5,700.0	5,376.0	5,353.2	20.2	19.5	92.84	-135.2	2,726.9	2,752.2	2,713.3	38.91	70.741		
5,800.0	5,800.0	5,475.0	5,451.3	20.6	19.9	92.96	-141.7	2,739.1	2,764.8	2,725.2	39.63	69.772		
5,900.0	5,900.0	5,574.0	5,549.3	20.9	20.3	93.08	-148.2	2,751.2	2,777.5	2,737.1	40.35	68.838		
6,000.0	6,000.0	5,673.0	5,644.0	21.3	21.1	93.30	-155.8	2,772.9	2,789.2	2,747.7	41.53	67.154		
6,100.0	6,100.0	5,772.0	5,743.0	21.6	22.2	93.46	-163.5	2,789.2	2,794.9	2,751.9	43.03	64.952		
6,200.0	6,200.0	5,871.0	5,842.0	22.0	22.7	93.47	-169.0	2,790.1	2,795.2	2,751.3	43.92	63.640		
6,300.0	6,300.0	5,970.0	5,941.0	22.4	23.0	93.47	-169.0	2,790.1	2,795.2	2,750.6	44.62	62.640		
6,400.0	6,400.0	6,069.0	6,040.0	22.7	23.4	93.47	-169.0	2,790.1	2,795.2	2,749.9	45.32	61.671		
6,500.0	6,500.0	6,168.0	6,139.0	23.1	23.7	93.47	-169.0	2,790.1	2,795.2	2,749.2	46.03	60.730		
6,600.0	6,600.0	6,267.0	6,238.0	23.4	24.0	93.47	-169.0	2,790.1	2,795.2	2,748.5	46.73	59.818		
6,700.0	6,700.0	6,366.0	6,337.0	23.8	24.4	93.47	-169.0	2,790.1	2,795.2	2,747.8	47.43	58.932		
6,800.0	6,800.0	6,465.0	6,436.0	24.1	24.7	93.47	-169.0	2,790.1	2,795.2	2,747.1	48.13	58.071		
6,900.0	6,900.0	6,564.0	6,535.0	24.5	25.1	93.47	-169.0	2,790.1	2,795.2	2,746.4	48.84	57.234		
7,000.0	7,000.0	6,663.0	6,634.0	24.9	25.4	93.47	-169.0	2,790.1	2,795.2	2,745.7	49.54	56.421		
7,100.0	7,100.0	6,762.0	6,733.0	25.2	25.7	-161.05	-169.0	2,790.1	2,796.0	2,745.8	50.23	55.660		
7,200.0	7,200.0	6,861.0	6,832.0	25.5	26.1	-161.06	-169.0	2,790.1	2,798.5	2,747.6	50.92	54.963		
7,300.0	7,299.9	6,960.0	6,931.0	25.9	26.4	-161.07	-169.0	2,790.1	2,802.6	2,751.0	51.60	54.317		
7,400.0	7,399.7	7,059.0	7,030.0	26.2	26.8	-161.09	-169.0	2,790.1	2,808.4	2,756.1	52.28	53.718		
7,500.0	7,499.4	7,158.0	7,129.0	26.6	27.1	-161.12	-169.0	2,790.1	2,815.8	2,762.9	52.96	53.166		
7,600.0	7,598.9	7,257.0	7,228.0	26.9	27.4	-161.15	-169.0	2,790.1	2,824.9	2,771.3	53.65	52.659		
7,700.0	7,698.3	7,356.0	7,327.0	27.2	27.8	-161.19	-169.0	2,790.1	2,835.6	2,781.3	54.33	52.195		
7,800.0	7,797.4	7,455.0	7,426.0	27.6	28.1	-161.24	-169.0	2,790.1	2,848.0	2,793.0	55.01	51.774		
7,900.0	7,896.3	7,554.0	7,525.0	27.9	28.4	-161.29	-169.0	2,790.1	2,862.0	2,806.3	55.69	51.392		
8,000.0	7,994.9	7,653.0	7,624.0	28.3	28.8	-161.34	-169.0	2,790.1	2,877.7	2,821.3	56.37	51.050		
8,100.0	8,093.3	7,752.0	7,723.0	28.6	29.1	-161.40	-169.0	2,790.1	2,895.0	2,837.9	57.05	50.746		
8,182.6	8,174.2	7,851.0	7,822.0	28.9	29.4	-161.45	-169.0	2,790.1	2,910.5	2,852.9	57.61	50.522		
8,200.0	8,191.3	7,950.0	7,921.0	29.0	29.5	-161.48	-169.0	2,790.1	2,913.9	2,856.2	57.73	50.477		
8,300.0	8,289.1	8,049.0	8,020.0	29.4	29.8	-161.60	-169.0	2,790.1	2,933.4	2,875.0	58.40	50.225		
8,400.0	8,387.0	8,148.0	8,119.0	29.7	30.1	-161.73	-169.0	2,790.1	2,952.9	2,893.8	59.08	49.977		
8,500.0	8,484.9	8,247.0	8,218.0	30.1	30.5	-161.85	-169.0	2,790.1	2,972.4	2,912.6	59.77	49.734		
8,600.0	8,582.8	8,346.0	8,317.0	30.5	30.8	-161.97	-169.0	2,790.1	2,991.9	2,931.4	60.45	49.495		
8,700.0	8,680.6	8,445.0	8,416.0	30.9	31.1	-162.09	-169.0	2,790.1	3,011.4	2,950.3	61.13	49.261		
8,800.0	8,778.5	8,544.0	8,515.0	31.2	31.5	-162.21	-169.0	2,790.1	3,031.0	2,969.2	61.82	49.031		
8,900.0	8,876.4	8,643.0	8,614.0	31.6	31.8	-162.33	-169.0	2,790.1	3,050.5	2,988.0	62.50	48.805		
9,000.0	8,974.3	8,742.0	8,713.0	32.0	32.2	-162.45	-169.0	2,790.1	3,070.1	3,006.9	63.19	48.583		
9,100.0	9,072.1	8,841.0	8,812.0	32.4	32.5	-162.56	-169.0	2,790.1	3,089.7	3,025.8	63.89	48.361		
9,200.0	9,170.0	8,940.0	8,911.0	32.8	32.9	-162.67	-169.0	2,790.1	3,109.3	3,044.7	64.59	48.136		
9,300.0	9,267.9	9,039.0	9,010.0	33.2	33.2	-162.78	-169.0	2,790.1	3,128.9	3,063.6	65.30	47.916		
9,400.0	9,365.8	9,138.0	9,109.0	33.6	33.6	-162.89	-169.0	2,790.1	3,148.5	3,082.5	66.01	47.699		
9,500.0	9,463.7	9,237.0	9,208.0	34.0	33.9	-163.00	-169.0	2,790.1	3,168.1	3,101.4	66.72	47.487		
9,600.0	9,561.5	9,336.0	9,307.0	34.4	34.2	-163.11	-169.0	2,790.1	3,187.8	3,120.4	67.34	47.335		
9,700.0	9,659.4	9,435.0	9,406.0	34.8	34.5	-163.22	-169.0	2,790.1	3,207.4	3,139.4	68.04	47.140		
9,800.0	9,757.3	9,534.0	9,505.0	35.2	34.9	-163.32	-169.0	2,790.1	3,227.1	3,158.3	68.74	46.948		
9,900.0	9,855.2	9,633.0	9,604.0	35.6	35.2	-163.43	-169.0	2,790.1	3,246.7	3,177.3	69.43	46.760		
10,000.0	9,953.0	9,732.0	9,703.0	36.0	35.6	-163.53	-169.0	2,790.1	3,266.4	3,196.3	70.13	46.575		
10,100.0	10,050.9	9,831.0	9,802.0	36.4	35.9	-163.63	-169.0	2,790.1	3,286.1	3,215.3	70.83	46.393		
10,200.0	10,148.8	9,930.0	9,901.0	36.9	36.2	-163.73	-169.0	2,790.1	3,305.8	3,234.3	71.53	46.214		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,273.6	10,246.7	37.3	36.6	-163.83	-169.0	2,790.1	3,325.5	3,253.3	72.23	46.039		
10,400.0	10,344.6	10,371.5	10,344.6	37.7	36.9	-163.93	-169.0	2,790.1	3,345.2	3,272.3	72.93	45.866		
10,500.0	10,442.4	10,469.4	10,442.4	38.1	37.3	-164.02	-169.0	2,790.1	3,365.0	3,291.3	73.64	45.697		
10,600.0	10,540.3	10,567.3	10,540.3	38.5	37.6	-164.12	-169.0	2,790.1	3,384.7	3,310.4	74.34	45.530		
10,700.0	10,638.2	10,665.1	10,638.2	39.0	38.0	-164.21	-169.0	2,790.1	3,404.5	3,329.4	75.04	45.366		
10,800.0	10,736.1	10,763.0	10,736.1	39.4	38.3	-164.30	-169.0	2,790.1	3,424.2	3,348.5	75.75	45.205		
10,900.0	10,833.9	10,860.9	10,833.9	39.8	38.6	-164.40	-169.0	2,790.1	3,444.0	3,367.5	76.45	45.047		
11,000.0	10,931.8	11,148.8	11,114.4	40.2	39.6	-165.51	-118.0	2,783.1	3,462.2	3,384.5	77.69	44.567		
11,100.0	11,029.7	11,100.0	11,305.7	40.7	39.6	-168.01	22.6	2,763.9	3,474.9	3,397.0	77.87	44.625		
11,200.0	11,127.6	11,537.2	11,389.0	41.1	40.2	-170.09	143.8	2,747.3	3,487.0	3,407.7	79.27	43.990		
11,300.0	11,225.5	11,601.3	11,414.5	41.5	40.3	-171.08	202.1	2,739.3	3,500.8	3,420.9	79.85	43.843		
11,400.0	11,323.3	11,639.9	11,426.6	42.0	40.3	-171.69	238.4	2,734.3	3,516.9	3,436.6	80.35	43.772		
11,500.0	11,421.2	11,665.5	11,433.3	42.4	40.4	-172.10	262.8	2,730.9	3,535.6	3,454.9	80.77	43.772		
11,523.5	11,444.2	11,670.3	11,434.4	42.5	40.4	-172.18	267.4	2,730.3	3,540.4	3,459.5	80.86	43.782		
11,600.0	11,519.2	11,683.7	11,437.4	42.8	40.4	-172.43	280.4	2,728.5	3,556.2	3,475.0	81.13	43.831		
11,700.0	11,617.7	11,697.6	11,440.1	43.3	40.5	-172.69	293.9	2,726.7	3,576.8	3,495.4	81.43	43.923		
11,800.0	11,716.7	11,708.6	11,442.0	43.7	40.5	-172.91	304.6	2,725.2	3,597.6	3,515.9	81.68	44.047		
11,900.0	11,815.9	11,717.6	11,443.5	44.1	40.5	-173.09	313.4	2,724.0	3,618.4	3,536.5	81.86	44.202		
12,000.0	11,915.5	11,725.0	11,444.5	44.4	40.5	-173.25	320.7	2,723.0	3,639.3	3,557.3	81.99	44.386		
12,100.0	12,015.2	11,731.4	11,445.4	44.8	40.6	-173.39	327.0	2,722.2	3,660.3	3,578.2	82.07	44.599		
12,200.0	12,115.1	11,737.0	11,446.0	45.2	40.6	-173.51	332.4	2,721.4	3,681.3	3,599.2	82.10	44.840		
12,300.0	12,215.1	11,750.0	11,447.4	45.5	40.6	-173.76	345.3	2,719.7	3,702.3	3,620.2	82.10	45.096		
12,311.9	12,227.0	11,750.0	11,447.4	45.5	40.6	80.75	345.3	2,719.7	3,704.8	3,622.7	82.09	45.131		
12,400.0	12,315.1	11,750.0	11,447.4	45.8	40.6	80.75	345.3	2,719.7	3,724.4	3,642.4	82.02	45.408		
12,500.0	12,415.1	11,750.0	11,447.4	46.2	40.6	80.75	345.3	2,719.7	3,748.9	3,667.0	81.90	45.773		
12,600.0	12,515.1	11,750.0	11,447.4	46.5	40.6	80.75	345.3	2,719.7	3,776.0	3,694.2	81.75	46.191		
12,700.0	12,615.1	11,750.0	11,447.4	46.9	40.6	80.75	345.3	2,719.7	3,805.5	3,723.9	81.56	46.660		
12,711.9	12,627.0	11,750.0	11,447.4	46.9	40.6	80.75	345.3	2,719.7	3,809.1	3,727.6	81.53	46.719		
12,750.0	12,665.1	11,750.0	11,447.4	47.0	40.6	101.44	345.3	2,719.7	3,821.4	3,739.9	81.45	46.916		
12,800.0	12,714.8	11,750.0	11,447.4	47.2	40.6	99.63	345.3	2,719.7	3,838.6	3,757.3	81.34	47.193		
12,850.0	12,763.8	11,750.0	11,447.4	47.4	40.6	97.66	345.3	2,719.7	3,857.1	3,775.9	81.22	47.489		
12,900.0	12,811.8	11,769.7	11,448.9	47.5	40.7	95.25	364.7	2,717.0	3,876.6	3,795.4	81.16	47.766		
12,950.0	12,858.3	11,775.5	11,449.3	47.7	40.7	92.94	370.5	2,716.2	3,897.0	3,815.9	81.05	48.079		
13,000.0	12,903.1	11,782.2	11,449.5	47.8	40.7	90.52	377.1	2,715.3	3,918.1	3,837.1	80.95	48.399		
13,050.0	12,945.8	11,803.9	11,450.0	48.0	40.7	87.84	398.7	2,712.3	3,939.8	3,858.9	80.90	48.701		
13,100.0	12,986.1	11,803.9	11,450.0	48.1	40.7	85.41	398.7	2,712.3	3,961.7	3,880.9	80.79	49.036		
13,150.0	13,023.7	11,803.9	11,450.0	48.3	40.7	82.97	398.7	2,712.3	3,983.7	3,903.0	80.70	49.368		
13,200.0	13,058.2	11,803.9	11,450.0	48.4	40.7	80.53	398.7	2,712.3	4,005.8	3,925.2	80.61	49.692		
13,250.0	13,089.4	11,803.9	11,450.0	48.5	40.7	78.13	398.7	2,712.3	4,027.8	3,947.2	80.55	50.005		
13,300.0	13,117.2	11,845.6	11,450.0	48.7	40.9	75.52	440.0	2,707.1	4,048.8	3,968.2	80.63	50.216		
13,350.0	13,141.1	11,860.0	11,450.0	48.8	40.9	73.25	454.3	2,705.5	4,069.5	3,988.8	80.65	50.460		
13,400.0	13,161.2	11,900.0	11,450.0	48.9	41.0	71.03	494.1	2,701.7	4,089.6	4,008.8	80.77	50.630		
13,450.0	13,177.2	11,900.0	11,450.0	49.1	41.0	69.13	494.1	2,701.7	4,108.3	4,027.5	80.80	50.843		
13,500.0	13,189.1	11,900.0	11,450.0	49.2	41.0	67.36	494.1	2,701.7	4,126.1	4,045.3	80.86	51.028		
13,550.0	13,196.6	11,900.0	11,450.0	49.4	41.0	65.72	494.1	2,701.7	4,142.9	4,062.0	80.95	51.181		
13,600.0	13,199.8	11,938.0	11,450.0	49.6	41.2	64.30	532.0	2,698.8	4,158.0	4,076.8	81.21	51.202		
13,611.9	13,200.0	11,941.8	11,450.0	49.6	41.2	63.98	535.8	2,698.6	4,161.4	4,080.2	81.25	51.215		
13,700.0	13,200.0	11,969.9	11,450.0	50.0	41.3	64.26	563.8	2,697.0	4,185.9	4,104.3	81.62	51.284		
13,800.0	13,200.0	12,000.0	11,450.0	50.4	41.4	64.55	593.9	2,695.7	4,212.3	4,130.2	82.07	51.328		
13,900.0	13,200.0	12,033.7	11,450.0	50.9	41.6	64.82	627.6	2,694.9	4,237.1	4,154.5	82.57	51.315		
14,000.0	13,200.0	12,100.4	11,450.0	51.4	41.9	65.12	694.3	2,694.3	4,260.1	4,176.8	83.28	51.156		
14,100.0	13,200.0	12,202.1	11,450.0	52.0	42.3	65.41	791.8	2,693.5	4,280.2	4,195.9	84.24	50.808		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	13,200.0	12,303.8	11,450.0	52.6	42.9	65.66	890.1	2,692.7	4,297.1	4,211.8	85.30	50.376		
14,300.0	13,200.0	12,405.0	11,450.0	53.2	43.5	65.86	988.9	2,692.0	4,311.0	4,224.6	86.44	49.871		
14,400.0	13,200.0	12,505.7	11,450.0	53.8	44.2	66.01	1,088.2	2,691.2	4,321.7	4,234.1	87.67	49.298		
14,500.0	13,200.0	12,606.0	11,450.0	54.5	44.9	66.11	1,187.9	2,690.4	4,329.3	4,240.3	88.96	48.665		
14,600.0	13,200.0	12,706.1	11,450.0	55.1	45.7	66.17	1,287.7	2,689.6	4,333.6	4,243.3	90.32	47.980		
14,687.2	13,200.0	12,781.1	11,450.0	55.7	46.3	66.19	1,375.0	2,688.9	4,334.8	4,243.3	91.47	47.392		
14,700.0	13,200.0	12,806.1	11,450.0	55.8	46.5	66.19	1,387.7	2,688.8	4,334.8	4,243.1	91.75	47.248		
14,800.0	13,200.0	12,906.1	11,450.0	56.5	47.3	66.19	1,487.7	2,688.0	4,334.8	4,241.5	93.24	46.488		
14,900.0	13,200.0	13,006.1	11,450.0	57.3	48.2	66.19	1,587.7	2,687.1	4,334.7	4,239.9	94.82	45.716		
15,000.0	13,200.0	13,106.1	11,450.0	58.1	49.1	66.19	1,687.7	2,686.3	4,334.7	4,238.2	96.47	44.934		
15,100.0	13,200.0	13,193.9	11,450.0	58.9	50.0	66.19	1,787.7	2,685.5	4,334.7	4,236.6	98.07	44.198		
15,200.0	13,200.0	13,306.1	11,450.0	59.7	51.1	66.19	1,887.7	2,684.7	4,334.7	4,234.7	99.97	43.358		
15,300.0	13,200.0	13,406.1	11,450.0	60.6	52.2	66.19	1,987.7	2,683.9	4,334.6	4,232.8	101.82	42.571		
15,400.0	13,200.0	13,506.1	11,450.0	61.6	53.2	66.19	2,087.7	2,683.1	4,334.6	4,230.9	103.73	41.787		
15,500.0	13,200.0	13,606.1	11,450.0	62.5	54.3	66.19	2,187.7	2,682.3	4,334.6	4,228.9	105.69	41.011		
15,600.0	13,200.0	13,706.1	11,450.0	63.5	55.5	66.19	2,287.7	2,681.5	4,334.5	4,226.8	107.71	40.242		
15,700.0	13,200.0	13,806.1	11,450.0	64.5	56.6	66.19	2,387.7	2,680.7	4,334.5	4,224.7	109.78	39.484		
15,800.0	13,200.0	13,906.1	11,450.0	65.5	57.8	66.19	2,487.7	2,679.9	4,334.5	4,222.6	111.89	38.737		
15,900.0	13,200.0	14,006.1	11,450.0	66.6	59.0	66.19	2,587.7	2,679.1	4,334.5	4,220.4	114.05	38.003		
16,000.0	13,200.0	14,106.1	11,450.0	67.7	60.2	66.19	2,687.7	2,678.3	4,334.4	4,218.2	116.26	37.283		
16,100.0	13,200.0	14,206.1	11,450.0	68.8	61.4	66.19	2,787.7	2,677.5	4,334.4	4,215.9	118.50	36.577		
16,200.0	13,200.0	14,306.1	11,450.0	69.9	62.7	66.19	2,887.7	2,676.7	4,334.4	4,213.6	120.78	35.887		
16,300.0	13,200.0	14,406.1	11,450.0	71.1	64.0	66.19	2,987.7	2,675.9	4,334.4	4,211.3	123.10	35.211		
16,400.0	13,200.0	14,506.1	11,450.0	72.3	65.3	66.19	3,087.7	2,675.1	4,334.3	4,208.9	125.45	34.552		
16,500.0	13,200.0	14,606.1	11,450.0	73.5	66.6	66.19	3,187.7	2,674.3	4,334.3	4,206.5	127.83	33.908		
16,600.0	13,200.0	14,706.1	11,450.0	74.7	67.9	66.19	3,287.7	2,673.5	4,334.3	4,204.0	130.24	33.279		
16,700.0	13,200.0	14,806.1	11,450.0	75.9	69.3	66.19	3,387.7	2,672.7	4,334.2	4,201.6	132.68	32.667		
16,800.0	13,200.0	14,906.1	11,450.0	77.1	70.6	66.19	3,487.7	2,671.9	4,334.2	4,199.1	135.15	32.071		
16,900.0	13,200.0	15,006.1	11,450.0	78.4	72.0	66.19	3,587.7	2,671.1	4,334.2	4,196.6	137.64	31.490		
17,000.0	13,200.0	15,106.1	11,450.0	79.7	73.4	66.19	3,687.7	2,670.3	4,334.2	4,194.0	140.16	30.924		
17,100.0	13,200.0	15,206.1	11,450.0	81.0	74.7	66.19	3,787.7	2,669.5	4,334.1	4,191.4	142.69	30.374		
17,200.0	13,200.0	15,306.1	11,450.0	82.3	76.2	66.19	3,887.7	2,668.7	4,334.1	4,188.9	145.26	29.838		
17,300.0	13,200.0	15,406.1	11,450.0	83.6	77.6	66.19	3,987.6	2,667.9	4,334.1	4,186.2	147.84	29.316		
17,400.0	13,200.0	15,506.1	11,450.0	84.9	79.0	66.19	4,087.6	2,667.1	4,334.1	4,183.6	150.44	28.809		
17,500.0	13,200.0	15,606.1	11,450.0	86.3	80.4	66.19	4,187.6	2,666.3	4,334.0	4,181.0	153.06	28.316		
17,600.0	13,200.0	15,706.1	11,450.0	87.6	81.9	66.19	4,287.6	2,665.5	4,334.0	4,178.3	155.70	27.836		
17,700.0	13,200.0	15,806.1	11,450.0	89.0	83.3	66.18	4,387.6	2,664.7	4,334.0	4,175.6	158.35	27.370		
17,800.0	13,200.0	15,906.1	11,450.0	90.3	84.8	66.18	4,487.6	2,663.9	4,333.9	4,172.9	161.02	26.916		
17,900.0	13,200.0	16,006.1	11,450.0	91.7	86.2	66.18	4,587.6	2,663.1	4,333.9	4,170.2	163.71	26.474		
18,000.0	13,200.0	16,106.1	11,450.0	93.1	87.7	66.18	4,687.6	2,662.3	4,333.9	4,167.5	166.40	26.044		
18,100.0	13,200.0	16,206.1	11,450.0	94.5	89.2	66.18	4,787.6	2,661.5	4,333.9	4,164.7	169.12	25.626		
18,200.0	13,200.0	16,306.1	11,450.0	95.9	90.6	66.18	4,887.6	2,660.7	4,333.8	4,162.0	171.84	25.220		
18,300.0	13,200.0	16,406.1	11,450.0	97.3	92.1	66.18	4,987.6	2,659.9	4,333.8	4,159.2	174.58	24.824		
18,400.0	13,200.0	16,506.1	11,450.0	98.7	93.6	66.18	5,087.6	2,659.1	4,333.8	4,156.4	177.33	24.439		
18,500.0	13,200.0	16,606.1	11,450.0	100.2	95.1	66.18	5,187.6	2,658.3	4,333.8	4,153.7	180.09	24.064		
18,600.0	13,200.0	16,706.1	11,450.0	101.6	96.6	66.18	5,287.6	2,657.5	4,333.7	4,150.9	182.87	23.699		
18,700.0	13,200.0	16,806.1	11,450.0	103.0	98.1	66.18	5,387.6	2,656.7	4,333.7	4,148.0	185.65	23.343		
18,800.0	13,200.0	16,906.1	11,450.0	104.5	99.6	66.18	5,487.6	2,655.9	4,333.7	4,145.2	188.44	22.997		
18,900.0	13,200.0	17,006.1	11,450.0	105.9	101.2	66.18	5,587.6	2,655.0	4,333.6	4,142.4	191.24	22.660		
19,000.0	13,200.0	17,106.1	11,450.0	107.4	102.7	66.18	5,687.6	2,654.2	4,333.6	4,139.6	194.06	22.332		
19,100.0	13,200.0	17,193.9	11,450.0	108.9	104.0	66.18	5,787.6	2,653.4	4,333.6	4,136.9	196.70	22.032		
19,200.0	13,200.0	17,306.1	11,450.0	110.3	105.7	66.18	5,887.6	2,652.6	4,333.6	4,133.9	199.70	21.700		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	13,200.0	17,406.1	11,450.0	111.8	107.3	66.18	5,987.6	2,651.8	4,333.5	4,131.0	202.54	21.396		
19,400.0	13,200.0	17,506.1	11,450.0	113.3	108.8	66.18	6,087.6	2,651.0	4,333.5	4,128.1	205.38	21.100		
19,500.0	13,200.0	17,606.1	11,450.0	114.8	110.4	66.18	6,187.6	2,650.2	4,333.5	4,125.2	208.23	20.811		
19,600.0	13,200.0	17,706.1	11,450.0	116.3	111.9	66.18	6,287.6	2,649.4	4,333.5	4,122.4	211.09	20.529		
19,700.0	13,200.0	17,806.1	11,450.0	117.8	113.4	66.18	6,387.6	2,648.6	4,333.4	4,119.5	213.96	20.254		
19,800.0	13,200.0	17,906.1	11,450.0	119.3	115.0	66.18	6,487.6	2,647.8	4,333.4	4,116.6	216.83	19.986		
19,900.0	13,200.0	18,006.1	11,450.0	120.8	116.5	66.18	6,587.6	2,647.0	4,333.4	4,113.7	219.70	19.724		
20,000.0	13,200.0	18,106.1	11,450.0	122.3	118.1	66.18	6,687.6	2,646.2	4,333.3	4,110.8	222.59	19.468		
20,100.0	13,200.0	18,206.1	11,450.0	123.8	119.7	66.18	6,787.6	2,645.4	4,333.3	4,107.8	225.48	19.219		
20,200.0	13,200.0	18,306.1	11,450.0	125.3	121.2	66.18	6,887.6	2,644.6	4,333.3	4,104.9	228.37	18.975		
20,300.0	13,200.0	18,406.1	11,450.0	126.8	122.8	66.18	6,987.6	2,643.8	4,333.3	4,102.0	231.27	18.737		
20,400.0	13,200.0	18,506.1	11,450.0	128.4	124.4	66.18	7,087.5	2,643.0	4,333.2	4,099.1	234.17	18.504		
20,500.0	13,200.0	18,606.1	11,450.0	129.9	125.9	66.18	7,187.5	2,642.2	4,333.2	4,096.1	237.08	18.277		
20,600.0	13,200.0	18,706.1	11,450.0	131.4	127.5	66.18	7,287.5	2,641.4	4,333.2	4,093.2	240.00	18.055		
20,700.0	13,200.0	18,806.1	11,450.0	132.9	129.1	66.18	7,387.5	2,640.6	4,333.1	4,090.2	242.92	17.838		
20,800.0	13,200.0	18,906.1	11,450.0	134.5	130.6	66.18	7,487.5	2,639.8	4,333.1	4,087.3	245.84	17.626		
20,900.0	13,200.0	19,006.1	11,450.0	136.0	132.2	66.18	7,587.5	2,639.0	4,333.1	4,084.3	248.77	17.418		
21,000.0	13,200.0	19,106.1	11,450.0	137.6	133.8	66.18	7,687.5	2,638.2	4,333.1	4,081.4	251.70	17.215		
21,100.0	13,200.0	19,206.1	11,450.0	139.1	135.4	66.18	7,787.5	2,637.4	4,333.0	4,078.4	254.64	17.017		
21,200.0	13,200.0	19,306.1	11,450.0	140.7	137.0	66.18	7,887.5	2,636.6	4,333.0	4,075.4	257.57	16.822		
21,300.0	13,200.0	19,406.1	11,450.0	142.2	138.5	66.18	7,987.5	2,635.8	4,333.0	4,072.5	260.52	16.632		
21,400.0	13,200.0	19,506.1	11,450.0	143.8	140.1	66.18	8,087.5	2,635.0	4,333.0	4,069.5	263.46	16.446		
21,500.0	13,200.0	19,606.1	11,450.0	145.3	141.7	66.18	8,187.5	2,634.2	4,332.9	4,066.5	266.41	16.264		
21,600.0	13,200.0	19,706.1	11,450.0	146.9	143.3	66.18	8,287.5	2,633.4	4,332.9	4,063.5	269.37	16.085		
21,700.0	13,200.0	19,806.1	11,450.0	148.4	144.9	66.18	8,387.5	2,632.6	4,332.9	4,060.5	272.32	15.911		
21,800.0	13,200.0	19,906.1	11,450.0	150.0	146.5	66.18	8,487.5	2,631.8	4,332.8	4,057.6	275.28	15.740		
21,900.0	13,200.0	20,006.1	11,450.0	151.5	148.1	66.18	8,587.5	2,631.0	4,332.8	4,054.6	278.25	15.572		
22,000.0	13,200.0	20,106.1	11,450.0	153.1	149.7	66.18	8,687.5	2,630.2	4,332.8	4,051.6	281.21	15.407		
22,100.0	13,200.0	20,206.1	11,450.0	154.7	151.3	66.18	8,787.5	2,629.4	4,332.8	4,048.6	284.18	15.246		
22,200.0	13,200.0	20,306.1	11,450.0	156.2	152.9	66.18	8,887.5	2,628.6	4,332.7	4,045.6	287.15	15.089		
22,300.0	13,200.0	20,406.1	11,450.0	157.8	154.5	66.18	8,987.5	2,627.8	4,332.7	4,042.6	290.13	14.934		
22,400.0	13,200.0	20,506.1	11,450.0	159.4	156.1	66.18	9,087.5	2,627.0	4,332.7	4,039.6	293.10	14.782		
22,500.0	13,200.0	20,606.1	11,450.0	161.0	157.7	66.18	9,187.5	2,626.2	4,332.7	4,036.6	296.08	14.633		
22,600.0	13,200.0	20,706.1	11,450.0	162.5	159.3	66.18	9,287.5	2,625.4	4,332.6	4,033.6	299.06	14.487		
22,700.0	13,200.0	20,806.1	11,450.0	164.1	160.9	66.18	9,387.5	2,624.6	4,332.6	4,030.6	302.05	14.344		
22,800.0	13,200.0	20,906.1	11,450.0	165.7	162.5	66.18	9,487.5	2,623.8	4,332.6	4,027.5	305.03	14.204		
22,900.0	13,200.0	21,006.1	11,450.0	167.3	164.1	66.18	9,587.5	2,623.0	4,332.5	4,024.5	308.02	14.066		
23,000.0	13,200.0	21,106.1	11,450.0	168.9	165.7	66.18	9,687.5	2,622.1	4,332.5	4,021.5	311.01	13.930		
23,100.0	13,200.0	21,206.1	11,450.0	170.4	167.3	66.18	9,787.5	2,621.3	4,332.5	4,018.5	314.01	13.797		
23,200.0	13,200.0	21,306.1	11,450.0	172.0	168.9	66.18	9,887.5	2,620.5	4,332.5	4,015.5	317.00	13.667		
23,300.0	13,200.0	21,406.1	11,450.0	173.6	170.5	66.18	9,987.5	2,619.7	4,332.4	4,012.4	320.00	13.539		
23,400.0	13,200.0	21,506.1	11,450.0	175.2	172.1	66.18	10,087.5	2,618.9	4,332.4	4,009.4	323.00	13.413		
23,504.9	13,200.0	21,598.7	11,450.0	176.9	173.6	66.18	10,192.3	2,618.1	4,332.4	4,006.4	325.96	13.291 SF		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 199-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	13.8	13.8	0.0	0.0	-12.19	5,146.0	-1,111.3	5,264.6					
100.0	100.0	95.0	95.0	0.1	0.2	-12.19	5,146.1	-1,111.8	5,264.9	5,264.6	0.28	N/A		
200.0	200.0	176.2	176.2	0.5	0.3	-12.21	5,146.3	-1,113.3	5,265.5	5,264.7	0.76	6,922.149		
300.0	300.0	268.2	268.1	0.8	0.6	-12.23	5,146.6	-1,115.5	5,266.3	5,264.9	1.40	3,752.615		
400.0	400.0	364.3	364.2	1.2	0.9	-12.25	5,147.1	-1,117.5	5,267.3	5,265.2	2.11	2,499.295		
500.0	500.0	461.6	461.5	1.6	1.3	-12.27	5,147.8	-1,119.2	5,268.3	5,265.5	2.82	1,871.458		
600.0	600.0	559.1	559.0	1.9	1.6	-12.28	5,148.5	-1,120.6	5,269.4	5,265.9	3.52	1,495.568		
700.0	700.0	657.2	657.1	2.3	2.0	-12.29	5,149.4	-1,122.0	5,270.5	5,266.3	4.23	1,244.978		
800.0	800.0	755.3	755.1	2.6	2.3	-12.31	5,150.2	-1,123.4	5,271.7	5,266.7	4.94	1,066.363		
900.0	900.0	847.9	847.7	3.0	2.6	-12.32	5,151.1	-1,124.8	5,272.9	5,267.3	5.63	935.827		
1,000.0	1,000.0	945.7	945.5	3.4	3.0	-12.33	5,152.1	-1,126.3	5,274.3	5,268.0	6.34	831.607		
1,100.0	1,100.0	1,131.1	1,131.0	3.7	3.6	-12.34	5,153.0	-1,127.1	5,274.9	5,267.5	7.33	719.269		
1,200.0	1,200.0	1,360.1	1,359.9	4.1	4.4	-12.34	5,149.7	-1,126.2	5,273.3	5,264.8	8.46	623.282		
1,300.0	1,300.0	1,542.1	1,541.7	4.4	5.0	-12.39	5,142.3	-1,129.8	5,269.7	5,260.3	9.45	557.611		
1,400.0	1,400.0	1,685.7	1,684.9	4.8	5.5	-12.48	5,134.1	-1,135.9	5,265.0	5,254.7	10.32	510.311		
1,500.0	1,500.0	1,781.9	1,780.8	5.1	5.9	-12.54	5,127.9	-1,141.0	5,260.0	5,249.0	11.02	477.201		
1,600.0	1,600.0	1,876.6	1,875.1	5.5	6.2	-12.62	5,122.0	-1,146.3	5,255.0	5,243.3	11.72	448.231		
1,700.0	1,700.0	1,979.4	1,977.6	5.9	6.6	-12.70	5,115.4	-1,152.4	5,250.1	5,237.6	12.46	421.420		
1,800.0	1,800.0	2,082.4	2,080.1	6.2	7.0	-12.78	5,108.7	-1,159.0	5,245.1	5,231.9	13.19	397.554		
1,900.0	1,900.0	2,068.0	2,065.8	6.6	6.9	-12.77	5,109.6	-1,158.0	5,241.3	5,227.8	13.51	388.075		
2,000.0	2,000.0	2,154.3	2,151.8	6.9	7.3	-12.84	5,105.0	-1,163.5	5,237.7	5,223.5	14.18	369.318		
2,100.0	2,100.0	2,194.7	2,192.1	7.3	7.4	-12.87	5,103.6	-1,166.0	5,235.7	5,221.0	14.69	356.395		
2,200.0	2,200.0	2,257.0	2,254.3	7.7	7.6	-12.91	5,102.4	-1,169.8	5,234.9	5,219.6	15.28	342.634		
2,237.3	2,237.3	2,257.0	2,254.3	7.8	7.6	-12.91	5,102.4	-1,169.8	5,234.8	5,219.4	15.41	339.663		
2,300.0	2,300.0	2,294.0	2,291.2	8.0	7.8	-12.94	5,102.0	-1,172.0	5,235.0	5,219.2	15.77	331.938		
2,400.0	2,400.0	2,374.5	2,371.6	8.4	8.1	-12.99	5,101.5	-1,176.7	5,235.7	5,219.3	16.42	318.796		
2,500.0	2,500.0	2,455.0	2,451.9	8.7	8.4	-13.04	5,101.4	-1,181.1	5,236.7	5,219.7	17.07	306.697		
2,600.0	2,600.0	2,534.5	2,531.3	9.1	8.7	-13.08	5,101.6	-1,185.3	5,238.2	5,220.5	17.72	295.596		
2,700.0	2,700.0	2,614.0	2,610.7	9.4	8.9	-13.12	5,102.1	-1,189.4	5,240.0	5,221.6	18.37	285.301		
2,800.0	2,800.0	2,800.0	2,948.3	9.8	9.6	-13.34	5,096.0	-1,208.2	5,238.9	5,219.5	19.41	269.932		
2,900.0	2,900.0	3,117.1	3,112.8	10.2	10.8	-13.44	5,088.4	-1,215.7	5,235.3	5,214.4	20.92	250.230		
3,000.0	3,000.0	3,200.2	3,195.8	10.5	11.1	-13.48	5,084.7	-1,218.6	5,231.7	5,210.1	21.58	242.384		
3,100.0	3,100.0	3,325.6	3,320.9	10.9	11.6	-13.55	5,078.7	-1,223.7	5,228.0	5,205.7	22.40	233.407		
3,200.0	3,200.0	3,432.5	3,427.6	11.2	12.0	-13.62	5,072.9	-1,229.6	5,224.0	5,200.8	23.15	225.648		
3,300.0	3,300.0	3,519.2	3,513.9	11.6	12.3	-13.70	5,068.0	-1,235.1	5,220.1	5,196.3	23.84	219.008		
3,400.0	3,400.0	3,601.0	3,595.4	12.0	12.6	-13.77	5,063.6	-1,240.8	5,216.5	5,192.0	24.50	212.906		
3,500.0	3,500.0	3,671.7	3,665.9	12.3	12.9	-13.83	5,060.2	-1,245.3	5,213.3	5,188.2	25.13	207.495		
3,600.0	3,600.0	3,742.5	3,736.6	12.7	13.1	-13.87	5,057.5	-1,248.8	5,210.7	5,185.0	25.75	202.368		
3,700.0	3,700.0	3,819.9	3,813.8	13.0	13.4	-13.91	5,055.1	-1,251.9	5,208.7	5,182.3	26.39	197.359		
3,800.0	3,800.0	3,900.9	3,894.8	13.4	13.7	-13.94	5,053.0	-1,254.7	5,207.0	5,180.0	27.05	192.526		
3,900.0	3,900.0	3,981.4	3,975.2	13.8	14.0	-13.97	5,051.3	-1,257.0	5,205.7	5,178.0	27.70	187.960		
4,000.0	4,000.0	4,060.6	4,054.4	14.1	14.3	-13.99	5,050.2	-1,258.7	5,204.8	5,176.5	28.34	183.671		
4,100.0	4,100.0	4,139.9	4,133.7	14.5	14.6	-14.01	5,049.5	-1,259.5	5,204.3	5,175.3	28.98	179.588		
4,200.0	4,200.0	4,246.7	4,240.5	14.8	14.9	-14.01	5,049.0	-1,259.8	5,203.9	5,174.2	29.70	175.193		
4,300.0	4,300.0	4,355.4	4,349.2	15.2	15.3	-14.01	5,048.5	-1,259.5	5,203.4	5,172.9	30.43	170.970		
4,400.0	4,400.0	4,435.7	4,429.4	15.5	15.5	-14.00	5,048.4	-1,258.6	5,203.0	5,171.9	31.05	167.559		
4,481.2	4,481.2	4,504.4	4,498.2	15.8	15.8	-13.99	5,048.6	-1,257.5	5,202.9	5,171.3	31.57	164.820		
4,500.0	4,500.0	4,520.4	4,514.1	15.9	15.8	-13.98	5,048.7	-1,257.1	5,202.9	5,171.2	31.69	164.198		
4,600.0	4,600.0	4,609.5	4,603.2	16.3	16.1	-13.96	5,049.4	-1,255.2	5,203.1	5,170.7	32.33	160.922		
4,700.0	4,700.0	4,698.7	4,692.4	16.6	16.4	-13.94	5,050.2	-1,253.1	5,203.4	5,170.4	32.98	157.778		
4,800.0	4,800.0	4,791.8	4,785.4	17.0	16.7	-13.91	5,051.3	-1,251.0	5,204.0	5,170.3	33.64	154.693		
4,900.0	4,900.0	4,885.6	4,879.2	17.3	17.0	-13.89	5,052.3	-1,249.3	5,204.6	5,170.3	34.31	151.716		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 199-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	5,000.0	4,990.7	4,984.3	17.7	17.4	-13.87	5,053.4	-1,248.0	5,205.3	5,170.3	35.01	148.680		
5,100.0	5,100.0	5,094.5	5,088.2	18.1	17.7	-13.86	5,054.3	-1,246.7	5,205.9	5,170.2	35.71	145.771		
5,200.0	5,200.0	5,195.4	5,189.0	18.4	18.0	-13.84	5,055.2	-1,245.4	5,206.5	5,170.1	36.41	143.009		
5,300.0	5,300.0	5,296.3	5,289.9	18.8	18.4	-13.82	5,056.1	-1,244.1	5,207.0	5,169.9	37.10	140.348		
5,400.0	5,400.0	5,385.9	5,379.5	19.1	18.7	-13.81	5,056.9	-1,243.1	5,207.6	5,169.9	37.76	137.917		
5,500.0	5,500.0	5,478.0	5,471.6	19.5	19.0	-13.80	5,057.9	-1,242.4	5,208.4	5,170.0	38.43	135.544		
5,600.0	5,600.0	5,580.0	5,573.6	19.8	19.3	-13.79	5,058.9	-1,242.0	5,209.3	5,170.2	39.13	133.125		
5,700.0	5,700.0	5,685.2	5,678.8	20.2	19.7	-13.79	5,059.8	-1,241.7	5,210.1	5,170.2	39.85	130.752		
5,800.0	5,800.0	5,800.6	5,794.2	20.6	20.1	-13.78	5,060.6	-1,241.5	5,210.7	5,170.1	40.60	128.342		
5,900.0	5,900.0	5,906.8	5,900.4	20.9	20.4	-13.78	5,061.0	-1,241.1	5,211.0	5,169.7	41.32	126.113		
6,000.0	6,000.0	6,007.1	6,000.7	21.3	20.8	-13.77	5,061.5	-1,240.7	5,211.3	5,169.3	42.02	124.021		
6,100.0	6,100.0	6,109.0	6,102.5	21.6	21.1	-13.77	5,061.9	-1,240.1	5,211.6	5,168.9	42.72	121.982		
6,200.0	6,200.0	6,211.4	6,205.0	22.0	21.5	-13.75	5,062.4	-1,239.1	5,211.9	5,168.5	43.43	120.002		
6,300.0	6,300.0	6,347.0	6,340.5	22.4	21.9	-13.74	5,062.7	-1,237.7	5,211.8	5,167.6	44.25	117.773		
6,400.0	6,400.0	6,464.5	6,458.1	22.7	22.3	-13.73	5,062.0	-1,237.0	5,211.1	5,166.1	45.02	115.758		
6,500.0	6,500.0	6,563.6	6,557.1	23.1	22.7	-13.75	5,060.8	-1,238.5	5,210.3	5,164.6	45.72	113.956		
6,600.0	6,600.0	6,656.5	6,650.0	23.4	23.0	-13.79	5,059.4	-1,241.6	5,209.6	5,163.2	46.41	112.252		
6,700.0	6,700.0	6,745.9	6,739.3	23.8	23.3	-13.82	5,058.2	-1,244.5	5,209.1	5,162.0	47.09	110.624		
6,800.0	6,800.0	6,846.3	6,839.6	24.1	23.7	-13.86	5,057.0	-1,247.6	5,208.7	5,160.9	47.80	108.958		
6,900.0	6,900.0	6,956.3	6,949.6	24.5	24.1	-13.90	5,055.6	-1,250.7	5,208.2	5,159.6	48.56	107.263		
7,000.0	7,000.0	7,112.3	7,105.5	24.9	24.6	-13.95	5,052.8	-1,254.9	5,207.1	5,157.6	49.47	105.265		
7,100.0	7,100.0	7,277.5	7,270.6	25.2	25.2	91.53	5,047.9	-1,258.7	5,204.8	5,154.4	50.39	103.296		
7,200.0	7,200.0	7,386.4	7,379.4	25.5	25.6	91.57	5,044.1	-1,259.2	5,201.5	5,150.4	51.10	101.784		
7,300.0	7,299.9	7,445.7	7,438.7	25.9	25.8	91.63	5,042.5	-1,259.0	5,198.9	5,147.3	51.66	100.647		
7,400.0	7,399.7	7,504.9	7,497.9	26.2	26.0	91.68	5,041.4	-1,258.7	5,197.2	5,145.0	52.20	99.554		
7,500.0	7,499.4	7,577.9	7,570.9	26.6	26.3	91.76	5,040.6	-1,258.1	5,196.2	5,143.4	52.80	98.416		
7,600.0	7,598.9	7,675.8	7,668.8	26.9	26.6	91.88	5,039.9	-1,257.1	5,195.4	5,142.0	53.47	97.157		
7,700.0	7,698.3	7,776.8	7,769.8	27.2	26.9	92.03	5,039.1	-1,255.7	5,194.8	5,140.6	54.16	95.910		
7,800.0	7,797.4	7,882.2	7,875.1	27.6	27.3	92.20	5,038.3	-1,254.1	5,194.2	5,139.3	54.87	94.665		
7,900.0	7,896.3	7,991.8	7,984.8	27.9	27.7	92.40	5,037.3	-1,252.5	5,193.5	5,137.9	55.59	93.421		
8,000.0	7,994.9	8,103.9	8,096.8	28.3	28.1	92.63	5,035.9	-1,251.0	5,192.7	5,136.4	56.33	92.187		
8,100.0	8,093.3	8,216.2	8,209.0	28.6	28.5	92.87	5,034.2	-1,249.4	5,191.8	5,134.7	57.07	90.975		
8,182.6	8,174.2	8,308.5	8,301.4	28.9	28.8	93.09	5,032.7	-1,247.9	5,191.0	5,133.3	57.68	89.993		
8,200.0	8,191.3	8,327.9	8,320.8	29.0	28.8	93.14	5,032.3	-1,247.5	5,190.8	5,133.0	57.81	89.788		
8,300.0	8,289.1	8,437.6	8,430.4	29.4	29.2	93.40	5,030.2	-1,245.7	5,189.7	5,131.1	58.55	88.632		
8,400.0	8,387.0	8,543.6	8,536.4	29.7	29.6	93.66	5,027.9	-1,243.8	5,188.4	5,129.1	59.29	87.515		
8,500.0	8,484.9	8,646.4	8,639.2	30.1	30.0	93.90	5,025.5	-1,242.0	5,187.1	5,127.1	60.01	86.435		
8,600.0	8,582.8	8,731.5	8,724.2	30.5	30.3	94.11	5,023.6	-1,240.5	5,186.0	5,125.3	60.68	85.458		
8,700.0	8,680.6	8,810.1	8,802.8	30.9	30.5	94.29	5,022.0	-1,239.4	5,185.2	5,123.9	61.34	84.534		
8,776.9	8,755.9	8,862.0	8,854.7	31.2	30.7	94.42	5,021.1	-1,238.8	5,185.0	5,123.2	61.82	83.879		
8,800.0	8,778.5	8,862.0	8,854.7	31.2	30.7	94.42	5,021.1	-1,238.8	5,185.0	5,123.1	61.91	83.758		
8,900.0	8,876.4	8,926.1	8,918.7	31.6	30.9	94.56	5,020.5	-1,238.4	5,185.6	5,123.1	62.51	82.954		
9,000.0	8,974.3	8,973.9	8,966.6	32.0	31.1	94.67	5,020.5	-1,238.4	5,187.3	5,124.3	63.06	82.258		
9,100.0	9,072.1	9,051.0	9,043.7	32.4	31.4	94.84	5,021.3	-1,239.1	5,190.2	5,126.5	63.72	81.459		
9,200.0	9,170.0	9,107.0	9,099.7	32.8	31.6	94.96	5,022.2	-1,239.9	5,193.6	5,129.3	64.29	80.780		
9,300.0	9,267.9	9,249.6	9,242.2	33.2	32.1	95.26	5,023.7	-1,241.9	5,196.7	5,131.6	65.19	79.714		
9,400.0	9,365.8	9,311.3	9,303.9	33.6	32.3	95.39	5,024.3	-1,242.8	5,199.9	5,134.1	65.80	79.030		
9,500.0	9,463.7	9,378.0	9,370.6	34.0	32.5	95.53	5,025.4	-1,243.8	5,203.8	5,137.4	66.42	78.348		
9,600.0	9,561.5	9,448.5	9,441.0	34.4	32.7	95.68	5,026.9	-1,244.9	5,208.3	5,141.2	67.06	77.670		
9,700.0	9,659.4	9,530.8	9,523.3	34.8	33.0	95.85	5,029.0	-1,246.7	5,213.2	5,145.5	67.74	76.959		
9,800.0	9,757.3	9,613.4	9,605.9	35.2	33.3	96.01	5,031.1	-1,249.3	5,218.5	5,150.1	68.43	76.264		
9,900.0	9,855.2	9,745.7	9,738.0	35.6	33.8	96.28	5,034.5	-1,252.7	5,223.8	5,154.5	69.31	75.369		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 199-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,953.0	9,852.5	9,844.8	36.0	34.1	96.51	5,036.9	-1,253.5	5,228.5	5,158.4	70.09	74.594		
10,100.0	10,050.9	9,937.8	9,930.1	36.4	34.4	96.70	5,039.0	-1,253.9	5,233.5	5,162.7	70.79	73.926		
10,200.0	10,148.8	10,031.0	10,023.3	36.9	34.8	96.91	5,041.6	-1,254.2	5,238.7	5,167.2	71.53	73.242		
10,300.0	10,246.7	10,139.7	10,131.9	37.3	35.1	97.15	5,044.4	-1,254.4	5,244.0	5,171.7	72.32	72.510		
10,400.0	10,344.6	10,243.8	10,236.0	37.7	35.5	97.39	5,046.9	-1,254.6	5,249.1	5,176.0	73.10	71.807		
10,500.0	10,442.4	10,345.1	10,337.2	38.1	35.8	97.61	5,049.3	-1,255.3	5,254.3	5,180.4	73.87	71.128		
10,600.0	10,540.3	10,445.1	10,437.2	38.5	36.2	97.82	5,051.4	-1,256.3	5,259.4	5,184.8	74.64	70.466		
10,700.0	10,638.2	10,544.5	10,536.6	39.0	36.5	98.04	5,053.6	-1,257.1	5,264.6	5,189.2	75.41	69.818		
10,800.0	10,736.1	10,612.7	10,604.8	39.4	37.5	98.61	5,054.6	-1,259.5	5,267.9	5,191.1	76.79	68.598		
10,900.0	10,833.9	10,941.1	10,933.1	39.8	37.9	98.87	5,052.8	-1,261.2	5,269.8	5,192.1	77.67	67.850		
11,000.0	10,931.8	11,032.7	11,024.8	40.2	38.2	99.05	5,051.2	-1,262.5	5,271.5	5,193.1	78.42	67.224		
11,100.0	11,029.7	11,123.5	11,115.5	40.7	38.6	99.24	5,049.9	-1,263.7	5,273.4	5,194.2	79.16	66.615		
11,200.0	11,127.6	11,234.7	11,226.7	41.1	39.0	99.47	5,048.1	-1,265.1	5,275.4	5,195.4	79.98	65.958		
11,300.0	11,225.5	11,348.3	11,340.2	41.5	39.4	99.70	5,046.0	-1,266.5	5,277.1	5,196.3	80.81	65.304		
11,400.0	11,323.3	11,444.9	11,436.9	42.0	39.7	99.90	5,044.2	-1,267.5	5,278.8	5,197.3	81.58	64.709		
11,500.0	11,421.2	11,521.7	11,513.6	42.4	40.0	100.06	5,042.8	-1,268.1	5,280.7	5,198.4	82.28	64.179		
11,523.5	11,444.2	11,537.0	11,529.0	42.5	40.0	100.09	5,042.6	-1,268.2	5,281.3	5,198.8	82.44	64.064		
11,600.0	11,519.2	11,549.0	11,540.9	42.8	40.1	100.15	5,042.4	-1,268.3	5,283.3	5,200.5	82.80	63.805		
11,700.0	11,617.7	11,549.0	11,540.9	43.3	40.1	100.20	5,042.4	-1,268.3	5,287.3	5,204.1	83.20	63.550		
11,800.0	11,716.7	11,549.0	11,540.9	43.7	40.1	100.28	5,042.4	-1,268.3	5,292.6	5,209.1	83.56	63.342		
11,900.0	11,815.9	11,549.0	11,540.9	44.1	40.1	100.38	5,042.4	-1,268.3	5,299.4	5,215.6	83.88	63.182		
12,000.0	11,915.5	11,549.0	11,540.9	44.4	40.1	100.51	5,042.4	-1,268.3	5,307.6	5,223.5	84.16	63.068		
12,100.0	12,015.2	11,597.6	11,589.5	44.8	40.2	100.68	5,044.2	-1,268.2	5,314.7	5,230.0	84.63	62.800		
12,200.0	12,115.1	11,643.0	11,634.5	45.2	40.4	100.85	5,050.0	-1,267.5	5,326.1	5,241.0	85.06	62.612		
12,300.0	12,215.1	11,643.0	11,634.5	45.5	40.4	101.01	5,050.0	-1,267.5	5,336.7	5,251.4	85.26	62.596		
12,311.9	12,227.0	11,643.0	11,634.5	45.5	40.4	-4.46	5,050.0	-1,267.5	5,338.0	5,252.7	85.28	62.597		
12,400.0	12,315.1	11,643.0	11,634.5	45.8	40.4	-4.46	5,050.0	-1,267.5	5,348.8	5,263.4	85.42	62.618		
12,500.0	12,415.1	11,643.0	11,634.5	46.2	40.4	-4.46	5,050.0	-1,267.5	5,362.8	5,277.2	85.56	62.678		
12,600.0	12,515.1	11,643.0	11,634.5	46.5	40.4	-4.46	5,050.0	-1,267.5	5,378.5	5,292.9	85.68	62.776		
12,700.0	12,615.1	11,643.0	11,634.5	46.9	40.4	-4.46	5,050.0	-1,267.5	5,396.1	5,310.4	85.77	62.911		
12,711.9	12,627.0	11,643.0	11,634.5	46.9	40.4	-4.46	5,050.0	-1,267.5	5,398.3	5,312.6	85.78	62.930		
12,750.0	12,665.1	11,643.0	11,634.5	47.0	40.4	17.31	5,050.0	-1,267.5	5,404.4	5,318.6	85.81	62.978		
12,800.0	12,714.8	11,643.0	11,634.5	47.2	40.4	17.17	5,050.0	-1,267.5	5,409.1	5,323.3	85.85	63.006		
12,850.0	12,763.8	11,643.0	11,634.5	47.4	40.4	17.14	5,050.0	-1,267.5	5,410.1	5,324.3	85.88	62.993		
12,900.0	12,811.8	11,643.0	11,634.5	47.5	40.4	17.22	5,050.0	-1,267.5	5,407.5	5,321.5	85.91	62.941		
12,950.0	12,858.3	11,643.0	11,634.5	47.7	40.4	17.41	5,050.0	-1,267.5	5,401.1	5,315.1	85.94	62.849		
13,000.0	12,903.1	11,667.0	11,658.0	47.8	40.5	17.77	5,055.0	-1,267.0	5,390.2	5,304.1	86.11	62.597		
13,050.0	12,945.8	11,690.0	11,680.1	48.0	40.5	18.27	5,061.1	-1,266.5	5,376.9	5,290.7	86.27	62.324		
13,100.0	12,986.1	11,690.0	11,680.1	48.1	40.5	18.86	5,061.1	-1,266.5	5,359.4	5,273.1	86.28	62.115		
13,150.0	13,023.7	11,690.0	11,680.1	48.3	40.5	19.63	5,061.1	-1,266.5	5,338.4	5,252.1	86.28	61.870		
13,200.0	13,058.2	11,690.0	11,680.1	48.4	40.5	20.58	5,061.1	-1,266.5	5,314.2	5,227.9	86.28	61.591		
13,250.0	13,089.4	11,690.0	11,680.1	48.5	40.5	21.76	5,061.1	-1,266.5	5,286.8	5,200.5	86.27	61.278		
13,300.0	13,117.2	11,690.0	11,680.1	48.7	40.5	23.23	5,061.1	-1,266.5	5,256.4	5,170.1	86.26	60.933		
13,350.0	13,141.1	11,690.0	11,680.1	48.8	40.5	25.05	5,061.1	-1,266.5	5,223.2	5,136.9	86.25	60.557		
13,400.0	13,161.2	11,690.0	11,680.1	48.9	40.5	27.31	5,061.1	-1,266.5	5,187.4	5,101.1	86.24	60.150		
13,450.0	13,177.2	11,690.0	11,680.1	49.1	40.5	30.16	5,061.1	-1,266.5	5,149.2	5,062.9	86.23	59.713		
13,500.0	13,189.1	11,690.0	11,680.1	49.2	40.5	33.78	5,061.1	-1,266.5	5,108.8	5,022.6	86.23	59.249		
13,550.0	13,196.6	11,690.0	11,680.1	49.4	40.5	38.42	5,061.1	-1,266.5	5,066.6	4,980.4	86.23	58.758		
13,600.0	13,199.8	11,690.0	11,680.1	49.6	40.5	44.45	5,061.1	-1,266.5	5,022.8	4,936.5	86.24	58.242		
13,611.9	13,200.0	11,690.0	11,680.1	49.6	40.5	46.13	5,061.1	-1,266.5	5,012.2	4,925.9	86.25	58.115		
13,700.0	13,200.0	11,690.0	11,680.1	50.0	40.5	43.56	5,061.1	-1,266.5	4,932.9	4,846.6	86.27	57.178		
13,800.0	13,200.0	11,690.0	11,680.1	50.4	40.5	40.37	5,061.1	-1,266.5	4,842.2	4,756.0	86.29	56.118		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 199-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	13,200.0	11,690.0	11,680.1	50.9	40.5	36.90	5,061.1	-1,266.5	4,751.1	4,664.8	86.28	55.063		
14,000.0	13,200.0	11,690.0	11,680.1	51.4	40.5	33.14	5,061.1	-1,266.5	4,659.4	4,573.1	86.26	54.015		
14,100.0	13,200.0	11,690.0	11,680.1	52.0	40.5	29.09	5,061.1	-1,266.5	4,567.3	4,481.0	86.21	52.976		
14,200.0	13,200.0	11,690.0	11,680.1	52.6	40.5	24.77	5,061.1	-1,266.5	4,474.8	4,388.7	86.14	51.948		
14,300.0	13,200.0	11,712.8	11,701.7	53.2	40.6	20.53	5,068.4	-1,265.9	4,381.5	4,295.2	86.25	50.801		
14,400.0	13,200.0	11,715.9	11,704.6	53.8	40.6	15.77	5,069.5	-1,265.8	4,288.5	4,202.3	86.15	49.778		
14,500.0	13,200.0	11,738.0	11,725.1	54.5	40.7	11.02	5,077.8	-1,265.2	4,195.9	4,109.7	86.21	48.673		
14,600.0	13,200.0	11,738.0	11,725.1	55.1	40.7	5.95	5,077.8	-1,265.2	4,102.7	4,016.7	86.02	47.695		
14,687.2	13,200.0	11,738.0	11,725.1	55.7	40.7	1.56	5,077.8	-1,265.2	4,021.6	3,935.8	85.83	46.856		
14,700.0	13,200.0	11,738.0	11,725.1	55.8	40.7	1.56	5,077.8	-1,265.2	4,009.8	3,924.0	85.80	46.734		
14,800.0	13,200.0	11,738.0	11,725.1	56.5	40.7	1.56	5,077.8	-1,265.2	3,917.1	3,831.6	85.56	45.785		
14,900.0	13,200.0	11,738.0	11,725.1	57.3	40.7	1.56	5,077.8	-1,265.2	3,824.9	3,739.6	85.30	44.841		
15,000.0	13,200.0	11,738.0	11,725.1	58.1	40.7	1.56	5,077.8	-1,265.2	3,733.0	3,648.0	85.03	43.904		
15,100.0	13,200.0	11,738.0	11,725.1	58.9	40.7	1.56	5,077.8	-1,265.2	3,641.6	3,556.8	84.74	42.974		
15,200.0	13,200.0	11,738.0	11,725.1	59.7	40.7	1.56	5,077.8	-1,265.2	3,550.6	3,466.2	84.43	42.053		
15,300.0	13,200.0	11,760.8	11,745.9	60.6	40.8	1.61	5,087.2	-1,264.5	3,459.7	3,375.3	84.38	41.002		
15,400.0	13,200.0	11,777.4	11,760.7	61.6	40.8	1.65	5,094.4	-1,263.9	3,369.5	3,285.2	84.24	39.996		
15,500.0	13,200.0	11,777.4	11,760.7	62.5	40.8	1.65	5,094.4	-1,263.9	3,279.6	3,195.7	83.89	39.092		
15,600.0	13,200.0	11,777.4	11,760.7	63.5	40.8	1.65	5,094.4	-1,263.9	3,190.3	3,106.8	83.52	38.199		
15,700.0	13,200.0	11,797.8	11,779.0	64.5	40.9	1.71	5,103.6	-1,263.0	3,101.4	3,018.0	83.39	37.190		
15,800.0	13,200.0	11,808.1	11,788.1	65.5	40.9	1.74	5,108.5	-1,262.6	3,013.1	2,929.9	83.12	36.251		
15,900.0	13,200.0	11,832.0	11,808.9	66.6	41.0	1.82	5,120.1	-1,261.4	2,925.5	2,842.4	83.01	35.241		
16,000.0	13,200.0	11,832.0	11,808.9	67.7	41.0	1.82	5,120.1	-1,261.4	2,838.2	2,755.7	82.55	34.381		
16,100.0	13,200.0	11,832.0	11,808.9	68.8	41.0	1.82	5,120.1	-1,261.4	2,751.9	2,669.8	82.06	33.536		
16,200.0	13,200.0	11,832.0	11,808.9	69.9	41.0	1.82	5,120.1	-1,261.4	2,666.5	2,584.9	81.53	32.707		
16,300.0	13,200.0	11,832.0	11,808.9	71.1	41.0	1.82	5,120.1	-1,261.4	2,582.1	2,501.1	80.95	31.896		
16,400.0	13,200.0	11,868.7	11,840.1	72.3	41.0	1.93	5,139.3	-1,259.7	2,497.5	2,416.5	80.95	30.850		
16,500.0	13,200.0	11,879.6	11,849.1	73.5	41.1	1.97	5,145.3	-1,259.3	2,414.6	2,334.1	80.50	29.993		
16,600.0	13,200.0	11,891.0	11,858.5	74.7	41.1	2.00	5,151.9	-1,258.9	2,332.7	2,252.7	80.03	29.149		
16,700.0	13,200.0	11,927.0	11,887.1	75.9	41.2	2.10	5,173.7	-1,257.8	2,252.7	2,172.7	79.96	28.171		
16,800.0	13,200.0	11,927.0	11,887.1	77.1	41.2	2.10	5,173.7	-1,257.8	2,172.8	2,093.6	79.21	27.431		
16,900.0	13,200.0	11,927.0	11,887.1	78.4	41.2	2.10	5,173.7	-1,257.8	2,094.6	2,016.2	78.40	26.718		
17,000.0	13,200.0	11,927.0	11,887.1	79.7	41.2	2.10	5,173.7	-1,257.8	2,018.4	1,940.9	77.52	26.036		
17,100.0	13,200.0	11,964.2	11,915.3	81.0	41.3	2.18	5,197.9	-1,257.0	1,943.0	1,865.7	77.36	25.118		
17,200.0	13,200.0	11,982.8	11,929.0	82.3	41.4	2.22	5,210.6	-1,256.8	1,869.7	1,792.9	76.77	24.354		
17,300.0	13,200.0	12,021.0	11,955.9	83.6	41.5	2.28	5,237.6	-1,256.7	1,798.5	1,722.0	76.56	23.491		
17,400.0	13,200.0	12,021.0	11,955.9	84.9	41.5	2.28	5,237.6	-1,256.7	1,728.7	1,653.2	75.48	22.902		
17,500.0	13,200.0	12,021.0	11,955.9	86.3	41.5	2.28	5,237.6	-1,256.7	1,662.0	1,587.6	74.34	22.358		
17,600.0	13,200.0	12,073.8	11,991.0	87.6	41.6	2.35	5,277.1	-1,257.0	1,596.2	1,521.8	74.35	21.470		
17,700.0	13,200.0	12,116.0	12,017.2	89.0	41.8	2.40	5,310.2	-1,257.1	1,533.7	1,459.6	74.09	20.700		
17,800.0	13,200.0	12,116.0	12,017.2	90.3	41.8	2.40	5,310.2	-1,257.1	1,473.6	1,400.8	72.81	20.238		
17,900.0	13,200.0	12,161.6	12,043.6	91.7	41.9	2.49	5,347.3	-1,256.9	1,416.1	1,343.5	72.57	19.512		
18,000.0	13,200.0	12,211.0	12,070.1	93.1	42.1	2.61	5,389.0	-1,255.8	1,362.0	1,289.5	72.43	18.803		
18,100.0	13,200.0	12,211.0	12,070.1	94.5	42.1	2.61	5,389.0	-1,255.8	1,310.9	1,239.8	71.09	18.440		
18,200.0	13,200.0	12,251.4	12,089.6	95.9	42.2	2.72	5,424.3	-1,254.9	1,263.6	1,192.9	70.70	17.871		
18,300.0	13,200.0	12,305.0	12,111.4	97.3	42.4	2.77	5,473.3	-1,255.2	1,221.7	1,151.0	70.62	17.298		
18,400.0	13,200.0	12,305.0	12,111.4	98.7	42.4	2.77	5,473.3	-1,255.2	1,182.8	1,113.4	69.42	17.039		
18,500.0	13,200.0	12,331.3	12,120.1	100.2	42.5	2.78	5,498.1	-1,255.7	1,150.1	1,081.2	68.90	16.694		
18,600.0	13,200.0	12,368.0	12,129.3	101.6	42.6	2.79	5,533.6	-1,256.3	1,123.7	1,055.0	68.70	16.357		
18,700.0	13,200.0	12,397.0	12,135.3	103.0	42.7	2.79	5,561.9	-1,256.8	1,102.3	1,033.7	68.57	16.075		
18,800.0	13,200.0	12,458.3	12,146.5	104.5	42.9	2.78	5,622.2	-1,258.0	1,084.5	1,015.5	69.01	15.715		
18,900.0	13,200.0	12,512.1	12,153.5	105.9	43.1	2.75	5,675.5	-1,259.2	1,071.4	1,001.9	69.49	15.417		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Nina Cortell - Nina Cortell Fed Com #201H - Wellbore #1 - Actual Survey		Offset Site Error: 0.0 usft	
Survey Program: 199-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
19,000.0	13,200.0	12,570.0	12,158.5	107.4	43.4	2.68	5,733.2	-1,261.2	1,062.5	992.3	70.14	15.149				
19,100.0	13,200.0	12,651.2	12,163.0	108.9	43.7	2.54	5,814.2	-1,264.6	1,056.6	985.6	70.98	14.886				
19,200.0	13,200.0	12,745.4	12,167.8	110.3	44.2	2.36	5,908.2	-1,268.9	1,051.4	979.5	71.90	14.622				
19,300.0	13,200.0	12,814.6	12,170.3	111.8	44.6	2.22	5,977.2	-1,272.1	1,047.7	974.9	72.82	14.388				
19,360.5	13,200.0	12,854.0	12,170.6	112.7	44.8	2.14	6,016.6	-1,273.9	1,047.1	973.7	73.41	14.263				
19,400.0	13,200.0	12,892.4	12,170.5	113.3	45.0	2.06	6,054.9	-1,275.6	1,047.1	973.3	73.81	14.187				
19,500.0	13,200.0	12,988.2	12,170.2	114.8	45.6	1.85	6,150.6	-1,280.2	1,047.4	972.5	74.84	13.995				
19,600.0	13,200.0	13,083.9	12,169.3	116.3	46.2	1.64	6,246.3	-1,284.8	1,048.2	972.3	75.90	13.810				
19,700.0	13,200.0	13,181.4	12,168.2	117.8	46.9	1.39	6,343.6	-1,290.0	1,049.2	972.2	76.99	13.627				
19,800.0	13,200.0	13,281.1	12,166.8	119.3	47.7	1.14	6,443.1	-1,295.5	1,050.5	972.4	78.11	13.449				
19,900.0	13,200.0	13,389.3	12,165.8	120.8	48.5	1.00	6,551.3	-1,298.7	1,051.4	972.1	79.24	13.269				
20,000.0	13,200.0	13,485.8	12,165.4	122.3	49.4	0.97	6,647.7	-1,300.0	1,051.8	971.4	80.39	13.084				
20,100.0	13,200.0	13,581.5	12,164.4	123.8	50.2	0.96	6,743.5	-1,301.0	1,052.9	971.3	81.56	12.909				
20,200.0	13,200.0	13,679.5	12,163.1	125.3	51.1	1.01	6,841.4	-1,300.8	1,054.1	971.4	82.75	12.739				
20,300.0	13,200.0	13,777.7	12,161.7	126.8	52.0	1.07	6,939.6	-1,300.5	1,055.6	971.6	83.95	12.574				
20,400.0	13,200.0	13,897.2	12,160.6	128.4	53.2	1.12	7,059.1	-1,300.4	1,056.6	971.4	85.17	12.406				
20,500.0	13,200.0	14,014.6	12,162.4	129.9	54.4	1.13	7,176.5	-1,301.1	1,055.0	968.6	86.42	12.207				
20,575.9	13,200.0	14,069.9	12,162.9	131.0	55.0	1.17	7,231.8	-1,300.8	1,054.3	966.9	87.37	12.067				
20,600.0	13,200.0	14,087.5	12,162.9	131.4	55.2	1.19	7,249.4	-1,300.6	1,054.4	966.7	87.67	12.026				
20,700.0	13,200.0	14,202.9	12,162.8	132.9	56.4	1.36	7,364.8	-1,298.3	1,054.5	965.5	88.95	11.855				
20,800.0	13,200.0	14,313.2	12,164.2	134.5	57.7	1.58	7,475.1	-1,295.2	1,053.4	963.1	90.25	11.672				
20,900.0	13,200.0	14,409.5	12,166.6	136.0	58.8	1.78	7,571.2	-1,292.3	1,051.0	959.5	91.55	11.480				
20,943.3	13,200.0	14,437.5	12,166.8	136.7	59.1	1.83	7,599.3	-1,291.7	1,050.7	958.6	92.11	11.408				
21,000.0	13,200.0	14,474.9	12,166.5	137.6	59.5	1.89	7,636.6	-1,290.9	1,051.2	958.4	92.84	11.323				
21,100.0	13,200.0	14,569.6	12,164.6	139.1	60.6	2.01	7,731.3	-1,289.2	1,053.4	959.2	94.16	11.186				
21,200.0	13,200.0	14,673.1	12,162.4	140.7	61.9	2.18	7,834.7	-1,286.9	1,055.5	960.0	95.51	11.052				
21,300.0	13,200.0	14,769.4	12,160.5	142.2	63.0	2.41	7,930.9	-1,283.4	1,057.7	960.9	96.86	10.920				
21,400.0	13,200.0	14,863.0	12,158.2	143.8	64.2	2.67	8,024.5	-1,279.0	1,060.4	962.2	98.23	10.795				
21,500.0	13,200.0	14,964.0	12,155.2	145.3	65.4	3.03	8,125.2	-1,273.1	1,063.7	964.1	99.64	10.676				
21,600.0	13,200.0	15,107.7	12,155.1	146.9	67.3	3.51	8,268.7	-1,265.3	1,063.9	962.7	101.19	10.514				
21,700.0	13,200.0	15,229.3	12,158.2	148.4	68.8	3.88	8,390.1	-1,259.4	1,061.8	959.1	102.72	10.336				
21,800.0	13,200.0	15,317.7	12,160.7	150.0	70.0	4.02	8,478.5	-1,257.7	1,059.2	955.0	104.14	10.171				
21,900.0	13,200.0	15,412.1	12,162.4	151.5	71.2	4.06	8,572.8	-1,257.9	1,057.3	951.8	105.55	10.018				
22,000.0	13,200.0	15,511.6	12,164.0	153.1	72.6	4.09	8,672.3	-1,258.1	1,055.8	948.8	106.98	9.870				
22,100.0	13,200.0	15,618.0	12,166.4	154.7	74.0	4.12	8,778.7	-1,258.5	1,053.6	945.2	108.43	9.717				
22,165.0	13,200.0	15,660.6	12,166.8	155.7	74.6	4.11	8,821.3	-1,259.2	1,052.9	943.6	109.30	9.634				
22,200.0	13,200.0	15,683.5	12,166.6	156.2	74.9	4.09	8,844.2	-1,259.8	1,053.1	943.4	109.76	9.595				
22,300.0	13,200.0	15,794.5	12,165.2	157.8	76.5	3.91	8,955.1	-1,263.7	1,054.3	943.1	111.17	9.483				
22,400.0	13,200.0	15,898.7	12,165.0	159.4	77.9	3.71	9,059.2	-1,268.3	1,054.2	941.6	112.56	9.365				
22,440.0	13,200.0	15,935.8	12,165.0	160.0	78.4	3.63	9,096.2	-1,270.1	1,054.1	941.0	113.11	9.319				
22,500.0	13,200.0	15,991.4	12,164.7	161.0	79.2	3.49	9,151.7	-1,273.0	1,054.2	940.3	113.93	9.253				
22,600.0	13,200.0	16,074.4	12,163.5	162.5	80.4	3.32	9,234.6	-1,276.8	1,055.5	940.2	115.29	9.154				
22,700.0	13,200.0	16,187.8	12,161.5	164.1	82.0	3.13	9,348.0	-1,281.0	1,057.2	940.4	116.74	9.056				
22,800.0	13,200.0	16,359.4	12,165.6	165.7	84.5	2.92	9,519.4	-1,286.4	1,054.6	936.4	118.24	8.920				
22,900.0	13,200.0	16,463.0	12,171.9	167.3	86.0	2.80	9,622.8	-1,289.8	1,048.5	928.8	119.67	8.762				
23,000.0	13,200.0	16,581.6	12,180.3	168.9	87.7	2.58	9,740.9	-1,295.1	1,041.2	920.1	121.07	8.600				
23,100.0	13,200.0	16,708.2	12,191.8	170.4	89.5	2.26	9,866.8	-1,302.3	1,032.0	909.6	122.42	8.430				
23,200.0	13,200.0	16,789.4	12,200.1	172.0	90.7	1.91	9,947.3	-1,309.5	1,021.6	897.7	123.87	8.247				
23,300.0	13,200.0	16,869.0	12,205.8	173.6	91.9	1.61	10,026.4	-1,315.5	1,014.0	888.7	125.34	8.090				
23,400.0	13,200.0	16,974.3	12,213.2	175.2	93.5	1.22	10,131.2	-1,323.3	1,006.8	880.0	126.78	7.942				
23,504.9	13,200.0	17,013.0	12,216.1	176.9	94.1	1.07	10,169.6	-1,326.3	1,001.2	872.8	128.39	7.798 CC, ES, SF				

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 23-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-102.69	-31.5	-139.9	143.4					
100.0	100.0	100.4	100.4	0.1	0.1	-102.69	-31.5	-139.8	143.3	143.0	0.26	549.072		
200.0	200.0	200.3	200.3	0.5	0.4	-102.70	-31.4	-139.5	142.9	142.0	0.90	158.364		
300.0	300.0	300.2	300.2	0.8	0.8	-102.74	-31.5	-139.3	142.8	141.2	1.62	88.311		
400.0	400.0	400.1	400.1	1.2	1.1	-102.79	-31.6	-139.2	142.7	140.4	2.33	61.175		
462.4	462.4	462.4	462.4	1.4	1.3	-102.83	-31.7	-139.1	142.7	139.9	2.78	51.378		
500.0	500.0	499.9	499.9	1.6	1.5	-102.89	-31.8	-139.1	142.7	139.7	3.04	46.868		
600.0	600.0	599.8	599.8	1.9	1.8	-103.01	-32.1	-139.1	142.8	139.0	3.75	38.066		
700.0	700.0	699.3	699.3	2.3	2.2	-103.00	-32.2	-139.4	143.1	138.6	4.45	32.158		
800.0	800.0	798.8	798.8	2.6	2.5	-102.92	-32.2	-140.1	143.8	138.6	5.15	27.928		
900.0	900.0	898.1	898.1	3.0	2.9	-102.78	-32.0	-141.2	144.8	139.0	5.85	24.762		
1,000.0	1,000.0	997.0	997.0	3.4	3.2	-102.58	-31.9	-143.0	146.5	140.0	6.55	22.364		
1,100.0	1,100.0	1,096.6	1,096.5	3.7	3.5	-102.28	-31.6	-145.3	148.7	141.5	7.26	20.492		
1,200.0	1,200.0	1,196.2	1,196.1	4.1	3.9	-102.13	-31.8	-147.8	151.2	143.2	7.97	18.977		
1,300.0	1,300.0	1,296.0	1,295.9	4.4	4.3	-102.14	-32.3	-150.3	153.8	145.1	8.68	17.725		
1,400.0	1,400.0	1,395.8	1,395.7	4.8	4.6	-102.17	-33.0	-153.0	156.5	147.2	9.39	16.671		
1,500.0	1,500.0	1,498.0	1,497.8	5.1	5.0	-102.41	-34.1	-155.0	158.8	148.7	10.11	15.704		
1,600.0	1,600.0	1,600.7	1,600.5	5.5	5.3	-103.25	-36.5	-155.1	159.3	148.5	10.83	14.710		
1,700.0	1,700.0	1,703.7	1,703.4	5.9	5.7	-104.41	-39.3	-153.1	158.1	146.5	11.54	13.695		
1,800.0	1,800.0	1,806.5	1,806.2	6.2	6.0	-105.60	-41.7	-149.2	155.0	142.8	12.25	12.653		
1,900.0	1,900.0	1,902.9	1,902.5	6.6	6.4	-105.89	-41.8	-146.7	152.6	139.6	12.95	11.781		
2,000.0	2,000.0	2,000.9	2,000.4	6.9	6.7	-104.90	-39.0	-146.7	151.8	138.2	13.65	11.124		
2,100.0	2,100.0	2,102.2	2,101.6	7.3	7.1	-103.52	-35.3	-146.9	151.1	136.8	14.35	10.529		
2,200.0	2,200.0	2,202.5	2,202.0	7.7	7.4	-102.26	-31.8	-146.3	149.7	134.7	15.06	9.944		
2,300.0	2,300.0	2,301.0	2,300.4	8.0	7.7	-101.36	-29.3	-146.0	148.9	133.2	15.76	9.451		
2,328.9	2,328.9	2,329.5	2,328.9	8.1	7.8	-101.17	-28.8	-146.1	148.9	132.9	15.96	9.328		
2,400.0	2,400.0	2,400.3	2,399.6	8.4	8.1	-100.84	-28.0	-146.4	149.1	132.6	16.46	9.054		
2,500.0	2,500.0	2,500.5	2,499.9	8.7	8.4	-100.50	-27.2	-146.7	149.2	132.0	17.17	8.690		
2,600.0	2,600.0	2,601.1	2,600.4	9.1	8.8	-100.27	-26.6	-146.8	149.2	131.3	17.88	8.342		
2,700.0	2,700.0	2,701.9	2,701.2	9.4	9.1	-99.99	-25.8	-146.3	148.6	130.0	18.59	7.993		
2,800.0	2,800.0	2,802.9	2,802.2	9.8	9.5	-99.63	-24.7	-145.3	147.4	128.1	19.30	7.640		
2,900.0	2,900.0	2,904.0	2,903.3	10.2	9.8	-99.27	-23.4	-143.6	145.6	125.5	20.01	7.275		
3,000.0	3,000.0	3,001.1	3,000.4	10.5	10.2	-98.80	-22.0	-142.3	143.9	123.2	20.71	6.951		
3,009.9	3,009.9	3,010.6	3,009.9	10.6	10.2	-98.74	-21.9	-142.3	143.9	123.2	20.78	6.927		
3,100.0	3,100.0	3,097.0	3,096.3	10.9	10.5	-97.99	-20.2	-143.6	145.1	123.7	21.40	6.781		
3,200.0	3,200.0	3,199.0	3,198.2	11.2	10.9	-96.98	-17.9	-146.3	147.4	125.3	22.12	6.665		
3,300.0	3,300.0	3,302.6	3,301.8	11.6	11.2	-96.19	-15.9	-146.5	147.4	124.6	22.84	6.454		
3,400.0	3,400.0	3,404.6	3,403.8	12.0	11.6	-95.62	-14.2	-144.8	145.5	122.0	23.55	6.179		
3,500.0	3,500.0	3,506.5	3,505.6	12.3	12.0	-95.21	-12.9	-141.6	142.3	118.0	24.25	5.865		
3,600.0	3,600.0	3,604.6	3,603.6	12.7	12.3	-94.91	-11.9	-138.6	139.2	114.2	24.97	5.574		
3,700.0	3,700.0	3,703.2	3,702.2	13.0	12.6	-94.65	-11.1	-136.6	137.1	111.4	25.67	5.338		
3,800.0	3,800.0	3,801.8	3,800.9	13.4	13.0	-94.46	-10.6	-135.5	135.9	109.6	26.38	5.152		
3,864.5	3,864.5	3,865.5	3,864.5	13.6	13.2	-94.40	-10.4	-135.3	135.7	108.9	26.84	5.057		
3,900.0	3,900.0	3,900.9	3,899.9	13.8	13.3	-94.38	-10.4	-135.4	135.8	108.7	27.09	5.012		
4,000.0	4,000.0	4,000.8	3,999.8	14.1	13.7	-94.39	-10.4	-135.5	135.9	108.1	27.79	4.888		
4,100.0	4,100.0	4,100.8	4,099.8	14.5	14.0	-94.53	-10.7	-135.6	136.0	107.5	28.50	4.772		
4,200.0	4,200.0	4,200.9	4,199.9	14.8	14.4	-94.89	-11.6	-135.6	136.1	106.9	29.20	4.660		
4,300.0	4,300.0	4,301.2	4,300.2	15.2	14.7	-95.48	-13.0	-135.5	136.1	106.2	29.91	4.550		
4,400.0	4,400.0	4,401.7	4,400.7	15.5	15.1	-96.30	-14.9	-135.0	135.8	105.2	30.62	4.435		
4,500.0	4,500.0	4,501.8	4,500.8	15.9	15.4	-97.31	-17.2	-134.1	135.2	103.9	31.32	4.317		
4,600.0	4,600.0	4,601.8	4,600.7	16.3	15.8	-98.42	-19.7	-133.2	134.7	102.6	32.03	4.205		
4,700.0	4,700.0	4,701.6	4,700.5	16.6	16.1	-99.48	-22.1	-132.4	134.2	101.5	32.73	4.100		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 23-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.0	4,800.0	4,801.4	4,800.3	17.0	16.5	-100.21	-23.7	-131.8	133.9	100.5	33.44	4.004		
4,900.0	4,900.0	4,901.3	4,900.1	17.3	16.8	-100.75	-24.9	-131.4	133.8	99.6	34.15	3.917		
4,982.0	4,982.0	4,983.1	4,982.0	17.6	17.1	-101.22	-26.0	-131.2	133.7	99.0	34.73	3.851		
5,000.0	5,000.0	5,001.1	5,000.0	17.7	17.2	-101.32	-26.3	-131.1	133.7	98.9	34.86	3.837		
5,100.0	5,100.0	5,101.3	5,100.1	18.1	17.5	-101.88	-27.5	-130.8	133.7	98.1	35.56	3.759		
5,200.0	5,200.0	5,201.7	5,200.6	18.4	17.9	-102.37	-28.6	-130.4	133.5	97.2	36.27	3.680		
5,300.0	5,300.0	5,302.9	5,301.7	18.8	18.2	-103.57	-31.1	-128.9	132.6	95.6	36.99	3.586		
5,400.0	5,400.0	5,403.4	5,402.1	19.1	18.6	-105.81	-35.7	-126.1	131.1	93.4	37.70	3.477		
5,500.0	5,500.0	5,502.9	5,501.3	19.5	18.9	-108.95	-42.1	-122.7	129.7	91.3	38.41	3.378		
5,600.0	5,600.0	5,602.3	5,600.3	19.8	19.3	-112.88	-50.2	-119.0	129.1	90.0	39.12	3.301		
5,629.3	5,629.3	5,631.4	5,629.3	19.9	19.4	-114.06	-52.6	-117.9	129.1	89.8	39.33	3.283 CC		
5,700.0	5,700.0	5,701.8	5,699.4	20.2	19.6	-116.88	-58.4	-115.3	129.3	89.5	39.83	3.246 ES		
5,800.0	5,800.0	5,801.3	5,798.5	20.6	20.0	-120.76	-66.6	-111.8	130.1	89.6	40.54	3.210		
5,900.0	5,900.0	5,900.9	5,897.7	20.9	20.3	-124.50	-74.5	-108.4	131.6	90.3	41.25	3.190		
6,000.0	6,000.0	6,000.9	5,997.3	21.3	20.7	-128.13	-82.5	-105.0	133.6	91.6	41.97	3.183		
6,100.0	6,100.0	6,101.1	6,097.1	21.6	21.1	-131.85	-90.5	-101.0	135.6	93.0	42.68	3.178 SF		
6,200.0	6,200.0	6,200.9	6,196.5	22.0	21.4	-135.54	-98.4	-96.6	138.0	94.6	43.40	3.179		
6,300.0	6,300.0	6,300.6	6,295.9	22.4	21.8	-138.96	-106.1	-92.3	140.7	96.6	44.11	3.190		
6,400.0	6,400.0	6,400.3	6,395.1	22.7	22.1	-142.29	-113.8	-87.9	143.9	99.0	44.82	3.210		
6,500.0	6,500.0	6,499.7	6,494.0	23.1	22.5	-145.84	-122.0	-82.8	147.6	102.1	45.52	3.242		
6,600.0	6,600.0	6,599.2	6,593.1	23.4	22.9	-149.27	-130.4	-77.5	151.9	105.7	46.23	3.286		
6,700.0	6,700.0	6,698.9	6,692.4	23.8	23.2	-152.26	-138.5	-72.8	156.6	109.7	46.94	3.337		
6,800.0	6,800.0	6,799.5	6,792.6	24.1	23.6	-154.87	-145.9	-68.5	161.4	113.7	47.66	3.386		
6,900.0	6,900.0	6,900.3	6,893.0	24.5	24.0	-157.14	-152.6	-64.3	165.8	117.4	48.39	3.426		
7,000.0	7,000.0	7,001.1	6,993.5	24.9	24.3	-159.50	-158.9	-59.4	169.8	120.7	49.11	3.457		
7,100.0	7,100.0	7,101.5	7,093.5	25.2	24.7	-156.85	-165.0	-53.2	173.0	123.2	49.81	3.473		
7,200.0	7,200.0	7,201.0	7,192.7	25.5	25.1	-60.00	-170.8	-47.2	175.6	125.1	50.50	3.478		
7,300.0	7,299.9	7,300.1	7,291.4	25.9	25.4	-63.37	-176.5	-41.6	177.9	126.7	51.17	3.476		
7,400.0	7,399.7	7,398.1	7,389.1	26.2	25.8	-67.27	-182.7	-35.7	180.6	128.8	51.83	3.485		
7,500.0	7,499.4	7,496.3	7,486.8	26.6	26.2	-71.72	-189.5	-29.1	184.3	131.8	52.49	3.511		
7,600.0	7,598.9	7,594.8	7,584.9	26.9	26.5	-76.49	-196.5	-22.6	188.8	135.7	53.15	3.553		
7,700.0	7,698.3	7,693.5	7,683.1	27.2	26.9	-81.45	-203.6	-16.1	194.4	140.6	53.82	3.612		
7,800.0	7,797.4	7,792.4	7,781.5	27.6	27.3	-86.47	-210.4	-10.2	201.0	146.5	54.50	3.687		
7,900.0	7,896.3	7,891.3	7,880.1	27.9	27.6	-91.48	-217.0	-4.7	208.6	153.4	55.20	3.780		
8,000.0	7,994.9	7,990.3	7,978.8	28.3	28.0	-96.44	-223.2	0.1	217.5	161.6	55.90	3.891		
8,100.0	8,093.3	8,089.8	8,078.0	28.6	28.4	-101.40	-228.9	4.6	227.6	171.0	56.62	4.020		
8,182.6	8,174.2	8,171.9	8,160.0	28.9	28.7	-105.54	-232.9	8.2	236.8	179.6	57.22	4.139		
8,200.0	8,191.3	8,189.2	8,177.2	29.0	28.7	-106.43	-233.6	9.0	238.9	181.5	57.35	4.165		
8,300.0	8,289.1	8,290.4	8,278.2	29.4	29.1	-111.36	-237.1	13.1	250.9	192.8	58.09	4.319		
8,400.0	8,387.0	8,392.3	8,380.1	29.7	29.5	-115.90	-239.1	16.2	262.8	204.0	58.83	4.467		
8,500.0	8,484.9	8,492.0	8,479.8	30.1	29.8	-120.01	-240.0	18.5	274.8	215.3	59.54	4.616		
8,600.0	8,582.8	8,591.8	8,579.6	30.5	30.2	-123.82	-240.0	20.4	287.3	227.1	60.25	4.768		
8,700.0	8,680.6	8,688.5	8,676.3	30.9	30.5	-127.20	-240.0	22.1	300.7	239.8	60.95	4.934		
8,800.0	8,778.5	8,785.6	8,773.3	31.2	30.8	-130.25	-240.3	23.7	315.3	253.6	61.65	5.114		
8,900.0	8,876.4	8,883.3	8,871.0	31.6	31.2	-133.03	-240.7	25.4	330.7	268.3	62.35	5.304		
9,000.0	8,974.3	8,981.5	8,969.2	32.0	31.5	-135.57	-241.1	26.9	346.8	283.7	63.05	5.500		
9,100.0	9,072.1	9,082.0	9,069.7	32.4	31.9	-137.94	-241.3	28.1	362.9	299.1	63.76	5.692		
9,200.0	9,170.0	9,181.8	9,169.5	32.8	32.2	-140.08	-241.1	28.5	378.9	314.4	64.47	5.877		
9,300.0	9,267.9	9,279.8	9,267.5	33.2	32.6	-141.99	-241.1	28.6	395.0	329.9	65.16	6.062		
9,400.0	9,365.8	9,377.5	9,365.2	33.6	32.9	-143.72	-241.2	28.7	411.6	345.7	65.86	6.249		
9,500.0	9,463.7	9,474.4	9,462.1	34.0	33.3	-145.27	-241.6	28.8	428.6	362.1	66.56	6.440		
9,600.0	9,561.5	9,572.2	9,559.9	34.4	33.6	-146.70	-242.2	29.0	446.2	378.9	67.26	6.634		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 23-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.0	9,659.4	9,671.1	9,658.8	34.8	33.9	-148.04	-242.7	29.2	463.8	395.8	67.96	6.824		
9,800.0	9,757.3	9,770.0	9,757.7	35.2	34.3	-149.28	-243.2	29.1	481.4	412.8	68.67	7.011		
9,900.0	9,855.2	9,869.0	9,856.7	35.6	34.6	-150.40	-243.8	28.7	499.0	429.7	69.37	7.194		
10,000.0	9,953.0	9,968.8	9,956.5	36.0	35.0	-151.43	-244.7	28.0	516.6	446.5	70.07	7.372		
10,100.0	10,050.9	10,069.1	10,056.8	36.4	35.3	-152.44	-245.0	27.0	533.9	463.1	70.77	7.544		
10,200.0	10,148.8	10,164.0	10,151.7	36.9	35.7	-153.37	-245.1	26.1	551.3	479.8	71.46	7.715		
10,300.0	10,246.7	10,256.7	10,244.4	37.3	36.0	-154.21	-245.4	26.0	569.7	497.5	72.13	7.898		
10,400.0	10,344.6	10,350.7	10,338.4	37.7	36.3	-155.00	-245.9	26.6	589.0	516.2	72.80	8.091		
10,500.0	10,442.4	10,445.1	10,432.7	38.1	36.6	-155.80	-246.0	27.9	609.0	535.5	73.48	8.288		
10,600.0	10,540.3	10,543.8	10,531.5	38.5	37.0	-156.60	-245.9	29.5	629.4	555.2	74.19	8.484		
10,700.0	10,638.2	10,644.9	10,632.5	39.0	37.3	-157.31	-246.4	30.6	649.5	574.6	74.91	8.670		
10,800.0	10,736.1	10,745.7	10,733.3	39.4	37.7	-157.99	-246.6	31.2	669.1	593.5	75.62	8.848		
10,900.0	10,833.9	10,846.3	10,834.0	39.8	38.0	-158.78	-245.0	31.6	688.4	612.1	76.33	9.019		
11,000.0	10,931.8	10,941.1	10,928.7	40.2	38.4	-159.55	-242.8	32.0	707.8	630.8	77.00	9.193		
11,100.0	11,029.7	11,035.6	11,023.2	40.7	38.7	-160.23	-241.1	32.7	727.8	650.1	77.67	9.370		
11,200.0	11,127.6	11,134.9	11,122.5	41.1	39.0	-160.86	-239.9	33.6	747.9	669.6	78.37	9.544		
11,300.0	11,225.5	11,234.5	11,222.1	41.5	39.4	-161.44	-239.1	34.2	767.9	688.8	79.07	9.712		
11,400.0	11,323.3	11,333.4	11,321.0	42.0	39.7	-161.95	-238.6	34.6	787.8	708.0	79.77	9.876		
11,500.0	11,421.2	11,433.0	11,420.5	42.4	40.0	-162.43	-238.4	34.8	807.5	727.1	80.47	10.035		
11,523.5	11,444.2	11,456.9	11,444.5	42.5	40.1	-162.54	-238.4	34.8	812.1	731.5	80.64	10.071		
11,600.0	11,519.2	11,526.8	11,514.3	42.8	40.4	-162.92	-237.9	34.9	826.5	745.4	81.14	10.186		
11,700.0	11,617.7	11,608.1	11,595.6	43.3	40.6	-163.49	-235.0	36.1	844.5	762.8	81.72	10.334		
11,800.0	11,716.7	11,697.9	11,685.1	43.7	40.9	-164.17	-229.7	39.7	862.4	780.1	82.33	10.475		
11,900.0	11,815.9	11,857.4	11,838.3	44.1	41.4	-167.09	-191.3	37.6	872.5	789.2	83.27	10.477		
12,000.0	11,915.5	11,917.7	11,889.5	44.4	41.6	-169.28	-159.4	35.5	881.8	798.2	83.66	10.541		
12,100.0	12,015.2	11,970.0	11,931.8	44.8	41.7	-171.34	-128.6	34.8	894.6	810.9	83.74	10.683		
12,200.0	12,115.1	12,012.4	11,963.8	45.2	41.8	-173.16	-100.8	35.2	911.7	828.3	83.39	10.933		
12,300.0	12,215.1	12,049.0	11,989.4	45.5	41.9	-174.82	-74.8	36.2	933.6	851.1	82.58	11.306		
12,311.9	12,227.0	12,049.0	11,989.4	45.5	41.9	79.68	-74.8	36.2	936.6	854.2	82.39	11.368		
12,400.0	12,315.1	12,084.7	12,012.2	45.8	42.0	78.00	-47.3	37.4	961.5	880.1	81.39	11.813		
12,500.0	12,415.1	12,113.1	12,028.3	46.2	42.0	76.59	-23.9	38.4	996.7	916.9	79.77	12.495		
12,600.0	12,515.1	12,144.0	12,043.7	46.5	42.1	74.99	2.8	39.3	1,039.0	961.1	77.97	13.327		
12,700.0	12,615.1	12,144.0	12,043.7	46.9	42.1	74.99	2.8	39.3	1,088.1	1,012.6	75.45	14.420		
12,711.9	12,627.0	12,144.0	12,043.7	46.9	42.1	74.99	2.8	39.3	1,094.3	1,019.2	75.15	14.562		
12,750.0	12,665.1	12,167.0	12,053.9	47.0	42.1	93.30	23.4	39.9	1,114.7	1,040.1	74.63	14.937		
12,800.0	12,714.8	12,177.9	12,058.4	47.2	42.1	89.33	33.3	40.1	1,143.1	1,069.5	73.59	15.533		
12,850.0	12,763.8	12,189.4	12,062.9	47.4	42.2	85.16	43.9	40.4	1,172.6	1,100.0	72.60	16.151		
12,900.0	12,811.8	12,201.4	12,067.3	47.5	42.2	80.90	55.1	40.7	1,202.8	1,131.2	71.67	16.784		
12,950.0	12,858.3	12,235.0	12,078.2	47.7	42.3	75.94	86.9	41.3	1,234.0	1,162.9	71.15	17.343		
13,000.0	12,903.1	12,235.0	12,078.2	47.8	42.3	72.24	86.9	41.3	1,264.5	1,194.3	70.15	18.026		
13,050.0	12,945.8	12,235.0	12,078.2	48.0	42.3	68.59	86.9	41.3	1,295.1	1,225.9	69.25	18.704		
13,100.0	12,986.1	12,266.5	12,086.8	48.1	42.3	64.50	117.1	41.6	1,325.1	1,256.2	68.89	19.234		
13,150.0	13,023.7	12,290.0	12,092.5	48.3	42.4	60.96	140.0	41.5	1,354.2	1,285.7	68.50	19.769		
13,200.0	13,058.2	12,314.1	12,097.8	48.4	42.5	57.79	163.5	41.1	1,382.1	1,313.9	68.19	20.267		
13,250.0	13,089.4	12,345.1	12,103.6	48.5	42.5	54.95	193.9	40.3	1,408.5	1,340.5	68.04	20.702		
13,300.0	13,117.2	12,368.8	12,110.7	48.7	42.6	52.49	235.0	38.5	1,433.0	1,364.9	68.07	21.051		
13,350.0	13,141.1	12,429.8	12,117.2	48.8	42.8	50.46	277.4	36.0	1,455.1	1,386.9	68.18	21.344		
13,400.0	13,161.2	12,424.0	12,116.4	48.9	42.7	48.74	271.7	36.4	1,475.7	1,407.8	67.94	21.719		
13,450.0	13,177.2	12,456.0	12,120.2	49.1	42.8	47.33	303.3	34.5	1,494.0	1,425.9	68.14	21.926		
13,500.0	13,189.1	12,471.1	12,121.5	49.2	42.9	46.10	318.3	33.7	1,510.8	1,442.5	68.30	22.119		
13,550.0	13,196.6	12,486.1	12,122.4	49.4	42.9	45.08	333.4	33.1	1,525.8	1,457.2	68.58	22.250		
13,600.0	13,199.8	12,515.0	12,123.2	49.6	43.0	44.39	362.2	32.1	1,539.1	1,470.0	69.01	22.301		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 23-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,611.9	13,200.0	12,515.0	12,123.2	49.6	43.0	44.19	362.2	32.1	1,541.8	1,472.7	69.10	22.313		
13,700.0	13,200.0	12,612.1	12,124.5	50.0	43.3	45.34	459.3	28.3	1,561.6	1,491.4	70.19	22.248		
13,800.0	13,200.0	12,657.0	12,124.9	50.4	43.5	45.99	504.1	26.6	1,582.2	1,511.1	71.11	22.250		
13,900.0	13,200.0	12,721.2	12,124.1	50.9	43.8	46.71	568.3	25.4	1,603.3	1,531.2	72.10	22.238		
14,000.0	13,200.0	12,845.9	12,121.1	51.4	44.4	47.60	692.8	21.4	1,622.1	1,548.8	73.33	22.121		
14,100.0	13,200.0	12,920.0	12,119.7	52.0	44.8	48.11	766.9	18.4	1,637.6	1,563.3	74.32	22.036		
14,200.0	13,200.0	12,972.6	12,118.2	52.6	45.1	48.51	819.5	17.8	1,653.2	1,578.0	75.19	21.988		
14,300.0	13,200.0	13,137.1	12,114.9	53.2	46.1	49.18	983.9	17.4	1,666.9	1,590.1	76.86	21.689		
14,400.0	13,200.0	13,273.9	12,116.9	53.8	47.0	49.62	1,120.7	13.9	1,673.5	1,595.1	78.48	21.325		
14,500.0	13,200.0	13,366.1	12,119.4	54.5	47.7	49.85	1,212.8	10.9	1,676.2	1,596.5	79.73	21.024		
14,600.0	13,200.0	13,429.0	12,119.2	55.1	48.2	49.91	1,275.6	9.2	1,678.4	1,597.8	80.63	20.816		
14,687.2	13,200.0	13,566.0	12,120.5	55.7	49.3	49.87	1,412.4	2.9	1,675.7	1,593.4	82.23	20.378		
14,700.0	13,200.0	13,572.3	12,120.7	55.8	49.4	49.87	1,418.7	2.7	1,675.2	1,592.9	82.33	20.348		
14,800.0	13,200.0	13,618.0	12,121.4	56.5	49.8	49.88	1,464.5	1.9	1,673.6	1,590.5	83.08	20.146		
14,812.4	13,200.0	13,630.5	12,121.5	56.6	49.9	49.88	1,476.9	1.9	1,673.6	1,590.3	83.25	20.102		
14,900.0	13,200.0	13,684.6	12,121.3	57.3	50.4	49.88	1,531.0	2.0	1,674.5	1,590.4	84.10	19.911		
15,000.0	13,200.0	13,776.7	12,118.6	58.1	51.2	49.84	1,623.1	2.4	1,677.2	1,591.8	85.41	19.638		
15,100.0	13,200.0	13,906.4	12,115.2	58.9	52.5	49.75	1,752.7	1.4	1,679.0	1,591.8	87.18	19.259		
15,180.1	13,200.0	14,014.7	12,113.6	59.6	53.6	49.68	1,861.0	-0.8	1,678.9	1,590.2	88.72	18.924		
15,200.0	13,200.0	14,015.4	12,113.6	59.7	53.6	49.68	1,861.7	-0.7	1,679.0	1,590.2	88.80	18.908		
15,300.0	13,200.0	14,074.5	12,112.5	60.6	54.2	49.66	1,920.8	-0.9	1,680.5	1,590.6	89.87	18.699		
15,400.0	13,200.0	14,131.2	12,110.9	61.6	54.8	49.65	1,977.5	0.2	1,684.4	1,593.4	90.95	18.520		
15,500.0	13,200.0	14,309.1	12,109.0	62.5	56.7	49.78	2,155.2	7.0	1,689.6	1,595.8	93.83	18.008		
15,600.0	13,200.0	14,409.4	12,113.2	63.5	57.8	49.98	2,255.3	10.3	1,690.0	1,594.2	95.79	17.643		
15,700.0	13,200.0	14,501.3	12,115.4	64.5	58.8	50.10	2,347.1	12.6	1,691.0	1,593.4	97.61	17.324		
15,800.0	13,200.0	14,600.9	12,115.4	65.5	60.0	50.13	2,446.7	13.3	1,692.1	1,592.6	99.50	17.007		
15,900.0	13,200.0	14,777.1	12,118.2	66.6	62.1	50.23	2,622.9	13.1	1,692.0	1,589.4	102.62	16.488		
16,000.0	13,200.0	14,877.1	12,123.9	67.7	63.3	50.36	2,722.8	11.5	1,687.8	1,583.0	104.72	16.116		
16,100.0	13,200.0	14,937.0	12,125.2	68.8	64.1	50.39	2,782.6	10.7	1,685.8	1,579.7	106.14	15.883		
16,128.0	13,200.0	14,948.3	12,125.2	69.1	64.2	50.39	2,793.9	10.6	1,685.7	1,579.3	106.44	15.837		
16,200.0	13,200.0	15,003.0	12,124.5	69.9	64.9	50.37	2,848.6	10.0	1,686.1	1,578.5	107.61	15.669		
16,300.0	13,200.0	15,096.3	12,122.1	71.1	66.1	50.30	2,941.9	9.0	1,687.5	1,578.1	109.47	15.416		
16,400.0	13,200.0	15,307.3	12,123.1	72.3	68.8	50.24	3,152.7	3.7	1,686.1	1,572.9	113.22	14.893		
16,500.0	13,200.0	15,370.3	12,124.5	73.5	69.6	50.23	3,215.7	0.8	1,681.9	1,567.1	114.75	14.657		
16,600.0	13,200.0	15,459.3	12,123.4	74.7	70.8	50.13	3,304.5	-2.9	1,679.9	1,563.3	116.61	14.407		
16,700.0	13,200.0	15,556.1	12,121.8	75.9	72.1	49.99	3,401.2	-8.4	1,677.2	1,558.7	118.55	14.148		
16,800.0	13,200.0	15,625.3	12,120.8	77.1	73.0	49.91	3,470.3	-11.0	1,675.9	1,555.8	120.13	13.952		
16,812.8	13,200.0	15,633.5	12,120.6	77.3	73.1	49.91	3,478.5	-11.2	1,675.9	1,555.6	120.32	13.929		
16,900.0	13,200.0	15,691.0	12,119.8	78.4	73.9	49.89	3,536.0	-11.7	1,676.7	1,555.0	121.70	13.778		
17,000.0	13,200.0	15,784.3	12,118.6	79.7	75.2	49.89	3,629.3	-10.9	1,678.8	1,555.0	123.78	13.562		
17,100.0	13,200.0	15,875.9	12,117.4	81.0	76.4	49.90	3,720.9	-9.8	1,681.2	1,555.3	125.87	13.356		
17,200.0	13,200.0	15,990.6	12,116.3	82.3	78.0	49.92	3,835.6	-8.2	1,683.4	1,555.0	128.41	13.110		
17,300.0	13,200.0	16,093.5	12,115.8	83.6	79.5	49.96	3,938.4	-6.8	1,685.3	1,554.6	130.77	12.887		
17,400.0	13,200.0	17,400.0	12,116.7	84.9	97.9	50.00	4,084.5	-7.2	1,685.2	1,537.7	147.50	11.425		
17,500.0	13,200.0	16,355.0	12,119.3	86.3	83.2	50.02	4,199.9	-10.1	1,682.3	1,545.7	136.53	12.321		
17,600.0	13,200.0	16,425.1	12,119.8	87.6	84.2	50.01	4,269.9	-11.8	1,680.7	1,542.4	138.33	12.151		
17,610.0	13,200.0	16,430.9	12,119.7	87.7	84.2	50.01	4,275.8	-11.9	1,680.7	1,542.2	138.48	12.137		
17,700.0	13,200.0	16,513.0	12,118.6	89.0	85.4	49.97	4,357.8	-12.9	1,681.2	1,540.8	140.39	11.975		
17,800.0	13,200.0	16,623.5	12,117.4	90.3	87.0	49.92	4,468.3	-14.5	1,681.4	1,538.5	142.86	11.769		
17,900.0	13,200.0	16,747.3	12,117.1	91.7	88.8	49.88	4,592.1	-17.0	1,680.6	1,535.0	145.59	11.544		
18,000.0	13,200.0	16,922.9	12,120.7	93.1	91.4	49.89	4,767.5	-21.9	1,678.4	1,529.2	149.21	11.248		
18,100.0	13,200.0	16,979.1	12,123.0	94.5	92.2	49.92	4,823.6	-23.8	1,673.7	1,522.7	150.97	11.087		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Nina Cortell - Nina Cortell Fed Com #202H - Wellbore #1 - Actual		Offset Site Error: 0.0 usft	
Survey Program: 23-MWD													Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
18,200.0	13,200.0	17,035.6	12,123.8	95.9	93.1	49.92	4,880.2	-25.2	1,671.5	1,518.9	152.63	10.952				
18,231.0	13,200.0	17,052.1	12,123.8	96.3	93.3	49.92	4,896.6	-25.5	1,671.4	1,518.3	153.10	10.917				
18,300.0	13,200.0	17,088.8	12,123.2	97.3	93.8	49.90	4,933.4	-25.8	1,672.0	1,517.9	154.13	10.848				
18,400.0	13,200.0	17,155.0	12,120.9	98.7	94.8	49.86	4,999.5	-25.5	1,675.1	1,519.3	155.79	10.752				
18,500.0	13,200.0	17,234.4	12,116.9	100.2	96.0	49.79	5,078.8	-24.6	1,679.8	1,522.1	157.67	10.654				
18,600.0	13,200.0	18,600.0	12,111.6	101.6	116.3	49.71	5,207.6	-22.7	1,684.2	1,508.5	175.77	9.582				
18,700.0	13,200.0	17,493.4	12,110.2	103.0	99.9	49.73	5,337.6	-21.5	1,686.0	1,522.4	163.65	10.303				
18,800.0	13,200.0	17,664.7	12,111.6	104.5	102.4	49.79	5,508.9	-21.7	1,686.3	1,518.8	167.51	10.067				
18,900.0	13,200.0	17,746.8	12,114.0	105.9	103.7	49.84	5,590.9	-22.8	1,684.1	1,514.3	169.75	9.921				
19,000.0	13,200.0	17,881.7	12,117.5	107.4	105.7	49.90	5,725.8	-25.3	1,681.6	1,508.6	172.92	9.724				
19,100.0	13,200.0	17,944.3	12,118.7	108.9	106.7	49.91	5,788.3	-26.8	1,679.1	1,504.3	174.79	9.606				
19,181.1	13,200.0	18,002.8	12,118.3	110.1	107.6	49.88	5,846.8	-28.0	1,678.6	1,502.3	176.35	9.519				
19,200.0	13,200.0	18,017.2	12,118.0	110.3	107.8	49.87	5,861.2	-28.3	1,678.6	1,501.9	176.71	9.499				
19,300.0	13,200.0	18,109.2	12,115.5	111.8	109.2	49.77	5,953.2	-30.3	1,679.4	1,500.5	178.89	9.388				
19,400.0	13,200.0	18,222.7	12,112.3	113.3	110.9	49.64	6,066.6	-33.3	1,679.8	1,498.4	181.41	9.259				
19,500.0	13,200.0	19,500.0	12,109.7	114.8	130.6	49.50	6,183.5	-37.7	1,678.8	1,480.2	198.66	8.451				
19,563.2	13,200.0	18,385.1	12,109.0	115.7	113.4	49.45	6,228.8	-39.3	1,678.3	1,493.2	185.14	9.065				
19,600.0	13,200.0	18,407.0	12,108.6	116.3	113.8	49.44	6,250.8	-39.7	1,678.5	1,492.7	185.74	9.037				
19,700.0	13,200.0	18,475.3	12,106.9	117.8	114.8	49.40	6,319.0	-39.8	1,680.4	1,492.9	187.54	8.960				
19,800.0	13,200.0	18,565.3	12,104.1	119.3	116.2	49.37	6,409.0	-38.9	1,683.8	1,494.0	189.76	8.873				
19,900.0	13,200.0	18,687.1	12,100.6	120.8	118.1	49.31	6,530.7	-38.5	1,686.5	1,493.8	192.63	8.755				
20,000.0	13,200.0	18,833.7	12,100.3	122.3	120.4	49.32	6,677.2	-38.8	1,687.0	1,490.9	196.08	8.604				
20,099.4	13,200.0	18,921.5	12,101.7	123.8	121.7	49.37	6,765.1	-38.7	1,686.6	1,488.1	198.48	8.497				
20,100.0	13,200.0	18,922.0	12,101.7	123.8	121.7	49.37	6,765.5	-38.7	1,686.6	1,488.1	198.49	8.497				
20,200.0	13,200.0	19,006.2	12,101.3	125.3	123.0	49.37	6,849.8	-39.0	1,687.2	1,486.4	200.72	8.406				
20,300.0	13,200.0	19,140.5	12,100.6	126.8	125.1	49.33	6,984.1	-41.0	1,687.0	1,483.2	203.83	8.276				
20,400.0	13,200.0	19,223.9	12,100.5	128.4	126.4	49.30	7,067.4	-43.0	1,685.9	1,479.9	206.00	8.184				
20,404.5	13,200.0	19,226.6	12,100.5	128.4	126.5	49.29	7,070.1	-43.0	1,685.9	1,479.9	206.08	8.181				
20,500.0	13,200.0	19,280.0	12,099.5	129.9	127.3	49.27	7,123.5	-43.5	1,687.0	1,479.4	207.59	8.127				
20,600.0	13,200.0	19,350.4	12,096.9	131.4	128.4	49.22	7,193.9	-43.3	1,690.3	1,480.9	209.37	8.073				
20,700.0	13,200.0	19,452.7	12,091.8	132.9	130.0	49.12	7,296.1	-42.4	1,694.8	1,483.1	211.77	8.003				
20,800.0	13,200.0	19,533.1	12,088.1	134.5	131.3	49.07	7,376.3	-41.4	1,699.3	1,485.6	213.73	7.951				
20,900.0	13,200.0	19,721.1	12,086.4	136.0	134.2	49.14	7,564.3	-37.3	1,702.3	1,484.0	218.37	7.796				
21,000.0	13,200.0	19,836.3	12,088.6	137.6	136.0	49.23	7,679.4	-37.1	1,701.8	1,480.4	221.39	7.687				
21,100.0	13,200.0	19,941.0	12,089.7	139.1	137.7	49.25	7,784.1	-38.2	1,700.8	1,476.8	224.09	7.590				
21,199.6	13,200.0	20,022.2	12,089.3	140.6	138.9	49.22	7,865.3	-39.8	1,700.3	1,474.1	226.25	7.515				
21,200.0	13,200.0	20,022.5	12,089.3	140.7	139.0	49.22	7,865.6	-39.8	1,700.3	1,474.1	226.25	7.515				
21,300.0	13,200.0	20,116.7	12,087.3	142.2	140.4	49.13	7,959.7	-41.9	1,700.5	1,472.0	228.53	7.441				
21,400.0	13,200.0	20,215.1	12,085.8	143.8	142.0	49.08	8,058.0	-43.5	1,700.9	1,470.0	230.93	7.366				
21,500.0	13,200.0	20,286.5	12,085.3	145.3	143.1	49.08	8,129.5	-43.3	1,702.2	1,469.2	232.93	7.308				
21,600.0	13,200.0	20,382.1	12,084.2	146.9	144.6	49.10	8,225.0	-41.7	1,704.8	1,469.3	235.47	7.240				
21,700.0	13,200.0	20,465.0	12,084.4	148.4	145.9	49.18	8,307.9	-39.3	1,707.4	1,469.6	237.83	7.179				
21,800.0	13,200.0	20,534.6	12,083.6	150.0	147.0	49.22	8,377.4	-36.7	1,711.6	1,471.8	239.79	7.138				
21,900.0	13,200.0	20,613.9	12,081.3	151.5	148.3	49.26	8,456.6	-32.8	1,717.8	1,475.8	241.94	7.100				
22,000.0	13,200.0	20,817.2	12,084.6	153.1	151.5	49.56	8,659.7	-24.8	1,719.4	1,471.8	247.63	6.944				
22,100.0	13,200.0	20,921.5	12,086.1	154.7	153.1	49.64	8,764.0	-23.4	1,720.2	1,469.6	250.52	6.866				
22,200.0	13,200.0	21,042.6	12,086.6	156.2	155.1	49.63	8,885.1	-25.3	1,719.1	1,465.6	253.51	6.781				
22,285.8	13,200.0	21,109.1	12,086.4	157.6	156.1	49.61	8,951.6	-26.7	1,718.5	1,463.2	255.33	6.730				
22,300.0	13,200.0	21,118.8	12,086.4	157.8	156.3	49.61	8,961.3	-26.8	1,718.5	1,462.9	255.61	6.723				
22,400.0	13,200.0	21,242.9	12,085.9	159.4	158.3	49.60	9,085.4	-27.4	1,719.2	1,460.5	258.66	6.647				
22,500.0	13,200.0	21,337.6	12,088.1	161.0	159.8	49.67	9,180.0	-27.9	1,717.9	1,456.6	261.34	6.573				
22,562.9	13,200.0	21,386.3	12,089.0	162.0	160.6	49.70	9,228.7	-27.8	1,717.6	1,454.8	262.80	6.536				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		Nina Cortell - Nina Cortell Fed Com #202H - Wellbore #1 - Actual										Offset Site Error:	0.0 usft
Survey Program:		23-MWD										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,600.0	13,200.0	21,413.9	12,089.2	162.5	161.0	49.71	9,256.3	-27.7	1,717.7	1,454.1	263.63	6.516	
22,700.0	13,200.0	21,495.9	12,089.3	164.1	162.3	49.74	9,338.3	-27.0	1,718.9	1,453.0	265.96	6.463	
22,800.0	13,200.0	21,587.1	12,089.1	165.7	163.8	49.78	9,429.5	-25.6	1,720.8	1,452.3	268.49	6.409	
22,900.0	13,200.0	21,701.3	12,088.7	167.3	165.6	49.83	9,543.6	-23.9	1,722.8	1,451.3	271.54	6.345	
23,000.0	13,200.0	21,793.7	12,088.8	168.9	167.1	49.86	9,636.0	-23.1	1,724.0	1,449.9	274.11	6.290	
23,100.0	13,200.0	21,890.1	12,085.3	170.4	168.6	49.77	9,732.4	-24.2	1,726.1	1,449.7	276.40	6.245	
23,200.0	13,200.0	22,036.2	12,081.1	172.0	171.0	49.62	9,878.4	-27.3	1,727.0	1,447.4	279.55	6.178	
23,300.0	13,200.0	22,179.0	12,080.9	173.6	173.2	49.53	10,021.1	-32.3	1,725.0	1,442.4	282.64	6.103	
23,400.0	13,200.0	22,296.8	12,082.9	175.2	175.1	49.48	10,138.7	-37.5	1,721.1	1,435.7	285.40	6.030	
23,504.9	13,200.0	22,329.0	12,083.5	176.9	175.7	49.47	10,170.9	-39.1	1,718.2	1,431.2	286.95	5.988	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD, 3018-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.09	-3.5	2,313.3	2,313.3					
100.0	100.0	90.3	90.3	0.1	0.1	90.09	-3.5	2,313.5	2,313.5	2,313.3	0.27	8,536.171		
200.0	200.0	180.6	180.6	0.5	0.3	90.08	-3.4	2,314.1	2,314.2	2,313.4	0.77	3,005.477		
300.0	300.0	272.4	272.4	0.8	0.5	90.08	-3.2	2,315.0	2,315.2	2,313.8	1.38	1,679.910		
400.0	400.0	370.3	370.3	1.2	0.9	90.08	-3.3	2,316.3	2,316.5	2,314.4	2.09	1,110.090		
500.0	500.0	481.7	481.7	1.6	1.3	90.09	-3.6	2,317.5	2,317.6	2,314.7	2.84	815.283		
600.0	600.0	603.7	603.7	1.9	1.7	90.10	-3.8	2,317.9	2,317.9	2,314.3	3.63	639.229		
700.0	700.0	716.8	716.8	2.3	2.1	90.11	-4.4	2,317.3	2,317.4	2,313.0	4.37	530.223		
800.0	800.0	824.5	824.5	2.6	2.5	90.13	-5.2	2,316.4	2,316.5	2,311.4	5.10	454.310		
900.0	900.0	922.2	922.1	3.0	2.8	90.14	-5.8	2,315.3	2,315.4	2,309.6	5.80	399.512		
1,000.0	1,000.0	1,017.1	1,017.1	3.4	3.1	90.16	-6.3	2,314.5	2,314.5	2,308.1	6.48	356.990		
1,100.0	1,100.0	1,345.4	1,344.7	3.7	4.3	90.10	-3.9	2,299.5	2,312.5	2,304.5	7.98	289.771		
1,200.0	1,200.0	1,442.3	1,441.1	4.1	4.6	90.06	-2.5	2,289.1	2,301.8	2,293.1	8.67	265.360		
1,300.0	1,300.0	1,536.7	1,534.9	4.4	5.0	90.04	-1.6	2,279.4	2,291.5	2,282.1	9.36	244.753		
1,400.0	1,400.0	1,631.0	1,628.8	4.8	5.3	90.02	-0.9	2,269.8	2,281.3	2,271.3	10.05	226.920		
1,500.0	1,500.0	1,715.3	1,712.7	5.1	5.6	90.02	-0.9	2,261.6	2,271.6	2,260.9	10.71	212.057		
1,600.0	1,600.0	1,804.1	1,801.1	5.5	6.0	90.07	-2.6	2,253.6	2,262.5	2,251.1	11.39	198.684		
1,700.0	1,700.0	1,894.4	1,891.1	5.9	6.3	90.11	-4.5	2,245.7	2,253.8	2,241.7	12.07	186.732		
1,800.0	1,800.0	1,981.6	1,977.9	6.2	6.6	90.16	-6.4	2,238.5	2,245.6	2,232.9	12.74	176.234		
1,900.0	1,900.0	2,090.7	2,086.7	6.6	7.0	90.23	-9.0	2,229.9	2,237.8	2,224.3	13.49	165.893		
2,000.0	2,000.0	2,199.5	2,195.0	6.9	7.4	90.32	-12.5	2,220.4	2,229.0	2,214.8	14.24	156.580		
2,100.0	2,100.0	2,292.5	2,287.6	7.3	7.8	90.41	-15.8	2,212.4	2,220.4	2,205.5	14.93	148.708		
2,200.0	2,200.0	2,379.0	2,373.8	7.7	8.1	90.50	-19.2	2,205.3	2,212.2	2,196.6	15.61	141.755		
2,300.0	2,300.0	2,462.3	2,456.7	8.0	8.4	90.58	-22.3	2,199.0	2,204.7	2,188.4	16.27	135.510		
2,400.0	2,400.0	2,546.4	2,540.5	8.4	8.8	90.66	-25.4	2,193.3	2,198.0	2,181.0	16.94	129.781		
2,500.0	2,500.0	2,687.2	2,680.9	8.7	9.3	90.81	-30.7	2,183.8	2,191.5	2,173.7	17.79	123.176		
2,600.0	2,600.0	2,775.1	2,768.5	9.1	9.6	90.90	-34.1	2,176.6	2,183.4	2,164.9	18.47	118.188		
2,700.0	2,700.0	2,855.6	2,848.6	9.4	9.9	90.99	-37.7	2,170.7	2,176.1	2,156.9	19.13	113.743		
2,800.0	2,800.0	2,930.1	2,922.9	9.8	10.2	91.09	-41.3	2,165.9	2,169.8	2,150.0	19.77	109.761		
2,900.0	2,900.0	3,074.0	3,066.4	10.2	10.5	91.30	-48.8	2,156.8	2,163.7	2,143.4	20.37	106.222		
3,000.0	3,000.0	3,168.9	3,160.7	10.5	10.5	91.48	-55.7	2,149.6	2,156.3	2,135.5	20.75	103.905		
3,100.0	3,100.0	3,265.4	3,256.5	10.9	10.6	91.72	-64.2	2,142.2	2,148.9	2,127.8	21.15	101.596		
3,200.0	3,200.0	3,351.8	3,342.3	11.2	10.7	91.96	-72.9	2,136.0	2,141.9	2,120.4	21.56	99.326		
3,300.0	3,300.0	3,441.7	3,431.5	11.6	10.7	92.21	-82.3	2,129.9	2,135.6	2,113.6	21.99	97.111		
3,400.0	3,400.0	3,522.6	3,511.8	12.0	10.8	92.45	-90.9	2,124.9	2,129.8	2,107.4	22.42	94.980		
3,500.0	3,500.0	3,626.4	3,615.0	12.3	10.9	92.73	-101.1	2,119.2	2,124.7	2,101.8	22.88	92.863		
3,600.0	3,600.0	3,749.0	3,736.9	12.7	11.1	92.98	-110.0	2,111.5	2,118.8	2,095.4	23.36	90.708		
3,700.0	3,700.0	3,875.7	3,863.2	13.0	11.3	93.16	-116.2	2,102.4	2,111.9	2,088.0	23.85	88.553		
3,800.0	3,800.0	4,064.1	4,050.2	13.4	11.6	93.52	-128.1	2,083.1	2,102.0	2,077.6	24.39	86.175		
3,900.0	3,900.0	4,163.7	4,148.7	13.8	11.8	93.73	-135.0	2,070.5	2,089.8	2,064.9	24.91	83.909		
4,000.0	4,000.0	4,237.9	4,222.3	14.1	11.9	93.85	-138.6	2,061.9	2,078.4	2,053.0	25.41	81.805		
4,100.0	4,100.0	4,309.6	4,293.6	14.5	12.1	93.91	-140.6	2,054.6	2,068.4	2,042.5	25.90	79.850		
4,200.0	4,200.0	4,401.0	4,384.6	14.8	12.2	93.97	-142.1	2,046.1	2,059.3	2,032.9	26.42	77.957		
4,300.0	4,300.0	4,549.1	4,531.9	15.2	12.5	94.06	-144.2	2,030.2	2,048.5	2,021.5	26.98	75.919		
4,400.0	4,400.0	4,633.9	4,616.1	15.5	12.7	94.11	-145.3	2,020.7	2,037.4	2,009.9	27.51	74.059		
4,500.0	4,500.0	4,724.7	4,706.4	15.9	12.9	94.15	-146.0	2,011.4	2,027.2	1,999.1	28.05	72.278		
4,600.0	4,600.0	4,820.7	4,801.9	16.3	13.2	94.21	-147.2	2,001.4	2,016.9	1,988.3	28.60	70.529		
4,700.0	4,700.0	4,904.9	4,885.7	16.6	13.4	94.28	-149.1	1,993.1	2,007.3	1,978.2	29.14	68.874		
4,800.0	4,800.0	5,007.8	4,988.1	17.0	13.6	94.39	-152.2	1,983.6	1,998.3	1,968.6	29.72	67.232		
4,900.0	4,900.0	5,117.8	5,097.4	17.3	13.9	94.52	-155.9	1,972.3	1,988.3	1,958.0	30.32	65.582		
5,000.0	5,000.0	5,199.0	5,178.2	17.7	14.1	94.62	-158.7	1,964.3	1,978.7	1,947.9	30.88	64.072		
5,100.0	5,100.0	5,285.6	5,264.4	18.1	14.3	94.71	-161.2	1,956.8	1,970.3	1,938.8	31.46	62.632		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD, 3018-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,396.0	5,374.4	18.4	14.6	94.83	-164.4	1,947.0	1,961.7	1,929.6	32.07	61.165		
5,300.0	5,300.0	5,531.9	5,509.5	18.8	15.0	95.00	-169.2	1,933.4	1,952.1	1,919.3	32.73	59.640		
5,400.0	5,400.0	5,600.6	5,577.8	19.1	15.2	95.10	-172.0	1,926.4	1,942.2	1,908.9	33.30	58.317		
5,500.0	5,500.0	5,684.4	5,661.2	19.5	15.5	95.20	-174.6	1,918.9	1,933.5	1,899.6	33.89	57.046		
5,600.0	5,600.0	5,770.4	5,746.9	19.8	15.7	95.26	-176.0	1,911.8	1,925.5	1,891.0	34.49	55.836		
5,700.0	5,700.0	5,863.1	5,839.4	20.2	15.9	95.31	-177.0	1,904.9	1,918.2	1,883.1	35.09	54.668		
5,800.0	5,800.0	5,964.1	5,940.0	20.6	16.2	95.36	-178.2	1,897.4	1,910.9	1,875.2	35.71	53.514		
5,900.0	5,900.0	6,061.8	6,037.4	20.9	16.5	95.41	-179.1	1,890.1	1,903.6	1,867.3	36.33	52.402		
6,000.0	6,000.0	6,160.1	6,135.5	21.3	16.8	95.47	-180.3	1,882.9	1,896.4	1,859.5	36.95	51.323		
6,100.0	6,100.0	6,259.0	6,234.2	21.6	17.1	95.52	-181.3	1,875.8	1,889.3	1,851.7	37.58	50.276		
6,200.0	6,200.0	6,362.3	6,337.1	22.0	17.4	95.58	-182.5	1,868.2	1,882.1	1,843.9	38.22	49.245		
6,300.0	6,300.0	6,456.3	6,430.9	22.4	17.7	95.63	-183.6	1,861.4	1,875.0	1,836.1	38.85	48.267		
6,400.0	6,400.0	6,557.4	6,531.7	22.7	18.0	95.68	-184.4	1,854.2	1,868.0	1,828.5	39.49	47.306		
6,500.0	6,500.0	6,659.4	6,633.5	23.1	18.3	95.73	-185.3	1,846.8	1,860.9	1,820.7	40.13	46.367		
6,600.0	6,600.0	6,750.4	6,724.3	23.4	18.5	95.78	-186.3	1,840.4	1,853.9	1,813.2	40.76	45.482		
6,700.0	6,700.0	6,858.2	6,831.7	23.8	18.9	95.83	-187.3	1,832.7	1,847.0	1,805.5	41.43	44.584		
6,800.0	6,800.0	6,953.5	6,926.8	24.1	19.2	95.88	-188.0	1,825.9	1,839.9	1,797.9	42.07	43.737		
6,900.0	6,900.0	7,041.5	7,014.6	24.5	19.4	95.92	-188.6	1,820.0	1,833.3	1,790.7	42.69	42.941		
7,000.0	7,000.0	7,131.8	7,104.8	24.9	19.7	95.96	-189.4	1,814.6	1,827.4	1,784.1	43.33	42.178		
7,100.0	7,100.0	7,293.4	7,265.8	25.2	20.2	-158.53	-190.1	1,802.2	1,820.6	1,776.5	44.09	41.288		
7,200.0	7,200.0	7,391.2	7,363.2	25.5	20.6	-158.56	-189.8	1,793.1	1,813.7	1,769.0	44.73	40.553		
7,300.0	7,299.9	7,497.6	7,469.2	25.9	20.9	-158.61	-189.5	1,783.4	1,808.7	1,763.3	45.37	39.863		
7,400.0	7,399.7	7,585.6	7,556.8	26.2	21.2	-158.68	-188.8	1,775.5	1,805.3	1,759.3	45.99	39.253		
7,500.0	7,499.4	7,679.4	7,650.3	26.6	21.5	-158.77	-188.1	1,767.5	1,804.1	1,757.5	46.62	38.698		
7,512.8	7,512.1	7,691.5	7,662.4	26.6	21.5	-158.78	-188.0	1,766.5	1,804.1	1,757.4	46.70	38.631 CC, ES		
7,600.0	7,598.9	7,778.3	7,748.9	26.9	21.8	-158.86	-187.6	1,759.3	1,804.7	1,757.5	47.26	38.188		
7,700.0	7,698.3	7,867.7	7,837.9	27.2	22.1	-158.96	-187.4	1,752.1	1,807.3	1,759.4	47.88	37.744		
7,800.0	7,797.4	7,970.5	7,940.4	27.6	22.5	-159.08	-187.0	1,744.1	1,811.7	1,763.2	48.53	37.330		
7,900.0	7,896.3	8,064.3	8,034.0	27.9	22.8	-159.20	-186.7	1,736.9	1,817.8	1,768.7	49.17	36.974		
8,000.0	7,994.9	8,173.3	8,142.6	28.3	23.1	-159.35	-186.8	1,728.3	1,825.5	1,775.7	49.83	36.632		
8,100.0	8,093.3	8,265.8	8,234.8	28.6	23.4	-159.48	-186.8	1,721.0	1,834.8	1,784.4	50.47	36.357		
8,182.6	8,174.2	8,349.0	8,317.8	28.9	23.7	-159.61	-186.9	1,714.5	1,843.8	1,792.8	51.01	36.149		
8,200.0	8,191.3	8,365.0	8,333.7	29.0	23.8	-159.64	-187.0	1,713.3	1,845.8	1,794.7	51.12	36.110		
8,300.0	8,289.1	8,458.5	8,427.0	29.4	24.1	-159.83	-187.1	1,706.2	1,857.6	1,805.9	51.76	35.893		
8,400.0	8,387.0	8,557.9	8,526.1	29.7	24.4	-160.01	-187.8	1,698.8	1,869.6	1,817.2	52.41	35.672		
8,500.0	8,484.9	8,660.6	8,628.5	30.1	24.8	-160.18	-188.7	1,690.9	1,881.4	1,828.3	53.08	35.446		
8,600.0	8,582.8	8,754.7	8,722.3	30.5	25.1	-160.34	-189.4	1,683.7	1,893.3	1,839.5	53.73	35.238		
8,700.0	8,680.6	8,841.3	8,808.6	30.9	25.4	-160.49	-190.3	1,677.5	1,905.6	1,851.2	54.36	35.056		
8,800.0	8,778.5	8,927.7	8,894.9	31.2	25.7	-160.63	-190.9	1,672.1	1,918.8	1,863.8	54.99	34.895		
8,900.0	8,876.4	9,051.6	9,018.4	31.6	26.1	-160.84	-191.9	1,663.3	1,931.2	1,875.5	55.72	34.658		
9,000.0	8,974.3	9,138.5	9,105.1	32.0	26.4	-160.97	-193.1	1,657.0	1,943.5	1,887.2	56.36	34.485		
9,100.0	9,072.1	9,270.1	9,236.4	32.4	26.9	-161.15	-195.1	1,647.9	1,956.4	1,899.3	57.12	34.253		
9,200.0	9,170.0	9,361.2	9,327.2	32.8	27.2	-161.28	-196.2	1,640.0	1,967.4	1,909.6	57.77	34.054		
9,300.0	9,267.9	9,438.1	9,403.8	33.2	27.4	-161.39	-197.4	1,634.2	1,979.5	1,921.1	58.39	33.900		
9,400.0	9,365.8	9,400.0	9,522.3	33.6	27.3	-161.56	-198.8	1,625.3	1,991.6	1,933.0	58.60	33.986		
9,500.0	9,463.7	9,666.0	9,630.9	34.0	28.2	-161.75	-198.9	1,615.7	2,002.3	1,942.5	59.83	33.468		
9,600.0	9,561.5	9,739.7	9,704.5	34.4	28.5	-161.88	-198.7	1,610.0	2,014.2	1,953.7	60.44	33.326		
9,700.0	9,659.4	9,877.5	9,841.8	34.8	29.0	-162.10	-199.3	1,599.3	2,026.1	1,964.9	61.22	33.095		
9,800.0	9,757.3	9,987.2	9,951.0	35.2	29.4	-162.25	-200.5	1,588.8	2,036.2	1,974.2	61.94	32.876		
9,900.0	9,855.2	10,070.9	10,034.3	35.6	29.7	-162.35	-201.9	1,581.1	2,046.7	1,984.1	62.59	32.701		
10,000.0	9,953.0	10,154.1	10,117.2	36.0	30.0	-162.45	-203.3	1,574.0	2,057.9	1,994.7	63.24	32.544		
10,100.0	10,050.9	10,228.6	10,191.5	36.4	30.3	-162.54	-204.4	1,568.5	2,070.2	2,006.4	63.85	32.421		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD, 3018-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,301.9	10,264.7	36.9	30.5	-162.63	-205.7	1,563.9	2,083.7	2,019.2	64.46	32.325		
10,300.0	10,246.7	10,446.1	10,408.5	37.3	31.0	-162.79	-208.5	1,554.5	2,097.0	2,031.7	65.30	32.114		
10,400.0	10,344.6	10,530.4	10,492.6	37.7	31.3	-162.88	-209.9	1,548.2	2,109.3	2,043.3	65.95	31.985		
10,500.0	10,442.4	10,614.9	10,576.8	38.1	31.6	-162.98	-211.3	1,542.6	2,122.3	2,055.7	66.59	31.870		
10,600.0	10,540.3	10,746.4	10,707.9	38.5	32.1	-163.12	-213.8	1,532.7	2,134.5	2,067.1	67.39	31.672		
10,700.0	10,638.2	10,837.3	10,798.6	39.0	32.4	-163.20	-216.3	1,525.8	2,146.6	2,078.5	68.07	31.535		
10,800.0	10,736.1	10,931.5	10,892.4	39.4	32.8	-163.26	-219.2	1,518.7	2,158.9	2,090.2	68.76	31.399		
10,900.0	10,833.9	11,007.5	10,968.2	39.8	33.0	-163.32	-221.4	1,513.4	2,171.8	2,102.4	69.38	31.301		
11,000.0	10,931.8	11,060.6	11,021.2	40.2	33.2	-163.38	-222.4	1,510.6	2,186.4	2,116.5	69.91	31.275		
11,100.0	11,029.7	11,134.4	11,095.0	40.7	33.5	-163.47	-223.2	1,508.2	2,202.8	2,132.3	70.50	31.246		
11,200.0	11,127.6	11,228.0	11,188.6	41.1	33.8	-163.58	-224.3	1,505.6	2,219.7	2,148.5	71.17	31.189		
11,300.0	11,225.5	11,315.0	11,275.5	41.5	34.1	-163.68	-225.5	1,503.3	2,236.8	2,165.0	71.81	31.149		
11,400.0	11,323.3	11,389.8	11,350.3	42.0	34.3	-163.75	-227.1	1,502.0	2,254.8	2,182.4	72.39	31.147		
11,500.0	11,421.2	11,466.5	11,426.9	42.4	34.5	-163.81	-229.0	1,501.5	2,273.9	2,200.9	72.97	31.161		
11,523.5	11,444.2	11,486.4	11,446.8	42.5	34.6	-163.83	-229.5	1,501.4	2,278.5	2,205.4	73.12	31.162		
11,600.0	11,519.2	11,546.0	11,506.4	42.8	34.8	-163.94	-230.9	1,501.5	2,292.9	2,219.4	73.56	31.172		
11,700.0	11,617.7	11,600.9	11,561.3	43.3	34.9	-164.14	-228.4	1,502.2	2,310.9	2,236.9	73.99	31.233		
11,800.0	11,716.7	11,646.6	11,606.6	43.7	35.0	-164.39	-223.3	1,503.9	2,328.6	2,254.3	74.33	31.328		
11,900.0	11,815.9	11,695.2	11,654.3	44.1	35.2	-164.71	-214.7	1,506.6	2,346.0	2,271.4	74.65	31.428		
12,000.0	11,915.5	11,740.8	11,698.4	44.4	35.3	-165.09	-203.2	1,510.0	2,363.1	2,288.2	74.90	31.549		
12,100.0	12,015.2	11,782.3	11,736.9	44.8	35.3	-165.53	-188.5	1,513.8	2,380.1	2,305.0	75.08	31.701		
12,200.0	12,115.1	11,864.8	11,808.0	45.2	35.4	-166.59	-147.7	1,522.0	2,397.0	2,321.5	75.44	31.772		
12,300.0	12,215.1	12,233.9	12,012.6	45.5	35.8	-173.85	152.3	1,511.1	2,406.6	2,329.6	77.01	31.252		
12,311.9	12,227.0	12,238.8	12,014.5	45.5	35.8	80.55	156.8	1,510.6	2,407.6	2,330.6	77.02	31.258		
12,400.0	12,315.1	12,274.8	12,029.1	45.8	35.8	79.76	189.4	1,506.4	2,416.7	2,339.6	77.15	31.325		
12,500.0	12,415.1	12,281.0	12,031.6	46.2	35.9	79.63	195.0	1,505.7	2,430.5	2,353.5	77.02	31.557		
12,600.0	12,515.1	12,307.9	12,042.0	46.5	35.9	79.04	219.6	1,502.8	2,447.9	2,370.9	76.93	31.818		
12,700.0	12,615.1	12,320.8	12,046.7	46.9	35.9	78.75	231.6	1,501.5	2,469.1	2,392.4	76.69	32.196		
12,711.9	12,627.0	12,322.3	12,047.2	46.9	35.9	78.72	233.0	1,501.3	2,471.8	2,395.2	76.65	32.247		
12,750.0	12,665.1	12,327.4	12,049.0	47.0	35.9	99.60	237.7	1,500.8	2,481.2	2,404.7	76.54	32.419		
12,800.0	12,714.8	12,334.9	12,051.6	47.2	36.0	98.03	244.7	1,500.1	2,495.0	2,418.6	76.38	32.666		
12,850.0	12,763.8	12,343.4	12,054.5	47.4	36.0	96.28	252.6	1,499.4	2,510.1	2,433.9	76.22	32.935		
12,900.0	12,811.8	12,374.0	12,064.2	47.5	36.0	93.97	281.6	1,496.9	2,526.8	2,450.6	76.20	33.161		
12,950.0	12,858.3	12,374.0	12,064.2	47.7	36.0	92.13	281.6	1,496.9	2,544.1	2,468.2	75.96	33.492		
13,000.0	12,903.1	12,374.0	12,064.2	47.8	36.0	90.16	281.6	1,496.9	2,562.4	2,486.7	75.72	33.839		
13,050.0	12,945.8	12,374.0	12,064.2	48.0	36.0	88.09	281.6	1,496.9	2,581.6	2,506.1	75.49	34.198		
13,100.0	12,986.1	12,374.0	12,064.2	48.1	36.0	85.93	281.6	1,496.9	2,601.4	2,526.2	75.27	34.563		
13,150.0	13,023.7	12,413.0	12,075.1	48.3	36.1	83.31	318.9	1,494.2	2,620.9	2,545.6	75.34	34.790		
13,200.0	13,058.2	12,427.0	12,078.6	48.4	36.2	81.01	332.5	1,493.4	2,640.9	2,565.7	75.25	35.097		
13,250.0	13,089.4	12,467.0	12,087.4	48.5	36.3	78.58	371.4	1,491.4	2,661.2	2,585.9	75.36	35.315		
13,300.0	13,117.2	12,467.0	12,087.4	48.7	36.3	76.53	371.4	1,491.4	2,680.6	2,605.4	75.22	35.639		
13,350.0	13,141.1	12,467.0	12,087.4	48.8	36.3	74.51	371.4	1,491.4	2,699.9	2,624.8	75.11	35.946		
13,400.0	13,161.2	12,492.8	12,092.1	48.9	36.4	72.51	396.8	1,490.2	2,718.5	2,643.3	75.21	36.144		
13,450.0	13,177.2	12,513.5	12,095.3	49.1	36.4	70.67	417.2	1,489.3	2,736.5	2,661.2	75.31	36.334		
13,500.0	13,189.1	12,534.2	12,098.0	49.2	36.5	68.98	437.7	1,488.3	2,753.5	2,678.0	75.45	36.494		
13,550.0	13,196.6	12,559.0	12,100.6	49.4	36.6	67.46	462.4	1,487.2	2,769.5	2,693.8	75.65	36.611		
13,600.0	13,199.8	12,584.9	12,102.6	49.6	36.7	66.12	488.2	1,485.9	2,784.3	2,708.4	75.89	36.687		
13,611.9	13,200.0	12,592.6	12,103.1	49.6	36.8	65.84	495.8	1,485.5	2,787.6	2,711.6	75.97	36.696		
13,700.0	13,200.0	12,653.0	12,105.4	50.0	37.0	66.24	556.1	1,482.1	2,811.1	2,734.6	76.54	36.729		
13,800.0	13,200.0	12,717.1	12,106.1	50.4	37.4	66.60	620.0	1,478.4	2,835.9	2,758.7	77.20	36.733		
13,900.0	13,200.0	12,818.9	12,106.5	50.9	37.9	66.99	721.7	1,473.0	2,858.3	2,780.1	78.19	36.555		
14,000.0	13,200.0	12,945.1	12,108.1	51.4	38.7	67.37	847.7	1,465.4	2,876.7	2,797.1	79.52	36.177		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD, 3018-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	13,018.7	12,109.1	52.0	39.3	67.60	921.2	1,461.0	2,891.9	2,811.4	80.47	35.938		
14,200.0	13,200.0	13,084.5	12,109.5	52.6	39.8	67.78	986.9	1,457.6	2,904.9	2,823.6	81.39	35.690		
14,300.0	13,200.0	13,235.2	12,110.1	53.2	41.0	67.99	1,137.4	1,449.8	2,915.0	2,831.7	83.29	34.999		
14,400.0	13,200.0	13,346.0	12,109.4	53.8	42.0	68.06	1,247.9	1,442.4	2,920.7	2,835.8	84.85	34.422		
14,500.0	13,200.0	13,495.9	12,109.5	54.5	43.4	68.08	1,397.2	1,429.9	2,921.1	2,834.1	87.00	33.574		
14,600.0	13,200.0	13,556.0	12,109.6	55.1	44.0	68.05	1,457.2	1,425.0	2,918.6	2,830.6	88.07	33.141		
14,687.2	13,200.0	13,593.0	12,110.3	55.7	44.3	68.03	1,494.1	1,422.7	2,915.1	2,826.3	88.80	32.829		
14,700.0	13,200.0	13,593.0	12,110.3	55.8	44.3	68.03	1,494.1	1,422.7	2,914.5	2,825.7	88.83	32.812		
14,800.0	13,200.0	13,655.3	12,111.4	56.5	45.0	68.03	1,556.3	1,419.9	2,910.8	2,820.8	89.97	32.353		
14,900.0	13,200.0	13,707.8	12,111.9	57.3	45.5	68.03	1,608.8	1,418.7	2,908.9	2,817.9	91.00	31.966		
15,000.0	13,200.0	13,783.0	12,111.1	58.1	46.3	68.01	1,684.0	1,417.4	2,908.3	2,815.9	92.39	31.479		
15,100.0	13,200.0	13,936.4	12,109.5	58.9	48.0	67.96	1,837.3	1,412.4	2,906.1	2,811.0	95.04	30.576		
15,200.0	13,200.0	14,097.1	12,110.3	59.7	49.8	67.93	1,997.8	1,405.7	2,902.6	2,804.6	97.96	29.631		
15,300.0	13,200.0	14,160.0	12,112.0	60.6	50.5	67.95	2,060.7	1,403.8	2,899.3	2,800.0	99.36	29.179		
15,400.0	13,200.0	14,215.0	12,113.7	61.6	51.2	67.98	2,115.7	1,403.0	2,897.4	2,796.7	100.66	28.783		
15,500.0	13,200.0	14,252.0	12,114.6	62.5	51.6	68.00	2,152.6	1,402.7	2,896.8	2,795.2	101.65	28.498		
15,513.5	13,200.0	14,276.5	12,115.0	62.6	51.9	68.00	2,177.2	1,402.6	2,896.7	2,794.6	102.14	28.361		
15,600.0	13,200.0	14,311.0	12,115.2	63.5	52.3	68.01	2,211.6	1,402.9	2,897.9	2,794.8	103.04	28.124		
15,700.0	13,200.0	14,346.0	12,114.8	64.5	52.7	68.01	2,246.6	1,403.7	2,901.2	2,797.2	103.99	27.898		
15,800.0	13,200.0	14,593.0	12,109.1	65.5	55.8	67.94	2,493.5	1,405.8	2,904.2	2,795.4	108.86	26.680		
15,900.0	13,200.0	14,748.3	12,109.1	66.6	57.8	67.92	2,648.7	1,402.4	2,903.0	2,790.9	112.15	25.884		
16,000.0	13,200.0	14,816.0	12,110.2	67.7	58.7	67.93	2,716.4	1,400.8	2,901.0	2,787.1	113.87	25.476		
16,075.5	13,200.0	14,851.8	12,111.0	68.5	59.1	67.95	2,752.1	1,400.5	2,900.4	2,785.5	114.89	25.246		
16,100.0	13,200.0	14,862.1	12,111.3	68.8	59.3	67.95	2,762.5	1,400.6	2,900.5	2,785.3	115.19	25.180		
16,200.0	13,200.0	14,911.0	12,112.8	69.9	59.9	67.99	2,811.3	1,401.7	2,902.0	2,785.4	116.57	24.895		
16,300.0	13,200.0	14,911.0	12,112.8	71.1	59.9	67.99	2,811.3	1,401.7	2,905.9	2,789.0	116.92	24.855		
16,400.0	13,200.0	14,964.3	12,113.5	72.3	60.6	68.03	2,864.5	1,404.4	2,911.7	2,793.3	118.35	24.601		
16,500.0	13,200.0	15,006.0	12,112.2	73.5	61.1	68.03	2,906.1	1,407.7	2,920.2	2,800.7	119.52	24.434		
16,600.0	13,200.0	15,107.2	12,107.7	74.7	62.4	68.02	3,006.8	1,416.0	2,930.3	2,808.3	121.95	24.029		
16,700.0	13,200.0	15,134.3	12,106.2	75.9	62.8	68.01	3,033.8	1,418.3	2,940.8	2,818.0	122.77	23.953		
16,800.0	13,200.0	15,667.0	12,089.7	77.1	70.1	67.85	3,564.1	1,433.0	2,945.6	2,811.3	134.37	21.922		
16,900.0	13,200.0	15,735.1	12,092.4	78.4	71.1	67.89	3,632.1	1,431.7	2,943.1	2,806.7	136.35	21.585		
17,000.0	13,200.0	16,001.7	12,100.3	79.7	75.0	67.96	3,898.3	1,419.3	2,938.4	2,796.1	142.33	20.644		
17,100.0	13,200.0	16,096.5	12,104.0	81.0	76.4	67.98	3,992.7	1,412.3	2,930.8	2,785.9	144.91	20.224		
17,200.0	13,200.0	16,166.7	12,107.5	82.3	77.4	68.01	4,062.6	1,407.9	2,923.8	2,776.8	147.04	19.885		
17,300.0	13,200.0	16,233.0	12,109.3	83.6	78.4	68.02	4,128.8	1,404.1	2,918.2	2,769.1	149.07	19.576		
17,400.0	13,200.0	16,309.8	12,110.7	84.9	79.6	68.02	4,205.6	1,400.2	2,913.5	2,762.2	151.30	19.256		
17,500.0	13,200.0	16,440.4	12,114.2	86.3	81.5	68.04	4,335.9	1,393.5	2,908.4	2,753.7	154.66	18.804		
17,600.0	13,200.0	16,499.8	12,116.1	87.6	82.4	68.06	4,395.2	1,390.7	2,903.6	2,747.0	156.59	18.543		
17,700.0	13,200.0	16,517.0	12,116.7	89.0	82.7	68.07	4,412.4	1,390.1	2,900.7	2,743.1	157.57	18.409		
17,787.7	13,200.0	16,568.9	12,117.2	90.2	83.4	68.07	4,464.2	1,388.9	2,899.5	2,740.3	159.20	18.214		
17,800.0	13,200.0	16,572.9	12,117.1	90.3	83.5	68.07	4,468.3	1,388.8	2,899.6	2,740.2	159.35	18.196		
17,900.0	13,200.0	16,611.0	12,115.4	91.7	84.1	68.04	4,506.3	1,388.5	2,901.0	2,740.4	160.66	18.057		
18,000.0	13,200.0	16,810.2	12,113.4	93.1	87.1	68.01	4,705.4	1,388.4	2,902.4	2,736.8	165.64	17.522		
18,100.0	13,200.0	16,931.7	12,120.0	94.5	88.9	68.13	4,826.7	1,387.0	2,899.8	2,730.8	169.01	17.158		
18,200.0	13,200.0	16,989.0	12,122.6	95.9	89.7	68.19	4,883.9	1,387.5	2,899.2	2,728.3	170.91	16.964		
18,207.4	13,200.0	16,989.0	12,122.6	96.0	89.7	68.19	4,883.9	1,387.5	2,899.2	2,728.3	170.95	16.960		
18,300.0	13,200.0	17,071.8	12,125.1	97.3	91.0	68.24	4,966.7	1,388.5	2,899.9	2,726.5	173.38	16.726		
18,400.0	13,200.0	17,192.1	12,126.0	98.7	92.8	68.26	5,087.0	1,388.0	2,899.9	2,723.3	176.67	16.414		
18,500.0	13,200.0	17,313.6	12,126.4	100.2	94.7	68.26	5,208.5	1,385.8	2,898.8	2,718.8	179.99	16.106		
18,600.0	13,200.0	17,437.8	12,125.2	101.6	96.6	68.23	5,332.6	1,383.0	2,897.9	2,714.5	183.33	15.807		
18,700.0	13,200.0	17,570.2	12,126.7	103.0	98.6	68.23	5,465.0	1,378.6	2,895.0	2,708.1	186.89	15.490		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD, 3018-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,800.0	13,200.0	17,635.8	12,128.0	104.5	99.6	68.24	5,530.5	1,376.9	2,892.5	2,703.5	189.02	15.303		
18,894.9	13,200.0	17,651.0	12,128.4	105.9	99.9	68.25	5,545.7	1,376.6	2,891.9	2,702.0	189.92	15.226		
18,900.0	13,200.0	17,678.1	12,128.8	105.9	100.3	68.26	5,572.8	1,376.4	2,891.6	2,701.0	190.59	15.172		
19,000.0	13,200.0	17,713.4	12,128.5	107.4	100.8	68.25	5,608.1	1,376.4	2,892.8	2,700.9	191.92	15.073		
19,100.0	13,200.0	17,879.0	12,123.8	108.9	103.4	68.18	5,773.6	1,376.6	2,895.1	2,698.8	196.27	14.750		
19,200.0	13,200.0	17,989.4	12,122.8	110.3	105.1	68.16	5,884.0	1,375.6	2,895.3	2,695.9	199.38	14.522		
19,273.1	13,200.0	18,050.7	12,122.3	111.4	106.0	68.15	5,945.3	1,374.6	2,895.0	2,693.8	201.20	14.389		
19,300.0	13,200.0	18,062.7	12,122.2	111.8	106.2	68.14	5,957.2	1,374.5	2,895.1	2,693.5	201.63	14.359		
19,400.0	13,200.0	18,122.0	12,121.1	113.3	107.2	68.13	6,016.6	1,374.8	2,896.8	2,693.3	203.53	14.233		
19,500.0	13,200.0	18,285.2	12,119.8	114.8	109.7	68.11	6,179.8	1,374.3	2,897.4	2,689.4	207.91	13.935		
19,600.0	13,200.0	19,600.0	12,119.8	116.3	130.4	68.09	6,357.1	1,370.5	2,896.2	2,666.7	229.53	12.618		
19,700.0	13,200.0	18,565.5	12,121.1	117.8	114.1	68.09	6,459.9	1,366.6	2,892.9	2,677.4	215.55	13.421		
19,800.0	13,200.0	18,633.7	12,121.3	119.3	115.2	68.09	6,528.1	1,364.5	2,890.6	2,672.9	217.77	13.274		
19,900.0	13,200.0	18,689.0	12,122.1	120.8	116.0	68.10	6,583.4	1,363.5	2,889.4	2,669.7	219.69	13.152		
19,906.9	13,200.0	18,689.0	12,122.1	120.9	116.0	68.10	6,583.4	1,363.5	2,889.4	2,669.7	219.73	13.150		
20,000.0	13,200.0	18,722.0	12,122.2	122.3	116.6	68.10	6,616.4	1,363.5	2,890.2	2,669.2	221.00	13.078		
20,100.0	13,200.0	18,748.8	12,121.6	123.8	117.0	68.09	6,643.2	1,364.0	2,893.5	2,671.5	222.04	13.031		
20,200.0	13,200.0	18,784.0	12,119.7	125.3	117.5	68.07	6,678.3	1,365.4	2,899.4	2,676.3	223.18	12.991		
20,300.0	13,200.0	18,994.8	12,116.4	126.8	120.8	68.08	6,888.8	1,372.6	2,903.5	2,674.4	229.08	12.675		
20,400.0	13,200.0	19,066.0	12,117.5	128.4	121.9	68.12	6,960.0	1,375.4	2,907.1	2,675.8	231.33	12.567		
20,500.0	13,200.0	19,261.1	12,113.2	129.9	125.0	68.06	7,155.0	1,376.7	2,909.1	2,672.5	236.60	12.295		
20,600.0	13,200.0	19,402.9	12,105.8	131.4	127.2	67.91	7,296.5	1,373.0	2,909.4	2,669.1	240.34	12.105		
20,700.0	13,200.0	19,524.7	12,102.8	132.9	129.2	67.83	7,418.2	1,369.1	2,908.1	2,664.4	243.71	11.933		
20,800.0	13,200.0	19,615.1	12,101.0	134.5	130.6	67.78	7,508.5	1,366.4	2,906.8	2,660.4	246.40	11.797		
20,900.0	13,200.0	19,736.0	12,100.9	136.0	132.5	67.77	7,629.4	1,363.7	2,905.4	2,655.6	249.82	11.630		
21,000.0	13,200.0	19,832.6	12,103.5	137.6	134.1	67.81	7,726.0	1,362.1	2,903.7	2,650.9	252.79	11.487		
21,100.0	13,200.0	19,931.8	12,105.9	139.1	135.7	67.85	7,825.1	1,360.6	2,902.1	2,646.3	255.80	11.345		
21,200.0	13,200.0	20,037.4	12,107.4	140.7	137.4	67.86	7,930.7	1,358.0	2,899.9	2,641.0	258.94	11.199		
21,300.0	13,200.0	20,105.0	12,107.3	142.2	138.4	67.86	7,998.3	1,356.7	2,898.8	2,637.6	261.17	11.099		
21,400.0	13,200.0	21,400.0	12,106.0	143.8	159.2	67.82	8,095.3	1,354.7	2,898.2	2,616.0	282.18	10.271		
21,450.4	13,200.0	20,234.0	12,105.5	144.5	140.5	67.81	8,127.2	1,354.1	2,897.9	2,632.8	265.10	10.932		
21,500.0	13,200.0	20,260.2	12,105.0	145.3	140.9	67.80	8,153.4	1,353.8	2,898.1	2,632.1	266.00	10.895		
21,600.0	13,200.0	20,323.3	12,103.7	146.9	141.9	67.78	8,216.5	1,353.9	2,899.7	2,631.6	268.04	10.818		
21,700.0	13,200.0	20,421.6	12,100.5	148.4	143.5	67.73	8,314.7	1,354.3	2,902.0	2,631.1	270.91	10.712		
21,800.0	13,200.0	20,550.6	12,097.5	150.0	145.6	67.68	8,443.8	1,354.0	2,903.3	2,628.7	274.56	10.574		
21,900.0	13,200.0	20,642.0	12,094.7	151.5	147.0	67.63	8,535.0	1,353.3	2,904.5	2,627.3	277.26	10.476		
22,000.0	13,200.0	20,714.8	12,092.2	153.1	148.2	67.59	8,607.8	1,353.2	2,906.3	2,626.8	279.50	10.398		
22,100.0	13,200.0	20,800.5	12,090.1	154.7	149.6	67.56	8,693.5	1,354.4	2,909.2	2,627.2	282.08	10.313		
22,200.0	13,200.0	20,927.3	12,090.8	156.2	151.6	67.60	8,820.3	1,356.6	2,911.3	2,625.5	285.84	10.185		
22,300.0	13,200.0	21,014.9	12,090.9	157.8	153.0	67.62	8,907.8	1,357.9	2,913.4	2,624.9	288.54	10.097		
22,400.0	13,200.0	21,175.3	12,091.2	159.4	155.5	67.64	9,068.2	1,359.4	2,915.0	2,621.9	293.10	9.945		
22,500.0	13,200.0	21,268.5	12,092.5	161.0	157.0	67.67	9,161.4	1,359.6	2,915.3	2,619.3	296.00	9.849		
22,600.0	13,200.0	21,362.2	12,092.3	162.5	158.5	67.67	9,255.1	1,359.4	2,916.0	2,617.2	298.86	9.757		
22,700.0	13,200.0	21,455.4	12,090.6	164.1	160.0	67.64	9,348.3	1,358.7	2,916.7	2,615.1	301.66	9.669		
22,800.0	13,200.0	21,593.4	12,086.4	165.7	162.2	67.57	9,486.2	1,357.6	2,918.1	2,612.6	305.47	9.553		
22,900.0	13,200.0	21,732.3	12,085.9	167.3	164.5	67.54	9,625.1	1,354.3	2,916.6	2,607.3	309.34	9.428		
23,000.0	13,200.0	21,827.0	12,084.3	168.9	166.0	67.49	9,719.7	1,351.4	2,915.2	2,603.0	312.17	9.338		
23,100.0	13,200.0	21,944.6	12,083.0	170.4	167.9	67.45	9,837.2	1,347.3	2,913.1	2,597.6	315.51	9.233		
23,200.0	13,200.0	22,032.4	12,081.1	172.0	169.4	67.39	9,924.9	1,344.1	2,911.2	2,593.1	318.18	9.150		
23,300.0	13,200.0	22,141.2	12,077.2	173.6	171.1	67.30	10,033.6	1,339.7	2,909.6	2,588.4	321.23	9.058		
23,400.0	13,200.0	22,232.6	12,074.0	175.2	172.6	67.21	10,113.7	1,336.0	2,907.7	2,583.9	323.84	8.979		
23,504.9	13,200.0	22,292.0	12,070.4	176.9	173.6	67.13	10,184.1	1,333.0	2,906.5	2,580.7	325.88	8.919 SF		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.09	-3.5	2,313.3	2,313.3					
100.0	100.0	90.3	90.3	0.1	0.1	90.09	-3.5	2,313.5	2,313.5	2,313.3	0.27	8,536.162		
200.0	200.0	180.6	180.6	0.5	0.3	90.08	-3.4	2,314.1	2,314.2	2,313.4	0.77	3,005.474		
300.0	300.0	272.4	272.4	0.8	0.5	90.08	-3.2	2,315.0	2,315.2	2,313.8	1.38	1,679.909		
400.0	400.0	370.3	370.3	1.2	0.9	90.08	-3.3	2,316.3	2,316.5	2,314.4	2.09	1,110.090		
500.0	500.0	481.7	481.7	1.6	1.3	90.09	-3.6	2,317.5	2,317.6	2,314.7	2.84	815.283		
600.0	600.0	603.7	603.7	1.9	1.7	90.10	-3.8	2,317.9	2,317.9	2,314.3	3.63	639.229		
700.0	700.0	716.8	716.8	2.3	2.1	90.11	-4.4	2,317.3	2,317.4	2,313.0	4.37	530.224		
800.0	800.0	824.5	824.5	2.6	2.5	90.13	-5.2	2,316.4	2,316.5	2,311.4	5.10	454.310		
900.0	900.0	922.2	922.1	3.0	2.8	90.14	-5.8	2,315.3	2,315.4	2,309.6	5.80	399.512		
1,000.0	1,000.0	1,017.1	1,017.1	3.4	3.1	90.16	-6.3	2,314.5	2,314.5	2,308.1	6.48	356.990		
1,100.0	1,100.0	1,345.4	1,344.7	3.7	4.3	90.10	-3.9	2,299.5	2,312.5	2,304.5	7.98	289.771		
1,200.0	1,200.0	1,442.3	1,441.1	4.1	4.6	90.06	-2.5	2,289.1	2,301.8	2,293.1	8.67	265.360		
1,300.0	1,300.0	1,536.7	1,534.9	4.4	5.0	90.04	-1.6	2,279.4	2,291.5	2,282.1	9.36	244.752		
1,400.0	1,400.0	1,631.0	1,628.8	4.8	5.3	90.02	-0.9	2,269.8	2,281.3	2,271.3	10.05	226.919		
1,500.0	1,500.0	1,715.3	1,712.7	5.1	5.6	90.02	-0.9	2,261.6	2,271.6	2,260.9	10.71	212.057		
1,600.0	1,600.0	1,804.1	1,801.1	5.5	6.0	90.07	-2.6	2,253.6	2,262.5	2,251.1	11.39	198.683		
1,700.0	1,700.0	1,894.4	1,891.1	5.9	6.3	90.11	-4.5	2,245.7	2,253.8	2,241.7	12.07	186.732		
1,800.0	1,800.0	1,981.6	1,977.9	6.2	6.6	90.16	-6.4	2,238.5	2,245.6	2,232.9	12.74	176.234		
1,900.0	1,900.0	2,090.7	2,086.7	6.6	7.0	90.23	-9.0	2,229.9	2,237.8	2,224.3	13.49	165.893		
2,000.0	2,000.0	2,199.5	2,195.0	6.9	7.4	90.32	-12.5	2,220.4	2,229.0	2,214.8	14.24	156.579		
2,100.0	2,100.0	2,292.5	2,287.6	7.3	7.8	90.41	-15.8	2,212.4	2,220.4	2,205.5	14.93	148.708		
2,200.0	2,200.0	2,379.0	2,373.8	7.7	8.1	90.50	-19.2	2,205.3	2,212.2	2,196.6	15.61	141.754		
2,300.0	2,300.0	2,462.3	2,456.7	8.0	8.4	90.58	-22.3	2,199.0	2,204.7	2,188.4	16.27	135.509		
2,400.0	2,400.0	2,546.4	2,540.5	8.4	8.8	90.66	-25.4	2,193.3	2,198.0	2,181.0	16.94	129.780		
2,500.0	2,500.0	2,687.2	2,680.9	8.7	9.3	90.81	-30.7	2,183.8	2,191.5	2,173.7	17.79	123.175		
2,600.0	2,600.0	2,775.1	2,768.5	9.1	9.6	90.90	-34.1	2,176.6	2,183.4	2,164.9	18.47	118.187		
2,700.0	2,700.0	2,855.6	2,848.6	9.4	9.9	90.99	-37.7	2,170.7	2,176.1	2,156.9	19.13	113.742		
2,800.0	2,800.0	2,930.1	2,922.9	9.8	10.2	91.09	-41.3	2,165.9	2,169.8	2,150.0	19.77	109.760		
2,900.0	2,900.0	3,010.6	3,003.2	10.2	10.5	91.19	-45.0	2,161.8	2,164.7	2,144.3	20.42	105.993		
3,000.0	3,000.0	3,135.6	3,128.1	10.5	11.0	91.28	-48.1	2,155.4	2,159.7	2,138.5	21.23	101.739		
3,100.0	3,100.0	3,230.3	3,222.6	10.9	11.3	91.31	-49.2	2,149.5	2,153.6	2,131.6	21.93	98.209		
3,200.0	3,200.0	3,320.8	3,312.9	11.2	11.6	91.32	-49.4	2,144.7	2,148.2	2,125.6	22.61	95.002		
3,300.0	3,300.0	3,489.8	3,481.5	11.6	12.3	91.21	-45.0	2,133.1	2,141.3	2,117.8	23.54	90.971		
3,400.0	3,400.0	3,635.0	3,625.9	12.0	12.8	91.06	-39.4	2,120.0	2,132.3	2,108.0	24.38	87.478		
3,500.0	3,500.0	3,719.4	3,709.9	12.3	13.1	91.05	-38.6	2,111.3	2,122.0	2,097.0	25.05	84.714		
3,600.0	3,600.0	3,794.1	3,784.2	12.7	13.4	91.08	-39.7	2,104.3	2,112.7	2,087.0	25.70	82.218		
3,700.0	3,700.0	3,933.3	3,922.8	13.0	13.9	91.22	-44.5	2,091.4	2,103.7	2,077.2	26.53	79.297		
3,800.0	3,800.0	4,037.4	4,026.0	13.4	14.4	91.43	-51.9	2,080.2	2,093.1	2,065.8	27.27	76.757		
3,900.0	3,900.0	4,124.1	4,111.9	13.8	14.7	91.63	-59.1	2,070.9	2,082.5	2,054.6	27.96	74.478		
4,000.0	4,000.0	4,202.0	4,189.2	14.1	15.0	91.80	-64.7	2,063.3	2,073.0	2,044.3	28.63	72.412		
4,100.0	4,100.0	4,294.9	4,281.6	14.5	15.4	91.92	-69.1	2,055.0	2,064.2	2,034.8	29.33	70.370		
4,200.0	4,200.0	4,378.9	4,365.3	14.8	15.7	91.99	-71.3	2,047.8	2,055.7	2,025.7	30.01	68.503		
4,300.0	4,300.0	4,519.0	4,504.8	15.2	16.2	92.08	-74.0	2,035.0	2,046.6	2,015.7	30.84	66.352		
4,400.0	4,400.0	4,616.5	4,601.7	15.5	16.6	92.15	-75.9	2,025.1	2,036.5	2,005.0	31.56	64.529		
4,500.0	4,500.0	4,705.1	4,689.9	15.9	17.0	92.21	-77.6	2,016.5	2,026.9	1,994.6	32.25	62.845		
4,600.0	4,600.0	4,791.7	4,776.1	16.3	17.3	92.26	-79.3	2,008.6	2,017.8	1,984.9	32.94	61.262		
4,700.0	4,700.0	4,879.6	4,863.7	16.6	17.6	92.32	-81.1	2,001.1	2,009.4	1,975.8	33.63	59.757		
4,800.0	4,800.0	4,996.2	4,979.9	17.0	18.1	92.40	-83.5	1,991.5	2,001.4	1,967.0	34.40	58.188		
4,900.0	4,900.0	5,150.1	5,132.9	17.3	18.7	92.51	-86.4	1,974.9	1,990.5	1,955.2	35.25	56.466		
5,000.0	5,000.0	5,246.8	5,228.9	17.7	19.1	92.57	-88.2	1,963.6	1,978.9	1,942.9	35.97	55.019		
5,100.0	5,100.0	5,340.3	5,321.7	18.1	19.4	92.64	-89.9	1,952.9	1,967.5	1,930.8	36.68	53.644		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,429.0	5,409.9	18.4	19.8	92.69	-91.5	1,943.1	1,956.5	1,919.1	37.37	52.348		
5,300.0	5,300.0	5,513.2	5,493.6	18.8	20.1	92.75	-92.9	1,934.3	1,946.2	1,908.1	38.06	51.134		
5,400.0	5,400.0	5,608.9	5,588.9	19.1	20.5	92.81	-94.4	1,924.8	1,936.3	1,897.5	38.77	49.940		
5,500.0	5,500.0	5,699.0	5,678.5	19.5	20.8	92.86	-95.7	1,916.1	1,926.8	1,887.3	39.47	48.816		
5,600.0	5,600.0	5,791.0	5,770.1	19.8	21.2	92.91	-96.9	1,907.7	1,917.7	1,877.6	40.17	47.738		
5,700.0	5,700.0	5,884.4	5,863.1	20.2	21.6	92.95	-97.8	1,899.5	1,909.0	1,868.2	40.88	46.702		
5,800.0	5,800.0	5,979.5	5,957.9	20.6	21.9	92.99	-98.7	1,891.5	1,900.6	1,859.0	41.59	45.704		
5,900.0	5,900.0	6,069.8	6,047.9	20.9	22.3	93.02	-99.5	1,884.1	1,892.5	1,850.3	42.28	44.762		
6,000.0	6,000.0	6,166.1	6,143.9	21.3	22.6	93.06	-100.2	1,876.7	1,884.8	1,841.9	42.99	43.844		
6,100.0	6,100.0	6,261.2	6,238.7	21.6	23.0	93.09	-100.8	1,869.5	1,877.3	1,833.6	43.70	42.963		
6,200.0	6,200.0	6,417.0	6,393.8	22.0	23.6	93.15	-102.2	1,855.3	1,868.2	1,823.7	44.55	41.932		
6,300.0	6,300.0	6,521.5	6,497.7	22.4	24.0	93.21	-103.5	1,844.1	1,857.6	1,812.3	45.29	41.019		
6,400.0	6,400.0	6,614.1	6,589.9	22.7	24.4	93.25	-104.3	1,834.3	1,847.1	1,801.1	45.99	40.160		
6,500.0	6,500.0	6,707.3	6,682.6	23.1	24.7	93.30	-105.4	1,824.9	1,837.0	1,790.3	46.70	39.334		
6,600.0	6,600.0	6,803.1	6,777.8	23.4	25.1	93.40	-107.7	1,815.3	1,827.2	1,779.8	47.42	38.533		
6,700.0	6,700.0	6,896.4	6,870.6	23.8	25.5	93.49	-110.2	1,806.2	1,817.6	1,769.4	48.13	37.765		
6,800.0	6,800.0	6,988.8	6,962.6	24.1	25.8	93.58	-112.5	1,797.6	1,808.4	1,759.6	48.84	37.029		
6,900.0	6,900.0	7,082.8	7,056.2	24.5	26.2	93.66	-114.6	1,789.1	1,799.6	1,750.0	49.55	36.320		
7,000.0	7,000.0	7,178.3	7,151.3	24.9	26.6	93.75	-116.6	1,780.8	1,791.0	1,740.8	50.26	35.634		
7,100.0	7,100.0	7,271.6	7,244.3	25.2	26.9	-160.71	-118.6	1,772.9	1,783.5	1,732.6	50.96	35.000		
7,200.0	7,200.0	7,360.9	7,333.3	25.5	27.3	-160.67	-120.8	1,765.8	1,778.2	1,726.5	51.63	34.439		
7,300.0	7,299.9	7,473.5	7,445.5	25.9	27.7	-160.63	-123.6	1,757.1	1,774.8	1,722.4	52.37	33.891		
7,400.0	7,399.7	7,579.5	7,551.1	26.2	28.1	-160.60	-126.3	1,747.8	1,772.0	1,718.9	53.09	33.380		
7,488.5	7,487.9	7,658.9	7,630.1	26.5	28.4	-160.59	-128.3	1,741.0	1,771.1	1,717.4	53.69	32.990 CC		
7,500.0	7,499.4	7,669.0	7,640.2	26.6	28.5	-160.59	-128.6	1,740.2	1,771.1	1,717.3	53.76	32.942 ES		
7,600.0	7,598.9	7,762.2	7,733.1	26.9	28.8	-160.59	-130.8	1,732.8	1,772.4	1,718.0	54.45	32.552		
7,700.0	7,698.3	7,859.1	7,829.7	27.2	29.2	-160.61	-133.1	1,725.4	1,775.6	1,720.5	55.14	32.200		
7,800.0	7,797.4	7,951.6	7,921.9	27.6	29.5	-160.64	-135.1	1,718.6	1,780.8	1,724.9	55.83	31.899		
7,900.0	7,896.3	8,059.7	8,029.7	27.9	29.9	-160.68	-137.9	1,710.7	1,787.6	1,731.1	56.55	31.612		
8,000.0	7,994.9	8,152.4	8,122.0	28.3	30.3	-160.71	-140.6	1,703.7	1,796.0	1,738.7	57.23	31.381		
8,100.0	8,093.3	8,285.0	8,254.2	28.6	30.8	-160.83	-143.2	1,693.4	1,805.7	1,747.7	58.01	31.125		
8,182.6	8,174.2	8,412.0	8,380.5	28.9	31.3	-161.00	-144.8	1,679.8	1,812.3	1,753.6	58.68	30.886		
8,200.0	8,191.3	8,431.9	8,400.2	29.0	31.4	-161.03	-145.0	1,677.5	1,813.7	1,754.9	58.80	30.843		
8,300.0	8,289.1	8,516.8	8,484.6	29.4	31.7	-161.16	-146.0	1,667.9	1,822.0	1,762.5	59.48	30.630		
8,400.0	8,387.0	8,603.0	8,570.3	29.7	32.1	-161.29	-147.0	1,659.0	1,831.2	1,771.0	60.16	30.437		
8,500.0	8,484.9	8,688.9	8,655.8	30.1	32.4	-161.42	-148.2	1,650.6	1,841.1	1,780.2	60.84	30.262		
8,600.0	8,582.8	8,774.3	8,740.9	30.5	32.7	-161.54	-149.4	1,642.9	1,851.7	1,790.2	61.51	30.105		
8,700.0	8,680.6	8,859.2	8,825.4	30.9	33.1	-161.66	-150.7	1,635.9	1,863.1	1,800.9	62.18	29.965		
8,800.0	8,778.5	8,969.1	8,935.0	31.2	33.5	-161.79	-153.0	1,627.4	1,875.1	1,812.2	62.91	29.806		
8,900.0	8,876.4	9,066.9	9,032.4	31.6	33.8	-161.89	-155.8	1,618.7	1,885.9	1,822.3	63.62	29.646		
9,000.0	8,974.3	9,163.5	9,128.6	32.0	34.2	-161.99	-158.4	1,610.9	1,897.6	1,833.3	64.32	29.503		
9,100.0	9,072.1	9,249.8	9,214.6	32.4	34.5	-162.10	-159.7	1,603.9	1,909.2	1,844.2	64.99	29.376		
9,200.0	9,170.0	9,362.7	9,327.2	32.8	35.0	-162.27	-160.9	1,595.6	1,921.5	1,855.8	65.74	29.231		
9,300.0	9,267.9	9,453.8	9,418.0	33.2	35.3	-162.37	-163.2	1,588.0	1,932.9	1,866.5	66.43	29.100		
9,400.0	9,365.8	9,580.1	9,543.8	33.6	35.8	-162.50	-166.1	1,577.6	1,944.6	1,877.3	67.21	28.932		
9,500.0	9,463.7	9,657.4	9,620.9	34.0	36.1	-162.61	-167.1	1,571.0	1,955.7	1,887.8	67.87	28.817		
9,600.0	9,561.5	9,773.2	9,736.2	34.4	36.6	-162.75	-169.0	1,561.3	1,967.0	1,898.4	68.62	28.664		
9,700.0	9,659.4	9,873.6	9,836.1	34.8	36.9	-162.85	-171.6	1,552.3	1,977.9	1,908.5	69.35	28.522		
9,800.0	9,757.3	9,969.9	9,932.0	35.2	37.3	-162.93	-174.4	1,543.6	1,988.6	1,918.6	70.06	28.386		
9,900.0	9,855.2	10,053.9	10,015.7	35.6	37.6	-163.00	-176.9	1,536.5	2,000.0	1,929.3	70.73	28.276		
10,000.0	9,953.0	10,168.8	10,130.1	36.0	38.1	-163.09	-180.4	1,526.5	2,011.0	1,939.5	71.50	28.127		
10,100.0	10,050.9	10,263.3	10,224.2	36.4	38.5	-163.16	-183.3	1,518.5	2,022.3	1,950.1	72.21	28.007		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,367.5	10,327.9	36.9	38.9	-163.25	-186.2	1,508.9	2,032.9	1,959.9	72.94	27.870		
10,300.0	10,246.7	10,445.9	10,406.0	37.3	39.2	-163.31	-188.4	1,502.5	2,044.5	1,970.9	73.60	27.778		
10,400.0	10,344.6	10,562.9	10,522.7	37.7	39.6	-163.43	-190.9	1,493.0	2,056.2	1,981.8	74.38	27.646		
10,500.0	10,442.4	10,680.7	10,639.9	38.1	40.1	-163.54	-193.9	1,482.0	2,066.6	1,991.5	75.15	27.500		
10,600.0	10,540.3	10,766.6	10,725.4	38.5	40.4	-163.60	-196.3	1,474.0	2,077.1	2,001.2	75.84	27.388		
10,700.0	10,638.2	10,835.7	10,794.1	39.0	40.7	-163.64	-198.8	1,468.2	2,088.5	2,012.1	76.47	27.312		
10,800.0	10,736.1	10,897.3	10,855.6	39.4	40.9	-163.67	-201.2	1,464.1	2,101.8	2,024.7	77.06	27.275		
10,900.0	10,833.9	10,984.8	10,942.9	39.8	41.2	-163.71	-204.7	1,459.3	2,116.1	2,038.4	77.73	27.223 SF		
11,000.0	10,931.8	11,046.9	11,004.9	40.2	41.5	-163.76	-206.7	1,456.6	2,131.6	2,053.3	78.29	27.226		
11,100.0	11,029.7	11,120.1	11,078.0	40.7	41.7	-163.84	-208.0	1,454.7	2,148.7	2,069.8	78.88	27.238		
11,200.0	11,127.6	11,206.1	11,164.0	41.1	42.0	-163.94	-209.1	1,452.9	2,166.3	2,086.8	79.53	27.239		
11,300.0	11,225.5	11,281.8	11,239.7	41.5	42.3	-164.04	-209.5	1,452.1	2,185.0	2,104.8	80.12	27.271		
11,400.0	11,323.3	11,370.7	11,328.6	42.0	42.6	-164.16	-209.9	1,451.7	2,204.3	2,123.5	80.77	27.290		
11,500.0	11,421.2	11,461.2	11,419.1	42.4	42.9	-164.27	-211.0	1,451.7	2,224.0	2,142.6	81.42	27.314		
11,523.5	11,444.2	11,468.0	11,425.9	42.5	42.9	-164.28	-211.1	1,451.7	2,228.8	2,147.3	81.50	27.348		
11,600.0	11,519.2	11,468.0	11,425.9	42.8	42.9	-164.34	-211.1	1,451.7	2,245.0	2,163.5	81.56	27.527		
11,700.0	11,617.7	11,468.0	11,425.9	43.3	42.9	-164.44	-211.1	1,451.7	2,267.9	2,186.3	81.52	27.818		
11,800.0	11,716.7	11,468.0	11,425.9	43.7	42.9	-164.54	-211.1	1,451.7	2,292.4	2,211.0	81.37	28.173		
11,900.0	11,815.9	11,468.0	11,425.9	44.1	42.9	-164.65	-211.1	1,451.7	2,318.6	2,237.5	81.10	28.590		
12,000.0	11,915.5	11,468.0	11,425.9	44.4	42.9	-164.76	-211.1	1,451.7	2,346.3	2,265.6	80.72	29.068		
12,100.0	12,015.2	11,468.0	11,425.9	44.8	42.9	-164.88	-211.1	1,451.7	2,375.5	2,295.3	80.24	29.607		
12,200.0	12,115.1	11,468.0	11,425.9	45.2	42.9	-165.01	-211.1	1,451.7	2,406.2	2,326.5	79.66	30.205		
12,300.0	12,215.1	11,468.0	11,425.9	45.5	42.9	-165.14	-211.1	1,451.7	2,438.2	2,359.2	79.00	30.862		
12,311.9	12,227.0	11,468.0	11,425.9	45.5	42.9	89.36	-211.1	1,451.7	2,442.1	2,363.2	78.92	30.944		
12,400.0	12,315.1	11,468.0	11,425.9	45.8	42.9	89.36	-211.1	1,451.7	2,472.4	2,394.1	78.27	31.587		
12,500.0	12,415.1	11,468.0	11,425.9	46.2	42.9	89.36	-211.1	1,451.7	2,510.1	2,432.6	77.49	32.393		
12,600.0	12,515.1	11,468.0	11,425.9	46.5	42.9	89.36	-211.1	1,451.7	2,551.2	2,474.5	76.66	33.279		
12,700.0	12,615.1	11,468.0	11,425.9	46.9	42.9	89.36	-211.1	1,451.7	2,595.4	2,519.6	75.80	34.242		
12,711.9	12,627.0	11,468.0	11,425.9	46.9	42.9	89.36	-211.1	1,451.7	2,600.9	2,525.2	75.69	34.361		
12,750.0	12,665.1	11,468.0	11,425.9	47.0	42.9	109.36	-211.1	1,451.7	2,619.1	2,543.8	75.36	34.754		
12,800.0	12,714.8	11,468.0	11,425.9	47.2	42.9	106.52	-211.1	1,451.7	2,644.7	2,569.8	74.94	35.293		
12,850.0	12,763.8	11,468.0	11,425.9	47.4	42.9	103.37	-211.1	1,451.7	2,672.1	2,597.6	74.52	35.855		
12,900.0	12,811.8	11,468.0	11,425.9	47.5	42.9	99.91	-211.1	1,451.7	2,700.9	2,626.8	74.13	36.434		
12,950.0	12,858.3	11,468.0	11,425.9	47.7	42.9	96.19	-211.1	1,451.7	2,730.9	2,657.2	73.76	37.022		
13,000.0	12,903.1	11,468.0	11,425.9	47.8	42.9	92.26	-211.1	1,451.7	2,761.9	2,688.5	73.43	37.615		
13,050.0	12,945.8	11,468.0	11,425.9	48.0	42.9	88.17	-211.1	1,451.7	2,793.6	2,720.5	73.12	38.204		
13,100.0	12,986.1	11,468.0	11,425.9	48.1	42.9	83.99	-211.1	1,451.7	2,825.7	2,752.8	72.86	38.783		
13,150.0	13,023.7	11,468.0	11,425.9	48.3	42.9	79.81	-211.1	1,451.7	2,857.9	2,785.3	72.64	39.346		
13,200.0	13,058.2	11,468.0	11,425.9	48.4	42.9	75.71	-211.1	1,451.7	2,890.1	2,817.6	72.46	39.886		
13,250.0	13,089.4	11,468.0	11,425.9	48.5	42.9	71.74	-211.1	1,451.7	2,922.0	2,849.6	72.33	40.397		
13,300.0	13,117.2	11,468.0	11,425.9	48.7	42.9	67.97	-211.1	1,451.7	2,953.3	2,881.0	72.25	40.874		
13,350.0	13,141.1	11,468.0	11,425.9	48.8	42.9	64.44	-211.1	1,451.7	2,983.8	2,911.6	72.23	41.311		
13,400.0	13,161.2	11,468.0	11,425.9	48.9	42.9	61.17	-211.1	1,451.7	3,013.4	2,941.2	72.26	41.703		
13,450.0	13,177.2	11,468.0	11,425.9	49.1	42.9	58.19	-211.1	1,451.7	3,041.8	2,969.5	72.34	42.048		
13,500.0	13,189.1	11,468.0	11,425.9	49.2	42.9	55.50	-211.1	1,451.7	3,068.9	2,996.4	72.48	42.341		
13,550.0	13,196.6	11,468.0	11,425.9	49.4	42.9	53.08	-211.1	1,451.7	3,094.5	3,021.8	72.67	42.581		
13,600.0	13,199.8	11,468.0	11,425.9	49.6	42.9	50.93	-211.1	1,451.7	3,118.4	3,045.5	72.92	42.766		
13,611.9	13,200.0	11,468.0	11,425.9	49.6	42.9	50.46	-211.1	1,451.7	3,123.8	3,050.8	72.98	42.803		
13,700.0	13,200.0	11,468.0	11,425.9	50.0	42.9	51.03	-211.1	1,451.7	3,163.7	3,090.2	73.48	43.052		
13,800.0	13,200.0	11,468.0	11,425.9	50.4	42.9	51.66	-211.1	1,451.7	3,209.0	3,134.9	74.06	43.328		
13,900.0	13,200.0	11,468.0	11,425.9	50.9	42.9	52.29	-211.1	1,451.7	3,254.3	3,179.7	74.64	43.598		
14,000.0	13,200.0	11,468.0	11,425.9	51.4	42.9	52.91	-211.1	1,451.7	3,299.7	3,224.4	75.23	43.862		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	11,468.0	11,425.9	52.0	42.9	53.52	-211.1	1,451.7	3,344.9	3,269.1	75.81	44.122		
14,200.0	13,200.0	11,468.0	11,425.9	52.6	42.9	54.11	-211.1	1,451.7	3,390.1	3,313.7	76.39	44.377		
14,300.0	13,200.0	11,468.0	11,425.9	53.2	42.9	54.70	-211.1	1,451.7	3,435.0	3,358.1	76.97	44.629		
14,400.0	13,200.0	11,468.0	11,425.9	53.8	42.9	55.27	-211.1	1,451.7	3,479.8	3,402.2	77.54	44.877		
14,500.0	13,200.0	11,468.0	11,425.9	54.5	42.9	55.84	-211.1	1,451.7	3,524.2	3,446.1	78.10	45.122		
14,600.0	13,200.0	11,468.0	11,425.9	55.1	42.9	56.38	-211.1	1,451.7	3,568.4	3,489.7	78.66	45.364		
14,687.2	13,200.0	11,468.0	11,425.9	55.7	42.9	56.85	-211.1	1,451.7	3,606.6	3,527.5	79.14	45.572		
14,700.0	13,200.0	11,468.0	11,425.9	55.8	42.9	56.85	-211.1	1,451.7	3,612.2	3,533.0	79.21	45.603		
14,800.0	13,200.0	11,468.0	11,425.9	56.5	42.9	56.85	-211.1	1,451.7	3,657.3	3,577.5	79.76	45.852		
14,900.0	13,200.0	11,468.0	11,425.9	57.3	42.9	56.85	-211.1	1,451.7	3,704.5	3,624.2	80.32	46.121		
15,000.0	13,200.0	11,468.0	11,425.9	58.1	42.9	56.85	-211.1	1,451.7	3,753.8	3,672.9	80.88	46.411		
15,100.0	13,200.0	11,468.0	11,425.9	58.9	42.9	56.85	-211.1	1,451.7	3,805.1	3,723.6	81.44	46.721		
15,200.0	13,200.0	11,468.0	11,425.9	59.7	42.9	56.85	-211.1	1,451.7	3,858.3	3,776.3	82.00	47.052		
15,300.0	13,200.0	11,468.0	11,425.9	60.6	42.9	56.85	-211.1	1,451.7	3,913.3	3,830.7	82.55	47.404		
15,400.0	13,200.0	11,468.0	11,425.9	61.6	42.9	56.85	-211.1	1,451.7	3,970.1	3,887.0	83.10	47.775		
15,500.0	13,200.0	11,468.0	11,425.9	62.5	42.9	56.85	-211.1	1,451.7	4,028.5	3,944.9	83.64	48.167		
15,600.0	13,200.0	11,468.0	11,425.9	63.5	42.9	56.85	-211.1	1,451.7	4,088.6	4,004.4	84.17	48.578		
15,700.0	13,200.0	11,468.0	11,425.9	64.5	42.9	56.85	-211.1	1,451.7	4,150.2	4,065.5	84.69	49.008		
15,800.0	13,200.0	11,468.0	11,425.9	65.5	42.9	56.85	-211.1	1,451.7	4,213.3	4,128.1	85.19	49.456		
15,900.0	13,200.0	11,468.0	11,425.9	66.6	42.9	56.85	-211.1	1,451.7	4,277.8	4,192.1	85.69	49.922		
16,000.0	13,200.0	11,468.0	11,425.9	67.7	42.9	56.85	-211.1	1,451.7	4,343.6	4,257.5	86.17	50.405		
16,100.0	13,200.0	11,468.0	11,425.9	68.8	42.9	56.85	-211.1	1,451.7	4,410.7	4,324.1	86.65	50.906		
16,200.0	13,200.0	11,468.0	11,425.9	69.9	42.9	56.85	-211.1	1,451.7	4,479.1	4,392.0	87.11	51.422		
16,300.0	13,200.0	11,468.0	11,425.9	71.1	42.9	56.85	-211.1	1,451.7	4,548.6	4,461.1	87.55	51.953		
16,400.0	13,200.0	11,468.0	11,425.9	72.3	42.9	56.85	-211.1	1,451.7	4,619.3	4,531.3	87.99	52.500		
16,500.0	13,200.0	11,468.0	11,425.9	73.5	42.9	56.85	-211.1	1,451.7	4,691.0	4,602.6	88.41	53.061		
16,600.0	13,200.0	11,468.0	11,425.9	74.7	42.9	56.85	-211.1	1,451.7	4,763.7	4,674.9	88.82	53.635		
16,700.0	13,200.0	11,468.0	11,425.9	75.9	42.9	56.85	-211.1	1,451.7	4,837.4	4,748.2	89.21	54.222		
16,800.0	13,200.0	11,468.0	11,425.9	77.1	42.9	56.85	-211.1	1,451.7	4,912.0	4,822.4	89.60	54.822		
16,900.0	13,200.0	11,468.0	11,425.9	78.4	42.9	56.85	-211.1	1,451.7	4,987.5	4,897.6	89.97	55.434		
17,000.0	13,200.0	11,468.0	11,425.9	79.7	42.9	56.85	-211.1	1,451.7	5,063.9	4,973.6	90.34	56.057		
17,100.0	13,200.0	11,468.0	11,425.9	81.0	42.9	56.85	-211.1	1,451.7	5,141.1	5,050.4	90.69	56.690		
17,200.0	13,200.0	11,468.0	11,425.9	82.3	42.9	56.85	-211.1	1,451.7	5,219.0	5,128.0	91.03	57.335		
17,300.0	13,200.0	11,468.0	11,425.9	83.6	42.9	56.85	-211.1	1,451.7	5,297.7	5,206.4	91.36	57.988		
17,400.0	13,200.0	11,468.0	11,425.9	84.9	42.9	56.85	-211.1	1,451.7	5,377.1	5,285.4	91.68	58.652		
17,500.0	13,200.0	11,468.0	11,425.9	86.3	42.9	56.85	-211.1	1,451.7	5,457.2	5,365.2	91.99	59.324		
17,600.0	13,200.0	11,468.0	11,425.9	87.6	42.9	56.85	-211.1	1,451.7	5,537.9	5,445.6	92.29	60.004		
17,700.0	13,200.0	11,468.0	11,425.9	89.0	42.9	56.85	-211.1	1,451.7	5,619.3	5,526.7	92.59	60.693		
17,800.0	13,200.0	11,468.0	11,425.9	90.3	42.9	56.85	-211.1	1,451.7	5,701.2	5,608.3	92.87	61.389		
17,900.0	13,200.0	11,468.0	11,425.9	91.7	42.9	56.85	-211.1	1,451.7	5,783.7	5,690.6	93.15	62.092		
18,000.0	13,200.0	11,468.0	11,425.9	93.1	42.9	56.85	-211.1	1,451.7	5,866.8	5,773.4	93.42	62.802		
18,100.0	13,200.0	11,468.0	11,425.9	94.5	42.9	56.85	-211.1	1,451.7	5,950.4	5,856.7	93.68	63.519		
18,200.0	13,200.0	11,468.0	11,425.9	95.9	42.9	56.85	-211.1	1,451.7	6,034.4	5,940.5	93.93	64.242		
18,300.0	13,200.0	11,468.0	11,425.9	97.3	42.9	56.85	-211.1	1,451.7	6,119.0	6,024.8	94.18	64.971		
18,400.0	13,200.0	11,468.0	11,425.9	98.7	42.9	56.85	-211.1	1,451.7	6,204.0	6,109.6	94.42	65.705		
18,500.0	13,200.0	11,468.0	11,425.9	100.2	42.9	56.85	-211.1	1,451.7	6,289.4	6,194.8	94.66	66.444		
18,600.0	13,200.0	11,468.0	11,425.9	101.6	42.9	56.85	-211.1	1,451.7	6,375.3	6,280.4	94.89	67.189		
18,700.0	13,200.0	11,468.0	11,425.9	103.0	42.9	56.85	-211.1	1,451.7	6,461.6	6,366.5	95.11	67.938		
18,800.0	13,200.0	11,468.0	11,425.9	104.5	42.9	56.85	-211.1	1,451.7	6,548.3	6,452.9	95.33	68.692		
18,900.0	13,200.0	11,468.0	11,425.9	105.9	42.9	56.85	-211.1	1,451.7	6,635.3	6,539.8	95.54	69.449		
19,000.0	13,200.0	11,468.0	11,425.9	107.4	42.9	56.85	-211.1	1,451.7	6,722.7	6,627.0	95.75	70.211		
19,100.0	13,200.0	11,468.0	11,425.9	108.9	42.9	56.85	-211.1	1,451.7	6,810.5	6,714.5	95.95	70.976		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	13,200.0	11,468.0	11,425.9	110.3	42.9	56.85	-211.1	1,451.7	6,898.6	6,802.4	96.15	71.745		
19,300.0	13,200.0	11,468.0	11,425.9	111.8	42.9	56.85	-211.1	1,451.7	6,987.0	6,890.6	96.35	72.517		
19,400.0	13,200.0	11,468.0	11,425.9	113.3	42.9	56.85	-211.1	1,451.7	7,075.7	6,979.2	96.54	73.293		
19,500.0	13,200.0	11,468.0	11,425.9	114.8	42.9	56.85	-211.1	1,451.7	7,164.7	7,068.0	96.73	74.071		
19,600.0	13,200.0	11,468.0	11,425.9	116.3	42.9	56.85	-211.1	1,451.7	7,254.0	7,157.1	96.91	74.852		
19,700.0	13,200.0	11,468.0	11,425.9	117.8	42.9	56.85	-211.1	1,451.7	7,343.6	7,246.5	97.09	75.635		
19,800.0	13,200.0	11,468.0	11,425.9	119.3	42.9	56.85	-211.1	1,451.7	7,433.4	7,336.2	97.27	76.421		
19,900.0	13,200.0	11,468.0	11,425.9	120.8	42.9	56.85	-211.1	1,451.7	7,523.5	7,426.1	97.44	77.209		
20,000.0	13,200.0	11,468.0	11,425.9	122.3	42.9	56.85	-211.1	1,451.7	7,613.9	7,516.3	97.62	77.999		
20,100.0	13,200.0	11,468.0	11,425.9	123.8	42.9	56.85	-211.1	1,451.7	7,704.5	7,606.7	97.78	78.791		
20,200.0	13,200.0	11,468.0	11,425.9	125.3	42.9	56.85	-211.1	1,451.7	7,795.3	7,697.3	97.95	79.585		
20,300.0	13,200.0	11,468.0	11,425.9	126.8	42.9	56.85	-211.1	1,451.7	7,886.3	7,788.2	98.11	80.380		
20,400.0	13,200.0	11,468.0	11,425.9	128.4	42.9	56.85	-211.1	1,451.7	7,977.6	7,879.3	98.27	81.177		
20,500.0	13,200.0	11,468.0	11,425.9	129.9	42.9	56.85	-211.1	1,451.7	8,069.0	7,970.6	98.43	81.975		
20,600.0	13,200.0	11,468.0	11,425.9	131.4	42.9	56.85	-211.1	1,451.7	8,160.7	8,062.1	98.59	82.775		
20,700.0	13,200.0	11,468.0	11,425.9	132.9	42.9	56.85	-211.1	1,451.7	8,252.5	8,153.8	98.74	83.575		
20,800.0	13,200.0	11,468.0	11,425.9	134.5	42.9	56.85	-211.1	1,451.7	8,344.6	8,245.7	98.90	84.377		
20,900.0	13,200.0	11,468.0	11,425.9	136.0	42.9	56.85	-211.1	1,451.7	8,436.8	8,337.8	99.05	85.180		
21,000.0	13,200.0	11,468.0	11,425.9	137.6	42.9	56.85	-211.1	1,451.7	8,529.2	8,430.0	99.20	85.983		
21,100.0	13,200.0	11,468.0	11,425.9	139.1	42.9	56.85	-211.1	1,451.7	8,621.8	8,522.4	99.34	86.787		
21,200.0	13,200.0	11,468.0	11,425.9	140.7	42.9	56.85	-211.1	1,451.7	8,714.5	8,615.0	99.49	87.592		
21,300.0	13,200.0	11,468.0	11,425.9	142.2	42.9	56.85	-211.1	1,451.7	8,807.4	8,707.7	99.63	88.397		
21,400.0	13,200.0	11,468.0	11,425.9	143.8	42.9	56.85	-211.1	1,451.7	8,900.4	8,800.6	99.78	89.203		
21,500.0	13,200.0	11,468.0	11,425.9	145.3	42.9	56.85	-211.1	1,451.7	8,993.6	8,893.7	99.92	90.009		
21,600.0	13,200.0	11,468.0	11,425.9	146.9	42.9	56.85	-211.1	1,451.7	9,087.0	8,986.9	100.06	90.815		
21,700.0	13,200.0	11,468.0	11,425.9	148.4	42.9	56.85	-211.1	1,451.7	9,180.4	9,080.2	100.20	91.622		
21,800.0	13,200.0	11,468.0	11,425.9	150.0	42.9	56.85	-211.1	1,451.7	9,274.0	9,173.7	100.34	92.428		
21,900.0	13,200.0	11,468.0	11,425.9	151.5	42.9	56.85	-211.1	1,451.7	9,367.8	9,267.3	100.48	93.235		
22,000.0	13,200.0	11,468.0	11,425.9	153.1	42.9	56.85	-211.1	1,451.7	9,461.7	9,361.1	100.61	94.042		
22,100.0	13,200.0	11,468.0	11,425.9	154.7	42.9	56.85	-211.1	1,451.7	9,555.7	9,454.9	100.75	94.848		
22,200.0	13,200.0	11,468.0	11,425.9	156.2	42.9	56.85	-211.1	1,451.7	9,649.8	9,548.9	100.88	95.655		
22,300.0	13,200.0	11,468.0	11,425.9	157.8	42.9	56.85	-211.1	1,451.7	9,744.0	9,643.0	101.02	96.461		
22,400.0	13,200.0	11,468.0	11,425.9	159.4	42.9	56.85	-211.1	1,451.7	9,838.4	9,737.2	101.15	97.266		
22,500.0	13,200.0	11,468.0	11,425.9	161.0	42.9	56.85	-211.1	1,451.7	9,932.8	9,831.6	101.28	98.072		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.34	26.5	2,313.1	2,313.2					
100.0	100.0	86.9	86.9	0.1	0.1	89.35	26.2	2,313.3	2,313.5	2,313.3	0.27	8,629.752		
200.0	200.0	173.9	173.8	0.5	0.3	89.37	25.4	2,314.1	2,314.4	2,313.6	0.76	3,036.802		
300.0	300.0	265.4	265.4	0.8	0.5	89.40	24.1	2,315.4	2,315.7	2,314.4	1.36	1,707.091		
400.0	400.0	364.5	364.4	1.2	0.9	89.44	22.6	2,316.9	2,317.3	2,315.2	2.07	1,119.311		
500.0	500.0	467.0	466.9	1.6	1.2	89.47	21.4	2,318.4	2,318.8	2,316.0	2.80	829.182		
600.0	600.0	578.8	578.7	1.9	1.6	89.50	20.4	2,319.8	2,320.0	2,316.4	3.56	652.499		
700.0	700.0	698.6	698.5	2.3	2.1	89.51	19.9	2,320.3	2,320.4	2,316.1	4.34	534.872		
800.0	800.0	805.9	805.8	2.6	2.4	89.51	19.8	2,320.2	2,320.3	2,315.3	5.06	458.752		
900.0	900.0	913.3	913.2	3.0	2.8	89.50	20.1	2,319.8	2,319.9	2,314.1	5.77	401.760		
1,000.0	1,000.0	1,004.0	1,003.9	3.4	3.1	89.50	20.3	2,319.4	2,319.4	2,313.0	6.44	360.062		
1,027.3	1,027.3	1,027.4	1,027.3	3.5	3.2	89.50	20.4	2,319.3	2,319.4	2,312.8	6.62	350.346		
1,100.0	1,100.0	1,089.6	1,089.5	3.7	3.4	89.49	20.5	2,319.5	2,319.6	2,312.5	7.10	326.895 ES		
1,200.0	1,200.0	1,177.2	1,177.1	4.1	3.7	89.48	20.9	2,320.1	2,320.3	2,312.6	7.76	299.103		
1,300.0	1,300.0	1,267.4	1,267.3	4.4	4.0	89.47	21.4	2,321.1	2,321.5	2,313.0	8.43	275.320		
1,400.0	1,400.0	1,345.0	1,344.9	4.8	4.3	89.46	21.8	2,322.7	2,323.4	2,314.4	9.06	256.372		
1,500.0	1,500.0	1,406.7	1,406.5	5.1	4.5	89.46	21.8	2,324.7	2,326.7	2,317.0	9.64	241.428		
1,600.0	1,600.0	1,471.3	1,471.1	5.5	4.7	89.47	21.5	2,327.8	2,331.4	2,321.2	10.22	228.118		
1,700.0	1,700.0	1,536.7	1,536.3	5.9	5.0	89.48	21.0	2,331.9	2,337.7	2,326.9	10.80	216.371		
1,800.0	1,800.0	1,615.0	1,614.4	6.2	5.2	89.51	19.8	2,337.7	2,345.2	2,333.7	11.44	205.074		
1,900.0	1,900.0	1,752.3	1,751.3	6.6	5.7	89.62	15.6	2,348.0	2,352.7	2,340.4	12.29	191.375		
2,000.0	2,000.0	1,929.9	1,928.6	6.9	6.4	89.77	9.3	2,355.8	2,356.9	2,343.6	13.30	177.193		
2,100.0	2,100.0	2,028.0	2,026.6	7.3	6.7	89.85	6.0	2,358.6	2,359.8	2,345.8	14.01	168.424		
2,200.0	2,200.0	2,099.0	2,097.5	7.7	7.0	89.93	3.0	2,361.2	2,363.4	2,348.8	14.62	161.645		
2,300.0	2,300.0	2,173.1	2,171.4	8.0	7.3	90.02	-1.0	2,364.7	2,368.2	2,352.9	15.24	155.369		
2,400.0	2,400.0	2,255.4	2,253.4	8.4	7.6	90.15	-6.1	2,369.5	2,374.1	2,358.2	15.89	149.360		
2,500.0	2,500.0	2,361.7	2,359.3	8.7	8.0	90.31	-12.9	2,376.1	2,380.3	2,363.6	16.64	143.020		
2,600.0	2,600.0	2,492.5	2,489.7	9.1	8.5	90.49	-20.3	2,382.9	2,385.6	2,368.1	17.49	136.426		
2,700.0	2,700.0	2,587.2	2,584.1	9.4	8.8	90.60	-24.9	2,387.5	2,390.4	2,372.3	18.19	131.429		
2,800.0	2,800.0	2,693.9	2,690.6	9.8	9.2	90.71	-29.6	2,392.5	2,395.2	2,376.2	18.94	126.486		
2,900.0	2,900.0	2,794.5	2,791.0	10.2	9.6	90.81	-33.8	2,396.9	2,399.6	2,379.9	19.66	122.050		
3,000.0	3,000.0	2,879.4	2,875.8	10.5	9.9	90.91	-38.1	2,400.9	2,404.4	2,384.1	20.33	118.296		
3,100.0	3,100.0	2,960.0	2,956.1	10.9	10.2	91.01	-42.6	2,405.3	2,410.0	2,389.0	20.97	114.913		
3,200.0	3,200.0	3,040.0	3,035.8	11.2	10.5	91.12	-46.9	2,410.3	2,416.4	2,394.8	21.62	111.786		
3,300.0	3,300.0	3,131.6	3,127.1	11.6	10.8	91.21	-51.2	2,416.6	2,423.3	2,401.0	22.31	108.644		
3,400.0	3,400.0	3,254.1	3,249.3	12.0	11.3	91.28	-54.2	2,424.6	2,429.9	2,406.7	23.12	105.116		
3,500.0	3,500.0	3,337.8	3,332.9	12.3	11.6	91.29	-54.6	2,429.9	2,436.2	2,412.5	23.77	102.512		
3,600.0	3,600.0	3,396.4	3,391.3	12.7	11.8	91.28	-54.2	2,434.4	2,443.9	2,419.6	24.31	100.545		
3,700.0	3,700.0	3,459.8	3,454.3	13.0	12.1	91.25	-53.2	2,440.3	2,453.3	2,428.4	24.86	98.678		
3,800.0	3,800.0	3,534.7	3,528.8	13.4	12.3	91.21	-51.8	2,448.4	2,463.9	2,438.4	25.46	96.770		
3,900.0	3,900.0	3,668.5	3,661.9	13.8	12.8	91.20	-51.6	2,462.6	2,474.6	2,448.3	26.33	93.997		
4,000.0	4,000.0	3,811.7	3,804.5	14.1	13.4	91.27	-54.7	2,474.8	2,483.2	2,455.9	27.23	91.183		
4,100.0	4,100.0	3,938.6	3,931.0	14.5	13.9	91.35	-58.3	2,484.1	2,490.5	2,462.5	28.07	88.737		
4,200.0	4,200.0	4,067.5	4,059.6	14.8	14.3	91.39	-60.5	2,492.0	2,496.7	2,467.8	28.90	86.382		
4,300.0	4,300.0	4,189.0	4,181.0	15.2	14.8	91.45	-63.2	2,498.2	2,501.8	2,472.1	29.71	84.215		
4,400.0	4,400.0	4,293.5	4,285.3	15.5	15.2	91.49	-65.0	2,503.1	2,506.5	2,476.1	30.44	82.335		
4,500.0	4,500.0	4,396.0	4,387.7	15.9	15.5	91.49	-65.3	2,507.6	2,511.0	2,479.8	31.17	80.560		
4,600.0	4,600.0	4,494.8	4,486.4	16.3	15.9	91.50	-65.6	2,512.2	2,515.6	2,483.7	31.88	78.910		
4,700.0	4,700.0	4,621.2	4,612.7	16.6	16.3	91.52	-66.8	2,517.2	2,519.6	2,486.9	32.70	77.061		
4,800.0	4,800.0	4,737.4	4,728.8	17.0	16.8	91.59	-70.1	2,520.8	2,522.7	2,489.3	33.48	75.361		
4,900.0	4,900.0	4,841.9	4,833.2	17.3	17.1	91.68	-73.9	2,523.5	2,525.5	2,491.3	34.21	73.821		
5,000.0	5,000.0	4,945.7	4,936.9	17.7	17.5	91.76	-77.5	2,526.0	2,528.0	2,493.1	34.94	72.346		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,043.7	5,034.8	18.1	17.9	91.83	-80.8	2,528.4	2,530.6	2,494.9	35.65	70.975		
5,200.0	5,200.0	5,144.6	5,135.6	18.4	18.2	91.90	-84.2	2,530.9	2,533.1	2,496.7	36.38	69.636		
5,300.0	5,300.0	5,246.6	5,237.6	18.8	18.6	91.98	-87.5	2,533.4	2,535.6	2,498.5	37.10	68.341		
5,400.0	5,400.0	5,353.7	5,344.5	19.1	19.0	92.06	-91.0	2,535.7	2,538.0	2,500.1	37.85	67.060		
5,500.0	5,500.0	5,450.0	5,440.8	19.5	19.3	92.12	-94.0	2,537.7	2,540.1	2,501.6	38.55	65.890		
5,600.0	5,600.0	5,558.9	5,549.6	19.8	19.7	92.19	-97.3	2,540.0	2,542.3	2,503.0	39.30	64.688		
5,700.0	5,700.0	5,655.0	5,645.7	20.2	20.1	92.26	-100.1	2,541.9	2,544.4	2,504.4	40.01	63.601		
5,800.0	5,800.0	5,757.5	5,748.1	20.6	20.4	92.33	-103.3	2,543.9	2,546.5	2,505.8	40.73	62.518		
5,900.0	5,900.0	5,856.8	5,847.4	20.9	20.8	92.39	-106.4	2,545.6	2,548.4	2,506.9	41.45	61.483		
6,000.0	6,000.0	5,920.8	5,911.3	21.3	21.0	92.43	-108.2	2,547.3	2,551.2	2,509.1	42.03	60.695		
6,100.0	6,100.0	5,994.0	5,984.3	21.6	21.3	92.47	-110.0	2,550.2	2,555.2	2,512.6	42.65	59.915		
6,200.0	6,200.0	6,087.7	6,078.0	22.0	21.6	92.52	-112.4	2,554.6	2,560.0	2,516.7	43.34	59.066		
6,300.0	6,300.0	6,188.5	6,178.6	22.4	22.0	92.57	-115.0	2,559.3	2,564.7	2,520.6	44.06	58.203		
6,400.0	6,400.0	6,292.0	6,282.0	22.7	22.4	92.62	-117.5	2,564.0	2,569.4	2,524.6	44.80	57.354		
6,500.0	6,500.0	6,387.5	6,377.3	23.1	22.8	92.67	-119.9	2,568.3	2,574.1	2,528.6	45.50	56.572		
6,600.0	6,600.0	6,495.2	6,484.9	23.4	23.1	92.72	-122.2	2,573.3	2,578.7	2,532.5	46.25	55.755		
6,700.0	6,700.0	6,603.9	6,593.5	23.8	23.5	92.75	-124.0	2,577.8	2,583.0	2,536.0	47.00	54.953		
6,800.0	6,800.0	6,706.7	6,696.2	24.1	23.9	92.79	-125.6	2,582.0	2,587.1	2,539.4	47.73	54.200		
6,900.0	6,900.0	6,811.9	6,801.3	24.5	24.3	92.82	-127.3	2,586.0	2,591.0	2,542.5	48.47	53.453		
7,000.0	7,000.0	6,914.0	6,903.3	24.9	24.7	92.85	-128.8	2,589.8	2,594.8	2,545.6	49.20	52.743		
7,100.0	7,100.0	7,023.3	7,012.6	25.2	25.1	-161.62	-130.4	2,593.6	2,599.1	2,549.2	49.94	52.045		
7,200.0	7,200.0	7,129.4	7,118.6	25.5	25.5	-161.60	-131.9	2,597.0	2,604.9	2,554.2	50.66	51.422		
7,300.0	7,299.9	7,234.0	7,223.1	25.9	25.8	-161.57	-133.6	2,600.0	2,612.0	2,560.7	51.37	50.848		
7,400.0	7,399.7	7,334.0	7,323.1	26.2	26.2	-161.56	-135.1	2,602.9	2,620.7	2,568.7	52.07	50.336		
7,500.0	7,499.4	7,446.8	7,435.8	26.6	26.6	-161.55	-137.0	2,605.8	2,630.9	2,578.1	52.81	49.820		
7,600.0	7,598.9	7,545.1	7,534.1	26.9	27.0	-161.54	-138.7	2,608.1	2,642.4	2,588.9	53.50	49.394		
7,700.0	7,698.3	7,644.8	7,633.8	27.2	27.3	-161.54	-140.6	2,610.5	2,655.6	2,601.4	54.19	49.004		
7,800.0	7,797.4	7,752.7	7,741.6	27.6	27.7	-161.54	-142.9	2,612.8	2,670.2	2,615.2	54.92	48.623		
7,900.0	7,896.3	7,850.6	7,839.5	27.9	28.1	-161.55	-144.9	2,614.8	2,686.4	2,630.8	55.60	48.314		
8,000.0	7,994.9	7,955.7	7,944.5	28.3	28.4	-161.56	-147.2	2,616.7	2,703.9	2,647.6	56.32	48.013		
8,100.0	8,093.3	8,054.3	8,043.1	28.6	28.8	-161.58	-149.4	2,618.5	2,723.1	2,666.1	57.00	47.770		
8,182.6	8,174.2	8,135.0	8,123.7	28.9	29.1	-161.59	-151.4	2,619.8	2,740.1	2,682.5	57.57	47.595		
8,200.0	8,191.3	8,149.4	8,138.1	29.0	29.1	-161.60	-151.7	2,620.1	2,743.8	2,686.1	57.68	47.569		
8,300.0	8,289.1	8,240.5	8,229.2	29.4	29.5	-161.68	-153.9	2,621.9	2,765.4	2,707.0	58.34	47.399		
8,400.0	8,387.0	8,329.1	8,317.8	29.7	29.8	-161.78	-155.2	2,623.8	2,787.0	2,728.0	58.99	47.243		
8,500.0	8,484.9	8,409.0	8,397.7	30.1	30.1	-161.88	-155.4	2,626.1	2,809.4	2,749.7	59.61	47.130		
8,600.0	8,582.8	8,512.8	8,501.4	30.5	30.4	-162.03	-155.1	2,629.3	2,831.8	2,771.5	60.32	46.949		
8,700.0	8,680.6	8,621.3	8,609.8	30.9	30.8	-162.18	-154.7	2,632.2	2,854.0	2,793.0	61.04	46.754		
8,800.0	8,778.5	8,728.3	8,716.8	31.2	31.2	-162.32	-154.4	2,634.7	2,875.8	2,814.0	61.77	46.560		
8,900.0	8,876.4	8,849.3	8,837.7	31.6	31.6	-162.47	-155.0	2,636.8	2,897.2	2,834.6	62.54	46.323		
9,000.0	8,974.3	8,963.3	8,951.7	32.0	32.0	-162.57	-156.8	2,638.0	2,917.8	2,854.5	63.30	46.098		
9,100.0	9,072.1	9,042.3	9,030.7	32.4	32.3	-162.63	-158.9	2,638.8	2,938.5	2,874.6	63.92	45.971		
9,200.0	9,170.0	9,103.9	9,092.3	32.8	32.5	-162.66	-160.9	2,640.0	2,960.0	2,895.6	64.48	45.909		
9,300.0	9,267.9	9,177.1	9,165.4	33.2	32.8	-162.70	-163.7	2,642.3	2,982.7	2,917.7	65.07	45.836		
9,400.0	9,365.8	9,263.9	9,252.0	33.6	33.1	-162.73	-167.3	2,645.3	3,005.8	2,940.1	65.73	45.729		
9,500.0	9,463.7	9,338.1	9,326.2	34.0	33.4	-162.75	-170.7	2,648.3	3,029.5	2,963.2	66.33	45.673		
9,600.0	9,561.5	9,417.0	9,404.9	34.4	33.7	-162.79	-173.8	2,652.0	3,053.8	2,986.9	66.95	45.615		
9,700.0	9,659.4	9,506.5	9,494.2	34.8	34.0	-162.84	-176.4	2,656.7	3,078.6	3,011.0	67.61	45.531		
9,800.0	9,757.3	9,618.0	9,605.6	35.2	34.4	-162.93	-179.0	2,662.4	3,103.3	3,034.9	68.38	45.380		
9,900.0	9,855.2	9,728.1	9,715.5	35.6	34.8	-163.01	-181.3	2,667.5	3,127.4	3,058.3	69.14	45.230		
10,000.0	9,953.0	9,833.3	9,820.5	36.0	35.2	-163.07	-184.3	2,672.0	3,151.4	3,081.5	69.88	45.094		
10,100.0	10,050.9	9,935.9	9,923.0	36.4	35.6	-163.15	-186.6	2,676.1	3,174.9	3,104.3	70.61	44.962		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,148.8	10,023.7	10,010.8	36.9	35.9	-163.21	-188.1	2,679.8	3,198.7	3,127.4	71.28	44.878		
10,300.0	10,246.7	10,135.4	10,122.4	37.3	36.3	-163.31	-189.8	2,684.4	3,222.5	3,150.4	72.05	44.729		
10,400.0	10,344.6	10,247.3	10,234.1	37.7	36.7	-163.40	-191.3	2,688.4	3,245.6	3,172.8	72.81	44.573		
10,500.0	10,442.4	10,344.8	10,331.6	38.1	37.1	-163.48	-192.7	2,691.7	3,268.6	3,195.0	73.52	44.457		
10,600.0	10,540.3	10,437.8	10,424.5	38.5	37.4	-163.56	-193.7	2,694.8	3,291.6	3,217.4	74.21	44.356		
10,700.0	10,638.2	10,536.2	10,522.8	39.0	37.8	-163.64	-194.7	2,698.3	3,314.8	3,239.8	74.92	44.244		
10,800.0	10,736.1	10,620.9	10,607.5	39.4	38.1	-163.71	-195.7	2,701.3	3,338.0	3,262.4	75.57	44.170		
10,900.0	10,833.9	10,711.6	10,698.1	39.8	38.4	-163.79	-196.4	2,705.0	3,361.6	3,285.4	76.25	44.088		
11,000.0	10,931.8	10,830.7	10,817.1	40.2	38.8	-163.88	-198.1	2,709.5	3,385.1	3,308.0	77.06	43.930		
11,100.0	11,029.7	10,945.2	10,931.6	40.7	39.3	-163.96	-200.3	2,713.1	3,407.9	3,330.0	77.84	43.779		
11,200.0	11,127.6	11,044.4	11,030.7	41.1	39.6	-164.03	-201.8	2,715.9	3,430.4	3,351.9	78.56	43.666		
11,300.0	11,225.5	11,131.2	11,298.9	41.5	40.5	-164.28	-202.1	2,716.9	3,450.5	3,370.6	79.88	43.197		
11,400.0	11,323.3	11,394.9	11,381.1	42.0	40.8	-164.39	-199.9	2,715.1	3,468.2	3,387.7	80.51	43.079		
11,500.0	11,421.2	11,456.9	11,442.7	42.4	41.0	-164.56	-193.3	2,714.5	3,487.0	3,405.9	81.07	43.014		
11,523.5	11,444.2	11,478.7	11,464.2	42.5	41.0	-164.64	-189.5	2,714.3	3,491.5	3,410.3	81.22	42.989		
11,600.0	11,519.2	11,518.0	11,502.5	42.8	41.2	-164.88	-180.8	2,714.1	3,505.7	3,424.1	81.61	42.958		
11,700.0	11,617.7	11,578.8	11,560.4	43.3	41.3	-165.29	-162.4	2,714.1	3,523.1	3,441.0	82.12	42.901		
11,800.0	11,716.7	11,611.0	11,590.2	43.7	41.4	-165.57	-150.2	2,714.5	3,539.8	3,457.3	82.52	42.895		
11,900.0	11,815.9	11,658.0	11,632.5	44.1	41.5	-165.99	-129.8	2,715.9	3,555.8	3,472.9	82.94	42.871		
12,000.0	11,915.5	11,743.0	11,706.1	44.4	41.7	-166.75	-87.4	2,719.1	3,571.1	3,487.6	83.49	42.775		
12,100.0	12,015.2	11,854.1	11,795.1	44.8	41.9	-167.88	-21.2	2,720.9	3,583.5	3,499.4	84.10	42.608		
12,200.0	12,115.1	11,912.0	11,837.8	45.2	42.0	-168.55	17.9	2,721.1	3,594.4	3,509.9	84.51	42.533		
12,300.0	12,215.1	11,959.4	11,870.9	45.5	42.1	-169.12	51.9	2,721.2	3,604.5	3,519.6	84.85	42.482		
12,311.9	12,227.0	11,963.5	11,873.7	45.5	42.1	85.33	54.9	2,721.3	3,605.6	3,520.7	84.88	42.480		
12,400.0	12,315.1	12,006.0	11,901.2	45.8	42.2	84.82	87.3	2,721.6	3,615.1	3,530.0	85.15	42.454		
12,500.0	12,415.1	12,034.2	11,918.6	46.2	42.2	84.47	109.5	2,721.8	3,627.8	3,542.5	85.36	42.501		
12,600.0	12,515.1	12,083.2	11,947.8	46.5	42.3	83.84	148.9	2,722.1	3,642.5	3,556.8	85.62	42.540		
12,700.0	12,615.1	12,214.4	12,022.9	46.9	42.7	82.15	256.3	2,720.9	3,658.2	3,571.9	86.28	42.399		
12,711.9	12,627.0	12,218.1	12,025.0	46.9	42.8	82.10	259.5	2,720.8	3,660.1	3,573.8	86.30	42.411		
12,750.0	12,665.1	12,230.5	12,031.8	47.0	42.8	103.22	269.8	2,720.6	3,666.8	3,580.5	86.37	42.456		
12,800.0	12,714.8	12,247.6	12,040.9	47.2	42.9	102.00	284.2	2,720.2	3,677.0	3,590.5	86.45	42.532		
12,850.0	12,763.8	12,265.5	12,050.3	47.4	42.9	100.63	299.5	2,719.8	3,688.5	3,601.9	86.53	42.626		
12,900.0	12,811.8	12,289.0	12,062.1	47.5	43.0	99.08	319.8	2,719.2	3,701.2	3,614.6	86.63	42.724		
12,950.0	12,858.3	12,289.0	12,062.1	47.7	43.0	97.65	319.8	2,719.2	3,715.2	3,628.6	86.60	42.899		
13,000.0	12,903.1	12,289.0	12,062.1	47.8	43.0	96.07	319.8	2,719.2	3,730.2	3,643.7	86.57	43.090		
13,050.0	12,945.8	12,289.0	12,062.1	48.0	43.0	94.38	319.8	2,719.2	3,746.4	3,659.8	86.53	43.295		
13,100.0	12,986.1	12,330.5	12,081.2	48.1	43.2	92.32	356.6	2,718.5	3,762.6	3,675.8	86.73	43.384		
13,150.0	13,023.7	12,342.2	12,086.1	48.3	43.2	90.41	367.2	2,718.4	3,779.8	3,693.0	86.76	43.566		
13,200.0	13,058.2	12,383.0	12,101.8	48.4	43.4	88.34	404.9	2,718.4	3,798.0	3,711.0	86.95	43.677		
13,250.0	13,089.4	12,383.0	12,101.8	48.5	43.4	86.44	404.9	2,718.4	3,815.7	3,728.8	86.94	43.889		
13,300.0	13,117.2	12,383.0	12,101.8	48.7	43.4	84.50	404.9	2,718.4	3,833.8	3,746.9	86.93	44.100		
13,350.0	13,141.1	12,383.0	12,101.8	48.8	43.4	82.55	404.9	2,718.4	3,852.1	3,765.1	86.94	44.306		
13,400.0	13,161.2	12,383.0	12,101.8	48.9	43.4	80.61	404.9	2,718.4	3,870.4	3,783.4	86.97	44.504		
13,450.0	13,177.2	12,383.0	12,101.8	49.1	43.4	78.69	404.9	2,718.4	3,888.6	3,801.6	87.01	44.691		
13,500.0	13,189.1	12,426.2	12,115.8	49.2	43.5	76.96	445.8	2,718.9	3,905.6	3,818.3	87.32	44.728		
13,550.0	13,196.6	12,438.1	12,119.2	49.4	43.6	75.25	457.1	2,719.1	3,922.6	3,835.2	87.47	44.846		
13,600.0	13,199.8	12,478.0	12,129.2	49.6	43.8	73.77	495.8	2,720.3	3,939.4	3,851.6	87.79	44.872		
13,611.9	13,200.0	12,478.0	12,129.2	49.6	43.8	73.39	495.8	2,720.3	3,943.1	3,855.3	87.82	44.900		
13,700.0	13,200.0	12,478.0	12,129.2	50.0	43.8	73.55	495.8	2,720.3	3,970.3	3,882.2	88.05	45.092		
13,800.0	13,200.0	12,504.3	12,134.3	50.4	43.9	73.84	521.5	2,721.3	4,000.0	3,911.5	88.48	45.208		
13,900.0	13,200.0	12,538.5	12,139.2	50.9	44.0	74.12	555.4	2,722.4	4,028.0	3,939.0	88.98	45.267		
14,000.0	13,200.0	12,571.0	12,141.9	51.4	44.1	74.34	587.7	2,723.5	4,054.3	3,964.8	89.50	45.299		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design     Nina Cortell - Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program:     220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	12,626.0	12,143.2	52.0	44.4	74.55	642.7	2,725.1	4,078.6	3,988.4	90.17	45.233		
14,200.0	13,200.0	12,712.5	12,140.0	52.6	44.8	74.70	729.1	2,727.3	4,100.6	4,009.6	91.04	45.040		
14,300.0	13,200.0	12,897.2	12,132.6	53.2	45.8	74.81	913.7	2,729.2	4,117.9	4,025.3	92.63	44.454		
14,400.0	13,200.0	13,001.5	12,129.2	53.8	46.5	74.88	1,017.8	2,729.2	4,130.8	4,037.0	93.84	44.019		
14,500.0	13,200.0	13,131.2	12,125.8	54.5	47.3	74.92	1,147.5	2,729.3	4,140.4	4,045.1	95.34	43.429		
14,600.0	13,200.0	13,269.8	12,123.9	55.1	48.3	74.95	1,286.1	2,728.5	4,145.5	4,048.5	97.04	42.722		
14,687.2	13,200.0	13,359.2	12,121.2	55.7	49.0	74.92	1,375.5	2,726.9	4,146.6	4,048.3	98.31	42.178		
14,691.7	13,200.0	13,362.3	12,121.1	55.7	49.1	74.92	1,378.6	2,726.8	4,146.6	4,048.3	98.37	42.155		
14,700.0	13,200.0	13,368.0	12,120.9	55.8	49.1	74.92	1,384.3	2,726.7	4,146.6	4,048.2	98.46	42.113		
14,800.0	13,200.0	13,438.5	12,117.7	56.5	49.7	74.87	1,454.6	2,725.6	4,147.1	4,047.4	99.70	41.597		
14,900.0	13,200.0	13,517.0	12,115.0	57.3	50.4	74.84	1,533.1	2,725.2	4,148.1	4,047.1	101.06	41.045		
15,000.0	13,200.0	13,570.1	12,114.2	58.1	50.8	74.83	1,586.2	2,725.6	4,150.0	4,047.8	102.24	40.592		
15,100.0	13,200.0	13,643.5	12,114.2	58.9	51.5	74.84	1,659.5	2,727.3	4,152.9	4,049.3	103.67	40.061		
15,200.0	13,200.0	13,747.9	12,114.8	59.7	52.5	74.86	1,764.0	2,729.7	4,155.8	4,050.3	105.50	39.393		
15,300.0	13,200.0	13,844.4	12,115.1	60.6	53.4	74.87	1,860.4	2,732.2	4,158.9	4,051.6	107.30	38.759		
15,400.0	13,200.0	13,976.0	12,117.6	61.6	54.7	74.92	1,992.0	2,735.5	4,161.6	4,052.0	109.61	37.969		
15,500.0	13,200.0	14,190.4	12,122.0	62.5	57.0	74.99	2,206.3	2,736.0	4,161.5	4,048.5	113.03	36.818		
15,504.2	13,200.0	14,175.0	12,121.9	62.5	56.8	74.99	2,190.9	2,736.1	4,161.5	4,048.6	112.87	36.869		
15,600.0	13,200.0	14,220.0	12,121.8	63.5	57.3	74.99	2,235.9	2,736.0	4,162.0	4,047.8	114.21	36.441		
15,700.0	13,200.0	14,268.0	12,120.7	64.5	57.8	74.97	2,283.9	2,736.3	4,164.0	4,048.3	115.64	36.009		
15,800.0	13,200.0	14,350.4	12,117.8	65.5	58.7	74.94	2,366.2	2,737.4	4,166.9	4,049.3	117.53	35.454		
15,900.0	13,200.0	14,486.7	12,115.1	66.6	60.3	74.91	2,502.5	2,738.9	4,169.1	4,049.0	120.20	34.686		
16,000.0	13,200.0	15,020.0	12,115.9	67.7	66.8	74.88	3,034.8	2,721.0	4,169.3	4,041.0	128.28	32.502		
16,100.0	13,200.0	16,100.0	12,116.8	68.8	80.6	74.87	3,110.4	2,714.5	4,161.4	4,018.5	142.93	29.115		
16,200.0	13,200.0	15,158.9	12,119.3	69.9	68.6	74.88	3,173.1	2,709.3	4,153.5	4,021.2	132.26	31.404		
16,300.0	13,200.0	15,207.0	12,121.4	71.1	69.2	74.90	3,221.1	2,706.9	4,147.7	4,013.7	133.99	30.955		
16,400.0	13,200.0	15,207.0	12,121.4	72.3	69.2	74.90	3,221.1	2,706.9	4,143.3	4,008.3	135.04	30.682		
16,500.0	13,200.0	15,207.0	12,121.4	73.5	69.2	74.90	3,221.1	2,706.9	4,141.3	4,005.2	136.05	30.439		
16,583.0	13,200.0	15,207.0	12,121.4	74.5	69.2	74.90	3,221.1	2,706.9	4,141.4	4,004.5	136.87	30.258		
16,600.0	13,200.0	15,244.3	12,122.5	74.7	69.7	74.92	3,258.4	2,706.4	4,140.7	4,003.1	137.61	30.090		
16,700.0	13,200.0	15,262.0	12,122.9	75.9	69.9	74.92	3,276.0	2,706.7	4,142.4	4,003.5	138.85	29.834		
16,800.0	13,200.0	16,800.0	12,124.1	77.1	90.1	74.95	3,359.2	2,709.7	4,146.1	3,986.3	159.72	25.959		
16,900.0	13,200.0	15,489.0	12,125.9	78.4	72.9	74.99	3,502.9	2,711.8	4,147.6	4,003.2	144.38	28.728		
17,000.0	13,200.0	15,489.0	12,125.9	79.7	72.9	74.99	3,502.9	2,711.8	4,150.8	4,005.5	145.34	28.559		
17,100.0	13,200.0	15,551.3	12,124.5	81.0	73.7	74.98	3,565.1	2,713.7	4,155.4	4,008.1	147.30	28.210		
17,200.0	13,200.0	15,600.6	12,123.3	82.3	74.4	74.97	3,614.4	2,716.2	4,161.4	4,012.3	149.05	27.920		
17,300.0	13,200.0	15,678.0	12,123.1	83.6	75.4	74.99	3,691.6	2,721.0	4,168.2	4,017.0	151.28	27.552		
17,400.0	13,200.0	16,113.9	12,121.2	84.9	81.4	75.01	4,127.2	2,729.4	4,169.8	4,010.3	159.51	26.142		
17,500.0	13,200.0	16,451.3	12,142.6	86.3	86.2	75.26	4,463.1	2,717.9	4,164.7	3,998.7	166.01	25.087		
17,600.0	13,200.0	16,495.9	12,147.7	87.6	86.9	75.32	4,507.3	2,716.2	4,158.7	3,990.7	167.98	24.757		
17,700.0	13,200.0	16,523.0	12,150.3	89.0	87.3	75.35	4,534.3	2,715.2	4,154.2	3,984.5	169.65	24.486		
17,800.0	13,200.0	16,560.3	12,152.9	90.3	87.8	75.39	4,571.5	2,714.4	4,151.2	3,979.7	171.46	24.210		
17,900.0	13,200.0	16,618.0	12,154.8	91.7	88.6	75.41	4,629.1	2,714.4	4,150.5	3,976.9	173.58	23.910		
17,942.3	13,200.0	16,618.0	12,154.8	92.3	88.6	75.41	4,629.1	2,714.4	4,150.2	3,976.2	174.07	23.842		
18,000.0	13,200.0	16,618.0	12,154.8	93.1	88.6	75.41	4,629.1	2,714.4	4,150.6	3,975.9	174.71	23.757		
18,100.0	13,200.0	16,681.8	12,155.0	94.5	89.6	75.42	4,692.9	2,715.2	4,152.6	3,975.7	176.90	23.475		
18,200.0	13,200.0	18,200.0	12,151.7	95.9	111.9	75.37	4,977.8	2,711.5	4,151.9	3,951.4	200.52	20.706		
18,300.0	13,200.0	17,037.9	12,150.8	97.3	94.8	75.35	5,048.9	2,709.0	4,149.7	3,964.5	185.15	22.413		
18,400.0	13,200.0	17,210.7	12,151.3	98.7	97.3	75.35	5,221.6	2,704.8	4,148.5	3,959.4	189.18	21.929		
18,500.0	13,200.0	17,276.0	12,152.0	100.2	98.3	75.36	5,286.9	2,703.0	4,146.1	3,954.6	191.50	21.651		
18,600.0	13,200.0	17,276.0	12,152.0	101.6	98.3	75.36	5,286.9	2,703.0	4,144.9	3,952.2	192.71	21.508		
18,635.0	13,200.0	17,310.9	12,152.3	102.1	98.8	75.36	5,321.8	2,702.6	4,144.7	3,950.9	193.72	21.395		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 220-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,700.0	13,200.0	17,337.0	12,152.6	103.0	99.2	75.36	5,347.8	2,702.6	4,145.0	3,950.0	194.92	21.265		
18,800.0	13,200.0	17,388.7	12,153.1	104.5	100.0	75.37	5,399.6	2,703.2	4,146.6	3,949.6	196.97	21.052		
18,900.0	13,200.0	17,595.8	12,149.6	105.9	103.1	75.33	5,606.6	2,702.1	4,147.1	3,945.4	201.71	20.560		
18,939.0	13,200.0	17,614.9	12,149.5	106.5	103.4	75.33	5,625.7	2,701.9	4,147.0	3,944.5	202.50	20.479		
19,000.0	13,200.0	17,652.0	12,149.6	107.4	103.9	75.33	5,662.8	2,701.8	4,147.2	3,943.4	203.87	20.343		
19,100.0	13,200.0	17,652.0	12,149.6	108.9	103.9	75.33	5,662.8	2,701.8	4,149.0	3,944.0	204.99	20.240		
19,200.0	13,200.0	17,711.8	12,149.8	110.3	104.8	75.34	5,722.6	2,702.9	4,151.9	3,944.7	207.16	20.042		
19,300.0	13,200.0	17,745.0	12,149.8	111.8	105.3	75.34	5,755.8	2,704.3	4,156.6	3,947.8	208.81	19.906		
19,400.0	13,200.0	18,121.0	12,146.2	113.3	111.0	75.31	6,131.5	2,706.3	4,156.1	3,939.3	216.77	19.173		
19,482.8	13,200.0	18,159.2	12,146.6	114.5	111.6	75.32	6,169.7	2,705.9	4,155.6	3,937.2	218.45	19.023		
19,500.0	13,200.0	18,166.4	12,146.6	114.8	111.7	75.32	6,176.8	2,705.8	4,155.6	3,936.9	218.79	18.994		
19,600.0	13,200.0	18,216.0	12,146.9	116.3	112.5	75.32	6,226.4	2,706.1	4,156.6	3,935.8	220.85	18.821		
19,700.0	13,200.0	18,258.6	12,147.2	117.8	113.1	75.33	6,269.0	2,706.9	4,158.8	3,936.1	222.77	18.669		
19,800.0	13,200.0	18,308.0	12,147.8	119.3	113.9	75.34	6,318.4	2,708.3	4,162.2	3,937.5	224.78	18.517		
19,900.0	13,200.0	18,541.2	12,155.2	120.8	117.4	75.48	6,551.3	2,716.0	4,166.3	3,935.9	230.34	18.088		
20,000.0	13,200.0	18,595.1	12,157.2	122.3	118.3	75.51	6,605.1	2,716.9	4,167.7	3,935.2	232.51	17.924		
20,100.0	13,200.0	18,687.0	12,158.4	123.8	119.7	75.53	6,697.0	2,718.2	4,169.5	3,934.2	235.38	17.714		
20,200.0	13,200.0	18,756.5	12,157.6	125.3	120.8	75.52	6,766.5	2,719.2	4,171.9	3,934.1	237.80	17.544		
20,300.0	13,200.0	18,961.0	12,147.6	126.8	123.9	75.39	6,970.7	2,717.6	4,172.7	3,930.1	242.63	17.198		
20,400.0	13,200.0	19,190.4	12,140.2	128.4	127.5	75.28	7,199.8	2,711.7	4,172.1	3,924.3	247.77	16.838		
20,500.0	13,200.0	19,252.0	12,140.1	129.9	128.5	75.27	7,261.4	2,709.9	4,170.0	3,919.9	250.16	16.670		
20,600.0	13,200.0	19,301.2	12,139.6	131.4	129.2	75.26	7,310.6	2,708.9	4,169.0	3,916.7	252.31	16.523		
20,668.5	13,200.0	19,346.0	12,138.5	132.5	129.9	75.25	7,355.4	2,708.2	4,168.8	3,914.8	253.95	16.416		
20,700.0	13,200.0	19,362.0	12,138.0	132.9	130.2	75.24	7,371.4	2,708.0	4,168.9	3,914.2	254.62	16.373		
20,800.0	13,200.0	19,418.0	12,136.6	134.5	131.1	75.22	7,427.4	2,707.7	4,169.8	3,912.9	256.84	16.235		
20,900.0	13,200.0	19,472.2	12,135.7	136.0	131.9	75.21	7,481.5	2,708.1	4,171.7	3,912.7	259.00	16.107		
21,000.0	13,200.0	19,835.4	12,142.3	137.6	137.6	75.30	7,844.4	2,704.8	4,171.2	3,904.5	266.74	15.638		
21,100.0	13,200.0	19,939.7	12,144.2	139.1	139.3	75.31	7,948.6	2,700.3	4,167.3	3,897.4	269.88	15.441		
21,200.0	13,200.0	20,007.0	12,144.1	140.7	140.3	75.30	8,015.8	2,697.2	4,163.7	3,891.3	272.41	15.285		
21,300.0	13,200.0	20,055.1	12,143.5	142.2	141.1	75.29	8,063.8	2,695.3	4,161.1	3,886.5	274.60	15.153		
21,400.0	13,200.0	20,101.0	12,142.5	143.8	141.8	75.27	8,109.7	2,694.2	4,159.9	3,883.2	276.71	15.034		
21,500.0	13,200.0	20,253.5	12,141.0	145.3	144.2	75.24	8,262.2	2,689.8	4,157.9	3,877.2	280.66	14.814		
21,600.0	13,200.0	20,291.0	12,140.9	146.9	144.8	75.24	8,299.7	2,688.9	4,156.6	3,874.0	282.64	14.706		
21,656.4	13,200.0	20,334.5	12,140.7	147.7	145.5	75.23	8,343.1	2,688.3	4,156.3	3,872.2	284.14	14.628		
21,700.0	13,200.0	20,354.6	12,140.5	148.4	145.8	75.23	8,363.3	2,688.1	4,156.5	3,871.4	285.05	14.582		
21,800.0	13,200.0	20,406.9	12,139.9	150.0	146.6	75.23	8,415.6	2,688.2	4,157.6	3,870.4	287.22	14.475		
21,900.0	13,200.0	21,900.0	12,137.0	151.5	170.3	75.19	8,532.5	2,688.8	4,159.6	3,847.7	311.84	13.339		
22,000.0	13,200.0	20,712.8	12,134.7	153.1	151.5	75.16	8,721.3	2,686.5	4,159.1	3,863.9	295.26	14.087		
22,100.0	13,200.0	20,785.5	12,133.9	154.7	152.6	75.14	8,794.1	2,685.2	4,158.5	3,860.7	297.84	13.962		
22,116.1	13,200.0	20,794.2	12,133.8	154.9	152.8	75.14	8,802.8	2,685.1	4,158.5	3,860.3	298.20	13.945		
22,200.0	13,200.0	20,839.8	12,133.5	156.2	153.5	75.14	8,848.4	2,684.9	4,158.9	3,858.8	300.08	13.859		
22,300.0	13,200.0	22,300.0	12,133.9	157.8	176.8	75.14	9,129.1	2,680.8	4,159.1	3,834.4	324.70	12.809		
22,400.0	13,200.0	21,196.0	12,133.9	159.4	159.2	75.13	9,204.4	2,677.0	4,155.2	3,846.2	309.01	13.447		
22,500.0	13,200.0	22,500.0	12,132.3	161.0	180.1	75.10	9,281.1	2,674.3	4,153.1	3,822.2	330.85	12.553		
22,600.0	13,200.0	21,329.0	12,131.3	162.5	161.3	75.08	9,337.2	2,672.3	4,151.0	3,837.0	314.03	13.219		
22,700.0	13,200.0	21,385.1	12,130.7	164.1	162.2	75.07	9,393.3	2,670.6	4,149.6	3,833.3	316.33	13.118		
22,709.1	13,200.0	21,387.6	12,130.6	164.3	162.2	75.07	9,395.8	2,670.5	4,149.6	3,833.1	316.50	13.111		
22,800.0	13,200.0	21,424.0	12,129.3	165.7	162.8	75.05	9,432.2	2,670.3	4,150.4	3,832.1	318.28	13.040		
22,900.0	13,200.0	21,471.6	12,127.6	167.3	163.6	75.03	9,479.8	2,670.7	4,152.6	3,832.3	320.33	12.964		
23,000.0	13,200.0	21,543.6	12,126.0	168.9	164.7	75.01	9,551.8	2,671.8	4,155.4	3,832.6	322.85	12.871		
23,100.0	13,200.0	21,742.0	12,124.6	170.4	167.9	75.01	9,750.0	2,674.9	4,158.2	3,830.4	327.88	12.682		
23,200.0	13,200.0	21,800.0	12,123.6	172.0	168.8	75.00	9,808.0	2,675.2	4,159.8	3,829.6	330.17	12.599		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #241H
Project:	Antelope Ridge	TVD Reference:	KB @ 3818.5usft (Original Well Elev)
Reference Site:	Nina Cortell	MD Reference:	KB @ 3818.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Nina Cortell Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		Nina Cortell - Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1										Offset Site Error:	0.0 usft
Survey Program:		220-MWD										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
23,300.0	13,200.0	22,002.0	12,119.5	173.6	172.1	74.95	10,009.9	2,673.6	4,160.1	3,825.0	335.14	12.413	
23,400.0	13,200.0	22,107.8	12,117.1	175.2	173.8	74.91	10,115.7	2,671.6	4,159.6	3,821.3	338.31	12.295	
23,504.9	13,200.0	22,191.0	12,113.6	176.9	175.1	74.86	10,198.8	2,669.2	4,158.8	3,817.7	341.13	12.191 SF	

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-90.70	-0.4	-30.1	30.1					
100.0	100.0	101.0	101.0	0.1	0.1	-90.70	-0.4	-30.1	30.1	29.8	0.26	115.802		
200.0	200.0	201.0	201.0	0.5	0.5	-90.70	-0.4	-30.1	30.1	29.1	0.98	30.810		
300.0	300.0	301.0	301.0	0.8	0.8	-90.70	-0.4	-30.1	30.1	28.4	1.69	17.769		
400.0	400.0	401.0	401.0	1.2	1.2	-90.70	-0.4	-30.1	30.1	27.7	2.41	12.484		
500.0	500.0	501.0	501.0	1.6	1.6	-90.70	-0.4	-30.1	30.1	27.0	3.13	9.623		
600.0	600.0	601.0	601.0	1.9	1.9	-90.70	-0.4	-30.1	30.1	26.3	3.84	7.828		
700.0	700.0	701.0	701.0	2.3	2.3	-90.70	-0.4	-30.1	30.1	25.5	4.56	6.598		
800.0	800.0	801.0	801.0	2.6	2.6	-90.70	-0.4	-30.1	30.1	24.8	5.28	5.702		
900.0	900.0	901.0	901.0	3.0	3.0	-90.70	-0.4	-30.1	30.1	24.1	6.00	5.020		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-90.70	-0.4	-30.1	30.1	23.4	6.71	4.484		
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-90.70	-0.4	-30.1	30.1	22.7	7.43	4.051		
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-90.70	-0.4	-30.1	30.1	21.9	8.15	3.694		
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-90.70	-0.4	-30.1	30.1	21.2	8.86	3.396		
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-90.70	-0.4	-30.1	30.1	20.5	9.58	3.141		
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-90.70	-0.4	-30.1	30.1	19.8	10.30	2.923 CC, ES		
1,600.0	1,600.0	1,600.5	1,600.5	5.5	5.5	-90.99	-0.5	-31.0	31.0	20.0	11.00	2.815 SF		
1,700.0	1,700.0	1,699.9	1,699.8	5.9	5.8	-91.75	-1.0	-33.5	33.6	21.9	11.69	2.870		
1,800.0	1,800.0	1,799.2	1,799.0	6.2	6.2	-92.78	-1.8	-37.8	37.9	25.5	12.38	3.058		
1,900.0	1,900.0	1,898.3	1,898.0	6.6	6.5	-93.88	-3.0	-43.7	43.9	30.8	13.07	3.358		
2,000.0	2,000.0	1,997.2	1,996.5	6.9	6.9	-94.92	-4.4	-51.3	51.7	37.9	13.75	3.755		
2,100.0	2,100.0	2,095.8	2,094.7	7.3	7.2	-95.82	-6.2	-60.5	61.1	46.7	14.43	4.235		
2,200.0	2,200.0	2,194.0	2,192.3	7.7	7.6	-96.59	-8.2	-71.3	72.3	57.2	15.11	4.787		
2,300.0	2,300.0	2,308.3	2,289.2	8.0	8.0	-97.22	-10.6	-83.7	85.2	69.4	15.83	5.383		
2,400.0	2,400.0	2,409.3	2,387.2	8.4	8.4	-97.72	-13.2	-97.3	99.1	82.6	16.54	5.992		
2,500.0	2,500.0	2,489.7	2,485.3	8.7	8.7	-98.10	-15.8	-110.8	113.0	95.8	17.18	6.579		
2,600.0	2,600.0	2,588.8	2,583.4	9.1	9.1	-98.40	-18.4	-124.3	126.9	109.0	17.89	7.096		
2,700.0	2,700.0	2,687.8	2,681.4	9.4	9.4	-98.63	-20.9	-137.9	140.8	122.2	18.59	7.575		
2,800.0	2,800.0	2,786.8	2,779.5	9.8	9.8	-98.83	-23.5	-151.4	154.7	135.4	19.30	8.017		
2,900.0	2,900.0	2,885.8	2,877.5	10.2	10.2	-98.99	-26.1	-165.0	168.6	148.6	20.01	8.428		
3,000.0	3,000.0	2,984.9	2,975.6	10.5	10.6	-99.13	-28.7	-178.5	182.6	161.8	20.72	8.811		
3,100.0	3,100.0	3,083.9	3,073.7	10.9	11.0	-99.25	-31.3	-192.0	196.5	175.0	21.43	9.168		
3,200.0	3,200.0	3,182.9	3,171.7	11.2	11.4	-99.35	-33.9	-205.6	210.4	188.2	22.14	9.501		
3,300.0	3,300.0	3,281.9	3,269.8	11.6	11.8	-99.44	-36.4	-219.1	224.3	201.4	22.86	9.814		
3,400.0	3,400.0	3,381.0	3,367.9	12.0	12.2	-99.52	-39.0	-232.6	238.2	214.6	23.57	10.107		
3,500.0	3,500.0	3,480.0	3,465.9	12.3	12.6	-99.59	-41.6	-246.2	252.1	227.8	24.28	10.383		
3,600.0	3,600.0	3,579.0	3,564.0	12.7	13.0	-99.66	-44.2	-259.7	266.0	241.0	25.00	10.642		
3,700.0	3,700.0	3,678.1	3,662.0	13.0	13.4	-99.71	-46.8	-273.3	280.0	254.2	25.71	10.888		
3,800.0	3,800.0	3,777.1	3,760.1	13.4	13.8	-99.76	-49.4	-286.8	293.9	267.4	26.43	11.119		
3,900.0	3,900.0	3,876.1	3,858.2	13.8	14.2	-99.81	-51.9	-300.3	307.8	280.6	27.14	11.339		
4,000.0	4,000.0	3,975.1	3,956.2	14.1	14.6	-99.85	-54.5	-313.9	321.7	293.8	27.86	11.547		
4,100.0	4,100.0	4,074.2	4,054.3	14.5	15.0	-99.89	-57.1	-327.4	335.6	307.0	28.58	11.744		
4,200.0	4,200.0	4,173.2	4,152.4	14.8	15.4	-99.93	-59.7	-340.9	349.5	320.2	29.29	11.931		
4,300.0	4,300.0	4,272.2	4,250.4	15.2	15.8	-99.96	-62.3	-354.5	363.4	333.4	30.01	12.110		
4,400.0	4,400.0	4,371.2	4,348.5	15.5	16.2	-99.99	-64.9	-368.0	377.4	346.6	30.73	12.280		
4,500.0	4,500.0	4,470.3	4,446.5	15.9	16.6	-100.02	-67.4	-381.6	391.3	359.8	31.45	12.442		
4,600.0	4,600.0	4,569.3	4,544.6	16.3	17.0	-100.05	-70.0	-395.1	405.2	373.0	32.17	12.597		
4,700.0	4,700.0	4,668.3	4,642.7	16.6	17.5	-100.07	-72.6	-408.6	419.1	386.2	32.88	12.745		
4,800.0	4,800.0	4,767.3	4,740.7	17.0	17.9	-100.10	-75.2	-422.2	433.0	399.4	33.60	12.886		
4,900.0	4,900.0	4,866.4	4,838.8	17.3	18.3	-100.12	-77.8	-435.7	446.9	412.6	34.32	13.022		
5,000.0	5,000.0	4,965.4	4,936.9	17.7	18.7	-100.14	-80.4	-449.2	460.9	425.8	35.04	13.152		
5,100.0	5,100.0	5,064.4	5,034.9	18.1	19.1	-100.16	-82.9	-462.8	474.8	439.0	35.76	13.276		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,163.5	5,133.0	18.4	19.5	-100.18	-85.5	-476.3	488.7	452.2	36.48	13.396		
5,300.0	5,300.0	5,262.5	5,231.1	18.8	19.9	-100.20	-88.1	-489.9	502.6	465.4	37.20	13.511		
5,400.0	5,400.0	5,361.5	5,329.1	19.1	20.3	-100.21	-90.7	-503.4	516.5	478.6	37.92	13.621		
5,500.0	5,500.0	5,460.5	5,427.2	19.5	20.7	-100.23	-93.3	-516.9	530.4	491.8	38.64	13.728		
5,600.0	5,600.0	5,559.6	5,525.2	19.8	21.2	-100.24	-95.9	-530.5	544.4	505.0	39.36	13.830		
5,700.0	5,700.0	5,658.6	5,623.3	20.2	21.6	-100.26	-98.4	-544.0	558.3	518.2	40.08	13.929		
5,800.0	5,800.0	5,757.6	5,721.4	20.6	22.0	-100.27	-101.0	-557.5	572.2	531.4	40.80	14.024		
5,900.0	5,900.0	5,856.6	5,819.4	20.9	22.4	-100.28	-103.6	-571.1	586.1	544.6	41.52	14.116		
6,000.0	6,000.0	5,955.7	5,917.5	21.3	22.8	-100.29	-106.2	-584.6	600.0	557.8	42.24	14.204		
6,100.0	6,100.0	6,054.7	6,015.6	21.6	23.2	-100.31	-108.8	-598.2	613.9	571.0	42.96	14.290		
6,200.0	6,200.0	6,153.7	6,113.6	22.0	23.6	-100.32	-111.4	-611.7	627.9	584.2	43.68	14.373		
6,300.0	6,300.0	6,252.8	6,211.7	22.4	24.0	-100.33	-113.9	-625.2	641.8	597.4	44.41	14.453		
6,400.0	6,400.0	6,351.8	6,309.7	22.7	24.5	-100.34	-116.5	-638.8	655.7	610.6	45.13	14.530		
6,500.0	6,500.0	6,450.8	6,407.8	23.1	24.9	-100.35	-119.1	-652.3	669.6	623.8	45.85	14.605		
6,600.0	6,600.0	6,549.8	6,505.9	23.4	25.3	-100.36	-121.7	-665.8	683.5	637.0	46.57	14.678		
6,700.0	6,700.0	6,648.9	6,603.9	23.8	25.7	-100.37	-124.3	-679.4	697.4	650.2	47.29	14.748		
6,800.0	6,800.0	6,747.9	6,702.0	24.1	26.1	-100.37	-126.9	-692.9	711.4	663.3	48.01	14.816		
6,900.0	6,900.0	6,846.9	6,800.1	24.5	26.5	-100.38	-129.4	-706.5	725.3	676.5	48.73	14.882		
7,000.0	7,000.0	6,945.9	6,898.1	24.9	27.0	-100.39	-132.0	-720.0	739.2	689.7	49.46	14.947		
7,100.0	7,100.0	7,045.1	6,996.3	25.2	27.4	5.09	-134.6	-733.5	752.2	702.1	50.17	14.995		
7,200.0	7,200.0	7,144.4	7,094.7	25.5	27.8	5.09	-137.2	-747.1	763.6	712.7	50.87	15.011		
7,300.0	7,299.9	7,244.0	7,193.3	25.9	28.2	5.10	-139.8	-760.7	773.2	721.6	51.57	14.993		
7,400.0	7,399.7	7,343.7	7,292.0	26.2	28.6	5.13	-142.4	-774.4	781.0	728.8	52.27	14.942		
7,500.0	7,499.4	7,443.5	7,390.8	26.6	29.0	5.16	-145.0	-788.0	787.2	734.2	52.98	14.858		
7,600.0	7,598.9	7,543.4	7,489.7	26.9	29.5	5.21	-147.6	-801.7	791.6	737.9	53.69	14.745		
7,700.0	7,698.3	7,643.3	7,588.7	27.2	29.9	5.28	-150.2	-815.3	794.2	739.9	54.39	14.602		
7,800.0	7,797.4	7,743.3	7,687.7	27.6	30.3	5.35	-152.8	-829.0	795.2	740.1	55.10	14.431		
7,900.0	7,896.3	7,843.3	7,786.8	27.9	30.7	5.44	-155.4	-842.7	794.4	738.6	55.81	14.234		
8,000.0	7,994.9	7,943.3	7,885.7	28.3	31.1	5.54	-158.0	-856.3	791.8	735.3	56.52	14.010		
8,100.0	8,093.3	8,043.2	7,984.7	28.6	31.6	5.66	-160.6	-870.0	787.6	730.3	57.23	13.762		
8,182.6	8,174.2	8,125.6	8,066.3	28.9	31.9	5.77	-162.8	-881.3	782.7	724.9	57.81	13.539		
8,200.0	8,191.3	8,143.0	8,083.5	29.0	32.0	5.79	-163.2	-883.6	781.6	723.6	57.93	13.491		
8,300.0	8,289.1	8,242.7	8,182.3	29.4	32.4	5.92	-165.8	-897.3	775.0	716.4	58.64	13.216		
8,400.0	8,387.0	8,342.5	8,281.1	29.7	32.8	6.06	-168.4	-910.9	768.4	709.1	59.35	12.947		
8,500.0	8,484.9	8,442.3	8,379.9	30.1	33.2	6.20	-171.1	-924.6	761.9	701.8	60.07	12.684		
8,600.0	8,582.8	8,542.0	8,478.7	30.5	33.7	6.34	-173.7	-938.2	755.3	694.5	60.78	12.427		
8,700.0	8,680.6	8,641.8	8,577.5	30.9	34.1	6.48	-176.3	-951.8	748.8	687.3	61.49	12.177		
8,800.0	8,778.5	8,741.6	8,676.3	31.2	34.5	6.63	-178.9	-965.5	742.2	680.0	62.21	11.931		
8,900.0	8,876.4	8,841.3	8,775.1	31.6	34.9	6.78	-181.5	-979.1	735.7	672.8	62.93	11.691		
9,000.0	8,974.3	8,941.1	8,873.9	32.0	35.3	6.93	-184.1	-992.7	729.2	665.5	63.64	11.457		
9,100.0	9,072.1	9,040.9	8,972.7	32.4	35.8	7.08	-186.7	-1,006.4	722.6	658.3	64.36	11.227		
9,200.0	9,170.0	9,140.6	9,071.5	32.8	36.2	7.24	-189.3	-1,020.0	716.1	651.0	65.08	11.003		
9,300.0	9,267.9	9,240.4	9,170.3	33.2	36.6	7.40	-191.9	-1,033.7	709.6	643.8	65.80	10.783		
9,400.0	9,365.8	9,340.2	9,269.1	33.6	37.0	7.56	-194.5	-1,047.3	703.1	636.5	66.53	10.568		
9,500.0	9,463.7	9,439.9	9,367.9	34.0	37.4	7.73	-197.1	-1,060.9	696.6	629.3	67.25	10.358		
9,600.0	9,561.5	9,539.7	9,466.7	34.4	37.9	7.89	-199.7	-1,074.6	690.1	622.1	67.98	10.151		
9,700.0	9,659.4	9,639.5	9,565.4	34.8	38.3	8.07	-202.3	-1,088.2	683.6	614.9	68.70	9.950		
9,800.0	9,757.3	9,739.2	9,664.2	35.2	38.7	8.24	-204.9	-1,101.9	677.1	607.6	69.43	9.752		
9,900.0	9,855.2	9,839.0	9,763.0	35.6	39.1	8.42	-207.5	-1,115.5	670.6	600.4	70.16	9.558		
10,000.0	9,953.0	9,938.8	9,861.8	36.0	39.6	8.60	-210.1	-1,129.1	664.1	593.2	70.89	9.369		
10,100.0	10,050.9	10,038.5	9,960.6	36.4	40.0	8.79	-212.7	-1,142.8	657.6	586.0	71.62	9.183		
10,200.0	10,148.8	10,138.3	10,059.4	36.9	40.4	8.98	-215.3	-1,156.4	651.2	578.8	72.35	9.000		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	10,246.7	10,238.1	10,158.2	37.3	40.8	9.17	-217.9	-1,170.1	644.7	571.6	73.08	8.822		
10,400.0	10,344.6	10,337.8	10,257.0	37.7	41.2	9.37	-220.5	-1,183.7	638.3	564.5	73.82	8.647		
10,500.0	10,442.4	10,437.6	10,355.8	38.1	41.7	9.57	-223.1	-1,197.3	631.8	557.3	74.55	8.475		
10,600.0	10,540.3	10,537.4	10,454.6	38.5	42.1	9.77	-225.7	-1,211.0	625.4	550.1	75.29	8.307		
10,700.0	10,638.2	10,637.1	10,553.4	39.0	42.5	9.98	-228.3	-1,224.6	619.0	542.9	76.02	8.142		
10,800.0	10,736.1	10,743.3	10,658.5	39.4	42.9	10.21	-231.0	-1,238.9	612.4	535.6	76.82	7.972		
10,900.0	10,833.9	10,861.6	10,776.1	39.8	43.4	10.50	-233.6	-1,252.1	603.4	525.7	77.69	7.767		
11,000.0	10,931.8	10,979.1	10,893.2	40.2	43.9	10.83	-235.4	-1,261.6	591.4	512.9	78.48	7.535		
11,100.0	11,029.7	11,095.6	11,009.5	40.7	44.3	11.22	-236.5	-1,267.6	576.4	497.2	79.20	7.277		
11,200.0	11,127.6	11,210.9	11,124.8	41.1	44.7	11.68	-237.0	-1,270.1	558.4	478.5	79.85	6.993		
11,300.0	11,225.5	11,312.6	11,226.5	41.5	45.0	12.13	-237.0	-1,270.2	538.4	457.9	80.53	6.686		
11,400.0	11,323.3	11,410.4	11,324.3	42.0	45.3	12.61	-237.0	-1,270.2	518.4	437.1	81.23	6.381		
11,500.0	11,421.2	11,508.3	11,422.2	42.4	45.6	13.12	-237.0	-1,270.2	498.4	416.4	81.94	6.082		
11,523.5	11,444.2	11,531.3	11,445.2	42.5	45.6	13.25	-237.0	-1,270.2	493.7	411.6	82.10	6.013		
11,600.0	11,519.2	11,606.3	11,520.2	42.8	45.9	13.60	-237.0	-1,270.2	479.1	396.5	82.65	5.797		
11,700.0	11,617.7	11,705.7	11,619.1	43.3	46.2	15.09	-228.6	-1,270.2	462.3	378.9	83.40	5.543		
11,800.0	11,716.7	11,798.6	11,709.0	43.7	46.4	18.46	-205.5	-1,270.4	448.9	364.6	84.33	5.323		
11,900.0	11,815.9	11,881.7	11,785.3	44.1	46.6	23.05	-172.7	-1,270.6	441.8	356.5	85.34	5.177		
11,927.0	11,842.8	11,902.3	11,803.3	44.2	46.6	24.40	-162.9	-1,270.6	441.5	355.9	85.59	5.158		
12,000.0	11,915.5	11,953.8	11,847.0	44.4	46.7	28.12	-135.6	-1,270.8	444.5	358.5	86.04	5.166		
12,100.0	12,015.2	12,015.2	11,895.6	44.8	46.8	33.11	-98.0	-1,271.0	459.5	373.7	85.84	5.353		
12,200.0	12,115.1	12,067.2	11,933.4	45.2	46.9	37.73	-62.4	-1,271.2	488.1	403.6	84.46	5.779		
12,300.0	12,215.1	12,111.2	11,962.7	45.5	47.0	41.91	-29.6	-1,271.4	529.7	447.6	82.05	6.455		
12,311.9	12,227.0	12,116.0	11,965.7	45.5	47.0	-63.11	-25.9	-1,271.5	535.4	453.7	81.72	6.552		
12,400.0	12,315.1	12,150.0	11,986.4	45.8	47.0	-60.24	1.1	-1,271.6	582.1	503.0	79.12	7.358		
12,500.0	12,415.1	12,180.1	12,003.4	46.2	47.0	-57.74	26.0	-1,271.8	642.8	567.0	75.78	8.481		
12,600.0	12,515.1	12,200.0	12,013.8	46.5	47.0	-56.11	42.9	-1,271.9	710.2	637.9	72.23	9.831		
12,700.0	12,615.1	12,230.3	12,028.6	46.9	47.0	-53.69	69.3	-1,272.0	782.8	713.2	69.59	11.249		
12,711.9	12,627.0	12,232.8	12,029.8	46.9	47.0	-53.50	71.6	-1,272.1	791.8	722.5	69.25	11.433		
12,750.0	12,665.1	12,250.0	12,037.5	47.0	47.1	-28.19	86.9	-1,272.2	820.3	751.7	68.57	11.962		
12,800.0	12,714.8	12,250.0	12,037.5	47.2	47.1	-25.86	86.9	-1,272.2	856.0	789.4	66.62	12.850		
12,850.0	12,763.8	12,265.1	12,043.9	47.4	47.1	-23.09	100.6	-1,272.2	890.2	824.9	65.28	13.637		
12,900.0	12,811.8	12,278.0	12,049.1	47.5	47.1	-20.89	112.4	-1,272.3	922.5	858.7	63.80	14.458		
12,950.0	12,858.3	12,300.0	12,057.3	47.7	47.1	-18.68	132.8	-1,272.4	952.9	890.2	62.66	15.208		
13,000.0	12,903.1	12,300.0	12,057.3	47.8	47.1	-17.62	132.8	-1,272.4	981.0	920.4	60.64	16.179		
13,050.0	12,945.8	12,319.6	12,063.9	48.0	47.1	-16.08	151.2	-1,272.5	1,007.0	947.6	59.36	16.965		
13,100.0	12,986.1	12,334.1	12,068.4	48.1	47.1	-14.92	165.1	-1,272.6	1,030.6	972.7	57.89	17.804		
13,150.0	13,023.7	12,350.0	12,072.9	48.3	47.1	-13.89	180.3	-1,272.7	1,051.9	995.5	56.46	18.631		
13,200.0	13,058.2	12,350.0	12,072.9	48.4	47.1	-13.40	180.3	-1,272.7	1,071.0	1,016.4	54.60	19.616		
13,250.0	13,089.4	12,379.3	12,080.2	48.5	47.1	-12.30	208.7	-1,272.9	1,087.0	1,033.4	53.64	20.265		
13,300.0	13,117.2	12,400.0	12,084.4	48.7	47.1	-11.53	229.0	-1,273.0	1,100.8	1,048.3	52.46	20.983		
13,350.0	13,141.1	12,400.0	12,084.4	48.8	47.1	-11.31	229.0	-1,273.0	1,111.9	1,061.1	50.86	21.862		
13,400.0	13,161.2	12,426.0	12,088.7	48.9	47.2	-10.60	254.6	-1,273.2	1,120.2	1,070.3	49.93	22.434		
13,450.0	13,177.2	12,450.0	12,091.6	49.1	47.2	-10.02	278.4	-1,273.3	1,126.0	1,077.0	49.02	22.971		
13,500.0	13,189.1	12,450.0	12,091.6	49.2	47.2	-9.97	278.4	-1,273.3	1,129.0	1,081.1	47.85	23.595		
13,550.0	13,196.6	12,473.4	12,093.4	49.4	47.2	-9.52	301.8	-1,273.5	1,129.2	1,082.0	47.14	23.955		
13,600.0	13,199.8	12,500.0	12,094.4	49.6	47.2	-9.06	328.3	-1,273.6	1,126.8	1,080.3	46.54	24.213		
13,611.9	13,200.0	12,500.0	12,094.4	49.6	47.2	-9.08	328.3	-1,273.6	1,125.8	1,079.4	46.37	24.277		
13,700.0	13,200.0	12,544.1	12,094.2	50.0	47.3	-8.42	372.4	-1,273.9	1,120.2	1,074.6	45.60	24.565		
13,800.0	13,200.0	12,639.0	12,093.9	50.4	47.4	-6.95	467.3	-1,274.6	1,115.9	1,070.9	45.08	24.757		
13,900.0	13,200.0	12,734.7	12,093.7	50.9	47.6	-5.59	563.0	-1,275.2	1,112.9	1,068.1	44.75	24.867		
14,000.0	13,200.0	12,831.4	12,093.4	51.4	47.9	-4.36	659.7	-1,275.9	1,110.9	1,066.2	44.63	24.892		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	13,200.0	12,928.9	12,093.2	52.0	48.2	-3.27	757.2	-1,276.5	1,109.6	1,064.9	44.68	24.833		
14,200.0	13,200.0	13,027.1	12,092.9	52.6	48.7	-2.34	855.4	-1,277.2	1,108.9	1,064.0	44.90	24.699		
14,300.0	13,200.0	13,125.9	12,092.7	53.2	49.1	-1.56	954.2	-1,277.9	1,108.7	1,063.4	45.26	24.495		
14,349.6	13,200.0	13,175.2	12,092.6	53.5	49.4	-1.24	1,003.5	-1,278.2	1,108.7	1,063.2	45.49	24.369		
14,400.0	13,200.0	13,225.2	12,092.4	53.8	49.7	-0.95	1,053.5	-1,278.5	1,108.7	1,062.9	45.76	24.230		
14,500.0	13,200.0	13,324.9	12,092.2	54.5	50.3	-0.52	1,153.2	-1,279.2	1,108.8	1,062.5	46.37	23.914		
14,600.0	13,200.0	13,424.7	12,091.9	55.1	50.9	-0.26	1,253.1	-1,279.9	1,109.0	1,062.0	47.09	23.553		
14,687.2	13,200.0	13,512.0	12,091.7	55.7	51.6	-0.19	1,340.3	-1,280.5	1,109.3	1,061.5	47.80	23.208		
14,700.0	13,200.0	13,524.7	12,091.7	55.8	51.7	-0.19	1,353.0	-1,280.6	1,109.3	1,061.4	47.91	23.155		
14,800.0	13,200.0	13,624.7	12,091.4	56.5	52.4	-0.18	1,453.0	-1,281.2	1,109.6	1,060.8	48.79	22.742		
14,900.0	13,200.0	13,724.7	12,091.2	57.3	53.2	-0.18	1,553.0	-1,281.9	1,109.8	1,060.1	49.70	22.329		
15,000.0	13,200.0	13,824.7	12,090.9	58.1	54.1	-0.17	1,653.0	-1,282.6	1,110.1	1,059.4	50.65	21.917		
15,100.0	13,200.0	13,924.7	12,090.6	58.9	54.9	-0.17	1,753.0	-1,283.3	1,110.3	1,058.7	51.63	21.507		
15,200.0	13,200.0	14,024.7	12,090.4	59.7	55.9	-0.16	1,853.0	-1,284.0	1,110.6	1,057.9	52.63	21.101		
15,300.0	13,200.0	14,124.7	12,090.1	60.6	56.8	-0.16	1,953.0	-1,284.6	1,110.8	1,057.2	53.66	20.700		
15,400.0	13,200.0	14,224.7	12,089.9	61.6	57.8	-0.15	2,053.0	-1,285.3	1,111.1	1,056.4	54.72	20.304		
15,500.0	13,200.0	14,324.7	12,089.6	62.5	58.8	-0.15	2,153.0	-1,286.0	1,111.3	1,055.5	55.80	19.915		
15,600.0	13,200.0	14,424.7	12,089.4	63.5	59.8	-0.14	2,253.0	-1,286.7	1,111.6	1,054.7	56.91	19.533		
15,700.0	13,200.0	14,524.7	12,089.1	64.5	60.9	-0.14	2,353.0	-1,287.3	1,111.9	1,053.8	58.03	19.159		
15,800.0	13,200.0	14,624.7	12,088.9	65.5	62.0	-0.13	2,453.0	-1,288.0	1,112.1	1,052.9	59.18	18.792		
15,900.0	13,200.0	14,724.7	12,088.6	66.6	63.1	-0.13	2,553.0	-1,288.7	1,112.4	1,052.0	60.34	18.434		
16,000.0	13,200.0	14,824.7	12,088.3	67.7	64.3	-0.12	2,653.0	-1,289.4	1,112.6	1,051.1	61.53	18.084		
16,100.0	13,200.0	14,924.7	12,088.1	68.8	65.4	-0.12	2,753.0	-1,290.1	1,112.9	1,050.2	62.73	17.742		
16,200.0	13,200.0	15,024.7	12,087.8	69.9	66.6	-0.11	2,853.0	-1,290.7	1,113.1	1,049.2	63.94	17.409		
16,300.0	13,200.0	15,124.7	12,087.6	71.1	67.8	-0.11	2,953.0	-1,291.4	1,113.4	1,048.2	65.17	17.084		
16,400.0	13,200.0	15,224.7	12,087.3	72.3	69.1	-0.10	3,053.0	-1,292.1	1,113.7	1,047.2	66.42	16.768		
16,500.0	13,200.0	15,324.7	12,087.1	73.5	70.3	-0.10	3,153.0	-1,292.8	1,113.9	1,046.2	67.67	16.460		
16,600.0	13,200.0	15,424.7	12,086.8	74.7	71.6	-0.09	3,253.0	-1,293.5	1,114.2	1,045.2	68.95	16.160		
16,700.0	13,200.0	15,524.7	12,086.5	75.9	72.8	-0.09	3,353.0	-1,294.1	1,114.4	1,044.2	70.23	15.869		
16,800.0	13,200.0	15,624.7	12,086.3	77.1	74.1	-0.08	3,453.0	-1,294.8	1,114.7	1,043.2	71.52	15.585		
16,900.0	13,200.0	15,724.7	12,086.0	78.4	75.4	-0.08	3,553.0	-1,295.5	1,114.9	1,042.1	72.83	15.310		
17,000.0	13,200.0	15,824.7	12,085.8	79.7	76.8	-0.07	3,653.0	-1,296.2	1,115.2	1,041.1	74.14	15.041		
17,100.0	13,200.0	15,924.7	12,085.5	81.0	78.1	-0.07	3,753.0	-1,296.8	1,115.5	1,040.0	75.47	14.781		
17,200.0	13,200.0	16,024.7	12,085.3	82.3	79.4	-0.07	3,853.0	-1,297.5	1,115.7	1,038.9	76.80	14.528		
17,300.0	13,200.0	16,124.7	12,085.0	83.6	80.8	-0.06	3,953.0	-1,298.2	1,116.0	1,037.8	78.14	14.281		
17,400.0	13,200.0	16,224.7	12,084.8	84.9	82.2	-0.06	4,053.0	-1,298.9	1,116.2	1,036.7	79.49	14.042		
17,500.0	13,200.0	16,324.7	12,084.5	86.3	83.5	-0.05	4,153.0	-1,299.6	1,116.5	1,035.6	80.85	13.809		
17,600.0	13,200.0	16,424.7	12,084.2	87.6	84.9	-0.05	4,252.9	-1,300.2	1,116.7	1,034.5	82.22	13.583		
17,700.0	13,200.0	16,524.7	12,084.0	89.0	86.3	-0.04	4,352.9	-1,300.9	1,117.0	1,033.4	83.59	13.363		
17,800.0	13,200.0	16,624.7	12,083.7	90.3	87.7	-0.04	4,452.9	-1,301.6	1,117.2	1,032.3	84.97	13.149		
17,900.0	13,200.0	16,724.7	12,083.5	91.7	89.1	-0.03	4,552.9	-1,302.3	1,117.5	1,031.1	86.36	12.941		
18,000.0	13,200.0	16,824.7	12,083.2	93.1	90.6	-0.03	4,652.9	-1,303.0	1,117.8	1,030.0	87.75	12.738		
18,100.0	13,200.0	16,924.7	12,083.0	94.5	92.0	-0.02	4,752.9	-1,303.6	1,118.0	1,028.9	89.15	12.541		
18,200.0	13,200.0	17,024.7	12,082.7	95.9	93.4	-0.02	4,852.9	-1,304.3	1,118.3	1,027.7	90.55	12.350		
18,200.0	13,200.0	17,024.7	12,082.7	95.9	93.4	-0.02	4,852.9	-1,304.3	1,118.3	1,027.7	90.55	12.350		
18,300.0	13,200.0	17,105.7	12,082.5	97.3	94.6	-0.01	4,933.9	-1,304.9	1,118.7	1,026.7	91.97	12.164		
18,400.0	13,200.0	17,105.7	12,082.5	98.7	94.6	-0.01	4,933.9	-1,304.9	1,125.1	1,031.6	93.50	12.034		
18,500.0	13,200.0	17,105.7	12,082.5	100.2	94.6	-0.01	4,933.9	-1,304.9	1,140.3	1,045.2	95.08	11.993		
18,600.0	13,200.0	17,105.7	12,082.5	101.6	94.6	-0.01	4,933.9	-1,304.9	1,163.9	1,067.2	96.63	12.044		
18,700.0	13,200.0	17,105.7	12,082.5	103.0	94.6	-0.01	4,933.9	-1,304.9	1,195.4	1,097.3	98.11	12.185		
18,800.0	13,200.0	17,105.7	12,082.5	104.5	94.6	-0.01	4,933.9	-1,304.9	1,234.2	1,134.8	99.46	12.410		
18,900.0	13,200.0	17,105.7	12,082.5	105.9	94.6	-0.01	4,933.9	-1,304.9	1,279.7	1,179.1	100.66	12.713		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Nina Cortell Fed Com #241H
<b>Project:</b>	Antelope Ridge	<b>TVD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Reference Site:</b>	Nina Cortell	<b>MD Reference:</b>	KB @ 3818.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Nina Cortell Fed Com #241H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,000.0	13,200.0	17,105.7	12,082.5	107.4	94.6	-0.01	4,933.9	-1,304.9	1,331.2	1,229.5	101.71	13.089		
19,100.0	13,200.0	17,105.7	12,082.5	108.9	94.6	-0.01	4,933.9	-1,304.9	1,388.0	1,285.4	102.60	13.528		
19,200.0	13,200.0	17,105.7	12,082.5	110.3	94.6	-0.01	4,933.9	-1,304.9	1,449.4	1,346.1	103.36	14.023		
19,300.0	13,200.0	17,105.7	12,082.5	111.8	94.6	-0.01	4,933.9	-1,304.9	1,515.0	1,411.0	103.99	14.568		
19,400.0	13,200.0	17,105.7	12,082.5	113.3	94.6	-0.01	4,933.9	-1,304.9	1,584.2	1,479.7	104.52	15.157		
19,500.0	13,200.0	17,105.7	12,082.5	114.8	94.6	-0.01	4,933.9	-1,304.9	1,656.5	1,551.6	104.95	15.784		
19,600.0	13,200.0	17,105.7	12,082.5	116.3	94.6	-0.01	4,933.9	-1,304.9	1,731.6	1,626.3	105.31	16.443		
19,700.0	13,200.0	17,105.7	12,082.5	117.8	94.6	-0.01	4,933.9	-1,304.9	1,809.1	1,703.5	105.60	17.132		
19,800.0	13,200.0	17,105.7	12,082.5	119.3	94.6	-0.01	4,933.9	-1,304.9	1,888.7	1,782.9	105.84	17.845		
19,900.0	13,200.0	17,105.7	12,082.5	120.8	94.6	-0.01	4,933.9	-1,304.9	1,970.2	1,864.1	106.03	18.581		
20,000.0	13,200.0	17,105.7	12,082.5	122.3	94.6	-0.01	4,933.9	-1,304.9	2,053.3	1,947.1	106.19	19.335		
20,100.0	13,200.0	17,105.7	12,082.5	123.8	94.6	-0.01	4,933.9	-1,304.9	2,137.8	2,031.5	106.33	20.106		
20,200.0	13,200.0	17,105.7	12,082.5	125.3	94.6	-0.01	4,933.9	-1,304.9	2,223.7	2,117.2	106.44	20.892		
20,300.0	13,200.0	17,105.7	12,082.5	126.8	94.6	-0.01	4,933.9	-1,304.9	2,310.6	2,204.1	106.53	21.690		
20,400.0	13,200.0	17,105.7	12,082.5	128.4	94.6	-0.01	4,933.9	-1,304.9	2,398.6	2,292.0	106.61	22.500		
20,500.0	13,200.0	17,105.7	12,082.5	129.9	94.6	-0.01	4,933.9	-1,304.9	2,487.5	2,380.9	106.67	23.320		
20,600.0	13,200.0	17,105.7	12,082.5	131.4	94.6	-0.01	4,933.9	-1,304.9	2,577.2	2,470.5	106.73	24.148		
20,700.0	13,200.0	17,105.7	12,082.5	132.9	94.6	-0.01	4,933.9	-1,304.9	2,667.7	2,560.9	106.78	24.984		
20,800.0	13,200.0	17,105.7	12,082.5	134.5	94.6	-0.01	4,933.9	-1,304.9	2,758.8	2,652.0	106.82	25.826		
20,900.0	13,200.0	17,105.7	12,082.5	136.0	94.6	-0.01	4,933.9	-1,304.9	2,850.5	2,743.6	106.86	26.675		
21,000.0	13,200.0	17,105.7	12,082.5	137.6	94.6	-0.01	4,933.9	-1,304.9	2,942.7	2,835.8	106.90	27.529		
21,100.0	13,200.0	17,105.7	12,082.5	139.1	94.6	-0.01	4,933.9	-1,304.9	3,035.5	2,928.5	106.93	28.387		
21,200.0	13,200.0	17,105.7	12,082.5	140.7	94.6	-0.01	4,933.9	-1,304.9	3,128.7	3,021.7	106.97	29.249		
21,300.0	13,200.0	17,105.7	12,082.5	142.2	94.6	-0.01	4,933.9	-1,304.9	3,222.2	3,115.2	107.00	30.115		
21,400.0	13,200.0	17,105.7	12,082.5	143.8	94.6	-0.01	4,933.9	-1,304.9	3,316.2	3,209.2	107.03	30.984		
21,500.0	13,200.0	17,105.7	12,082.5	145.3	94.6	-0.01	4,933.9	-1,304.9	3,410.5	3,303.5	107.06	31.855		
21,600.0	13,200.0	17,105.7	12,082.5	146.9	94.6	-0.01	4,933.9	-1,304.9	3,505.1	3,398.0	107.09	32.729		
21,700.0	13,200.0	17,105.7	12,082.5	148.4	94.6	-0.01	4,933.9	-1,304.9	3,600.1	3,492.9	107.13	33.605		
21,800.0	13,200.0	17,105.7	12,082.5	150.0	94.6	-0.01	4,933.9	-1,304.9	3,695.2	3,588.1	107.16	34.482		
21,900.0	13,200.0	17,105.7	12,082.5	151.5	94.6	-0.01	4,933.9	-1,304.9	3,790.7	3,683.5	107.20	35.361		
22,000.0	13,200.0	17,105.7	12,082.5	153.1	94.6	-0.01	4,933.9	-1,304.9	3,886.3	3,779.1	107.23	36.241		
22,100.0	13,200.0	17,105.7	12,082.5	154.7	94.6	-0.01	4,933.9	-1,304.9	3,982.2	3,874.9	107.27	37.122		
22,200.0	13,200.0	17,105.7	12,082.5	156.2	94.6	-0.01	4,933.9	-1,304.9	4,078.3	3,971.0	107.31	38.004		
22,300.0	13,200.0	17,105.7	12,082.5	157.8	94.6	-0.01	4,933.9	-1,304.9	4,174.5	4,067.2	107.35	38.886		
22,400.0	13,200.0	17,105.7	12,082.5	159.4	94.6	-0.01	4,933.9	-1,304.9	4,271.0	4,163.6	107.40	39.768		
22,500.0	13,200.0	17,105.7	12,082.5	161.0	94.6	-0.01	4,933.9	-1,304.9	4,367.5	4,260.1	107.44	40.651		
22,600.0	13,200.0	17,105.7	12,082.5	162.5	94.6	-0.01	4,933.9	-1,304.9	4,464.3	4,356.8	107.49	41.534		
22,700.0	13,200.0	17,105.7	12,082.5	164.1	94.6	-0.01	4,933.9	-1,304.9	4,561.2	4,453.6	107.53	42.417		
22,800.0	13,200.0	17,105.7	12,082.5	165.7	94.6	-0.01	4,933.9	-1,304.9	4,658.2	4,550.6	107.58	43.299		
22,900.0	13,200.0	17,105.7	12,082.5	167.3	94.6	-0.01	4,933.9	-1,304.9	4,755.3	4,647.7	107.63	44.181		
23,000.0	13,200.0	17,105.7	12,082.5	168.9	94.6	-0.01	4,933.9	-1,304.9	4,852.6	4,744.9	107.68	45.063		
23,100.0	13,200.0	17,105.7	12,082.5	170.4	94.6	-0.01	4,933.9	-1,304.9	4,949.9	4,842.2	107.74	45.944		
23,200.0	13,200.0	17,105.7	12,082.5	172.0	94.6	-0.01	4,933.9	-1,304.9	5,047.4	4,939.6	107.79	46.825		
23,300.0	13,200.0	17,105.7	12,082.5	173.6	94.6	-0.01	4,933.9	-1,304.9	5,144.9	5,037.1	107.85	47.705		
23,400.0	13,200.0	17,105.7	12,082.5	175.2	94.6	-0.01	4,933.9	-1,304.9	5,242.6	5,134.7	107.91	48.584		
23,504.9	13,200.0	17,105.7	12,082.5	176.9	94.6	-0.01	4,933.9	-1,304.9	5,345.1	5,237.1	107.97	49.505		

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







## Modified BOP Testing Procedure for Batch Drilling

Nina Cortell Fed Com 241H  
SHL: 272' FSL & 1601' FWL Section 10

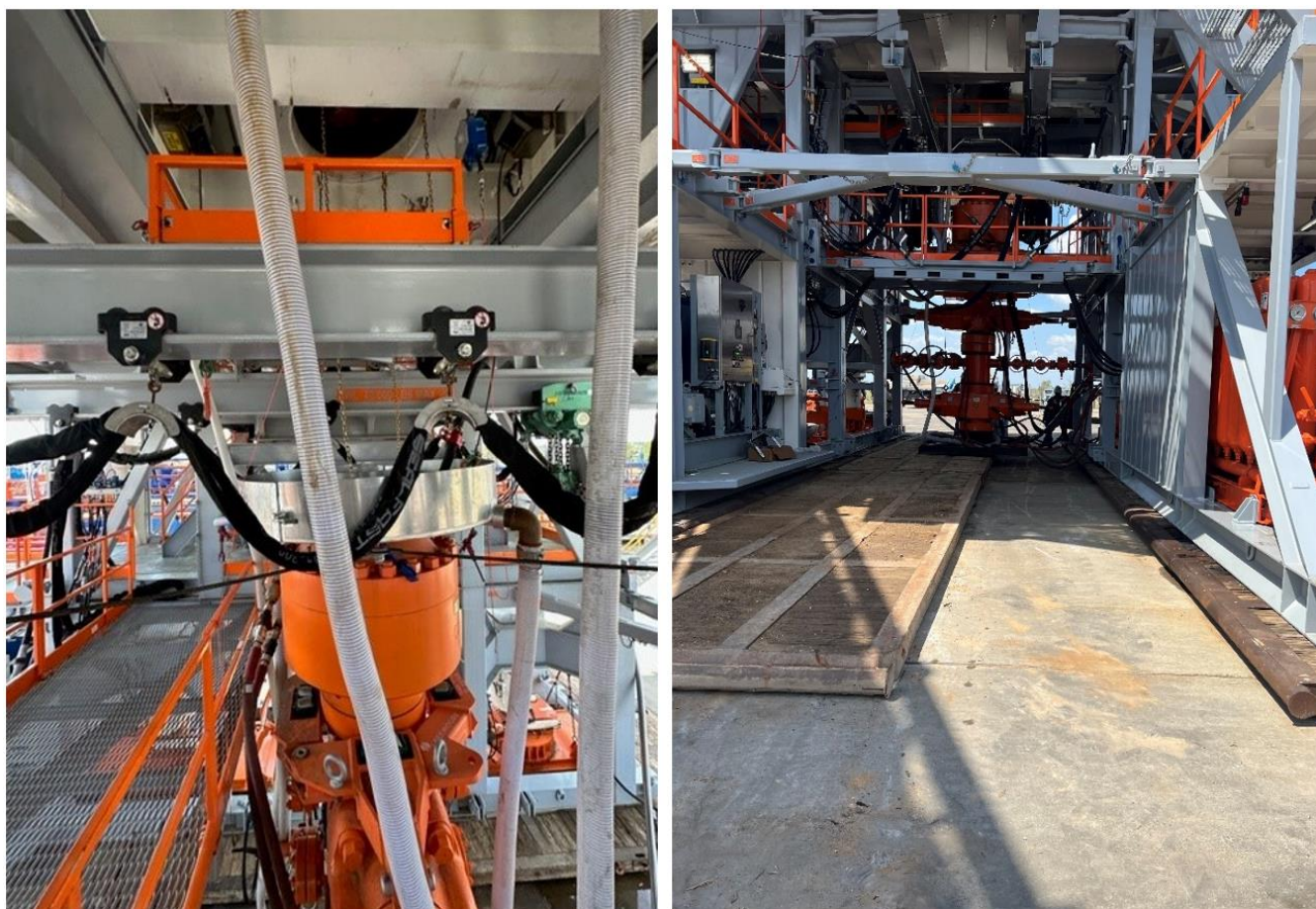
Township/Range: 22S 32E  
Elevation Above Sea Level: 3790'

Matador Production Company requests a variance to allow break testing the Blowout Preventer Equipment (BOPE) as prudent in batch drilling operations. Matador requests a variance from 43 CFR 3172.6(b)(9)(iv)(C) to only test broken pressure seals on the BOPE during batch (skid) drilling operations with multiple wells on the same pad.

### Justification

The Bureau of Land Management began issuing and revising Onshore Orders pertaining the exploration and development of oil and gas operations on federal onshore and Indian leases in 1983. These orders were later published in 1988, specifically OOGO No. 2 "Drilling Operations on Federal and Indian Oil and Gas Leases" was published November 18, 1988, and has since been the governing standard for over 30 years. This order was later codified in 43 CFR Subpart 3172 on June 16, 2023 with no substantive changes to the content. During which time, the oil and gas industry has seen significant advancements in technology and processes that facilitate safer and more efficient operations, some of those being improvements in rig and wellhead design. The improvements in rig design allow for the BOP stack to remain connected and intact while skidding and the changes in wellhead design complement this feature by utilizing quick connects from BOP to wellhead. The combination of these technologies allow for the rig to skid to the next well while only breaking two pressure sealing connections.

American Petroleum Institute (API) standards, specifications and recommended practices are considered an industry standard and are commonly referenced in 43 CFR 3172 and routinely used in APD COA's. API Standard 53 "Well Control Equipment Systems for Drilling Wells" recognizes break testing as an acceptable practice during batch drilling operations, specifically in API Std 53 Section 5.3.7.1.



Figures 1 & 2: BOP winch system picture with walking capabilities.



## Modified BOP Testing Procedure for Batch Drilling

With these enhancements to operations, Matador Production Company believes that break testing during batch drilling operations meets, and in most cases, exceeds the BLM's intent of 43 CFR 3172.6(b)(9)(iv)(C).

This variance request will be referenced and attached in all APDs seeking approval for break testing and will receive approval prior to implementing this variance.

### Procedure

1. Matador Production Company will follow the below guidelines prior to implementing break testing variance:
  - a. A full BOP test will be conducted on the first well on the pad.
    - i. Full BOP test will be conducted every 21 days per API Std 53, which is above 43 CFR 3172.6(b)(9)(iv)(D) 30 day requirement.
    - ii. Annular type preventers tested to 70% RWP per API Std 53, which is above 43 CFR 3172.6(b)(9)(iii) 50% requirement.
    - iii. Full BOP test will be conducted prior to drilling out any production hole sections.
  - b. The deepest first intermediate hole section will be drilled first.
    - i. All subsequent intermediate hole sections will be at same depth or shallower.
    - ii. The calculated maximum anticipated surface pressure (MASP) for intermediate hole section will be below 4500 psi.
    - iii. If any well control events are encountered, a full BOP test will be performed on subsequent well.
2. After performing a full BOP test on first well, the intermediate hole section will be drilled and cased per design, two breaks will be made on the BOP equipment:
  - a. One between the BOP quick connect adapter and wellhead.
  - b. One between the HCR valve and choke line connection.
3. Following that, the BOP will be lifted up from the wellhead using a hydraulic or winch system. The two connections will be broken as seen in **Figure 3**.
4. Once skidding to subsequent well is complete, the BOP will be installed on wellhead and the HCR-to-Choke line break will be reconnected.
5. The test plug will then be installed into wellhead.
6. A shell test will then be performed, testing both connections broken as seen in **Figure 4**.
  - a. The test will consist of a 250 psi low test and a high test equal to the BOP rating value submitted in the APD and as approved in COAs.
  - a. Break test procedure is the same for both 5M and 10M systems, only test pressures change.
7. Following a successful shell test, a function test of the lower pipe rams, blind rams, and annular preventer will be performed.
8. For multi-well pads, the same procedure will be followed for subsequent wells only if the next intermediate hole section can be drilled and cased with the 21-day BOP test window. If unable to be drilled in that time, a full BOP test will be performed.

## Modified BOP Testing Procedure for Batch Drilling

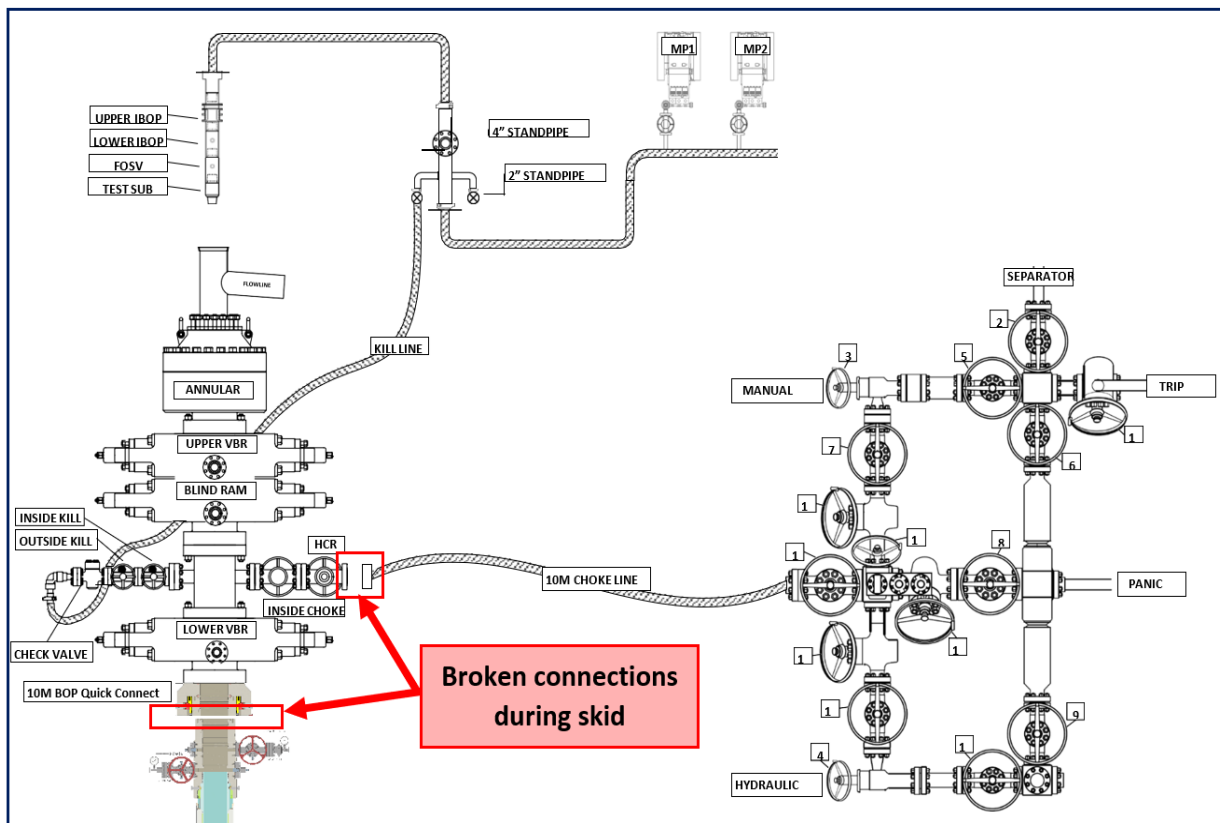


Figure 3: Shows which connections are broken during the skidding process

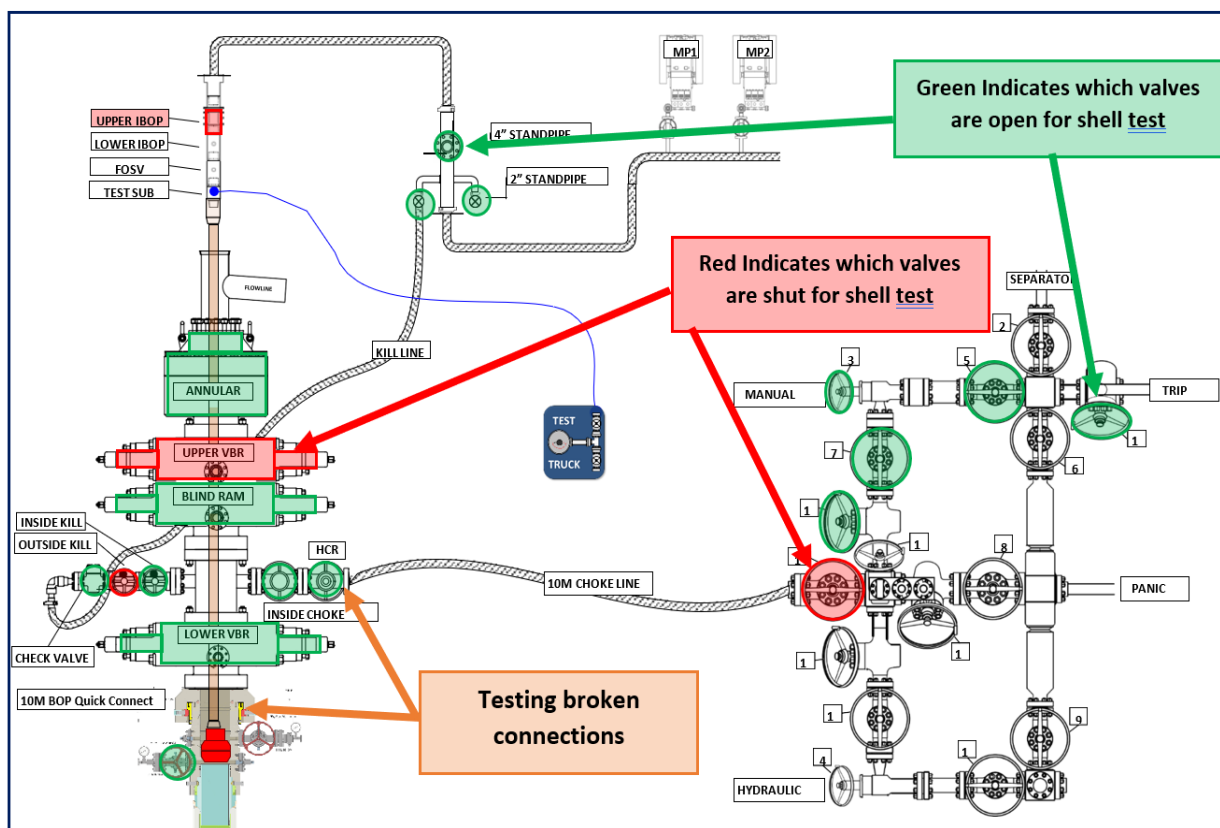


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## District Office

☐ **AMENDED REPORT**

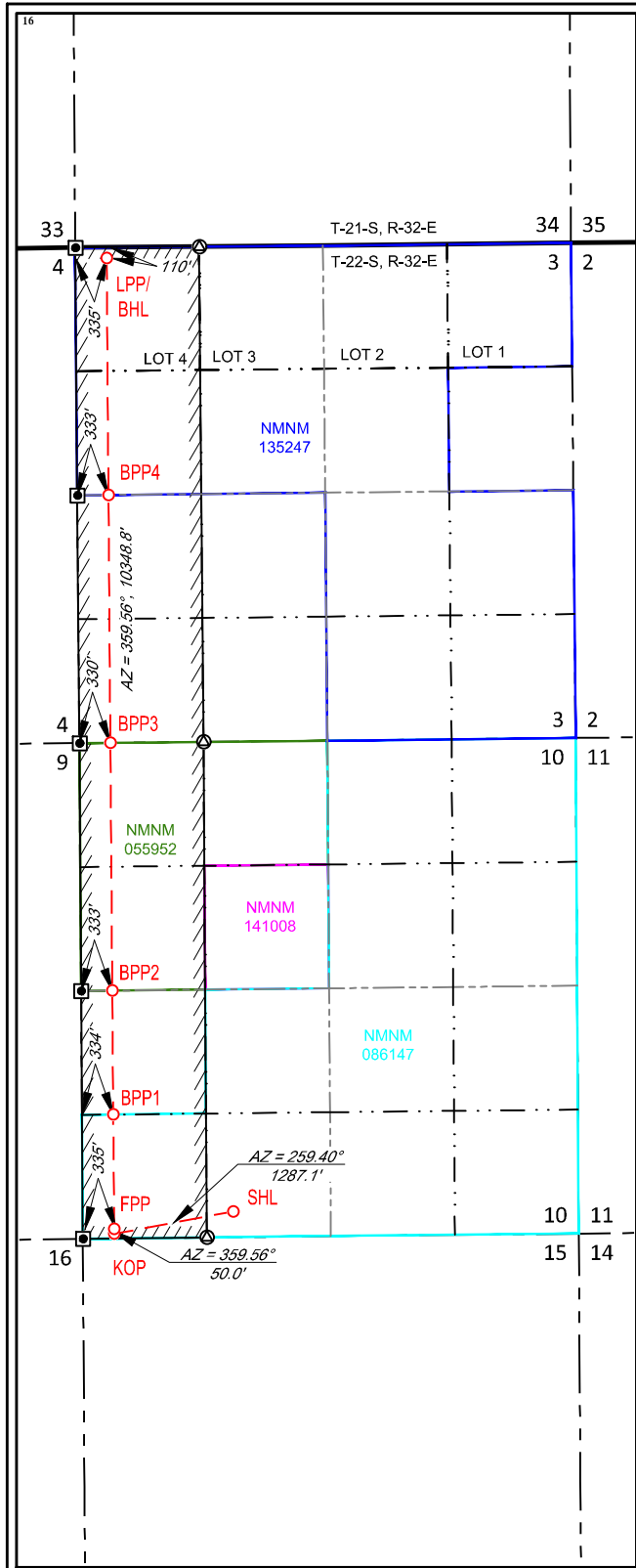
<sup>1</sup> API Number 30-025-51190	<sup>2</sup> Pool Code 98166	<sup>3</sup> Pool Name WC-025 G-09 S233216K; UPR WOLFCAMP
<sup>4</sup> Property Code 320841	<sup>5</sup> Property Name NINA CORTELL FED COM	
<sup>7</sup> OGRID No. 228937	<sup>8</sup> Operator Name MATADOR PRODUCTION COMPANY	<sup>6</sup> Well Number 241H  <sup>9</sup> Elevation 3790'

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22-S	32-E	—	272'	SOUTH	1601'	WEST	LEA

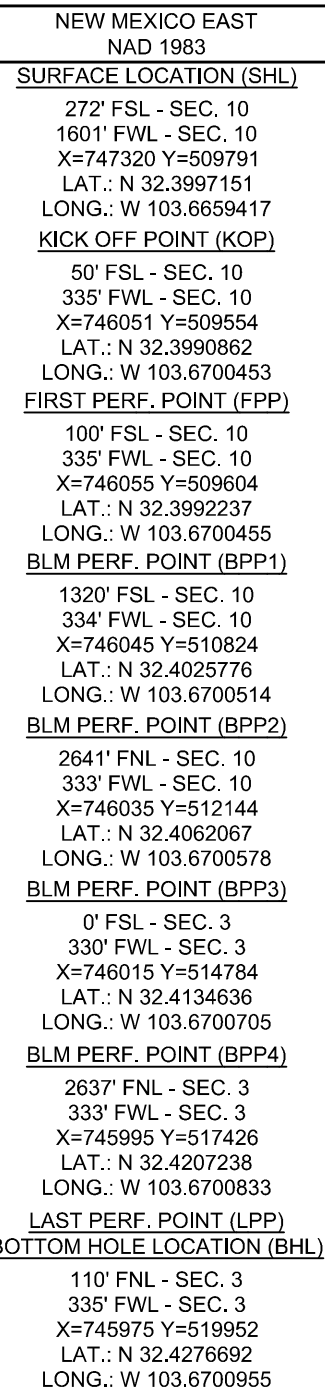
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	3	22-S	32-E	—	110'	NORTH	330'	WEST	LEA

<sup>12</sup> Dedicated Acres <b>319.92</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



<u>SURFACE LOCATION (SHL)</u>	<u>KICK OFF POINT (KOP)</u>
X=706138 Y=509730	X=704873 Y=509493
LAT.: N 32.3995923	LAT.: N 32.3989634
LONG.: W 103.6654543	LONG.: W 103.6695577
<u>FIRST PERF. POINT (FPP)</u>	<u>BLM PERF. POINT (BPP1)</u>
X=704783 Y=509543	X=704863 Y=510763
LAT.: N 32.3991008	LAT.: N 32.4024547
LONG.: W 103.6695508	LONG.: W 103.6695638
<u>BLM PERF. POINT (BPP2)</u>	<u>BLM PERF. POINT (BPP3)</u>
X=704853 Y=512084	X=704833 Y=514724
LAT.: N 32.4060839	LAT.: N 32.4133411
LONG.: W 103.6695700	LONG.: W 103.6695825
<u>LAST PERF. POINT (LPP)</u>	<u>BOTTOM HOLE LOCATION (BHL)</u>
X=704813 Y=517365	X=704793 Y=519891
LAT.: N 32.4206010	LAT.: N 32.4275465
LONG.: W 103.6695950	LONG.: W 103.6696069



 **TOPOGRAPHIC**  
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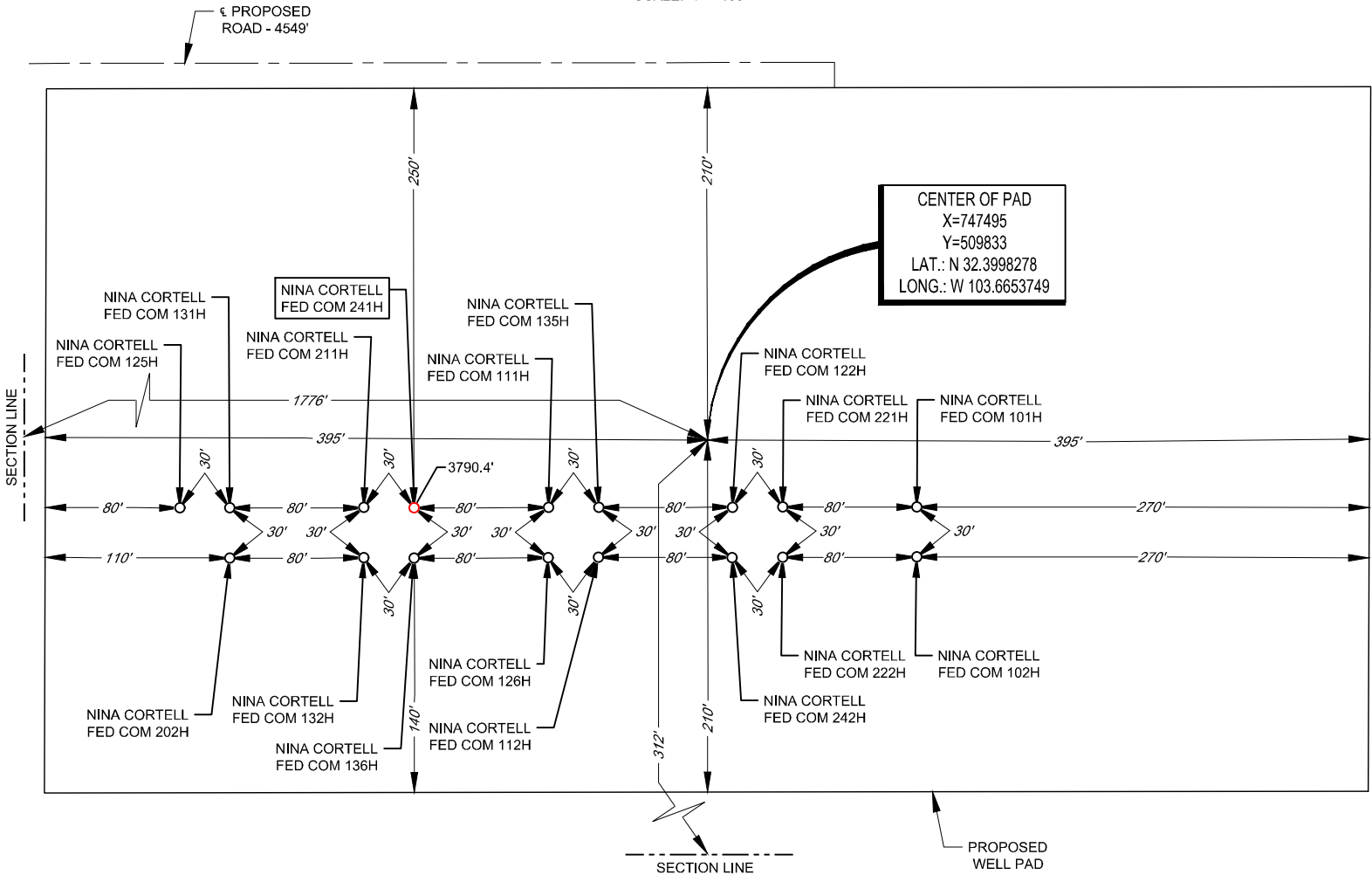


## LEGEND

----- SECTION LINE  
 - - - - - PROPOSED ROAD

SECTION 10, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

DETAIL VIEW  
 SCALE: 1" = 100'



LEASE NAME & WELL NO.: NINA CORTELL FED COM 241H  
 241H LATITUDE N 32.3997151 241H LONGITUDE W 103.6659417

CENTER OF PAD IS 312' FSL & 1776' FWL



Angel M. Baeza, P.S. No. 25116

May 4, 2023

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



SCALE: 1" = 100'  
 0' 50' 100'

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 LOYALTY INNOVATION LEGACY  
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 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM



**Casing Specs - 10.75" 45.5lb BUTT-SC**

Nina Cortell Fed Com 241H  
SHL: 272' FSL & 1601' FWL Section 10

Township/Range: 22S 32E  
Elevation Above Sea Level: 3790'

**API 5CT 10.750" 45.50lb/ft HCL80 Casing Performance Data Sheet**

Manufactured to specifications of API 5CT 9th edition and bears the API monogram.

Grade	HCL80
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**Pipe Body Mechanical Properties**

Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23.0 HRC

**Sizes**

OD	10 3/4
Nominal Wall Thickness	.400 in
Nominal Weight, T&C	45.50 lb/ft
Nominal Weight, PE	44.26 lb/ft
Nominal ID	9.950 in
Standard Drift	9.794 in
Alternate Drift	9.875 in

<b>Coupling Special Clearance</b>	<b>Size</b>
OD	11.25 in
Min. Length	10.625 in
Diameter of Counter Bore	10.890 in
Width of bearing face	.375 in

**Minimum Performance**

Collapse Pressure	2,940 psi
Internal Pressure Yield	5,210 psi
Pipe body Tension Yield	1,040,000 lbs
Joint Strength STC	692,000 lbs
Joint Strength LTC	N/A
Joint Strength BTC	1,063,000 lbs

**Inspection and Testing**

Visual	OD Longitudinal and independent 3rd party SEA
NDT	Independent 3rd party full body EMI and End Area Inspection after hydrotest Calibration notch sensitivity: 10% of specified wall thickness

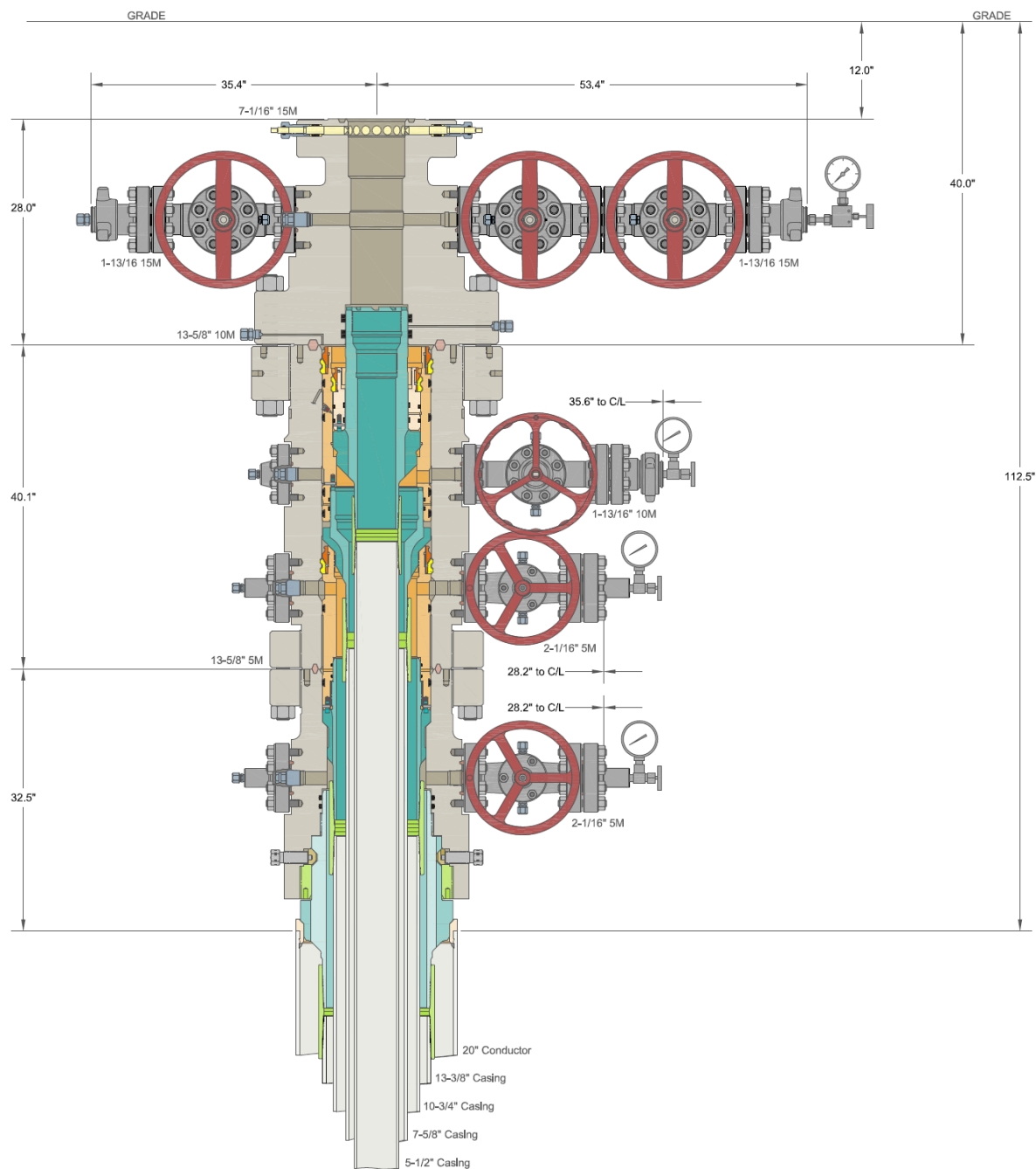
**Color code**

Pipe ends	One red, one brown and one blue band
Couplings	Red with one brown band



**Nina Cortell Fed Com 241H**  
**SHL: 272' FSL & 1601' FWL Section 10**

Township/Range: 22S 32E  
Elevation Above Sea Level: 3790'



ALL DIMENSIONS APPROXIMATE

MATADOR PRODUCTION COMPANY  
NEW MEXICO

DRAWN	DLE	01AUG23
APPRV		
DRAWING NO. HBE0000957		

## Casing Design Criteria and Load Case Assumptions

**Nina Cortell Fed Com 241H**  
**SHL: 272' FSL & 1601' FWL Section 10**

**Township/Range: 22S 32E**  
**Elevation Above Sea Level: 3790'**

### Surface Casing

Collapse:  $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst:  $DF_b = 1.125$

- a. Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile:  $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

### Intermediate #1 Casing

Collapse:  $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst:  $DF_b = 1.125$

- a. Pressure Test: Casing test per Title 43 CFR 3172 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- b. Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- c. Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile:  $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

### Intermediate #2 Casing

Collapse:  $DF_c = 1.125$

- a. Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

## Casing Design Criteria and Load Case Assumptions

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Burst:  $DF_b = 1.125$

- a. Pressure Test: Casing test per Title 43 CFR 3172 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- b. Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- c. Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile:  $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

### **Production Casing**

Collapse:  $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst:  $DF_b = 1.125$

- a. Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- b. Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile:  $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 335338

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335338
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	2/5/2025