

Well Name: NINA CORTELL FED COM	Well Location: T22S / R32E / SEC 10 / SESW / 32.3996342 / -103.6655856	County or Parish/State: LEA / NM
Well Number: 112H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM086147	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551461	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2778256

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 03/07/2024	Time Sundry Submitted: 07:23
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 #112H and make the following changes to the current APD: - Change well name from the Nina Cortell Fed Com #112H to the Nina Cortell Fed Com #135H - Change SHL from 242' FSL & 1711' FWL to 272' FSL & 1681' FWL. Surface hole remains on previously approved pad. - Change BHL from 61' FNL & 1980' FWL to 110' FNL & 330' FWL. All perforations will be within the setback requirements as previously approved. - Change target zone from First Bone Spring to Third Bone Spring - Amend casing and cementing plan by changing intermediate 1 casing from 7-5/8" to 9-5/8" and revising set depths as described in the Sundry Info attachment.

NOI Attachments

Procedure Description

- Nina_Cortell_Fed_Com_135H_Offline_Cementing___Surface_20240307071941.pdf
- Nina_Cortell_Fed_Com_135H_Directional_AC_20240307071938.pdf
- Nina_Cortell_Fed_Com_135H_3_String_Wellhead_Diagram_20240307071938.pdf
- Nina_Cortell_Fed_Com_135H_Break_Testing_Sundry_20240307071938.pdf
- Nina_Cortell_Fed_Com_135H_Offline_Cementing___Int_20240307071938.pdf
- Nina_Cortell_Fed_Com_135H_Directional_Well_Plan_20240307071938.pdf
- Nina_Cortell_Fed_Com_135H_Directional_Wall_Plot_20240307071938.pdf

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Nina_Cortell_Fed_Com_135H_Sundry_Info_20240307071845.pdf

LO_NINA_CORTELL_FED_COM_135H_REV1_S_20240307071820.pdf

Conditions of Approval

Additional

NINA_CORTELL_FED_COM135H_ENG_COA_20240318151840.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 07:17 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.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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 / 242 FSL / 1711 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.3996342 / LONG: -103.6655856 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 100 FSL / 1980 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.3992471 / LONG: -103.6647146 (TVD: 9873 feet, MD: 9946 feet)
PPP: SENW / 2633 FNL / 1978 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4207416 / LONG: -103.6647513 (TVD: 10031 feet, MD: 17700 feet)
PPP: NENW / 1320 FNL / 1977 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.4098547 / LONG: -103.6647327 (TVD: 10035 feet, MD: 13800 feet)
PPP: SENW / 2639 FNL / 1978 FWL / TWSP: 22S / RANGE: 32E / SECTION: 10 / LAT: 32.4062272 / LONG: -103.6647265 (TVD: 10036 feet, MD: 12500 feet)
BHL: LOT 3 / 60 FNL / 1980 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4278139 / LONG: -103.6647633 (TVD: 10029 feet, MD: 20269 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	NINA CORTELL FED COM 135H
APD ID:	10400082278
SURFACE HOLE FOOTAGE:	272'/S & 1681'/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 ₂ 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 (H₂S) 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 9-5/8 inch intermediate casing shall be set at approximately **4,917 ft. (4,896 ft. TVD)**. The minimum required fill of cement behind the 9-5/8 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 intermediate casing must be kept fluid-filled to meet the CFO's minimum collapse design requirement.

Note: Excess cement volume for 2nd 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 3rd casing string must come to surface.
- ❖ Operator is responsible to report the following within two miles of mineworking to BLM Geologist 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.

Note: Intermediate casing must be kept fluid-filled to meet CFO's collapse design requirement.

3. Operator has proposed to set **5-1/2 in.** production casing at approximately **21,748 ft.** (11,450 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 **5000 (5M) psi**. 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

(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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **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 03/18/2024

Offline Cementing - Surface Casing

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10

Township/Range: 22S 32E
Elevation Above Sea Level: 3,790"

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

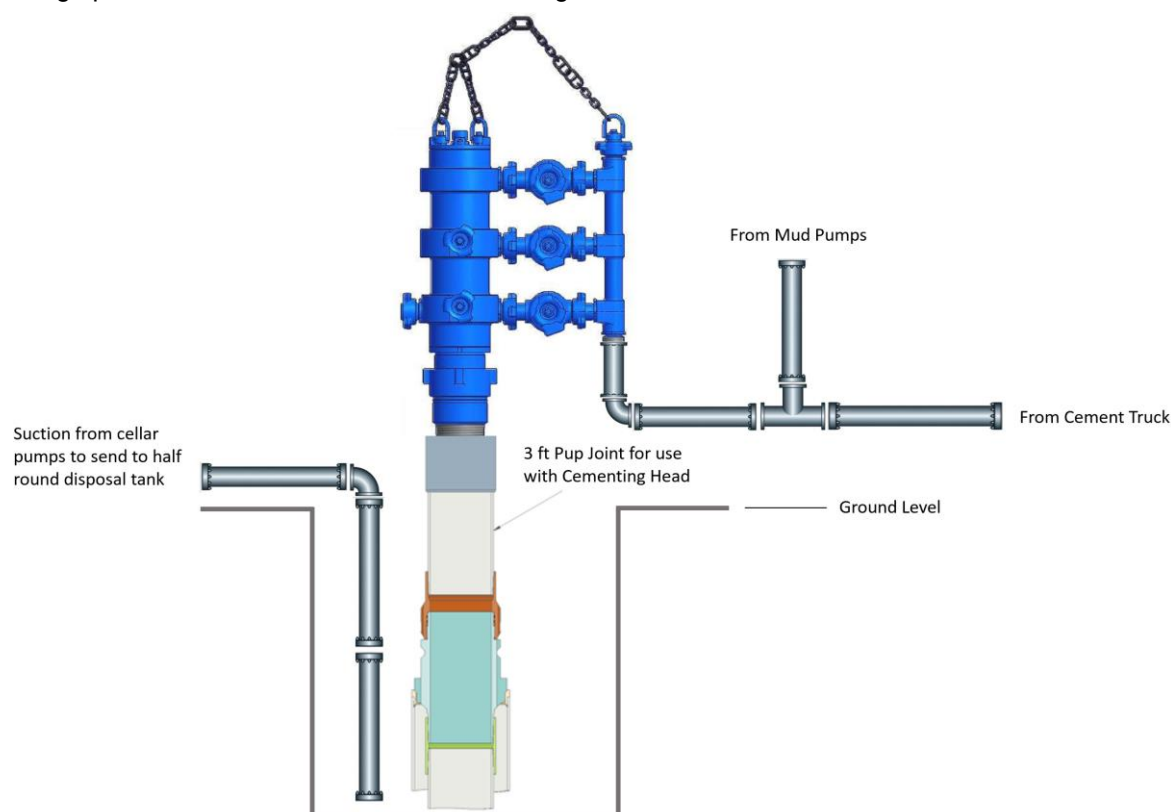
Cement Program

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, confirm integrity of the float equipment (float collar and shoe).
 2. Land casing with mandrel.
 3. Install cap flange.
 4. Skid rig 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 #135H

Wellbore #1

BLM Plan #2

Anticollision Report

21 February, 2024

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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

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

Survey Tool Program	Date	2/21/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,757.9	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 #113H - Wellbore #1 - BLM Plan #	4,208.6	4,539.9	2,403.5	2,372.4	77.438	CC
Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #	4,400.0	4,731.3	2,404.0	2,371.6	74.060	ES
Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #	21,757.9	20,230.6	3,307.1	2,989.2	10.402	SF
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	0.0	1.0	2,453.2			
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	200.0	201.0	2,453.9	2,452.9	2,511.088	ES
Nina Cortell Fed Com #114H - Wellbore #1 - BLM Plan #	21,757.9	20,222.0	4,532.9	4,200.4	13.631	SF
Nina Cortell Fed Com #121H - Wellbore #1 - Actual Surv	17,282.6	10,486.3	1,436.0	1,371.4	22.223	CC
Nina Cortell Fed Com #121H - Wellbore #1 - Actual Surv	20,700.0	20,700.0	1,487.2	1,318.1	8.796	ES, SF
Nina Cortell Fed Com #125H - Wellbore #1 - Actual	10,502.2	10,505.3	83.3	7.6	1.100	Level 2, CC, ES, SF
Nina Cortell Fed Com #126H - Wellbore #1 - BLM Plan #	658.1	658.0	29.1	24.9	6.833	CC
Nina Cortell Fed Com #126H - Wellbore #1 - BLM Plan #	900.0	900.1	29.8	23.8	4.960	ES
Nina Cortell Fed Com #126H - Wellbore #1 - BLM Plan #	1,200.0	1,199.7	33.5	25.3	4.106	SF
Nina Cortell Fed Com #127H - Wellbore #1 - BLM Plan #	4,218.1	4,539.3	2,323.5	2,292.4	74.792	CC
Nina Cortell Fed Com #127H - Wellbore #1 - BLM Plan #	4,500.0	4,821.3	2,324.8	2,291.6	70.100	ES
Nina Cortell Fed Com #127H - Wellbore #1 - BLM Plan #	21,757.9	21,075.4	3,031.3	2,689.4	8.866	SF
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	0.0	1.0	2,373.3			
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	200.0	201.0	2,373.9	2,372.9	2,429.277	ES
Nina Cortell Fed Com #128H - Wellbore #1 - BLM Plan #	21,757.9	21,144.5	4,322.6	3,976.9	12.502	SF
Nina Cortell Fed Com #131H - Actual - Actual	3,199.4	3,193.8	64.2	41.6	2.832	CC
Nina Cortell Fed Com #131H - Actual - Actual	3,200.0	3,194.4	64.2	41.5	2.831	ES
Nina Cortell Fed Com #131H - Actual - Actual	21,756.2	22,116.0	749.2	437.3	2.402	SF
Nina Cortell Fed Com #132H - Wellbore #1 - BLM Plan #	2,145.2	2,145.3	21.5	6.6	1.441	Level 3, CC, ES, SF
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	0.0	0.0	2,263.3			
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	1,800.0	1,906.1	2,272.9	2,260.3	180.044	ES
Nina Cortell Fed Com #133H - Wellbore #1 - Wellbore #1	21,757.9	22,057.0	3,246.8	2,899.6	9.353	SF
Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1	0.0	0.0	2,263.2			
Nina Cortell Fed Com #134H - Wellbore #1 - Wellbore #1	21,757.9	22,275.0	4,583.8	4,235.3	13.155	SF
Nina Cortell Fed Com #136H - Wellbore #1 - BLM Plan #	1,530.5	1,528.6	52.4	42.0	5.027	CC, ES
Nina Cortell Fed Com #136H - Wellbore #1 - BLM Plan #	21,757.9	21,614.1	1,319.0	969.6	3.774	SF
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	4,041.5	4,342.5	2,238.6	2,208.8	75.209	CC
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	10,950.0	10,955.1	2,249.1	2,170.1	28.467	ES
Nina Cortell Fed Com #137H (Previous #223H) - Wellbor	21,757.9	21,657.6	2,645.2	2,295.5	7.563	SF
Nina Cortell Fed Com #138H (Previous #224H) - Wellbor	0.0	0.0	2,343.2			
Nina Cortell Fed Com #138H (Previous #224H) - Wellbor	200.0	200.0	2,343.8	2,342.8	2,407.310	ES
Nina Cortell Fed Com #138H (Previous #224H) - Wellbor	21,757.9	21,599.3	3,967.3	3,618.5	11.376	SF
Nina Cortell Fed Com #201H - Wellbore #1 - Actual Surv	16,620.5	11,474.0	141.6	7.9	1.059	Level 2, CC, ES, SF
Nina Cortell Fed Com #202H - Wellbore #1 - Actual	3,611.0	3,603.3	40.6	15.1	1.593	CC, ES, 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 #135H
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 #135H	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

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 #203H - Sidetrack - Sidetrack	2,282.6	2,447.0	2,209.1	2,193.0	136.378	CC
Nina Cortell Fed Com #203H - Sidetrack - Sidetrack	2,600.0	2,775.1	2,211.2	2,192.6	119.262	ES
Nina Cortell Fed Com #203H - Sidetrack - Sidetrack	21,757.9	22,292.0	2,752.9	2,409.9	8.024	SF
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	2,282.6	2,447.0	2,209.1	2,193.0	136.378	CC
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	2,600.0	2,775.1	2,211.2	2,192.6	119.261	ES
Nina Cortell Fed Com #203H - Wellbore #1 - Wellbore #1	11,200.0	11,211.6	2,345.5	2,264.9	29.110	SF
Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1	0.0	0.0	2,233.2			
Nina Cortell Fed Com #204H - Wellbore #1 - Wellbore #1	21,757.9	22,191.0	4,072.9	3,725.9	11.738	SF
Nina Cortell Fed Com #211H - Wellbore #1 - BLM Plan #	1,844.1	1,840.5	66.7	54.0	5.245	CC
Nina Cortell Fed Com #211H - Wellbore #1 - BLM Plan #	1,900.0	1,895.7	66.9	53.8	5.105	ES
Nina Cortell Fed Com #211H - Wellbore #1 - BLM Plan #	7,100.0	7,088.6	113.2	60.5	2.150	SF
Nina Cortell Fed Com #241H - Wellbore #1 - BLM Plan #	2,175.4	2,173.5	18.4	3.2	1.210	Level 2, CC
Nina Cortell Fed Com #241H - Wellbore #1 - BLM Plan #	2,200.0	2,201.9	18.5	3.1	1.201	Level 2, ES, SF

Offset Design Nina Cortell - Nina Cortell Fed Com #113H - Wellbore #1 - BLM Plan #1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD													Offset Well Error: 0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	90.06	-2.4	2,453.2	2,453.2				
100.0	100.0	101.0	99.0	0.1	0.1	-165.88	-2.4	2,453.2	2,453.4	2,453.1	0.26	9,406.951	
200.0	200.0	201.0	199.0	0.5	0.5	-165.88	-2.4	2,453.2	2,453.8	2,452.9	0.98	2,511.056	
300.0	300.0	301.0	299.0	0.8	0.8	-165.89	-2.4	2,453.2	2,454.6	2,452.9	1.69	1,448.770	
400.0	400.0	401.0	399.0	1.2	1.2	-165.89	-2.4	2,453.2	2,455.8	2,453.3	2.41	1,018.365	
500.0	500.0	501.0	499.0	1.6	1.6	-165.90	-2.4	2,453.2	2,457.2	2,454.1	3.13	785.362	
600.0	600.0	601.0	599.0	1.9	1.9	-165.91	-2.4	2,453.2	2,458.9	2,455.1	3.85	639.333	
700.0	699.9	701.1	698.9	2.3	2.3	-165.92	-2.4	2,453.2	2,461.0	2,456.5	4.56	539.273	
800.0	799.9	801.1	798.9	2.6	2.6	-165.94	-2.4	2,453.2	2,463.4	2,458.1	5.28	466.450	
900.0	899.9	901.1	898.9	3.0	3.0	-165.95	-2.4	2,453.2	2,466.1	2,460.1	6.00	411.094	
1,000.0	999.8	1,001.2	998.8	3.4	3.4	-165.97	-2.4	2,453.2	2,469.2	2,462.5	6.72	367.608	
1,100.0	1,099.8	1,101.2	1,098.8	3.7	3.7	-165.98	-2.4	2,453.2	2,472.5	2,465.1	7.43	332.555	
1,200.0	1,199.7	1,201.3	1,198.7	4.1	4.1	-166.00	-2.4	2,453.2	2,476.2	2,468.1	8.15	303.710	
1,300.0	1,299.6	1,301.4	1,298.6	4.5	4.4	-166.02	-2.4	2,453.2	2,480.2	2,471.3	8.87	279.565	
1,400.0	1,399.5	1,401.5	1,398.5	4.8	4.8	-166.05	-2.4	2,453.2	2,484.5	2,474.9	9.59	259.066	
1,500.0	1,499.4	1,498.4	1,498.4	5.2	5.1	-166.07	-2.4	2,453.2	2,489.1	2,478.9	10.30	241.722	
1,600.0	1,599.3	1,669.3	1,669.3	5.6	5.7	-166.10	-3.0	2,450.8	2,492.7	2,481.5	11.24	221.676	
1,700.0	1,699.1	1,841.6	1,841.4	5.9	6.3	-166.11	-5.1	2,443.4	2,493.7	2,481.5	12.18	204.656	
1,800.0	1,798.9	2,013.9	2,013.2	6.3	6.9	-166.08	-8.5	2,431.0	2,492.1	2,479.0	13.12	189.918	
1,900.0	1,898.8	2,185.8	2,184.2	6.7	7.5	-166.03	-13.3	2,413.7	2,487.9	2,473.8	14.05	177.024	
2,000.0	1,998.6	2,333.3	2,330.4	7.0	8.1	-165.97	-18.5	2,395.0	2,481.3	2,466.4	14.91	166.438	
2,100.0	2,098.3	2,433.1	2,429.2	7.4	8.5	-165.93	-22.3	2,381.6	2,474.4	2,458.8	15.62	158.403	
2,200.0	2,198.1	2,532.8	2,528.0	7.8	8.8	-165.88	-26.0	2,368.3	2,467.8	2,451.5	16.34	151.065	
2,300.0	2,297.8	2,632.6	2,626.8	8.1	9.2	-165.84	-29.7	2,354.9	2,461.6	2,444.5	17.05	144.342	
2,400.0	2,397.5	2,732.4	2,725.6	8.5	9.6	-165.80	-33.4	2,341.5	2,455.7	2,437.9	17.77	138.163	
2,500.0	2,497.2	2,832.3	2,824.5	8.9	10.0	-165.76	-37.1	2,328.1	2,450.0	2,431.5	18.50	132.468	
2,600.0	2,596.8	2,932.1	2,923.4	9.3	10.4	-165.72	-40.9	2,314.7	2,444.7	2,425.5	19.22	127.205	
2,700.0	2,696.4	3,032.0	3,022.2	9.7	10.8	-165.69	-44.6	2,301.3	2,439.8	2,419.8	19.94	122.330	
2,800.0	2,796.0	3,131.8	3,121.1	10.0	11.2	-165.65	-48.3	2,287.9	2,435.1	2,414.4	20.67	117.804	
2,900.0	2,895.6	3,231.7	3,220.1	10.4	11.6	-165.62	-52.0	2,274.5	2,430.8	2,409.4	21.40	113.592	

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 #135H
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 #135H	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		
3,000.0	2,995.1	3,331.6	3,319.0	10.8	12.0	-165.59	-55.7	2,261.1	2,426.8	2,404.6	22.13	109.665		
3,100.0	3,094.6	3,431.6	3,418.0	11.2	12.4	-165.56	-59.5	2,247.7	2,423.1	2,400.2	22.86	105.997		
3,200.0	3,194.1	3,531.5	3,516.9	11.6	12.8	-165.53	-63.2	2,234.3	2,419.7	2,396.1	23.59	102.563		
3,300.0	3,293.5	3,631.5	3,615.9	12.0	13.2	-165.50	-66.9	2,220.9	2,416.6	2,392.3	24.33	99.345		
3,400.0	3,392.9	3,731.4	3,714.9	12.4	13.6	-165.48	-70.6	2,207.5	2,413.9	2,388.8	25.06	96.324		
3,500.0	3,492.2	3,831.4	3,813.9	12.7	14.0	-165.46	-74.4	2,194.1	2,411.5	2,385.7	25.80	93.483		
3,600.0	3,591.6	3,931.3	3,912.9	13.1	14.4	-165.44	-78.1	2,180.7	2,409.4	2,382.8	26.53	90.808		
3,700.0	3,690.8	4,031.3	4,011.9	13.5	14.8	-165.42	-81.8	2,167.3	2,407.6	2,380.3	27.27	88.286		
3,800.0	3,790.1	4,131.3	4,110.9	13.9	15.2	-165.40	-85.5	2,153.9	2,406.1	2,378.1	28.01	85.905		
3,900.0	3,889.3	4,231.3	4,209.9	14.3	15.6	-165.39	-89.3	2,140.5	2,405.0	2,376.2	28.75	83.655		
4,000.0	3,988.4	4,331.3	4,308.9	14.7	16.0	-165.37	-93.0	2,127.1	2,404.1	2,374.7	29.49	81.526		
4,100.0	4,087.5	4,431.3	4,408.0	15.2	16.5	-165.36	-96.7	2,113.7	2,403.6	2,373.4	30.23	79.510		
4,200.0	4,186.6	4,531.3	4,507.0	15.6	16.9	-165.35	-100.5	2,100.3	2,403.5	2,372.5	30.97	77.598		
4,208.6	4,195.1	4,539.9	4,515.5	15.6	16.9	-165.35	-100.8	2,099.1	2,403.5	2,372.4	31.04	77.438 CC		
4,300.0	4,285.6	4,631.3	4,606.0	16.0	17.3	-165.34	-104.2	2,086.9	2,403.6	2,371.9	31.72	75.783		
4,400.0	4,384.6	4,731.3	4,705.0	16.4	17.7	-165.34	-107.9	2,073.5	2,404.0	2,371.6	32.46	74.060 ES		
4,500.0	4,483.5	4,831.3	4,804.1	16.8	18.1	-165.33	-111.6	2,060.0	2,404.8	2,371.6	33.21	72.422		
4,600.0	4,582.4	4,931.3	4,903.1	17.2	18.5	-165.33	-115.4	2,046.6	2,405.9	2,371.9	33.95	70.863		
4,700.0	4,681.2	5,031.3	5,002.1	17.6	18.9	-165.33	-119.1	2,033.2	2,407.3	2,372.6	34.70	69.379		
4,800.0	4,780.0	5,131.3	5,101.1	18.1	19.4	-165.33	-122.8	2,019.8	2,409.0	2,373.6	35.45	67.965		
4,900.0	4,878.7	5,231.2	5,200.1	18.5	19.8	-165.33	-126.5	2,006.4	2,411.1	2,374.9	36.19	66.616		
5,000.0	4,977.4	5,331.2	5,299.1	18.9	20.2	-165.34	-130.3	1,993.0	2,413.4	2,376.5	36.94	65.330		
5,100.0	5,076.0	5,431.2	5,398.1	19.3	20.6	-165.34	-134.0	1,979.6	2,416.1	2,378.4	37.69	64.102		
5,180.6	5,155.5	5,511.7	5,477.9	19.7	20.9	-165.35	-137.0	1,968.8	2,418.5	2,380.2	38.30	63.152		
5,200.0	5,174.6	5,531.1	5,497.1	19.8	21.0	-165.35	-137.7	1,966.2	2,419.1	2,380.7	38.44	62.929		
5,300.0	5,273.2	5,631.1	5,596.1	20.2	21.4	-165.36	-141.4	1,952.8	2,422.2	2,383.0	39.19	61.802		
5,400.0	5,371.7	5,731.0	5,695.0	20.6	21.9	-165.37	-145.2	1,939.4	2,425.3	2,385.4	39.94	60.718		
5,500.0	5,470.2	5,831.0	5,794.0	21.1	22.3	-165.38	-148.9	1,926.0	2,428.4	2,387.7	40.70	59.673		
5,600.0	5,568.8	5,930.9	5,893.0	21.5	22.7	-165.39	-152.6	1,912.6	2,431.5	2,390.1	41.45	58.665		
5,700.0	5,667.3	6,030.9	5,992.0	22.0	23.1	-165.41	-156.3	1,899.2	2,434.6	2,392.4	42.20	57.693		
5,755.0	5,721.5	6,085.8	6,046.4	22.2	23.3	-165.41	-158.4	1,891.8	2,436.3	2,393.7	42.61	57.173		
5,800.0	5,765.9	6,130.8	6,091.0	22.4	23.5	-165.42	-160.1	1,885.8	2,437.7	2,394.7	42.95	56.754		
5,900.0	5,864.5	6,230.8	6,189.9	22.8	23.9	-165.43	-163.8	1,872.4	2,440.5	2,396.8	43.70	55.840		
6,000.0	5,963.1	6,330.8	6,288.9	23.3	24.4	-165.43	-167.5	1,859.0	2,442.9	2,398.5	44.46	54.951		
6,100.0	6,061.9	6,430.7	6,387.9	23.7	24.8	-165.44	-171.2	1,845.6	2,445.1	2,399.9	45.21	54.085		
6,200.0	6,160.6	6,530.7	6,487.0	24.1	25.2	-165.44	-175.0	1,832.2	2,446.9	2,401.0	45.96	53.240		
6,300.0	6,259.4	6,630.7	6,586.0	24.6	25.6	-165.44	-178.7	1,818.8	2,448.5	2,401.7	46.71	52.416		
6,400.0	6,358.3	6,730.7	6,685.0	25.0	26.0	-165.44	-182.4	1,805.4	2,449.7	2,402.2	47.46	51.611		
6,500.0	6,457.2	6,830.7	6,784.0	25.4	26.5	-165.44	-186.1	1,791.9	2,450.5	2,402.3	48.21	50.826		
6,600.0	6,556.2	6,930.7	6,883.0	25.8	26.9	-165.44	-189.9	1,778.5	2,451.1	2,402.1	48.97	50.058		
6,700.0	6,655.2	7,030.7	6,982.1	26.3	27.3	-165.43	-193.6	1,765.1	2,451.3	2,401.6	49.72	49.307		
6,700.2	6,655.3	7,030.9	6,982.2	26.3	27.3	-165.43	-193.6	1,765.1	2,451.3	2,401.6	49.72	49.306		
6,800.0	6,754.2	7,100.0	7,050.7	26.7	27.6	-165.42	-196.1	1,755.9	2,451.6	2,401.2	50.37	48.673		
6,900.0	6,853.3	7,169.9	7,120.0	27.1	27.9	-165.42	-198.4	1,747.7	2,452.9	2,401.8	51.01	48.084		
7,000.0	6,952.4	7,231.7	7,181.5	27.5	28.1	-165.43	-200.2	1,741.4	2,455.4	2,403.8	51.61	47.572		
7,100.0	7,051.6	7,300.0	7,249.6	27.9	28.4	-165.44	-201.8	1,735.6	2,459.2	2,407.0	52.23	47.084		
7,200.0	7,150.8	7,355.1	7,304.5	28.3	28.6	-165.46	-202.9	1,731.7	2,464.2	2,411.4	52.78	46.692		
7,300.0	7,250.1	7,416.6	7,365.9	28.7	28.8	-165.48	-203.8	1,728.3	2,470.5	2,417.1	53.33	46.322		
7,400.0	7,349.4	7,478.1	7,427.3	29.1	29.0	-165.51	-204.5	1,725.9	2,477.9	2,424.0	53.87	45.995		
7,500.0	7,448.8	7,539.4	7,488.6	29.6	29.2	-165.55	-204.9	1,724.4	2,486.6	2,432.2	54.39	45.714		
7,600.0	7,548.1	7,611.2	7,547.1	30.0	29.5	-165.59	-205.1	1,723.9	2,496.5	2,441.6	54.93	45.449		
7,700.0	7,647.6	7,702.7	7,646.6	30.4	29.8	-165.65	-205.1	1,723.9	2,507.0	2,451.4	55.60	45.091		

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 #135H
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 #135H	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		
7,800.0	7,747.0	7,803.2	7,746.0	30.7	30.1	-165.72	-205.1	1,723.9	2,517.2	2,460.9	56.30	44.711		
7,900.0	7,846.5	7,903.8	7,845.5	31.1	30.4	-165.78	-205.1	1,723.9	2,527.0	2,470.0	57.00	44.336		
8,000.0	7,946.0	8,004.2	7,945.0	31.5	30.7	-165.84	-205.1	1,723.9	2,536.5	2,478.8	57.70	43.963		
8,100.0	8,045.5	8,104.7	8,044.5	31.9	31.0	-165.90	-205.1	1,723.9	2,545.7	2,487.3	58.40	43.594		
8,200.0	8,145.1	8,205.1	8,144.1	32.3	31.3	-165.95	-205.1	1,723.9	2,554.6	2,495.5	59.09	43.229		
8,300.0	8,244.7	8,305.5	8,243.7	32.7	31.7	-166.00	-205.1	1,723.9	2,563.2	2,503.4	59.79	42.867		
8,400.0	8,344.4	8,405.9	8,343.4	33.1	32.0	-166.05	-205.1	1,723.9	2,571.4	2,511.0	60.49	42.508		
8,500.0	8,444.0	8,506.2	8,443.0	33.5	32.3	-166.10	-205.1	1,723.9	2,579.4	2,518.2	61.19	42.151		
8,600.0	8,543.7	8,606.5	8,542.7	33.8	32.6	-166.14	-205.1	1,723.9	2,587.0	2,525.1	61.89	41.798		
8,700.0	8,643.4	8,706.8	8,642.4	34.2	32.9	-166.19	-205.1	1,723.9	2,594.3	2,531.7	62.59	41.448		
8,800.0	8,743.2	8,807.1	8,742.2	34.6	33.3	-166.23	-205.1	1,723.9	2,601.3	2,538.0	63.29	41.101		
8,900.0	8,843.0	8,907.3	8,842.0	35.0	33.6	-166.27	-205.1	1,723.9	2,608.0	2,544.0	63.99	40.756		
9,000.0	8,942.7	9,007.5	8,941.7	35.3	33.9	-166.30	-205.1	1,723.9	2,614.3	2,549.6	64.69	40.413		
9,100.0	9,042.5	9,107.7	9,041.5	35.7	34.2	-166.34	-205.1	1,723.9	2,620.4	2,555.0	65.39	40.074		
9,200.0	9,142.4	9,207.9	9,141.4	36.1	34.6	-166.37	-205.1	1,723.9	2,626.1	2,560.0	66.09	39.736		
9,300.0	9,242.2	9,308.0	9,241.2	36.4	34.9	-166.40	-205.1	1,723.9	2,631.5	2,564.7	66.79	39.401		
9,400.0	9,342.1	9,408.2	9,341.1	36.8	35.2	-166.43	-205.1	1,723.9	2,636.5	2,569.1	67.48	39.069		
9,500.0	9,442.0	9,491.7	9,441.0	37.1	35.5	-166.46	-205.1	1,723.9	2,641.3	2,573.2	68.13	38.771		
9,600.0	9,541.9	9,700.5	9,646.4	37.5	36.1	-167.15	-175.2	1,719.7	2,644.1	2,574.8	69.29	38.160		
9,700.0	9,641.8	9,889.8	9,812.6	37.9	36.6	-169.10	-87.2	1,707.3	2,642.7	2,572.6	70.15	37.670		
9,800.0	9,741.7	10,015.9	9,903.3	38.2	36.9	-171.00	-0.7	1,695.2	2,640.0	2,569.3	70.79	37.292		
9,900.0	9,841.6	10,098.5	9,951.4	38.6	37.0	-172.46	65.7	1,685.8	2,638.3	2,567.0	71.31	36.998		
9,936.1	9,877.7	10,121.2	9,962.9	38.7	37.0	-172.89	85.0	1,683.1	2,638.2	2,566.7	71.47	36.914		
10,000.0	9,941.6	10,154.7	9,978.4	38.9	37.1	-173.54	114.4	1,679.0	2,638.7	2,567.0	71.71	36.795		
10,100.0	10,041.5	10,194.7	9,994.6	39.3	37.1	-174.33	150.6	1,673.9	2,641.7	2,569.7	72.00	36.689		
10,200.0	10,141.5	10,224.3	10,004.9	39.6	37.2	-174.94	178.1	1,670.0	2,647.7	2,575.5	72.18	36.681		
10,300.0	10,241.5	10,250.0	10,012.7	39.9	37.2	-175.47	202.4	1,666.6	2,656.8	2,584.5	72.27	36.763		
10,400.0	10,341.5	10,265.1	10,016.8	40.3	37.3	-175.78	216.7	1,664.6	2,669.1	2,596.8	72.23	36.954		
10,500.0	10,441.4	10,279.6	10,020.3	40.6	37.3	-176.09	230.7	1,662.6	2,684.5	2,612.4	72.10	37.232		
10,600.0	10,541.4	10,300.0	10,024.7	41.0	37.3	-176.53	250.4	1,659.9	2,703.2	2,631.3	71.93	37.580		
10,700.0	10,641.4	10,300.0	10,024.7	41.3	37.3	-176.53	250.4	1,659.9	2,725.0	2,653.4	71.59	38.065		
10,800.0	10,741.4	10,300.0	10,024.7	41.6	37.3	-176.53	250.4	1,659.9	2,749.9	2,678.7	71.17	38.637		
10,900.0	10,841.4	10,317.6	10,027.9	42.0	37.4	-176.91	267.5	1,657.5	2,777.7	2,706.9	70.79	39.241		
10,935.6	10,877.0	10,319.9	10,028.3	42.1	37.4	78.98	269.8	1,657.1	2,788.3	2,717.7	70.61	39.489		
10,950.0	10,891.4	10,320.9	10,028.5	42.1	37.4	100.08	270.8	1,657.0	2,792.8	2,722.3	70.54	39.593		
11,000.0	10,941.3	10,325.3	10,029.1	42.3	37.4	98.27	275.1	1,656.4	2,809.2	2,738.9	70.28	39.971		
11,050.0	10,990.7	10,330.9	10,030.0	42.4	37.4	96.28	280.5	1,655.6	2,826.9	2,756.9	70.02	40.372		
11,100.0	11,039.2	10,350.0	10,032.4	42.6	37.5	93.86	299.3	1,653.0	2,845.9	2,776.1	69.82	40.758		
11,150.0	11,086.5	10,350.0	10,032.4	42.8	37.5	91.71	299.3	1,653.0	2,865.7	2,796.2	69.53	41.216		
11,200.0	11,132.1	10,350.0	10,032.4	42.9	37.5	89.44	299.3	1,653.0	2,886.4	2,817.1	69.24	41.689		
11,250.0	11,175.9	10,350.0	10,032.4	43.1	37.5	87.08	299.3	1,653.0	2,907.7	2,838.8	68.95	42.170		
11,300.0	11,217.3	10,373.1	10,034.5	43.2	37.5	84.31	322.1	1,649.8	2,929.3	2,860.5	68.79	42.583		
11,350.0	11,256.2	10,383.7	10,035.2	43.3	37.5	81.74	332.6	1,648.3	2,951.1	2,882.5	68.58	43.029		
11,400.0	11,292.2	10,400.0	10,035.8	43.5	37.6	79.13	348.7	1,646.1	2,973.0	2,904.6	68.42	43.451		
11,450.0	11,325.0	10,406.5	10,035.9	43.6	37.6	76.71	355.1	1,645.2	2,994.6	2,926.4	68.24	43.881		
11,500.0	11,354.5	10,416.0	10,036.0	43.7	37.6	74.33	364.5	1,643.8	3,015.9	2,947.8	68.11	44.280		
11,550.0	11,380.3	10,441.5	10,035.9	43.9	37.7	71.94	389.8	1,640.4	3,036.5	2,968.4	68.08	44.604		
11,600.0	11,402.2	10,463.8	10,035.8	44.0	37.8	69.76	411.9	1,637.6	3,056.3	2,988.2	68.07	44.897		
11,650.0	11,420.2	10,500.0	10,035.6	44.1	37.9	67.72	447.9	1,633.4	3,075.1	3,006.9	68.17	45.107		
11,700.0	11,434.0	10,500.0	10,035.6	44.3	37.9	65.99	447.9	1,633.4	3,092.7	3,024.5	68.16	45.373		
11,750.0	11,443.6	10,534.4	10,035.5	44.5	38.1	64.38	482.1	1,629.8	3,108.9	3,040.5	68.36	45.475		
11,800.0	11,448.9	10,558.6	10,035.4	44.6	38.2	63.01	506.2	1,627.5	3,123.7	3,055.1	68.57	45.558		

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 #135H
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 #135H	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		
11,835.6	11,450.0	10,575.9	10,035.3	44.8	38.2	62.15	523.4	1,626.0	3,133.3	3,064.6	68.74	45.583		
11,900.0	11,450.0	10,600.0	10,035.2	45.1	38.3	62.37	547.4	1,624.1	3,149.7	3,080.7	69.05	45.619		
12,000.0	11,450.0	10,655.5	10,035.0	45.5	38.6	62.72	602.9	1,620.4	3,173.9	3,104.3	69.68	45.552		
12,100.0	11,450.0	10,700.0	10,034.9	46.1	38.8	63.03	647.3	1,618.3	3,196.7	3,126.4	70.27	45.491		
12,200.0	11,450.0	10,752.5	10,034.7	46.6	39.1	63.32	699.7	1,616.7	3,217.8	3,146.9	70.97	45.342		
12,300.0	11,450.0	10,808.5	10,034.4	47.3	39.4	63.60	755.7	1,615.9	3,237.4	3,165.7	71.72	45.140		
12,400.0	11,450.0	10,906.7	10,034.1	47.9	40.0	63.89	853.9	1,615.2	3,254.5	3,181.7	72.86	44.667		
12,500.0	11,450.0	11,005.5	10,033.7	48.6	40.6	64.13	952.7	1,614.4	3,268.6	3,194.5	74.10	44.110		
12,600.0	11,450.0	11,104.8	10,033.3	49.3	41.3	64.31	1,052.0	1,613.6	3,279.5	3,204.1	75.42	43.480		
12,700.0	11,450.0	11,204.4	10,032.9	50.0	42.0	64.43	1,151.6	1,612.8	3,287.3	3,210.4	76.83	42.788		
12,800.0	11,450.0	11,304.3	10,032.5	50.8	42.9	64.50	1,251.5	1,612.1	3,291.9	3,213.6	78.30	42.040		
12,892.5	11,450.0	11,403.2	10,032.1	51.5	43.7	64.52	1,344.0	1,611.3	3,293.4	3,213.6	79.78	41.281		
12,900.0	11,450.0	11,404.3	10,032.1	51.5	43.7	64.52	1,351.5	1,611.3	3,293.4	3,213.6	79.84	41.248		
13,000.0	11,450.0	11,504.3	10,031.7	52.3	44.6	64.51	1,451.5	1,610.5	3,293.6	3,212.1	81.46	40.433		
13,100.0	11,450.0	11,604.3	10,031.3	53.2	45.6	64.51	1,551.5	1,609.7	3,293.7	3,210.6	83.15	39.611		
13,200.0	11,450.0	11,704.3	10,030.9	54.0	46.5	64.50	1,651.5	1,608.9	3,293.9	3,209.0	84.93	38.786		
13,300.0	11,450.0	11,804.3	10,030.6	54.9	47.6	64.49	1,751.5	1,608.2	3,294.1	3,207.3	86.77	37.964		
13,400.0	11,450.0	11,904.3	10,030.2	55.9	48.6	64.49	1,851.5	1,607.4	3,294.2	3,205.5	88.68	37.147		
13,500.0	11,450.0	12,004.3	10,029.8	56.8	49.7	64.48	1,951.5	1,606.6	3,294.4	3,203.7	90.65	36.340		
13,600.0	11,450.0	12,104.3	10,029.4	57.8	50.8	64.48	2,051.4	1,605.8	3,294.5	3,201.9	92.69	35.544		
13,700.0	11,450.0	12,204.3	10,029.0	58.8	52.0	64.47	2,151.4	1,605.0	3,294.7	3,199.9	94.78	34.763		
13,800.0	11,450.0	12,304.3	10,028.6	59.9	53.2	64.46	2,251.4	1,604.3	3,294.9	3,198.0	96.92	33.997		
13,888.8	11,450.0	12,406.9	10,028.3	60.9	54.4	64.46	2,340.2	1,603.6	3,295.0	3,196.0	99.02	33.277		
13,900.0	11,450.0	12,404.3	10,028.2	61.0	54.4	64.46	2,351.4	1,603.5	3,295.0	3,195.9	99.11	33.248		
14,000.0	11,450.0	12,504.3	10,027.8	62.1	55.6	64.45	2,451.4	1,602.7	3,295.2	3,193.9	101.34	32.517		
14,100.0	11,450.0	12,604.3	10,027.4	63.2	56.8	64.44	2,551.4	1,601.9	3,295.4	3,191.7	103.62	31.804		
14,200.0	11,450.0	12,704.3	10,027.0	64.4	58.1	64.44	2,651.4	1,601.2	3,295.5	3,189.6	105.93	31.110		
14,300.0	11,450.0	12,804.3	10,026.7	65.6	59.4	64.43	2,751.4	1,600.4	3,295.7	3,187.4	108.28	30.436		
14,400.0	11,450.0	12,904.3	10,026.3	66.8	60.7	64.43	2,851.4	1,599.6	3,295.8	3,185.2	110.67	29.781		
14,500.0	11,450.0	13,004.3	10,025.9	68.0	62.0	64.42	2,951.4	1,598.8	3,296.0	3,182.9	113.09	29.145		
14,600.0	11,450.0	13,104.3	10,025.5	69.2	63.4	64.41	3,051.4	1,598.0	3,296.2	3,180.6	115.54	28.529		
14,700.0	11,450.0	13,204.3	10,025.1	70.5	64.7	64.41	3,151.4	1,597.3	3,296.3	3,178.3	118.02	27.931		
14,800.0	11,450.0	13,304.3	10,024.7	71.7	66.1	64.40	3,251.4	1,596.5	3,296.5	3,176.0	120.52	27.352		
14,900.0	11,450.0	13,404.2	10,024.3	73.0	67.5	64.39	3,351.4	1,595.7	3,296.6	3,173.6	123.05	26.791		
15,000.0	11,450.0	13,504.2	10,023.9	74.3	68.8	64.39	3,451.4	1,594.9	3,296.8	3,171.2	125.60	26.248		
15,100.0	11,450.0	13,604.2	10,023.5	75.7	70.2	64.38	3,551.4	1,594.1	3,297.0	3,168.8	128.18	25.722		
15,200.0	11,450.0	13,704.2	10,023.2	77.0	71.7	64.38	3,651.4	1,593.4	3,297.1	3,166.4	130.77	25.213		
15,236.3	11,450.0	13,740.5	10,023.0	77.5	72.2	64.37	3,687.7	1,593.1	3,297.2	3,165.5	131.72	25.032		
15,300.0	11,450.0	13,804.2	10,022.8	78.3	73.1	64.36	3,751.4	1,592.6	3,296.6	3,163.3	133.38	24.717		
15,400.0	11,450.0	13,904.2	10,022.4	79.6	74.5	64.29	3,851.3	1,591.8	3,293.2	3,157.3	135.96	24.221		
15,500.0	11,450.0	14,003.9	10,022.0	80.9	76.0	64.17	3,951.0	1,591.0	3,286.7	3,148.2	138.52	23.726		
15,600.0	11,450.0	14,103.3	10,021.6	82.2	77.4	64.00	4,050.4	1,590.3	3,277.0	3,135.9	141.05	23.233		
15,700.0	11,450.0	14,202.2	10,021.2	83.5	78.8	63.77	4,149.3	1,589.5	3,264.2	3,120.7	143.54	22.741		
15,800.0	11,450.0	14,300.6	10,020.8	84.8	80.3	63.48	4,247.7	1,588.7	3,248.3	3,102.4	145.98	22.252		
15,900.0	11,450.0	14,401.7	10,020.4	86.0	81.8	63.13	4,345.4	1,588.0	3,229.4	3,081.0	148.42	21.759		
15,966.5	11,450.0	14,462.8	10,020.2	86.8	82.7	62.87	4,409.9	1,587.5	3,215.2	3,065.2	149.93	21.445		
16,000.0	11,450.0	14,504.7	10,020.1	87.2	83.3	62.87	4,442.4	1,587.2	3,207.8	3,057.0	150.84	21.266		
16,100.0	11,450.0	14,607.2	10,019.7	88.5	84.8	62.87	4,539.9	1,586.4	3,188.0	3,034.7	153.29	20.797		
16,200.0	11,450.0	14,709.0	10,019.3	89.7	86.3	62.86	4,638.0	1,585.7	3,171.2	3,015.4	155.79	20.355		
16,300.0	11,450.0	14,789.7	10,018.9	91.1	87.5	62.85	4,736.8	1,584.9	3,157.5	2,999.5	158.05	19.978		
16,400.0	11,450.0	14,889.0	10,018.5	92.5	89.0	62.84	4,836.1	1,584.1	3,146.9	2,986.3	160.63	19.592		
16,500.0	11,450.0	14,988.6	10,018.1	93.9	90.5	62.83	4,935.7	1,583.4	3,139.4	2,976.2	163.26	19.229		

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 #135H
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 #135H	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		
16,600.0	11,450.0	15,088.5	10,017.8	95.3	92.1	62.82	5,035.6	1,582.6	3,135.0	2,969.1	165.96	18.891		
16,691.2	11,450.0	15,179.7	10,017.4	96.6	93.4	62.82	5,126.7	1,581.9	3,133.8	2,965.3	168.46	18.602		
16,700.0	11,450.0	15,188.5	10,017.4	96.8	93.6	62.82	5,135.5	1,581.8	3,133.8	2,965.1	168.71	18.575		
16,800.0	11,450.0	15,288.4	10,017.0	98.2	95.1	62.81	5,235.5	1,581.0	3,135.6	2,964.1	171.51	18.282		
16,900.0	11,450.0	15,388.3	10,016.6	99.7	96.6	62.80	5,335.4	1,580.2	3,140.5	2,966.2	174.37	18.011		
17,000.0	11,450.0	15,487.9	10,016.2	101.3	98.2	62.79	5,435.0	1,579.5	3,148.6	2,971.3	177.27	17.761		
17,100.0	11,450.0	15,587.1	10,015.8	102.8	99.7	62.79	5,534.2	1,578.7	3,159.7	2,979.5	180.22	17.532		
17,200.0	11,450.0	15,685.9	10,015.4	104.4	101.2	62.78	5,632.9	1,577.9	3,173.9	2,990.7	183.21	17.324		
17,300.0	11,450.0	15,784.0	10,015.1	106.0	102.7	62.77	5,731.1	1,577.2	3,191.2	3,005.0	186.24	17.135		
17,400.0	11,450.0	15,881.4	10,014.7	107.5	104.2	62.76	5,828.5	1,576.4	3,211.6	3,022.3	189.30	16.965		
17,426.1	11,450.0	15,906.7	10,014.6	108.0	104.6	62.75	5,853.8	1,576.2	3,217.4	3,027.3	190.10	16.924		
17,500.0	11,450.0	15,978.5	10,014.3	109.1	105.7	63.04	5,925.5	1,575.6	3,233.4	3,041.0	192.38	16.807		
17,600.0	11,450.0	16,076.2	10,013.9	110.7	107.2	63.38	6,023.3	1,574.9	3,252.3	3,056.9	195.45	16.640		
17,700.0	11,450.0	16,174.7	10,013.5	112.3	108.8	63.65	6,121.7	1,574.1	3,268.2	3,069.8	198.50	16.465		
17,800.0	11,450.0	16,273.7	10,013.1	113.9	110.3	63.87	6,220.7	1,573.3	3,281.1	3,079.6	201.53	16.281		
17,900.0	11,450.0	16,373.1	10,012.8	115.5	111.9	64.03	6,320.1	1,572.6	3,290.8	3,086.3	204.53	16.090		
18,000.0	11,450.0	16,472.8	10,012.4	117.0	113.4	64.14	6,419.9	1,571.8	3,297.4	3,089.9	207.50	15.891		
18,100.0	11,450.0	16,572.8	10,012.0	118.6	115.0	64.19	6,519.8	1,571.0	3,300.9	3,090.5	210.43	15.686		
18,155.7	11,450.0	16,628.5	10,011.8	119.4	115.9	64.19	6,575.5	1,570.6	3,301.5	3,089.4	212.05	15.570		
18,200.0	11,450.0	16,672.8	10,011.6	120.1	116.6	64.19	6,619.8	1,570.2	3,301.6	3,088.2	213.33	15.476		
18,300.0	11,450.0	16,772.7	10,011.2	121.7	118.1	64.18	6,719.8	1,569.5	3,301.7	3,085.5	216.22	15.270		
18,400.0	11,450.0	16,872.7	10,010.8	123.2	119.7	64.18	6,819.8	1,568.7	3,301.9	3,082.7	219.12	15.069		
18,500.0	11,450.0	16,972.7	10,010.4	124.7	121.3	64.17	6,919.8	1,567.9	3,302.0	3,080.0	222.02	14.873		
18,600.0	11,450.0	17,072.7	10,010.0	126.3	122.9	64.17	7,019.7	1,567.1	3,302.2	3,077.3	224.93	14.681		
18,700.0	11,450.0	17,172.7	10,009.6	127.8	124.4	64.16	7,119.7	1,566.3	3,302.3	3,074.5	227.84	14.494		
18,800.0	11,450.0	17,272.7	10,009.3	129.4	126.0	64.15	7,219.7	1,565.6	3,302.5	3,071.7	230.75	14.312		
18,900.0	11,450.0	17,372.7	10,008.9	130.9	127.6	64.15	7,319.7	1,564.8	3,302.6	3,069.0	233.66	14.134		
19,000.0	11,450.0	17,472.7	10,008.5	132.5	129.2	64.14	7,419.7	1,564.0	3,302.8	3,066.2	236.58	13.960		
19,100.0	11,450.0	17,572.7	10,008.1	134.0	130.8	64.13	7,519.7	1,563.2	3,303.0	3,063.5	239.51	13.791		
19,200.0	11,450.0	17,672.7	10,007.7	135.6	132.4	64.13	7,619.7	1,562.4	3,303.1	3,060.7	242.43	13.625		
19,300.0	11,450.0	17,772.7	10,007.3	137.2	134.0	64.12	7,719.7	1,561.7	3,303.3	3,057.9	245.36	13.463		
19,400.0	11,450.0	17,872.7	10,006.9	138.7	135.6	64.12	7,819.7	1,560.9	3,303.4	3,055.1	248.29	13.305		
19,500.0	11,450.0	17,972.7	10,006.5	140.3	137.2	64.11	7,919.7	1,560.1	3,303.6	3,052.4	251.22	13.150		
19,600.0	11,450.0	18,072.7	10,006.1	141.9	138.8	64.10	8,019.7	1,559.3	3,303.7	3,049.6	254.16	12.999		
19,700.0	11,450.0	18,172.7	10,005.7	143.4	140.4	64.10	8,119.7	1,558.5	3,303.9	3,046.8	257.10	12.851		
19,800.0	11,450.0	18,272.7	10,005.4	145.0	142.0	64.09	8,219.7	1,557.8	3,304.1	3,044.0	260.04	12.706		
19,900.0	11,450.0	18,372.7	10,005.0	146.6	143.6	64.09	8,319.7	1,557.0	3,304.2	3,041.2	262.98	12.564		
20,000.0	11,450.0	18,472.7	10,004.6	148.2	145.2	64.08	8,419.7	1,556.2	3,304.4	3,038.4	265.93	12.426		
20,100.0	11,450.0	18,572.7	10,004.2	149.7	146.8	64.07	8,519.7	1,555.4	3,304.5	3,035.6	268.88	12.290		
20,200.0	11,450.0	18,672.7	10,003.8	151.3	148.4	64.07	8,619.7	1,554.7	3,304.7	3,032.9	271.83	12.157		
20,300.0	11,450.0	18,772.7	10,003.4	152.9	150.0	64.06	8,719.7	1,553.9	3,304.8	3,030.1	274.78	12.027		
20,400.0	11,450.0	18,872.7	10,003.0	154.5	151.6	64.05	8,819.7	1,553.1	3,305.0	3,027.3	277.73	11.900		
20,500.0	11,450.0	18,972.7	10,002.6	156.1	153.2	64.05	8,919.7	1,552.3	3,305.1	3,024.5	280.69	11.775		
20,600.0	11,450.0	19,072.7	10,002.2	157.6	154.8	64.04	9,019.7	1,551.5	3,305.3	3,021.7	283.64	11.653		
20,700.0	11,450.0	19,172.7	10,001.9	159.2	156.4	64.04	9,119.7	1,550.8	3,305.5	3,018.9	286.60	11.533		
20,800.0	11,450.0	19,272.7	10,001.5	160.8	158.0	64.03	9,219.6	1,550.0	3,305.6	3,016.1	289.56	11.416		
20,900.0	11,450.0	19,372.7	10,001.1	162.4	159.6	64.02	9,319.6	1,549.2	3,305.8	3,013.2	292.52	11.301		
21,000.0	11,450.0	19,472.7	10,000.7	164.0	161.2	64.02	9,419.6	1,548.4	3,305.9	3,010.4	295.49	11.188		
21,100.0	11,450.0	19,572.7	10,000.3	165.6	162.8	64.01	9,519.6	1,547.6	3,306.1	3,007.6	298.45	11.077		
21,200.0	11,450.0	19,672.7	9,999.9	167.2	164.5	64.00	9,619.6	1,546.9	3,306.2	3,004.8	301.42	10.969		
21,300.0	11,450.0	19,772.7	9,999.5	168.8	166.1	64.00	9,719.6	1,546.1	3,306.4	3,002.0	304.39	10.863		
21,400.0	11,450.0	19,872.7	9,999.1	170.4	167.7	63.99	9,819.6	1,545.3	3,306.6	2,999.2	307.36	10.758		

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 #135H
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 #135H	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 #113H - 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							
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
21,500.0	11,450.0	19,972.7	9,998.7	172.0	169.3	63.99	9,919.6	1,544.5	3,306.7	2,996.4	310.33	10.656	
21,600.0	11,450.0	20,072.7	9,998.3	173.6	170.9	63.98	10,019.6	1,543.7	3,306.9	2,993.6	313.30	10.555	
21,700.0	11,450.0	20,172.7	9,998.0	175.2	172.5	63.97	10,119.6	1,543.0	3,307.0	2,990.8	316.27	10.456	
21,757.9	11,450.0	20,230.6	9,997.7	176.1	173.4	63.97	10,177.5	1,542.5	3,307.1	2,989.2	317.93	10.402 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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	89.35	27.7	2,453.1	2,453.2					
100.0	100.0	101.0	99.0	0.1	0.1	-166.58	27.7	2,453.1	2,453.4	2,453.1	0.26	9,406.880		
200.0	200.0	201.0	199.0	0.5	0.5	-166.59	27.7	2,453.1	2,453.9	2,452.9	0.98	2,511.088	ES	
300.0	300.0	301.0	299.0	0.8	0.8	-166.59	27.7	2,453.1	2,454.7	2,453.0	1.69	1,448.793		
400.0	400.0	401.0	399.0	1.2	1.2	-166.60	27.7	2,453.1	2,455.8	2,453.4	2.41	1,018.384		
500.0	500.0	501.0	499.0	1.6	1.6	-166.60	27.7	2,453.1	2,457.2	2,454.1	3.13	785.379		
600.0	600.0	601.0	599.0	1.9	1.9	-166.61	27.7	2,453.1	2,459.0	2,455.1	3.85	639.350		
700.0	699.9	701.1	698.9	2.3	2.3	-166.62	27.7	2,453.1	2,461.1	2,456.5	4.56	539.289		
800.0	799.9	801.1	798.9	2.6	2.6	-166.63	27.7	2,453.1	2,463.5	2,458.2	5.28	466.466		
900.0	899.9	901.1	898.9	3.0	3.0	-166.65	27.7	2,453.1	2,466.2	2,460.2	6.00	411.110		
1,000.0	999.8	1,001.2	998.8	3.4	3.4	-166.66	27.7	2,453.1	2,469.2	2,462.5	6.72	367.625		
1,100.0	1,099.8	1,101.2	1,098.8	3.7	3.7	-166.68	27.7	2,453.1	2,472.6	2,465.2	7.43	332.573		
1,200.0	1,199.7	1,201.3	1,198.7	4.1	4.1	-166.70	27.7	2,453.1	2,476.3	2,468.1	8.15	303.728		
1,300.0	1,299.6	1,301.4	1,298.6	4.5	4.4	-166.72	27.7	2,453.1	2,480.3	2,471.4	8.87	279.584		
1,400.0	1,399.5	1,401.5	1,398.5	4.8	4.8	-166.74	27.7	2,453.1	2,484.6	2,475.0	9.59	259.085		
1,500.0	1,499.4	1,498.4	1,498.4	5.2	5.1	-166.76	27.7	2,453.1	2,489.3	2,479.0	10.30	241.742		
1,600.0	1,599.3	1,570.6	1,570.6	5.6	5.4	-166.78	27.5	2,453.5	2,494.8	2,483.9	10.91	228.765		
1,700.0	1,699.1	1,642.2	1,642.2	5.9	5.6	-166.78	26.9	2,454.7	2,501.8	2,490.2	11.51	217.435		
1,800.0	1,798.9	1,713.8	1,713.7	6.3	5.9	-166.78	26.0	2,456.7	2,510.2	2,498.1	12.10	207.432		
1,900.0	1,898.8	1,785.1	1,785.0	6.7	6.1	-166.76	24.7	2,459.5	2,520.0	2,507.3	12.70	198.493		
2,000.0	1,998.6	1,856.2	1,856.0	7.0	6.4	-166.74	23.0	2,463.1	2,531.3	2,518.0	13.29	190.481		
2,100.0	2,098.3	1,927.1	1,926.8	7.4	6.6	-166.71	21.0	2,467.5	2,543.9	2,530.1	13.88	183.286		
2,200.0	2,198.1	2,000.0	1,999.4	7.8	6.9	-166.68	18.5	2,472.8	2,558.1	2,543.6	14.48	176.699		
2,300.0	2,297.8	2,068.2	2,067.2	8.1	7.1	-166.63	15.8	2,478.6	2,573.6	2,558.5	15.06	170.944		
2,400.0	2,397.5	2,138.2	2,136.9	8.5	7.3	-166.58	12.7	2,485.3	2,590.5	2,574.9	15.64	165.645		
2,500.0	2,497.2	2,208.0	2,206.2	8.9	7.6	-166.52	9.2	2,492.7	2,608.9	2,592.6	16.22	160.844		
2,600.0	2,596.8	2,277.3	2,275.0	9.3	7.9	-166.46	5.4	2,500.8	2,628.6	2,611.8	16.80	156.483		
2,700.0	2,696.4	2,365.7	2,362.4	9.7	8.2	-166.37	0.2	2,511.9	2,649.5	2,632.0	17.46	151.763		
2,800.0	2,796.0	2,463.3	2,459.1	10.0	8.5	-166.28	-5.5	2,524.2	2,670.7	2,652.6	18.16	147.058		
2,900.0	2,895.6	2,560.9	2,555.7	10.4	8.9	-166.19	-11.2	2,536.5	2,692.3	2,673.4	18.87	142.704		
3,000.0	2,995.1	2,658.4	2,652.3	10.8	9.3	-166.10	-17.0	2,548.8	2,714.2	2,694.6	19.57	138.667		
3,100.0	3,094.6	2,755.8	2,748.8	11.2	9.7	-166.02	-22.7	2,561.1	2,736.4	2,716.1	20.28	134.916		
3,200.0	3,194.1	2,853.2	2,845.2	11.6	10.0	-165.94	-28.4	2,573.4	2,758.9	2,737.9	20.99	131.424		
3,300.0	3,293.5	2,950.5	2,941.6	12.0	10.4	-165.86	-34.2	2,585.7	2,781.7	2,760.0	21.70	128.167		
3,400.0	3,392.9	3,047.8	3,037.9	12.4	10.8	-165.78	-39.9	2,597.9	2,804.9	2,782.5	22.42	125.124		
3,500.0	3,492.2	3,144.9	3,134.1	12.7	11.2	-165.71	-45.6	2,610.2	2,828.3	2,805.2	23.13	122.276		
3,600.0	3,591.6	3,242.0	3,230.2	13.1	11.6	-165.63	-51.3	2,622.4	2,852.1	2,828.3	23.85	119.608		
3,700.0	3,690.8	3,339.0	3,326.3	13.5	12.0	-165.57	-57.0	2,634.7	2,876.2	2,851.6	24.56	117.103		
3,800.0	3,790.1	3,436.0	3,422.3	13.9	12.4	-165.50	-62.7	2,646.9	2,900.6	2,875.3	25.28	114.749		
3,900.0	3,889.3	3,532.8	3,518.2	14.3	12.8	-165.43	-68.4	2,659.1	2,925.3	2,899.3	26.00	112.533		
4,000.0	3,988.4	3,629.6	3,614.1	14.7	13.1	-165.37	-74.1	2,671.3	2,950.3	2,923.6	26.71	110.445		
4,100.0	4,087.5	3,726.3	3,709.8	15.2	13.5	-165.31	-79.8	2,683.5	2,975.7	2,948.2	27.43	108.475		
4,200.0	4,186.6	3,822.9	3,805.5	15.6	13.9	-165.26	-85.5	2,695.7	3,001.3	2,973.2	28.15	106.615		
4,300.0	4,285.6	3,919.5	3,901.1	16.0	14.3	-165.20	-91.2	2,707.9	3,027.3	2,998.4	28.87	104.856		
4,400.0	4,384.6	4,016.0	3,996.7	16.4	14.7	-165.15	-96.8	2,720.0	3,053.5	3,023.9	29.59	103.191		
4,500.0	4,483.5	4,112.4	4,092.1	16.8	15.1	-165.10	-102.5	2,732.2	3,080.1	3,049.8	30.31	101.614		
4,600.0	4,582.4	4,208.7	4,187.5	17.2	15.5	-165.05	-108.2	2,744.3	3,107.0	3,075.9	31.03	100.119		
4,700.0	4,681.2	4,304.9	4,282.8	17.6	15.9	-165.00	-113.8	2,756.5	3,134.1	3,102.4	31.75	98.700		
4,800.0	4,780.0	4,401.0	4,378.0	18.1	16.3	-164.95	-119.5	2,768.6	3,161.6	3,129.2	32.48	97.352		
4,900.0	4,878.7	4,502.9	4,473.1	18.5	16.7	-164.91	-125.1	2,780.7	3,189.4	3,156.2	33.22	96.007		
5,000.0	4,977.4	4,607.0	4,568.1	18.9	17.2	-164.87	-130.8	2,792.8	3,217.5	3,183.6	33.97	94.705		
5,100.0	5,076.0	4,688.9	4,663.0	19.3	17.5	-164.83	-136.4	2,804.9	3,245.9	3,211.3	34.64	93.692		

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 #135H
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 #135H	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		
5,180.6	5,155.5	4,766.1	4,739.5	19.7	17.8	-164.80	-141.0	2,814.6	3,269.1	3,233.8	35.23	92.797		
5,200.0	5,174.6	4,784.7	4,757.9	19.8	17.9	-164.80	-142.1	2,817.0	3,274.7	3,239.3	35.37	92.587		
5,300.0	5,273.2	4,880.4	4,852.7	20.2	18.3	-164.77	-147.7	2,829.1	3,303.5	3,267.4	36.09	91.528		
5,400.0	5,371.7	4,976.2	4,947.5	20.6	18.7	-164.75	-153.3	2,841.1	3,332.3	3,295.5	36.82	90.510		
5,500.0	5,470.2	5,071.9	5,042.4	21.1	19.1	-164.73	-159.0	2,853.2	3,361.1	3,323.5	37.54	89.529		
5,600.0	5,568.8	5,167.7	5,137.2	21.5	19.5	-164.71	-164.6	2,865.3	3,389.9	3,351.6	38.27	88.585		
5,700.0	5,667.3	5,263.4	5,232.0	22.0	19.9	-164.69	-170.2	2,877.4	3,418.7	3,379.7	38.99	87.675		
5,755.0	5,721.5	5,316.1	5,284.1	22.2	20.1	-164.68	-173.3	2,884.0	3,434.5	3,395.2	39.39	87.188		
5,800.0	5,765.9	5,399.1	5,366.4	22.4	20.4	-164.67	-178.1	2,894.2	3,447.4	3,407.5	39.93	86.343		
5,900.0	5,864.5	5,902.5	5,863.5	22.8	22.3	-164.84	-191.1	2,922.1	3,468.5	3,426.1	42.40	81.811		
6,000.0	5,963.1	6,003.8	5,962.1	23.3	22.6	-164.92	-191.1	2,922.1	3,484.3	3,441.2	43.11	80.826		
6,100.0	6,061.9	6,105.1	6,060.9	23.7	22.9	-164.99	-191.1	2,922.1	3,499.8	3,456.0	43.82	79.865		
6,200.0	6,160.6	6,206.4	6,159.6	24.1	23.2	-165.07	-191.1	2,922.1	3,515.0	3,470.4	44.53	78.928		
6,300.0	6,259.4	6,307.6	6,258.4	24.6	23.6	-165.14	-191.1	2,922.1	3,529.8	3,484.6	45.25	78.013		
6,400.0	6,358.3	6,408.7	6,357.3	25.0	23.9	-165.21	-191.1	2,922.1	3,544.4	3,498.4	45.96	77.119		
6,500.0	6,457.2	6,509.8	6,456.2	25.4	24.2	-165.28	-191.1	2,922.1	3,558.6	3,512.0	46.67	76.245		
6,600.0	6,556.2	6,589.2	6,555.2	25.8	24.5	-165.34	-191.1	2,922.1	3,572.6	3,525.3	47.31	75.508		
6,700.0	6,655.2	6,688.2	6,654.2	26.3	24.8	-165.40	-191.1	2,922.1	3,586.2	3,538.2	48.02	74.681		
6,800.0	6,754.2	6,787.2	6,753.2	26.7	25.1	-165.47	-191.1	2,922.1	3,599.5	3,550.8	48.73	73.871		
6,900.0	6,853.3	6,886.3	6,852.3	27.1	25.5	-165.53	-191.1	2,922.1	3,612.5	3,563.1	49.43	73.077		
7,000.0	6,952.4	6,985.5	6,951.4	27.5	25.8	-165.58	-191.1	2,922.1	3,625.2	3,575.0	50.14	72.299		
7,100.0	7,051.6	7,084.6	7,050.6	27.9	26.1	-165.64	-191.1	2,922.1	3,637.6	3,586.7	50.85	71.536		
7,200.0	7,150.8	7,183.9	7,149.8	28.3	26.4	-165.69	-191.1	2,922.1	3,649.6	3,598.1	51.56	70.788		
7,300.0	7,250.1	7,283.1	7,249.1	28.7	26.8	-165.75	-191.1	2,922.1	3,661.4	3,609.1	52.26	70.054		
7,400.0	7,349.4	7,382.4	7,348.4	29.1	27.1	-165.80	-191.1	2,922.1	3,672.8	3,619.8	52.97	69.333		
7,500.0	7,448.8	7,481.8	7,447.8	29.6	27.4	-165.85	-191.1	2,922.1	3,683.9	3,630.2	53.68	68.626		
7,600.0	7,548.1	7,581.2	7,547.1	30.0	27.8	-165.89	-191.1	2,922.1	3,694.7	3,640.3	54.39	67.931		
7,700.0	7,647.6	7,680.6	7,646.6	30.4	28.1	-165.94	-191.1	2,922.1	3,705.2	3,650.1	55.10	67.248		
7,800.0	7,747.0	7,780.0	7,746.0	30.7	28.4	-165.98	-191.1	2,922.1	3,715.3	3,659.5	55.81	66.577		
7,900.0	7,846.5	7,879.5	7,845.5	31.1	28.8	-166.02	-191.1	2,922.1	3,725.2	3,668.7	56.51	65.917		
8,000.0	7,946.0	7,979.0	7,945.0	31.5	29.1	-166.06	-191.1	2,922.1	3,734.7	3,677.5	57.22	65.268		
8,100.0	8,045.5	8,078.6	8,044.5	31.9	29.4	-166.10	-191.1	2,922.1	3,743.9	3,686.0	57.93	64.630		
8,200.0	8,145.1	8,178.1	8,144.1	32.3	29.8	-166.14	-191.1	2,922.1	3,752.8	3,694.2	58.64	64.001		
8,300.0	8,244.7	8,277.8	8,243.7	32.7	30.1	-166.18	-191.1	2,922.1	3,761.4	3,702.1	59.34	63.383		
8,400.0	8,344.4	8,377.4	8,343.4	33.1	30.4	-166.21	-191.1	2,922.1	3,769.7	3,709.6	60.05	62.774		
8,500.0	8,444.0	8,477.1	8,443.0	33.5	30.8	-166.25	-191.1	2,922.1	3,777.6	3,716.9	60.76	62.173		
8,600.0	8,543.7	8,576.7	8,542.7	33.8	31.1	-166.28	-191.1	2,922.1	3,785.3	3,723.8	61.47	61.582		
8,700.0	8,643.4	8,676.5	8,642.4	34.2	31.4	-166.31	-191.1	2,922.1	3,792.6	3,730.4	62.17	60.999		
8,800.0	8,743.2	8,776.2	8,742.2	34.6	31.8	-166.34	-191.1	2,922.1	3,799.6	3,736.7	62.88	60.425		
8,900.0	8,843.0	8,876.0	8,842.0	35.0	32.1	-166.36	-191.1	2,922.1	3,806.2	3,742.6	63.59	59.858		
9,000.0	8,942.7	8,975.8	8,941.7	35.3	32.5	-166.39	-191.1	2,922.1	3,812.6	3,748.3	64.29	59.299		
9,100.0	9,042.5	9,075.6	9,041.5	35.7	32.8	-166.41	-191.1	2,922.1	3,818.6	3,753.6	65.00	58.747		
9,200.0	9,142.4	9,175.4	9,141.4	36.1	33.1	-166.44	-191.1	2,922.1	3,824.3	3,758.6	65.71	58.203		
9,300.0	9,242.2	9,275.2	9,241.2	36.4	33.5	-166.46	-191.1	2,922.1	3,829.7	3,763.3	66.41	57.666		
9,400.0	9,342.1	9,375.1	9,341.1	36.8	33.8	-166.48	-191.1	2,922.1	3,834.8	3,767.7	67.12	57.135		
9,500.0	9,442.0	9,475.0	9,441.0	37.1	34.2	-166.50	-191.1	2,922.1	3,839.6	3,771.7	67.82	56.611		
9,600.0	9,541.9	9,564.0	9,529.9	37.5	34.5	-166.54	-189.4	2,922.1	3,844.1	3,775.6	68.48	56.132		
9,700.0	9,641.8	9,642.2	9,607.3	37.9	34.7	-166.72	-178.1	2,922.4	3,848.8	3,779.7	69.08	55.714		
9,800.0	9,741.7	9,715.9	9,678.1	38.2	34.9	-167.03	-157.9	2,922.9	3,853.8	3,784.2	69.64	55.342		
9,900.0	9,841.6	9,783.3	9,740.1	38.6	35.1	-167.43	-131.6	2,923.6	3,859.4	3,789.2	70.15	55.019		
10,000.0	9,941.6	9,843.6	9,792.7	38.9	35.3	-167.88	-102.1	2,924.4	3,865.7	3,795.1	70.61	54.747		
10,100.0	10,041.5	9,900.0	9,838.7	39.3	35.4	-168.37	-69.7	2,925.2	3,873.1	3,802.1	71.04	54.522		

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 #135H
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 #135H	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		
10,200.0	10,141.5	9,950.0	9,876.7	39.6	35.5	-168.85	-37.2	2,926.1	3,881.8	3,810.3	71.42	54.351		
10,300.0	10,241.5	9,983.6	9,900.6	39.9	35.5	-169.21	-13.6	2,926.7	3,891.8	3,820.0	71.72	54.262		
10,400.0	10,341.5	10,018.8	9,924.1	40.3	35.5	-169.60	12.6	2,927.4	3,903.3	3,831.3	72.00	54.212		
10,500.0	10,441.4	10,050.0	9,943.6	40.6	35.6	-169.96	37.0	2,928.0	3,916.6	3,844.3	72.24	54.218		
10,600.0	10,541.4	10,076.5	9,959.0	41.0	35.6	-170.29	58.5	2,928.6	3,931.6	3,859.1	72.43	54.283		
10,700.0	10,641.4	10,100.0	9,971.9	41.3	35.6	-170.58	78.2	2,929.1	3,948.3	3,875.7	72.57	54.404		
10,800.0	10,741.4	10,121.1	9,982.7	41.6	35.6	-170.85	96.2	2,929.6	3,966.9	3,894.2	72.68	54.580		
10,900.0	10,841.4	10,150.0	9,996.5	42.0	35.7	-171.23	121.7	2,930.3	3,987.4	3,914.6	72.79	54.782		
10,935.6	10,877.0	10,150.0	9,996.5	42.1	35.7	84.70	121.7	2,930.3	3,995.1	3,922.4	72.77	54.898		
10,950.0	10,891.4	10,150.0	9,996.5	42.1	35.7	105.96	121.7	2,930.3	3,998.4	3,925.6	72.77	54.949		
11,000.0	10,941.3	10,150.0	9,996.5	42.3	35.7	104.73	121.7	2,930.3	4,010.8	3,938.0	72.73	55.143		
11,050.0	10,990.7	10,167.0	10,004.0	42.4	35.7	103.11	136.9	2,930.7	4,024.7	3,951.9	72.76	55.313		
11,100.0	11,039.2	10,177.4	10,008.3	42.6	35.7	101.42	146.3	2,930.9	4,040.1	3,967.3	72.76	55.527		
11,150.0	11,086.5	10,200.0	10,017.2	42.8	35.7	99.43	167.1	2,931.4	4,056.8	3,984.0	72.80	55.724		
11,200.0	11,132.1	10,200.0	10,017.2	42.9	35.7	97.56	167.1	2,931.4	4,074.5	4,001.8	72.75	56.009		
11,250.0	11,175.9	10,200.0	10,017.2	43.1	35.7	95.54	167.1	2,931.4	4,093.4	4,020.7	72.69	56.309		
11,300.0	11,217.3	10,223.4	10,025.6	43.2	35.7	93.22	189.0	2,932.0	4,112.9	4,040.1	72.74	56.542		
11,350.0	11,256.2	10,250.0	10,033.9	43.3	35.7	90.83	214.2	2,932.7	4,133.1	4,060.3	72.79	56.778		
11,400.0	11,292.2	10,250.0	10,033.9	43.5	35.7	88.57	214.2	2,932.7	4,153.7	4,080.9	72.75	57.092		
11,450.0	11,325.0	10,250.0	10,033.9	43.6	35.7	86.27	214.2	2,932.7	4,174.6	4,101.9	72.72	57.404		
11,500.0	11,354.5	10,274.3	10,040.5	43.7	35.8	83.86	237.6	2,933.3	4,195.6	4,122.8	72.80	57.629		
11,550.0	11,380.3	10,300.0	10,046.4	43.9	35.8	81.50	262.6	2,933.9	4,216.6	4,143.7	72.90	57.839		
11,600.0	11,402.2	10,300.0	10,046.4	44.0	35.8	79.27	262.6	2,933.9	4,237.2	4,164.3	72.92	58.109		
11,650.0	11,420.2	10,300.0	10,046.4	44.1	35.8	77.08	262.6	2,933.9	4,257.6	4,184.6	72.95	58.359		
11,700.0	11,434.0	10,327.3	10,051.5	44.3	35.9	75.00	289.4	2,934.7	4,277.2	4,204.1	73.12	58.496		
11,750.0	11,443.6	10,350.0	10,054.7	44.5	35.9	73.04	311.9	2,935.2	4,296.3	4,223.0	73.29	58.623		
11,800.0	11,448.9	10,350.0	10,054.7	44.6	35.9	71.18	311.9	2,935.2	4,314.6	4,241.2	73.39	58.787		
11,835.6	11,450.0	10,350.0	10,054.7	44.8	35.9	69.93	311.9	2,935.2	4,327.0	4,253.5	73.48	58.885		
11,900.0	11,450.0	10,380.8	10,057.6	45.1	36.0	70.18	342.5	2,936.0	4,348.6	4,274.8	73.78	58.940		
12,000.0	11,450.0	10,408.0	10,058.8	45.5	36.1	70.47	369.7	2,936.8	4,380.9	4,306.7	74.20	59.045		
12,100.0	11,450.0	10,605.9	10,057.7	46.1	36.8	70.92	567.6	2,937.4	4,409.5	4,334.1	75.39	58.490		
12,200.0	11,450.0	10,702.5	10,057.0	46.6	37.3	71.18	664.2	2,936.7	4,434.0	4,357.7	76.31	58.105		
12,300.0	11,450.0	10,800.0	10,056.3	47.3	37.8	71.41	761.7	2,935.9	4,455.3	4,378.0	77.35	57.599		
12,400.0	11,450.0	10,901.8	10,055.6	47.9	38.4	71.59	859.9	2,935.1	4,473.4	4,394.9	78.52	56.969		
12,500.0	11,450.0	11,003.0	10,054.9	48.6	39.1	71.74	958.7	2,934.4	4,488.2	4,408.4	79.80	56.246		
12,600.0	11,450.0	11,103.7	10,054.2	49.3	39.8	71.85	1,058.0	2,933.6	4,499.8	4,418.6	81.16	55.441		
12,700.0	11,450.0	11,204.0	10,053.5	50.0	40.6	71.93	1,157.6	2,932.8	4,508.0	4,425.4	82.62	54.565		
12,800.0	11,450.0	11,304.2	10,052.8	50.8	41.4	71.97	1,257.5	2,932.0	4,513.0	4,428.8	84.15	53.630		
12,892.5	11,450.0	11,388.3	10,052.2	51.5	42.2	71.98	1,350.0	2,931.3	4,514.6	4,429.0	85.56	52.765		
12,900.0	11,450.0	11,404.2	10,052.1	51.5	42.3	71.98	1,357.4	2,931.3	4,514.6	4,428.8	85.75	52.646		
13,000.0	11,450.0	11,504.2	10,051.4	52.3	43.2	71.97	1,457.4	2,930.5	4,514.8	4,427.4	87.44	51.634		
13,100.0	11,450.0	11,604.2	10,050.7	53.2	44.2	71.96	1,557.4	2,929.7	4,515.0	4,425.8	89.21	50.614		
13,200.0	11,450.0	11,704.2	10,050.0	54.0	45.2	71.95	1,657.4	2,928.9	4,515.2	4,424.2	91.05	49.591		
13,300.0	11,450.0	11,804.2	10,049.3	54.9	46.2	71.94	1,757.4	2,928.1	4,515.4	4,422.5	92.96	48.572		
13,400.0	11,450.0	11,904.2	10,048.6	55.9	47.3	71.93	1,857.4	2,927.4	4,515.7	4,420.7	94.95	47.559		
13,500.0	11,450.0	12,004.2	10,047.9	56.8	48.4	71.92	1,957.4	2,926.6	4,515.9	4,418.9	97.00	46.557		
13,600.0	11,450.0	12,104.2	10,047.2	57.8	49.5	71.92	2,057.4	2,925.8	4,516.1	4,417.0	99.10	45.569		
13,700.0	11,450.0	12,204.2	10,046.5	58.8	50.7	71.91	2,157.4	2,925.0	4,516.3	4,415.0	101.27	44.597		
13,800.0	11,450.0	12,304.2	10,045.8	59.9	51.9	71.90	2,257.4	2,924.3	4,516.5	4,413.0	103.49	43.644		
13,888.8	11,450.0	12,384.6	10,045.1	60.9	52.8	71.89	2,346.2	2,923.6	4,516.7	4,411.3	105.40	42.854		
13,900.0	11,450.0	12,404.2	10,045.1	61.0	53.1	71.89	2,357.3	2,923.5	4,516.7	4,411.0	105.75	42.711		
14,000.0	11,450.0	12,495.8	10,044.4	62.1	54.2	71.88	2,457.3	2,922.7	4,516.9	4,409.0	107.96	41.839		

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 #135H
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 #135H	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		
14,100.0	11,450.0	12,604.2	10,043.7	63.2	55.6	71.87	2,557.3	2,921.9	4,517.1	4,406.7	110.42	40.909		
14,200.0	11,450.0	12,704.2	10,043.0	64.4	56.9	71.87	2,657.3	2,921.1	4,517.3	4,404.5	112.81	40.042		
14,300.0	11,450.0	12,804.2	10,042.3	65.6	58.2	71.86	2,757.3	2,920.4	4,517.6	4,402.3	115.25	39.199		
14,400.0	11,450.0	12,904.2	10,041.5	66.8	59.5	71.85	2,857.3	2,919.6	4,517.8	4,400.1	117.72	38.378		
14,500.0	11,450.0	13,004.2	10,040.8	68.0	60.8	71.84	2,957.3	2,918.8	4,518.0	4,397.8	120.22	37.581		
14,600.0	11,450.0	13,104.2	10,040.1	69.2	62.1	71.83	3,057.3	2,918.0	4,518.2	4,395.4	122.75	36.807		
14,700.0	11,450.0	13,204.2	10,039.4	70.5	63.5	71.82	3,157.3	2,917.2	4,518.4	4,393.1	125.32	36.055		
14,800.0	11,450.0	13,304.2	10,038.7	71.7	64.9	71.81	3,257.3	2,916.5	4,518.6	4,390.7	127.91	35.327		
14,900.0	11,450.0	13,404.2	10,038.0	73.0	66.3	71.81	3,357.3	2,915.7	4,518.8	4,388.3	130.53	34.620		
15,000.0	11,450.0	13,504.2	10,037.3	74.3	67.7	71.80	3,457.3	2,914.9	4,519.0	4,385.9	133.17	33.935		
15,100.0	11,450.0	13,604.2	10,036.6	75.7	69.1	71.79	3,557.3	2,914.1	4,519.3	4,383.4	135.83	33.271		
15,200.0	11,450.0	13,704.3	10,035.9	77.0	70.5	71.78	3,657.2	2,913.4	4,519.5	4,380.9	138.52	32.627		
15,236.3	11,450.0	13,732.0	10,035.7	77.5	70.9	71.78	3,693.5	2,913.1	4,519.5	4,380.2	139.38	32.425		
15,300.0	11,450.0	13,804.3	10,035.2	78.3	72.0	71.76	3,757.2	2,912.6	4,519.0	4,377.8	141.22	31.999		
15,400.0	11,450.0	13,904.3	10,034.5	79.6	73.4	71.72	3,857.1	2,911.8	4,515.4	4,371.5	143.92	31.374		
15,500.0	11,450.0	14,004.6	10,033.8	80.9	74.9	71.64	3,956.8	2,911.0	4,508.6	4,362.0	146.62	30.750		
15,600.0	11,450.0	14,105.2	10,033.1	82.2	76.3	71.52	4,056.2	2,910.2	4,498.4	4,349.1	149.31	30.128		
15,700.0	11,450.0	14,206.3	10,032.4	83.5	77.8	71.37	4,155.2	2,909.5	4,485.0	4,333.0	151.99	29.508		
15,800.0	11,450.0	14,307.9	10,031.7	84.8	79.3	71.18	4,253.6	2,908.7	4,468.3	4,313.6	154.67	28.889		
15,900.0	11,450.0	14,389.8	10,031.0	86.0	80.5	70.95	4,351.3	2,907.9	4,448.3	4,291.3	157.05	28.235		
15,966.5	11,450.0	14,454.3	10,030.6	86.8	81.5	70.77	4,415.8	2,907.4	4,433.3	4,274.5	158.76	27.924		
16,000.0	11,450.0	14,486.8	10,030.4	87.2	82.0	70.79	4,448.3	2,907.2	4,425.5	4,265.9	159.62	27.725		
16,100.0	11,450.0	14,584.3	10,029.7	88.5	83.4	70.82	4,545.7	2,906.4	4,404.6	4,242.3	162.23	27.149		
16,200.0	11,450.0	14,682.4	10,029.0	89.7	84.9	70.85	4,643.9	2,905.7	4,386.8	4,221.9	164.90	26.603		
16,300.0	11,450.0	14,781.2	10,028.3	91.1	86.4	70.87	4,742.6	2,904.9	4,372.4	4,204.7	167.61	26.086		
16,400.0	11,450.0	14,880.5	10,027.6	92.5	87.9	70.89	4,841.9	2,904.1	4,361.2	4,190.8	170.38	25.597		
16,500.0	11,450.0	14,980.1	10,026.9	93.9	89.4	70.89	4,941.5	2,903.4	4,353.2	4,180.1	173.18	25.137		
16,600.0	11,450.0	15,080.0	10,026.2	95.3	90.9	70.89	5,041.4	2,902.6	4,348.6	4,172.6	176.02	24.705		
16,689.9	11,450.0	15,169.9	10,025.5	96.6	92.3	70.89	5,131.3	2,901.9	4,347.3	4,168.7	178.61	24.340		
16,700.0	11,450.0	15,179.9	10,025.5	96.8	92.4	70.89	5,141.3	2,901.8	4,347.3	4,168.4	178.90	24.300		
16,800.0	11,450.0	15,279.9	10,024.8	98.2	94.0	70.87	5,241.3	2,901.0	4,349.3	4,167.5	181.81	23.922		
16,900.0	11,450.0	15,379.8	10,024.1	99.7	95.5	70.85	5,341.2	2,900.2	4,354.6	4,169.8	184.75	23.571		
17,000.0	11,450.0	15,479.4	10,023.4	101.3	97.0	70.82	5,440.8	2,899.5	4,363.1	4,175.4	187.71	23.244		
17,100.0	11,450.0	15,578.6	10,022.7	102.8	98.6	70.79	5,540.0	2,898.7	4,375.0	4,184.3	190.69	22.943		
17,200.0	11,450.0	15,677.3	10,022.0	104.4	100.1	70.75	5,638.7	2,897.9	4,390.1	4,196.4	193.68	22.666		
17,300.0	11,450.0	15,775.5	10,021.3	106.0	101.6	70.70	5,736.9	2,897.2	4,408.5	4,211.8	196.69	22.413		
17,400.0	11,450.0	15,872.9	10,020.6	107.5	103.1	70.64	5,834.3	2,896.4	4,430.1	4,230.4	199.71	22.182		
17,426.1	11,450.0	15,901.8	10,020.4	108.0	103.6	70.62	5,859.6	2,896.2	4,436.3	4,235.7	200.55	22.120		
17,500.0	11,450.0	15,969.9	10,019.9	109.1	104.6	70.81	5,931.3	2,895.6	4,453.2	4,250.4	202.74	21.965		
17,600.0	11,450.0	16,067.7	10,019.2	110.7	106.2	71.02	6,029.1	2,894.9	4,473.3	4,267.5	205.77	21.739		
17,700.0	11,450.0	16,166.1	10,018.5	112.3	107.7	71.19	6,127.5	2,894.1	4,490.1	4,281.3	208.81	21.503		
17,800.0	11,450.0	16,265.1	10,017.8	113.9	109.2	71.33	6,226.5	2,893.3	4,503.7	4,291.8	211.85	21.258		
17,900.0	11,450.0	16,364.5	10,017.1	115.5	110.8	71.43	6,325.9	2,892.6	4,514.0	4,299.1	214.89	21.006		
18,000.0	11,450.0	16,464.3	10,016.4	117.0	112.4	71.50	6,425.6	2,891.8	4,521.0	4,303.1	217.92	20.746		
18,100.0	11,450.0	16,564.2	10,015.7	118.6	113.9	71.53	6,525.5	2,891.0	4,524.7	4,303.8	220.94	20.479		
18,155.7	11,450.0	16,619.9	10,015.3	119.4	114.8	71.53	6,581.3	2,890.6	4,525.3	4,302.7	222.61	20.328		
18,200.0	11,450.0	16,664.2	10,015.0	120.1	115.5	71.53	6,625.5	2,890.2	4,525.4	4,301.5	223.94	20.208		
18,300.0	11,450.0	16,764.2	10,014.3	121.7	117.1	71.52	6,725.5	2,889.5	4,525.6	4,298.7	226.94	19.942		
18,400.0	11,450.0	16,864.2	10,013.6	123.2	118.7	71.51	6,825.5	2,888.7	4,525.9	4,295.9	229.95	19.682		
18,500.0	11,450.0	16,964.2	10,012.9	124.7	120.2	71.50	6,925.5	2,887.9	4,526.1	4,293.1	232.96	19.429		
18,600.0	11,450.0	17,064.2	10,012.2	126.3	121.8	71.49	7,025.5	2,887.1	4,526.3	4,290.3	235.97	19.181		
18,700.0	11,450.0	17,164.2	10,011.5	127.8	123.4	71.48	7,125.5	2,886.3	4,526.5	4,287.5	238.99	18.940		

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 #135H
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 #135H	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		
18,800.0	11,450.0	17,264.2	10,010.8	129.4	125.0	71.47	7,225.5	2,885.6	4,526.7	4,284.7	242.01	18.704		
18,900.0	11,450.0	17,364.2	10,010.1	130.9	126.6	71.47	7,325.5	2,884.8	4,526.9	4,281.9	245.04	18.474		
19,000.0	11,450.0	17,464.2	10,009.4	132.5	128.2	71.46	7,425.5	2,884.0	4,527.1	4,279.0	248.07	18.249		
19,100.0	11,450.0	17,564.2	10,008.7	134.0	129.8	71.45	7,525.5	2,883.2	4,527.3	4,276.2	251.10	18.030		
19,200.0	11,450.0	17,664.2	10,008.0	135.6	131.4	71.44	7,625.5	2,882.5	4,527.5	4,273.4	254.14	17.815		
19,300.0	11,450.0	17,764.2	10,007.3	137.2	133.0	71.43	7,725.4	2,881.7	4,527.7	4,270.6	257.18	17.605		
19,400.0	11,450.0	17,864.2	10,006.6	138.7	134.6	71.42	7,825.4	2,880.9	4,528.0	4,267.7	260.22	17.400		
19,500.0	11,450.0	17,964.2	10,005.9	140.3	136.2	71.42	7,925.4	2,880.1	4,528.2	4,264.9	263.27	17.200		
19,600.0	11,450.0	18,064.2	10,005.2	141.9	137.8	71.41	8,025.4	2,879.3	4,528.4	4,262.1	266.31	17.004		
19,700.0	11,450.0	18,164.2	10,004.5	143.4	139.4	71.40	8,125.4	2,878.6	4,528.6	4,259.2	269.36	16.812		
19,800.0	11,450.0	18,264.2	10,003.8	145.0	141.0	71.39	8,225.4	2,877.8	4,528.8	4,256.4	272.42	16.624		
19,900.0	11,450.0	18,364.2	10,003.1	146.6	142.6	71.38	8,325.4	2,877.0	4,529.0	4,253.5	275.47	16.441		
20,000.0	11,450.0	18,464.2	10,002.4	148.2	144.2	71.37	8,425.4	2,876.2	4,529.2	4,250.7	278.53	16.261		
20,100.0	11,450.0	18,564.2	10,001.7	149.7	145.8	71.36	8,525.4	2,875.4	4,529.4	4,247.8	281.59	16.085		
20,200.0	11,450.0	18,664.2	10,000.9	151.3	147.4	71.36	8,625.4	2,874.7	4,529.6	4,245.0	284.65	15.913		
20,300.0	11,450.0	18,764.1	10,000.2	152.9	149.0	71.35	8,725.4	2,873.9	4,529.9	4,242.1	287.72	15.744		
20,400.0	11,450.0	18,864.1	9,999.5	154.5	150.6	71.34	8,825.4	2,873.1	4,530.1	4,239.3	290.78	15.579		
20,500.0	11,450.0	18,964.1	9,998.8	156.1	152.2	71.33	8,925.3	2,872.3	4,530.3	4,236.4	293.85	15.417		
20,600.0	11,450.0	19,064.1	9,998.1	157.6	153.8	71.32	9,025.3	2,871.6	4,530.5	4,233.6	296.92	15.258		
20,700.0	11,450.0	19,164.1	9,997.4	159.2	155.4	71.31	9,125.3	2,870.8	4,530.7	4,230.7	300.00	15.103		
20,800.0	11,450.0	19,264.1	9,996.7	160.8	157.0	71.31	9,225.3	2,870.0	4,530.9	4,227.8	303.07	14.950		
20,900.0	11,450.0	19,364.1	9,996.0	162.4	158.7	71.30	9,325.3	2,869.2	4,531.1	4,225.0	306.15	14.801		
21,000.0	11,450.0	19,464.1	9,995.3	164.0	160.3	71.29	9,425.3	2,868.4	4,531.3	4,222.1	309.22	14.654		
21,100.0	11,450.0	19,564.1	9,994.6	165.6	161.9	71.28	9,525.3	2,867.7	4,531.5	4,219.2	312.30	14.510		
21,200.0	11,450.0	19,664.1	9,993.9	167.2	163.5	71.27	9,625.3	2,866.9	4,531.8	4,216.4	315.38	14.369		
21,300.0	11,450.0	19,764.1	9,993.2	168.8	165.1	71.26	9,725.3	2,866.1	4,532.0	4,213.5	318.46	14.231		
21,400.0	11,450.0	19,864.1	9,992.5	170.4	166.7	71.25	9,825.3	2,865.3	4,532.2	4,210.6	321.55	14.095		
21,500.0	11,450.0	19,964.1	9,991.8	172.0	168.4	71.25	9,925.3	2,864.6	4,532.4	4,207.8	324.63	13.962		
21,600.0	11,450.0	20,064.1	9,991.1	173.6	170.0	71.24	10,025.3	2,863.8	4,532.6	4,204.9	327.72	13.831		
21,700.0	11,450.0	20,164.1	9,990.4	175.2	171.6	71.23	10,125.3	2,863.0	4,532.8	4,202.0	330.81	13.702		
21,757.9	11,450.0	20,222.0	9,990.0	176.1	172.5	71.22	10,183.1	2,862.5	4,532.9	4,200.4	332.55	13.631 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 #135H
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 #135H	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: 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	13.1	13.1	0.0	0.0	-12.72	5,145.1	-1,161.3	5,274.6					
100.0	100.0	94.9	94.9	0.1	0.2	91.35	5,145.4	-1,161.0	5,274.8	5,274.5	0.28	N/A		
200.0	200.0	176.8	176.8	0.5	0.3	91.36	5,146.0	-1,160.4	5,275.4	5,274.6	0.76	6,927.450		
300.0	300.0	263.8	263.8	0.8	0.5	91.38	5,147.0	-1,159.5	5,276.3	5,274.9	1.37	3,840.829		
400.0	400.0	353.8	353.7	1.2	0.9	91.40	5,148.2	-1,158.6	5,277.4	5,275.3	2.05	2,568.096		
500.0	500.0	450.2	450.2	1.6	1.2	91.43	5,149.6	-1,157.7	5,278.7	5,275.9	2.76	1,912.469		
600.0	600.0	549.4	549.3	1.9	1.6	91.46	5,151.1	-1,156.8	5,280.0	5,276.5	3.48	1,519.336		
700.0	699.9	639.4	639.3	2.3	1.9	91.49	5,152.5	-1,156.1	5,281.4	5,277.2	4.16	1,270.198		
800.0	799.9	727.5	727.4	2.6	2.2	91.52	5,154.1	-1,155.3	5,283.0	5,278.2	4.83	1,092.804		
900.0	899.9	820.9	820.8	3.0	2.5	91.56	5,155.9	-1,154.6	5,284.8	5,279.3	5.53	955.602		
1,000.0	999.8	916.9	916.8	3.4	2.9	91.60	5,157.9	-1,154.0	5,286.7	5,280.5	6.24	847.782		
1,100.0	1,099.8	1,012.9	1,012.7	3.7	3.2	91.64	5,159.9	-1,153.3	5,288.8	5,281.8	6.94	761.845		
1,200.0	1,199.7	1,487.3	1,487.0	4.1	4.8	91.82	5,152.1	-1,153.0	5,287.2	5,278.2	8.90	593.956		
1,300.0	1,299.6	1,652.3	1,651.6	4.5	5.4	91.93	5,143.1	-1,148.7	5,281.3	5,271.5	9.83	537.422		
1,400.0	1,399.5	1,770.2	1,769.3	4.8	5.8	92.03	5,136.1	-1,144.5	5,274.9	5,264.3	10.60	497.766		
1,500.0	1,499.4	1,880.2	1,879.0	5.2	6.2	92.13	5,129.5	-1,139.9	5,268.3	5,256.9	11.35	464.330		
1,600.0	1,599.3	1,990.1	1,988.5	5.6	6.6	92.25	5,122.8	-1,134.2	5,261.5	5,249.4	12.10	434.932		
1,700.0	1,699.1	2,104.5	2,102.5	5.9	7.0	92.39	5,115.9	-1,127.1	5,254.4	5,241.6	12.87	408.303		
1,800.0	1,798.9	2,210.1	2,207.7	6.3	7.4	92.54	5,109.4	-1,119.7	5,247.2	5,233.6	13.61	385.447		
1,900.0	1,898.8	2,308.0	2,305.2	6.7	7.8	92.68	5,103.3	-1,112.9	5,240.0	5,225.7	14.33	365.574		
2,000.0	1,998.6	2,404.7	2,401.4	7.0	8.1	92.82	5,097.4	-1,106.2	5,232.9	5,217.8	15.05	347.657		
2,100.0	2,098.3	2,500.5	2,496.8	7.4	8.5	92.96	5,091.5	-1,099.7	5,225.8	5,210.1	15.77	331.400		
2,200.0	2,198.1	2,586.9	2,582.8	7.8	8.8	93.09	5,086.3	-1,093.9	5,219.0	5,202.5	16.46	317.149		
2,300.0	2,297.8	2,667.7	2,663.3	8.1	9.1	93.22	5,081.8	-1,088.4	5,212.5	5,195.4	17.13	304.368		
2,400.0	2,397.5	2,754.8	2,750.1	8.5	9.4	93.36	5,077.2	-1,082.3	5,206.4	5,188.5	17.82	292.183		
2,500.0	2,497.2	2,857.1	2,852.0	8.9	9.8	93.53	5,071.8	-1,075.2	5,200.3	5,181.8	18.57	280.073		
2,600.0	2,596.8	2,953.6	2,948.1	9.3	10.2	93.69	5,066.7	-1,068.5	5,194.3	5,175.0	19.30	269.161		
2,700.0	2,696.4	3,043.1	3,037.3	9.7	10.5	93.84	5,062.0	-1,062.4	5,188.5	5,168.5	20.01	259.346		
2,800.0	2,796.0	3,125.5	3,119.4	10.0	10.8	93.99	5,057.9	-1,056.9	5,183.0	5,162.3	20.69	250.512		
2,900.0	2,895.6	3,193.8	3,187.5	10.4	11.1	94.10	5,054.7	-1,053.3	5,178.0	5,156.7	21.32	242.845		
3,000.0	2,995.1	3,262.3	3,255.9	10.8	11.3	94.20	5,051.6	-1,050.7	5,173.6	5,151.7	21.96	235.627		
3,100.0	3,094.6	3,292.0	3,285.6	11.2	11.4	94.25	5,050.4	-1,049.9	5,170.1	5,147.7	22.46	230.237		
3,200.0	3,194.1	3,367.6	3,361.2	11.6	11.7	94.35	5,047.8	-1,048.2	5,167.3	5,144.2	23.11	223.562		
3,300.0	3,293.5	3,415.9	3,409.4	12.0	11.9	94.42	5,046.8	-1,047.2	5,165.7	5,142.0	23.68	218.186		
3,400.0	3,392.9	3,482.0	3,475.5	12.4	12.1	94.52	5,046.2	-1,045.7	5,165.2	5,140.9	24.30	212.544		
3,420.9	3,413.7	3,482.0	3,475.5	12.4	12.1	94.52	5,046.2	-1,045.7	5,165.1	5,140.8	24.38	211.833		
3,500.0	3,492.2	3,520.9	3,514.3	12.7	12.3	94.58	5,046.3	-1,044.7	5,165.5	5,140.7	24.83	208.037		
3,600.0	3,591.6	3,582.6	3,576.1	13.1	12.5	94.68	5,046.7	-1,042.9	5,166.7	5,141.3	25.44	203.088		
3,700.0	3,690.8	3,644.2	3,637.6	13.5	12.7	94.78	5,047.7	-1,040.7	5,168.7	5,142.6	26.05	198.402		
3,800.0	3,790.1	3,732.5	3,725.8	13.9	13.0	94.94	5,049.6	-1,037.4	5,171.3	5,144.6	26.76	193.241		
3,900.0	3,889.3	3,842.0	3,835.3	14.3	13.4	95.12	5,051.6	-1,034.8	5,173.9	5,146.4	27.55	187.803		
4,000.0	3,988.4	3,960.3	3,953.5	14.7	13.8	95.30	5,053.3	-1,033.3	5,176.3	5,147.9	28.37	182.463		
4,100.0	4,087.5	4,080.3	4,073.5	15.2	14.2	95.48	5,054.4	-1,032.3	5,178.3	5,149.1	29.20	177.367		
4,200.0	4,186.6	4,189.5	4,182.8	15.6	14.6	95.64	5,054.9	-1,032.4	5,180.2	5,150.2	29.97	172.831		
4,300.0	4,285.6	4,277.4	4,270.6	16.0	14.9	95.77	5,055.2	-1,033.0	5,182.0	5,151.3	30.68	168.912		
4,400.0	4,384.6	4,347.5	4,340.7	16.4	15.1	95.87	5,055.8	-1,033.2	5,184.3	5,153.0	31.32	165.509		
4,500.0	4,483.5	4,426.0	4,419.2	16.8	15.4	96.00	5,056.9	-1,033.1	5,187.3	5,155.3	32.00	162.106		
4,600.0	4,582.4	4,711.1	4,704.2	17.2	16.3	96.42	5,054.3	-1,036.8	5,187.3	5,153.9	33.40	155.330		
4,700.0	4,681.2	4,815.4	4,808.5	17.6	16.7	96.56	5,051.8	-1,039.3	5,187.0	5,152.8	34.16	151.824		
4,800.0	4,780.0	4,906.0	4,899.0	18.1	17.0	96.69	5,049.6	-1,041.5	5,186.7	5,151.8	34.89	148.651		
4,900.0	4,878.7	5,007.2	5,000.1	18.5	17.3	96.84	5,047.4	-1,043.8	5,186.6	5,151.0	35.66	145.457		
5,000.0	4,977.4	5,120.3	5,113.2	18.9	17.7	97.01	5,044.5	-1,046.1	5,186.3	5,149.9	36.47	142.218		

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 #135H
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 #135H	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: 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	5,076.0	5,215.0	5,207.9	19.3	18.0	97.16	5,042.1	-1,048.1	5,186.1	5,148.9	37.22	139.340		
5,177.6	5,152.5	5,288.5	5,281.3	19.7	18.3	97.28	5,040.3	-1,049.8	5,186.0	5,148.2	37.80	137.183		
5,180.6	5,155.5	5,277.0	5,269.8	19.7	18.2	97.26	5,040.6	-1,049.5	5,186.1	5,148.3	37.78	137.276		
5,200.0	5,174.6	5,299.2	5,292.0	19.8	18.3	97.29	5,040.0	-1,050.0	5,186.1	5,148.1	37.94	136.695		
5,300.0	5,273.2	5,363.3	5,356.1	20.2	18.5	97.40	5,038.9	-1,050.9	5,186.6	5,148.0	38.59	134.389		
5,400.0	5,371.7	5,427.2	5,420.0	20.6	18.8	97.52	5,038.2	-1,051.2	5,187.9	5,148.7	39.25	132.184		
5,500.0	5,470.2	5,503.5	5,496.3	21.1	19.0	97.66	5,038.0	-1,050.9	5,189.8	5,149.9	39.95	129.920		
5,600.0	5,568.8	5,599.6	5,592.3	21.5	19.4	97.84	5,037.9	-1,050.6	5,192.0	5,151.3	40.72	127.508		
5,700.0	5,667.3	5,697.0	5,689.7	22.0	19.7	98.02	5,037.8	-1,050.5	5,194.2	5,152.7	41.50	125.176		
5,755.0	5,721.5	5,751.5	5,744.3	22.2	19.9	98.13	5,037.7	-1,050.4	5,195.5	5,153.6	41.92	123.924		
5,800.0	5,765.9	5,796.1	5,788.9	22.4	20.0	98.21	5,037.7	-1,050.4	5,196.5	5,154.3	42.28	122.918		
5,900.0	5,864.5	5,897.9	5,890.7	22.8	20.4	98.40	5,037.5	-1,050.5	5,198.8	5,155.8	43.06	120.722		
6,000.0	5,963.1	6,002.0	5,994.8	23.3	20.8	98.59	5,037.2	-1,050.6	5,201.0	5,157.2	43.86	118.588		
6,100.0	6,061.9	6,091.8	6,084.6	23.7	21.1	98.75	5,037.0	-1,050.7	5,203.2	5,158.6	44.60	116.673		
6,200.0	6,160.6	6,176.2	6,169.0	24.1	21.4	98.89	5,037.0	-1,051.0	5,205.7	5,160.3	45.31	114.882		
6,300.0	6,259.4	6,267.5	6,260.3	24.6	21.7	99.05	5,037.2	-1,051.4	5,208.3	5,162.3	46.05	113.102		
6,400.0	6,358.3	6,365.8	6,358.6	25.0	22.0	99.21	5,037.4	-1,051.8	5,211.0	5,164.2	46.81	111.327		
6,500.0	6,457.2	6,463.6	6,456.4	25.4	22.3	99.36	5,037.7	-1,052.3	5,213.8	5,166.2	47.56	109.616		
6,600.0	6,556.2	6,561.0	6,553.8	25.8	22.7	99.52	5,038.0	-1,052.8	5,216.5	5,168.2	48.32	107.967		
6,700.0	6,655.2	6,660.0	6,652.8	26.3	23.0	99.67	5,038.3	-1,053.4	5,219.2	5,170.1	49.07	106.359		
6,800.0	6,754.2	6,759.9	6,752.7	26.7	23.3	99.81	5,038.6	-1,053.9	5,221.9	5,172.1	49.83	104.795		
6,900.0	6,853.3	6,864.5	6,857.3	27.1	23.7	99.97	5,038.9	-1,054.4	5,224.5	5,173.9	50.60	103.246		
7,000.0	6,952.4	6,970.7	6,963.4	27.5	24.1	100.11	5,039.0	-1,054.9	5,227.0	5,175.6	51.38	101.733		
7,100.0	7,051.6	7,142.9	7,135.6	27.9	24.7	100.34	5,037.9	-1,056.0	5,228.7	5,176.3	52.39	99.801		
7,200.0	7,150.8	7,283.5	7,276.3	28.3	25.1	100.52	5,035.4	-1,056.9	5,229.2	5,175.9	53.29	98.131		
7,300.0	7,250.1	7,409.6	7,402.3	28.7	25.6	100.68	5,032.4	-1,056.8	5,229.0	5,174.9	54.13	96.597		
7,400.0	7,349.4	7,525.5	7,518.1	29.1	26.0	100.83	5,029.2	-1,056.4	5,228.5	5,173.5	54.94	95.167		
7,500.0	7,448.8	7,589.1	7,581.7	29.6	26.2	100.91	5,027.5	-1,056.2	5,228.0	5,172.4	55.57	94.084		
7,512.8	7,461.5	7,596.3	7,588.9	29.6	26.3	100.92	5,027.4	-1,056.2	5,228.0	5,172.3	55.64	93.954		
7,600.0	7,548.1	7,645.2	7,637.8	30.0	26.4	100.98	5,026.5	-1,056.0	5,228.3	5,172.1	56.16	93.090		
7,700.0	7,647.6	7,729.0	7,721.6	30.4	26.7	101.08	5,025.9	-1,055.8	5,229.5	5,172.6	56.85	91.983		
7,800.0	7,747.0	7,795.8	7,788.4	30.7	27.0	101.16	5,025.7	-1,055.5	5,231.0	5,173.6	57.48	91.008		
7,900.0	7,846.5	7,927.2	7,919.8	31.1	27.4	101.31	5,024.7	-1,054.8	5,232.2	5,173.9	58.34	89.693		
8,000.0	7,946.0	8,025.3	8,017.9	31.5	27.8	101.43	5,023.6	-1,054.0	5,233.1	5,174.0	59.07	88.592		
8,100.0	8,045.5	8,125.6	8,118.2	31.9	28.1	101.54	5,022.6	-1,053.1	5,233.9	5,174.1	59.81	87.508		
8,200.0	8,145.1	8,182.0	8,174.6	32.3	28.3	101.60	5,022.3	-1,052.7	5,235.2	5,174.8	60.39	86.695		
8,300.0	8,244.7	8,245.6	8,238.2	32.7	28.5	101.67	5,022.4	-1,052.3	5,237.1	5,176.1	60.98	85.877		
8,400.0	8,344.4	8,322.3	8,314.9	33.1	28.8	101.75	5,023.0	-1,052.0	5,239.5	5,177.9	61.62	85.023		
8,500.0	8,444.0	8,444.9	8,437.5	33.5	29.2	101.87	5,023.8	-1,051.4	5,241.9	5,179.4	62.43	83.959		
8,600.0	8,543.7	8,727.1	8,719.5	33.8	30.2	102.19	5,020.9	-1,043.7	5,242.6	5,178.8	63.81	82.159		
8,700.0	8,643.4	8,844.0	8,836.1	34.2	30.6	102.36	5,016.7	-1,035.7	5,240.3	5,175.7	64.59	81.126		
8,800.0	8,743.2	8,883.6	8,875.3	34.6	30.8	102.45	5,015.7	-1,030.4	5,239.0	5,173.9	65.12	80.455		
8,855.4	8,798.4	8,900.6	8,892.0	34.8	30.9	102.49	5,015.4	-1,027.4	5,238.8	5,173.4	65.38	80.123		
8,900.0	8,843.0	8,928.0	8,918.8	35.0	31.0	102.57	5,015.3	-1,021.8	5,239.0	5,173.3	65.65	79.806		
9,000.0	8,942.7	8,928.0	8,918.8	35.3	31.0	102.58	5,015.3	-1,021.8	5,240.2	5,174.2	66.00	79.401		
9,100.0	9,042.5	8,954.6	8,944.9	35.7	31.1	102.66	5,015.7	-1,016.5	5,242.9	5,176.5	66.43	78.923		
9,200.0	9,142.4	8,973.0	8,963.0	36.1	31.1	102.71	5,016.3	-1,013.5	5,247.2	5,180.3	66.82	78.531		
9,300.0	9,242.2	9,003.0	8,992.7	36.4	31.2	102.78	5,017.7	-1,009.3	5,252.8	5,185.5	67.23	78.127		
9,400.0	9,342.1	9,022.0	9,011.5	36.8	31.3	102.83	5,018.8	-1,006.8	5,259.7	5,192.1	67.59	77.818		
9,500.0	9,442.0	9,082.0	9,071.0	37.1	31.5	102.95	5,022.8	-1,000.6	5,267.5	5,199.4	68.12	77.331		
9,600.0	9,541.9	9,401.0	9,389.4	37.5	32.6	103.17	5,037.4	-995.3	5,271.6	5,201.8	69.75	75.578		
9,700.0	9,641.8	9,401.0	9,389.4	37.9	32.6	103.18	5,037.4	-995.3	5,276.7	5,206.6	70.04	75.343		

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 #135H
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 #135H	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: 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		
9,800.0	9,741.7	9,401.0	9,389.4	38.2	32.6	103.20	5,037.4	-995.3	5,283.6	5,213.3	70.30	75.163		
9,900.0	9,841.6	9,451.4	9,439.8	38.6	32.8	103.23	5,039.7	-995.2	5,290.4	5,219.6	70.76	74.762		
10,000.0	9,941.6	9,495.0	9,483.1	38.9	32.9	103.27	5,044.4	-994.8	5,300.6	5,229.4	71.19	74.456		
10,100.0	10,041.5	9,495.0	9,483.1	39.3	32.9	103.29	5,044.4	-994.8	5,311.2	5,239.8	71.40	74.387		
10,200.0	10,141.5	9,495.0	9,483.1	39.6	32.9	103.31	5,044.4	-994.8	5,323.5	5,251.9	71.58	74.369		
10,300.0	10,241.5	9,495.0	9,483.1	39.9	32.9	103.34	5,044.4	-994.8	5,337.6	5,265.9	71.74	74.401		
10,400.0	10,341.5	9,495.0	9,483.1	40.3	32.9	103.37	5,044.4	-994.8	5,353.5	5,281.6	71.88	74.481		
10,500.0	10,441.4	9,495.0	9,483.1	40.6	32.9	103.40	5,044.4	-994.8	5,371.1	5,299.1	71.99	74.609		
10,600.0	10,541.4	9,518.6	9,506.4	41.0	33.0	103.44	5,048.4	-994.4	5,389.6	5,317.4	72.22	74.629		
10,700.0	10,641.4	9,542.0	9,529.2	41.3	33.1	103.49	5,053.6	-993.8	5,410.6	5,338.1	72.43	74.696		
10,800.0	10,741.4	9,542.0	9,529.2	41.6	33.1	103.53	5,053.6	-993.8	5,432.4	5,359.9	72.49	74.940		
10,900.0	10,841.4	9,542.0	9,529.2	42.0	33.1	103.58	5,053.6	-993.8	5,456.0	5,383.4	72.53	75.228		
10,935.6	10,877.0	9,542.0	9,529.2	42.1	33.1	-0.47	5,053.6	-993.8	5,464.7	5,392.2	72.53	75.345		
10,950.0	10,891.4	9,542.0	9,529.2	42.1	33.1	20.98	5,053.6	-993.8	5,468.2	5,395.7	72.53	75.392		
11,000.0	10,941.3	9,542.0	9,529.2	42.3	33.1	20.63	5,053.6	-993.8	5,477.9	5,405.4	72.53	75.524		
11,050.0	10,990.7	9,566.9	9,553.2	42.4	33.1	20.44	5,060.0	-993.2	5,483.8	5,411.1	72.70	75.432		
11,100.0	11,039.2	9,589.0	9,574.5	42.6	33.2	20.39	5,066.0	-992.7	5,486.0	5,413.1	72.85	75.308		
11,150.0	11,086.5	9,589.0	9,574.5	42.8	33.2	20.44	5,066.0	-992.7	5,484.4	5,411.6	72.85	75.285		
11,200.0	11,132.1	9,589.0	9,574.5	42.9	33.2	20.63	5,066.0	-992.7	5,479.2	5,406.4	72.85	75.217		
11,250.0	11,175.9	9,589.0	9,574.5	43.1	33.2	20.95	5,066.0	-992.7	5,470.4	5,397.6	72.84	75.102		
11,300.0	11,217.3	9,589.0	9,574.5	43.2	33.2	21.41	5,066.0	-992.7	5,458.1	5,385.3	72.83	74.942		
11,350.0	11,256.2	9,589.0	9,574.5	43.3	33.2	22.02	5,066.0	-992.7	5,442.3	5,369.5	72.82	74.737		
11,400.0	11,292.2	9,589.0	9,574.5	43.5	33.2	22.82	5,066.0	-992.7	5,423.1	5,350.3	72.80	74.488		
11,450.0	11,325.0	9,610.5	9,595.0	43.6	33.3	23.90	5,072.5	-992.5	5,400.0	5,327.1	72.95	74.027		
11,500.0	11,354.5	9,613.5	9,597.8	43.7	33.3	25.17	5,073.5	-992.5	5,374.3	5,301.3	72.96	73.664		
11,550.0	11,380.3	9,636.0	9,618.9	43.9	33.3	26.83	5,081.4	-992.5	5,345.9	5,272.8	73.11	73.118		
11,600.0	11,402.2	9,636.0	9,618.9	44.0	33.3	28.75	5,081.4	-992.5	5,314.2	5,241.1	73.11	72.691		
11,650.0	11,420.2	9,636.0	9,618.9	44.1	33.3	31.10	5,081.4	-992.5	5,279.9	5,206.8	73.11	72.223		
11,700.0	11,434.0	9,636.0	9,618.9	44.3	33.3	34.02	5,081.4	-992.5	5,243.2	5,170.1	73.11	71.716		
11,750.0	11,443.6	9,636.0	9,618.9	44.5	33.3	37.64	5,081.4	-992.5	5,204.3	5,131.2	73.12	71.172		
11,800.0	11,448.9	9,636.0	9,618.9	44.6	33.3	42.16	5,081.4	-992.5	5,163.5	5,090.3	73.15	70.591		
11,835.6	11,450.0	9,636.0	9,618.9	44.8	33.3	46.07	5,081.4	-992.5	5,133.5	5,060.3	73.17	70.156		
11,900.0	11,450.0	9,636.0	9,618.9	45.1	33.3	44.56	5,081.4	-992.5	5,078.2	5,005.0	73.22	69.358		
12,000.0	11,450.0	9,636.0	9,618.9	45.5	33.3	42.06	5,081.4	-992.5	4,991.9	4,918.6	73.27	68.125		
12,100.0	11,450.0	9,636.0	9,618.9	46.1	33.3	39.39	5,081.4	-992.5	4,904.8	4,831.5	73.32	66.899		
12,200.0	11,450.0	9,636.0	9,618.9	46.6	33.3	36.52	5,081.4	-992.5	4,817.2	4,743.9	73.34	65.683		
12,300.0	11,450.0	9,636.0	9,618.9	47.3	33.3	33.47	5,081.4	-992.5	4,729.1	4,655.8	73.34	64.480		
12,400.0	11,450.0	9,656.4	9,637.7	47.9	33.4	30.51	5,089.3	-992.8	4,640.3	4,566.8	73.50	63.131		
12,500.0	11,450.0	9,675.3	9,654.9	48.6	33.5	27.31	5,096.9	-993.3	4,551.3	4,477.6	73.63	61.813		
12,600.0	11,450.0	9,675.3	9,654.9	49.3	33.5	23.68	5,096.9	-993.3	4,461.7	4,388.2	73.56	60.657		
12,700.0	11,450.0	9,679.5	9,658.8	50.0	33.5	19.95	5,098.7	-993.4	4,372.0	4,298.5	73.49	59.490		
12,800.0	11,450.0	9,683.0	9,662.0	50.8	33.5	16.09	5,100.2	-993.5	4,282.1	4,208.7	73.39	58.351		
12,892.5	11,450.0	9,683.0	9,662.0	51.5	33.5	12.42	5,100.2	-993.5	4,199.0	4,125.8	73.22	57.346		
12,900.0	11,450.0	9,683.0	9,662.0	51.5	33.5	12.42	5,100.2	-993.5	4,192.3	4,119.1	73.21	57.265		
13,000.0	11,450.0	9,683.0	9,662.0	52.3	33.5	12.42	5,100.2	-993.5	4,102.8	4,029.8	73.01	56.196		
13,100.0	11,450.0	9,706.9	9,683.5	53.2	33.5	12.54	5,110.6	-994.3	4,013.3	3,940.2	73.05	54.940		
13,200.0	11,450.0	9,730.0	9,703.9	54.0	33.6	12.66	5,121.2	-995.1	3,924.6	3,851.6	73.08	53.703		
13,300.0	11,450.0	9,730.0	9,703.9	54.9	33.6	12.66	5,121.2	-995.1	3,836.1	3,763.3	72.86	52.649		
13,400.0	11,450.0	9,730.0	9,703.9	55.9	33.6	12.66	5,121.2	-995.1	3,748.2	3,675.6	72.63	51.604		
13,500.0	11,450.0	9,730.0	9,703.9	56.8	33.6	12.66	5,121.2	-995.1	3,660.9	3,588.5	72.39	50.570		
13,600.0	11,450.0	9,730.0	9,703.9	57.8	33.6	12.66	5,121.2	-995.1	3,574.3	3,502.1	72.14	49.547		
13,700.0	11,450.0	9,730.0	9,703.9	58.8	33.6	12.66	5,121.2	-995.1	3,488.3	3,416.5	71.87	48.536		

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 #135H
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 #135H	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: 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	11,450.0	9,756.1	9,726.5	59.9	33.7	12.79	5,134.2	-996.2	3,402.4	3,330.5	71.91	47.315		
13,888.8	11,450.0	9,777.0	9,744.2	60.9	33.7	12.89	5,145.4	-997.2	3,327.3	3,255.4	71.92	46.267		
13,900.0	11,450.0	9,777.0	9,744.2	61.0	33.7	12.89	5,145.4	-997.2	3,317.8	3,246.0	71.88	46.156		
14,000.0	11,450.0	9,777.0	9,744.2	62.1	33.7	12.89	5,145.4	-997.2	3,233.6	3,162.0	71.59	45.171		
14,100.0	11,450.0	9,777.0	9,744.2	63.2	33.7	12.89	5,145.4	-997.2	3,150.3	3,079.1	71.27	44.202		
14,200.0	11,450.0	9,793.9	9,758.2	64.4	33.8	12.96	5,154.8	-998.0	3,067.9	2,996.7	71.17	43.107		
14,300.0	11,450.0	9,824.0	9,782.7	65.6	33.9	13.10	5,172.2	-999.5	2,986.4	2,915.1	71.24	41.922		
14,400.0	11,450.0	9,824.0	9,782.7	66.8	33.9	13.10	5,172.2	-999.5	2,905.4	2,834.5	70.88	40.988		
14,500.0	11,450.0	9,824.0	9,782.7	68.0	33.9	13.10	5,172.2	-999.5	2,825.6	2,755.1	70.51	40.073		
14,600.0	11,450.0	9,851.1	9,804.3	69.2	33.9	13.23	5,188.5	-1,000.7	2,746.7	2,676.1	70.52	38.947		
14,700.0	11,450.0	9,871.0	9,819.8	70.5	34.0	13.33	5,200.9	-1,001.5	2,668.9	2,598.5	70.42	37.901		
14,800.0	11,450.0	9,871.0	9,819.8	71.7	34.0	13.33	5,200.9	-1,001.5	2,592.3	2,522.3	70.00	37.035		
14,900.0	11,450.0	9,890.0	9,834.3	73.0	34.1	13.42	5,213.2	-1,002.2	2,517.0	2,447.1	69.86	36.027		
15,000.0	11,450.0	9,918.0	9,854.8	74.3	34.1	13.55	5,232.2	-1,003.4	2,443.5	2,373.6	69.85	34.982		
15,100.0	11,450.0	9,918.0	9,854.8	75.7	34.1	13.55	5,232.2	-1,003.4	2,371.0	2,301.6	69.37	34.177		
15,200.0	11,450.0	9,918.0	9,854.8	77.0	34.1	13.55	5,232.2	-1,003.4	2,300.5	2,231.6	68.87	33.403		
15,236.3	11,450.0	9,940.0	9,870.3	77.5	34.2	13.65	5,247.8	-1,004.5	2,275.1	2,206.1	69.05	32.947		
15,300.0	11,450.0	9,966.0	9,888.2	78.3	34.3	12.55	5,266.7	-1,006.0	2,231.4	2,162.2	69.15	32.267		
15,400.0	11,450.0	9,966.0	9,888.2	79.6	34.3	10.73	5,266.7	-1,006.0	2,163.4	2,094.9	68.53	31.566		
15,500.0	11,450.0	9,989.0	9,903.3	80.9	34.4	8.99	5,283.9	-1,007.4	2,096.9	2,028.7	68.21	30.742		
15,600.0	11,450.0	10,013.0	9,918.4	82.2	34.5	7.25	5,302.5	-1,008.9	2,032.2	1,964.4	67.81	29.970		
15,700.0	11,450.0	10,013.0	9,918.4	83.5	34.5	5.65	5,302.5	-1,008.9	1,969.5	1,902.6	66.87	29.450		
15,800.0	11,450.0	10,038.6	9,933.5	84.8	34.5	4.00	5,323.1	-1,010.5	1,908.8	1,842.5	66.29	28.794		
15,900.0	11,450.0	10,060.0	9,945.4	86.0	34.6	2.41	5,340.9	-1,011.9	1,850.8	1,785.2	65.54	28.238		
15,966.5	11,450.0	10,060.0	9,945.4	86.8	34.6	1.52	5,340.9	-1,011.9	1,813.8	1,749.0	64.74	28.016		
16,000.0	11,450.0	10,077.5	9,954.6	87.2	34.7	1.79	5,355.7	-1,012.9	1,795.4	1,730.8	64.64	27.774		
16,100.0	11,450.0	10,107.0	9,969.3	88.5	34.8	2.78	5,381.2	-1,014.6	1,743.0	1,679.0	64.00	27.236		
16,200.0	11,450.0	10,125.0	9,977.8	89.7	34.8	3.78	5,397.0	-1,015.6	1,693.7	1,630.5	63.21	26.794		
16,300.0	11,450.0	10,155.0	9,991.1	91.1	35.0	4.62	5,423.9	-1,017.3	1,647.9	1,585.2	62.71	26.277		
16,400.0	11,450.0	10,173.2	9,998.3	92.5	35.0	5.45	5,440.5	-1,018.4	1,606.2	1,544.1	62.10	25.865		
16,500.0	11,450.0	10,202.0	10,008.5	93.9	35.1	6.15	5,467.4	-1,020.1	1,568.7	1,507.0	61.76	25.402		
16,600.0	11,450.0	10,202.0	10,008.5	95.3	35.1	6.84	5,467.4	-1,020.1	1,536.2	1,475.1	61.10	25.142		
16,700.0	11,450.0	10,249.0	10,021.5	96.8	35.3	7.34	5,512.5	-1,023.0	1,508.2	1,447.0	61.26	24.620		
16,800.0	11,450.0	10,268.5	10,025.6	98.2	35.4	7.81	5,531.5	-1,024.2	1,485.4	1,424.2	61.19	24.273		
16,900.0	11,450.0	10,315.6	10,034.4	99.7	35.6	8.25	5,577.7	-1,026.7	1,466.9	1,405.3	61.63	23.802		
17,000.0	11,450.0	10,361.3	10,041.5	101.3	35.8	8.65	5,622.8	-1,029.3	1,452.2	1,390.1	62.20	23.349		
17,100.0	11,450.0	10,391.0	10,044.8	102.8	35.9	8.92	5,652.2	-1,031.6	1,442.3	1,379.5	62.79	22.970		
17,200.0	11,450.0	10,438.0	10,048.0	104.4	36.1	9.18	5,698.9	-1,035.8	1,437.1	1,373.4	63.69	22.563		
17,282.6	11,450.0	10,486.3	10,049.5	105.7	36.4	9.43	5,747.0	-1,040.0	1,436.0	1,371.4	64.62	22.223 CC		
17,300.0	11,450.0	10,497.3	10,049.7	106.0	36.4	9.49	5,758.0	-1,040.9	1,436.0	1,371.2	64.83	22.151		
17,400.0	11,450.0	10,570.9	10,050.1	107.5	36.8	9.90	5,831.3	-1,046.9	1,438.0	1,371.8	66.18	21.728		
17,426.1	11,450.0	10,593.5	10,050.1	108.0	36.9	10.03	5,853.8	-1,048.8	1,438.9	1,372.3	66.57	21.613		
17,500.0	11,450.0	10,658.0	10,049.6	109.1	37.3	10.49	5,918.1	-1,054.4	1,441.5	1,373.8	67.69	21.296		
17,600.0	11,450.0	10,749.3	10,048.4	110.7	37.9	11.02	6,009.0	-1,062.5	1,445.3	1,376.1	69.18	20.893		
17,700.0	11,450.0	10,847.5	10,047.1	112.3	38.6	11.49	6,107.0	-1,069.9	1,448.7	1,378.0	70.69	20.494		
17,800.0	11,450.0	10,936.0	10,045.7	113.9	39.3	11.79	6,195.1	-1,076.7	1,451.7	1,379.7	72.09	20.139		
17,900.0	11,450.0	11,012.8	10,043.6	115.5	39.9	12.02	6,271.8	-1,080.9	1,455.6	1,382.2	73.39	19.833		
18,000.0	11,450.0	11,114.8	10,040.5	117.0	40.7	12.20	6,373.6	-1,085.5	1,459.2	1,384.4	74.80	19.510		
18,100.0	11,450.0	11,209.8	10,038.1	118.6	41.6	12.33	6,468.5	-1,087.4	1,462.3	1,386.2	76.15	19.202		
18,155.7	11,450.0	11,261.8	10,036.9	119.4	42.1	12.41	6,520.6	-1,086.8	1,463.9	1,386.9	76.91	19.033		
18,200.0	11,450.0	11,302.2	10,036.0	120.1	42.4	12.45	6,560.9	-1,085.8	1,465.1	1,387.6	77.52	18.900		
18,300.0	11,450.0	11,390.1	10,033.7	121.7	43.3	12.54	6,648.8	-1,083.6	1,468.5	1,389.6	78.87	18.618		

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 #135H
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 #135H	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: 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		
18,400.0	11,450.0	11,481.7	10,030.2	123.2	44.2	12.62	6,740.3	-1,081.5	1,472.8	1,392.6	80.26	18.351		
18,500.0	11,450.0	11,616.8	10,027.9	124.7	45.6	12.74	6,875.3	-1,078.7	1,474.8	1,392.7	82.10	17.963		
18,600.0	11,450.0	11,750.9	10,026.6	126.3	47.1	12.86	7,009.4	-1,076.4	1,476.5	1,392.5	83.98	17.582		
18,700.0	11,450.0	11,850.9	10,027.4	127.8	48.2	12.94	7,109.4	-1,075.1	1,476.2	1,390.7	85.52	17.261		
18,733.8	11,450.0	11,880.0	10,027.5	128.4	48.5	12.96	7,138.5	-1,074.9	1,476.1	1,390.1	85.99	17.165		
18,800.0	11,450.0	11,938.8	10,027.6	129.4	49.2	13.00	7,197.3	-1,074.4	1,476.3	1,389.4	86.93	16.982		
18,900.0	11,450.0	12,035.6	10,027.3	130.9	50.4	13.05	7,294.1	-1,073.7	1,476.9	1,388.5	88.45	16.698		
19,000.0	11,450.0	12,122.8	10,026.6	132.5	51.4	13.10	7,381.3	-1,072.8	1,478.1	1,388.2	89.88	16.445		
19,100.0	11,450.0	12,210.1	10,025.2	134.0	52.5	13.16	7,468.6	-1,071.8	1,480.1	1,388.8	91.32	16.208		
19,200.0	11,450.0	12,294.1	10,023.0	135.6	53.5	13.20	7,552.5	-1,070.8	1,483.1	1,390.3	92.72	15.994		
19,300.0	11,450.0	12,372.2	10,020.0	137.2	54.5	13.22	7,630.6	-1,070.1	1,487.3	1,393.2	94.05	15.814		
19,400.0	11,450.0	12,531.8	10,013.3	138.7	56.6	13.16	7,790.0	-1,071.4	1,491.9	1,395.8	96.15	15.517		
19,500.0	11,450.0	12,695.8	10,016.0	140.3	58.8	13.03	7,953.9	-1,076.7	1,489.2	1,391.0	98.21	15.164		
19,600.0	11,450.0	12,790.9	10,018.2	141.9	60.1	12.92	8,048.9	-1,080.9	1,486.1	1,386.5	99.60	14.920		
19,700.0	11,450.0	12,891.9	10,020.3	143.4	61.4	12.77	8,149.7	-1,086.1	1,483.1	1,382.1	101.02	14.681		
19,800.0	11,450.0	12,990.2	10,022.3	145.0	62.8	12.62	8,247.8	-1,091.4	1,480.0	1,377.6	102.41	14.453		
19,900.0	11,450.0	13,080.5	10,023.7	146.6	64.1	12.45	8,337.9	-1,096.9	1,477.4	1,373.7	103.70	14.247		
20,000.0	11,450.0	13,170.9	10,024.7	148.2	65.3	12.33	8,428.3	-1,100.7	1,475.6	1,370.5	105.06	14.045		
20,100.0	11,450.0	13,274.8	10,026.0	149.7	66.8	12.23	8,532.1	-1,104.6	1,473.7	1,367.1	106.56	13.830		
20,200.0	11,450.0	13,361.3	10,026.8	151.3	68.0	12.13	8,618.5	-1,107.9	1,472.2	1,364.3	107.91	13.643		
20,255.3	11,450.0	13,402.5	10,026.8	152.2	68.6	12.11	8,659.8	-1,108.9	1,471.9	1,363.3	108.61	13.552		
20,300.0	11,450.0	13,439.0	10,026.7	152.9	69.1	12.11	8,696.2	-1,109.1	1,472.1	1,362.9	109.24	13.476		
20,400.0	11,450.0	13,501.4	10,025.6	154.5	70.0	12.13	8,758.6	-1,108.9	1,474.0	1,363.6	110.44	13.347		
20,500.0	11,450.0	13,578.8	10,022.6	156.1	71.1	12.16	8,835.9	-1,108.0	1,478.1	1,366.3	111.81	13.220		
20,600.0	11,450.0	13,670.1	10,018.3	157.6	72.5	12.18	8,927.1	-1,107.1	1,483.1	1,369.8	113.33	13.086		
20,700.0	11,450.0	20,700.0	10,013.3	159.2	75.1	12.22	9,056.0	-1,106.1	1,487.2	1,318.1	169.08	8.796 ES, SF		
20,800.0	11,450.0	13,930.5	10,012.2	160.8	76.3	12.32	9,187.4	-1,104.2	1,488.2	1,370.8	117.38	12.679		
20,900.0	11,450.0	14,019.0	10,011.3	162.4	77.6	12.39	9,275.9	-1,102.8	1,489.7	1,370.8	118.95	12.524		
21,000.0	11,450.0	14,100.4	10,009.5	164.0	78.8	12.44	9,357.3	-1,101.7	1,492.3	1,371.9	120.42	12.392		
21,100.0	11,450.0	14,188.1	10,006.6	165.6	80.1	12.47	9,444.9	-1,100.9	1,495.8	1,373.9	121.93	12.268		
21,200.0	11,450.0	14,345.8	10,004.4	167.2	82.4	12.54	9,602.6	-1,099.7	1,497.3	1,373.1	124.28	12.048		
21,260.2	11,450.0	14,408.1	10,004.6	168.1	83.4	12.57	9,664.8	-1,099.4	1,497.3	1,372.0	125.33	11.947		
21,300.0	11,450.0	14,443.0	10,004.6	168.8	83.9	12.58	9,699.7	-1,099.3	1,497.4	1,371.4	125.94	11.889		
21,400.0	11,450.0	14,517.8	10,004.0	170.4	85.0	12.59	9,774.6	-1,099.5	1,498.4	1,371.0	127.30	11.770		
21,500.0	11,450.0	14,585.4	10,001.8	172.0	86.1	12.57	9,842.1	-1,100.3	1,501.5	1,372.9	128.51	11.683		
21,600.0	11,450.0	14,656.9	9,997.9	173.6	87.1	12.51	9,913.5	-1,101.4	1,506.6	1,376.9	129.70	11.615		
21,700.0	11,450.0	14,749.0	9,991.6	175.2	88.5	12.41	10,005.4	-1,103.4	1,512.9	1,381.8	131.09	11.541		
21,757.9	11,450.0	14,795.8	9,988.1	176.1	89.3	12.35	10,052.1	-1,104.6	1,516.9	1,385.1	131.80	11.509		

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 #135H
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 #135H	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: 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	-90.72	-2.8	-220.1	220.1					
100.0	100.0	102.1	102.1	0.1	0.2	13.34	-2.8	-219.8	219.7	219.4	0.29	764.184		
200.0	200.0	203.0	203.0	0.5	0.4	13.32	-3.0	-219.1	218.5	217.6	0.85	256.421		
300.0	300.0	303.7	303.7	0.8	0.7	13.27	-3.4	-218.0	216.6	215.0	1.57	137.817		
400.0	400.0	403.0	403.0	1.2	1.1	13.13	-4.2	-216.8	214.3	212.0	2.28	93.827		
500.0	500.0	501.2	501.1	1.6	1.4	13.03	-4.8	-216.3	212.3	209.3	2.99	71.023		
600.0	600.0	603.0	603.0	1.9	1.8	13.04	-5.2	-215.8	210.1	206.4	3.71	56.627		
700.0	699.9	700.8	700.8	2.3	2.1	13.07	-5.6	-215.4	207.6	203.2	4.41	47.037		
800.0	799.9	800.1	800.1	2.6	2.5	13.18	-5.7	-215.7	205.5	200.3	5.11	40.193		
900.0	899.9	900.3	900.3	3.0	2.8	13.34	-5.8	-216.1	203.2	197.3	5.81	34.964		
1,000.0	999.8	1,000.9	1,000.9	3.4	3.2	13.66	-5.4	-216.1	200.2	193.6	6.51	30.729		
1,100.0	1,099.8	1,100.6	1,100.6	3.7	3.5	13.97	-5.2	-216.2	196.8	189.6	7.22	27.280		
1,200.0	1,199.7	1,199.2	1,199.1	4.1	3.8	14.24	-5.2	-216.6	193.6	185.6	7.92	24.451		
1,300.0	1,299.6	1,299.4	1,299.4	4.5	4.2	15.64	-4.9	-217.3	190.4	181.7	8.62	22.076		
1,400.0	1,399.5	1,398.9	1,398.9	4.8	4.5	15.14	-4.4	-218.1	186.8	177.5	9.33	20.027		
1,500.0	1,499.4	1,498.7	1,498.7	5.2	4.9	15.73	-3.7	-218.9	183.0	173.0	10.04	18.234		
1,600.0	1,599.3	1,595.6	1,595.5	5.6	5.2	16.41	-2.9	-220.6	179.9	169.1	10.74	16.755		
1,700.0	1,699.1	1,692.9	1,692.8	5.9	5.6	17.12	-2.0	-223.8	178.1	166.6	11.44	15.570		
1,791.3	1,790.3	1,781.5	1,781.3	6.3	5.9	17.64	-1.7	-228.0	177.4	165.3	12.08	14.688		
1,800.0	1,798.9	1,789.7	1,789.5	6.3	5.9	17.67	-1.7	-228.5	177.4	165.2	12.14	14.617		
1,900.0	1,898.8	1,885.9	1,885.4	6.7	6.2	17.82	-2.6	-235.6	178.9	166.1	12.83	13.949		
2,000.0	1,998.6	1,984.5	1,983.6	7.0	6.6	17.80	-4.1	-243.8	181.0	167.5	13.53	13.377		
2,100.0	2,098.3	2,080.7	2,079.3	7.4	7.0	17.73	-5.6	-253.3	184.3	170.1	14.22	12.965		
2,200.0	2,198.1	2,177.9	2,175.8	7.8	7.3	17.62	-7.3	-264.9	189.5	174.5	14.91	12.706		
2,300.0	2,297.8	2,277.2	2,274.4	8.1	7.7	17.51	-9.2	-277.4	194.8	179.2	15.62	12.468		
2,400.0	2,397.5	2,377.2	2,373.4	8.5	8.1	17.16	-11.9	-290.2	200.1	183.7	16.35	12.240		
2,500.0	2,497.2	2,478.7	2,474.1	8.9	8.4	16.91	-14.5	-302.7	204.6	187.5	17.08	11.977		
2,600.0	2,596.8	2,579.9	2,574.7	9.3	8.8	16.90	-16.4	-314.4	208.0	190.1	17.82	11.670		
2,700.0	2,696.4	2,680.7	2,674.8	9.7	9.2	16.79	-18.8	-325.5	210.6	192.0	18.55	11.350		
2,800.0	2,796.0	2,782.5	2,776.0	10.0	9.6	16.50	-22.1	-336.2	212.3	193.0	19.30	11.003		
2,900.0	2,895.6	2,881.2	2,874.1	10.4	10.0	15.72	-27.2	-346.4	213.4	193.4	20.01	10.665		
3,000.0	2,995.1	2,978.5	2,970.6	10.8	10.4	14.73	-33.1	-357.4	215.3	194.6	20.71	10.393		
3,100.0	3,094.6	3,072.6	3,063.7	11.2	10.7	13.88	-38.6	-369.8	218.7	197.4	21.37	10.234		
3,200.0	3,194.1	3,168.3	3,158.0	11.6	11.1	12.91	-44.8	-384.7	224.3	202.3	22.04	10.176		
3,300.0	3,293.5	3,269.6	3,257.7	12.0	11.6	11.87	-51.7	-401.0	230.3	207.5	22.79	10.103		
3,400.0	3,392.9	3,372.6	3,359.3	12.4	12.0	10.94	-58.4	-416.5	234.9	211.3	23.56	9.968		
3,500.0	3,492.2	3,474.8	3,460.3	12.7	12.4	10.09	-64.9	-430.5	237.8	213.5	24.32	9.779		
3,600.0	3,591.6	3,570.0	3,554.4	13.1	12.8	9.57	-70.0	-444.3	241.2	216.3	24.99	9.652		
3,700.0	3,690.8	3,666.8	3,649.9	13.5	13.2	9.27	-74.5	-460.0	246.0	220.3	25.69	9.575		
3,800.0	3,790.1	3,765.6	3,747.0	13.9	13.6	9.02	-78.9	-476.8	251.2	224.8	26.41	9.512		
3,900.0	3,889.3	3,865.7	3,845.5	14.3	14.1	8.64	-84.1	-494.0	256.3	229.2	27.15	9.443		
4,000.0	3,988.4	3,969.0	3,947.2	14.7	14.5	7.76	-91.7	-510.8	260.4	232.5	27.93	9.325		
4,100.0	4,087.5	4,075.1	4,051.7	15.2	15.0	6.43	-101.4	-525.9	262.6	233.9	28.73	9.140		
4,200.0	4,186.6	4,181.4	4,157.0	15.6	15.4	5.75	-107.9	-538.5	261.6	232.1	29.52	8.862		
4,300.0	4,285.6	4,285.9	4,260.9	16.0	15.8	6.04	-109.7	-549.8	258.6	228.3	30.29	8.536		
4,400.0	4,384.6	4,384.3	4,358.9	16.4	16.2	6.77	-109.3	-559.6	254.2	223.2	31.02	8.195		
4,500.0	4,483.5	4,479.3	4,453.2	16.8	16.6	7.54	-109.0	-570.6	251.2	219.4	31.72	7.918		
4,600.0	4,582.4	4,577.1	4,550.1	17.2	17.0	7.79	-111.2	-583.2	249.4	217.0	32.44	7.688		
4,700.0	4,681.2	4,681.6	4,653.7	17.6	17.4	7.46	-116.3	-596.0	247.0	213.8	33.22	7.434		
4,800.0	4,780.0	4,780.1	4,751.6	18.1	17.8	7.36	-120.0	-607.1	243.1	209.2	33.95	7.161		
4,900.0	4,878.7	4,878.3	4,848.9	18.5	18.2	7.09	-124.5	-618.9	239.8	205.1	34.67	6.917		
5,000.0	4,977.4	4,982.2	4,952.1	18.9	18.6	6.81	-129.3	-631.0	235.7	200.3	35.44	6.651		

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 #135H
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 #135H	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									
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
5,100.0	5,076.0	5,083.9	5,053.1	19.3	19.0	6.54	-133.7	-641.5	230.0	193.8	36.19	6.356			
5,180.6	5,155.5	5,162.8	5,131.5	19.7	19.3	6.32	-137.2	-649.6	225.2	188.4	36.78	6.124			
5,200.0	5,174.6	5,181.6	5,150.2	19.8	19.4	6.26	-138.1	-651.6	224.1	187.2	36.91	6.071			
5,300.0	5,273.2	5,277.8	5,245.6	20.2	19.8	6.02	-142.4	-662.9	219.4	181.8	37.62	5.832			
5,400.0	5,371.7	5,375.4	5,342.3	20.6	20.2	5.85	-146.6	-675.5	215.9	177.6	38.33	5.632			
5,500.0	5,470.2	5,470.5	5,436.3	21.1	20.6	6.18	-149.1	-689.9	214.3	175.3	39.01	5.494			
5,600.0	5,568.8	5,569.4	5,533.8	21.5	21.0	6.85	-150.6	-706.4	214.2	174.4	39.75	5.388			
5,700.0	5,667.3	5,671.5	5,634.5	22.0	21.5	7.51	-152.3	-722.9	213.5	173.0	40.54	5.267			
5,755.0	5,721.5	5,726.8	5,689.1	22.2	21.7	7.83	-153.4	-731.5	212.9	172.0	40.96	5.198			
5,800.0	5,765.9	5,771.4	5,733.1	22.4	21.9	8.05	-154.3	-738.5	212.5	171.2	41.30	5.145			
5,872.1	5,837.0	5,842.4	5,803.2	22.7	22.2	8.30	-156.3	-749.8	212.2	170.4	41.83	5.073			
5,900.0	5,864.5	5,869.6	5,830.1	22.8	22.3	8.36	-157.1	-754.2	212.2	170.2	42.02	5.050			
6,000.0	5,963.1	5,969.0	5,928.0	23.3	22.8	8.53	-160.6	-771.0	213.1	170.4	42.77	4.983			
6,100.0	6,061.9	6,071.1	6,028.6	23.7	23.2	8.57	-164.4	-787.5	213.8	170.2	43.56	4.908			
6,200.0	6,160.6	6,168.9	6,125.2	24.1	23.6	8.55	-168.3	-802.9	214.3	170.0	44.27	4.841			
6,300.0	6,259.4	6,264.4	6,219.1	24.6	24.1	8.67	-171.7	-820.0	217.3	172.4	44.93	4.837			
6,400.0	6,358.3	6,363.5	6,316.3	25.0	24.5	8.72	-175.5	-839.0	222.0	176.3	45.67	4.861			
6,500.0	6,457.2	6,465.2	6,416.0	25.4	25.0	8.69	-179.7	-858.1	226.5	180.1	46.45	4.876			
6,600.0	6,556.2	6,568.0	6,517.1	25.8	25.5	8.64	-183.9	-876.3	230.4	183.1	47.26	4.875			
6,700.0	6,655.2	6,671.2	6,618.8	26.3	25.9	8.58	-187.9	-893.2	233.2	185.1	48.06	4.852			
6,800.0	6,754.2	6,773.6	6,720.0	26.7	26.4	8.55	-191.7	-908.8	235.1	186.2	48.84	4.813			
6,900.0	6,853.3	6,875.8	6,821.1	27.1	26.8	8.50	-195.3	-923.3	236.3	186.7	49.61	4.763			
7,000.0	6,952.4	6,978.2	6,922.5	27.5	27.2	8.48	-198.7	-936.9	237.0	186.6	50.38	4.703			
7,100.0	7,051.6	7,081.7	7,025.2	27.9	27.6	8.57	-201.5	-949.4	236.6	185.5	51.15	4.626			
7,200.0	7,150.8	7,184.8	7,127.7	28.3	28.1	8.57	-204.5	-960.5	235.2	183.3	51.91	4.532			
7,300.0	7,250.1	7,287.3	7,229.7	28.7	28.5	8.51	-207.5	-970.2	232.9	180.3	52.65	4.424			
7,400.0	7,349.4	7,389.3	7,331.3	29.1	28.9	8.46	-210.3	-978.8	230.0	176.6	53.38	4.309			
7,500.0	7,448.8	7,490.9	7,432.5	29.6	29.2	8.27	-213.6	-986.6	226.6	172.5	54.10	4.189			
7,600.0	7,548.1	7,592.2	7,533.5	30.0	29.6	7.96	-217.2	-993.7	222.9	168.1	54.82	4.066			
7,700.0	7,647.6	7,694.2	7,635.2	30.4	30.0	7.42	-221.4	-1,000.0	218.8	163.3	55.52	3.941			
7,800.0	7,747.0	7,795.6	7,736.4	30.7	30.4	6.78	-225.8	-1,005.3	214.0	157.8	56.21	3.808			
7,900.0	7,846.5	7,897.1	7,837.7	31.1	30.7	6.14	-230.0	-1,009.9	209.1	152.1	56.91	3.674			
8,000.0	7,946.0	7,997.4	7,937.9	31.5	31.1	5.50	-233.9	-1,013.9	203.8	146.2	57.60	3.538			
8,100.0	8,045.5	8,103.0	8,043.4	31.9	31.4	5.10	-236.7	-1,017.0	197.6	139.4	58.22	3.395			
8,200.0	8,145.1	8,205.6	8,145.9	32.3	31.8	5.20	-237.4	-1,017.8	189.3	130.4	58.86	3.216			
8,300.0	8,244.7	8,304.5	8,244.8	32.7	32.1	5.29	-237.9	-1,018.0	180.8	121.2	59.59	3.034			
8,400.0	8,344.4	8,404.8	8,345.1	33.1	32.4	5.35	-238.6	-1,018.2	172.7	112.4	60.28	2.864			
8,500.0	8,444.0	8,503.9	8,444.3	33.5	32.7	5.45	-239.1	-1,018.5	164.9	103.9	61.01	2.703			
8,600.0	8,543.7	8,603.4	8,543.7	33.8	33.1	5.47	-239.8	-1,019.0	157.6	95.9	61.72	2.554			
8,700.0	8,643.4	8,703.2	8,643.5	34.2	33.4	5.38	-240.8	-1,019.4	150.7	88.3	62.43	2.415			
8,800.0	8,743.2	8,802.6	8,743.0	34.6	33.7	5.16	-242.2	-1,019.9	144.3	81.2	63.14	2.285			
8,900.0	8,843.0	8,902.2	8,842.5	35.0	34.0	4.87	-243.6	-1,020.7	138.5	74.6	63.85	2.168			
9,000.0	8,942.7	9,001.7	8,941.9	35.3	34.4	4.20	-245.9	-1,021.4	133.0	68.5	64.55	2.061			
9,100.0	9,042.5	9,100.8	9,041.0	35.7	34.7	3.18	-248.9	-1,022.6	128.6	63.3	65.27	1.970			
9,200.0	9,142.4	9,200.3	9,140.5	36.1	35.0	2.55	-250.9	-1,024.4	124.8	58.8	65.98	1.892			
9,300.0	9,242.2	9,302.0	9,242.2	36.4	35.4	1.82	-253.1	-1,026.0	121.3	54.7	66.60	1.821			
9,400.0	9,342.1	9,403.6	9,343.7	36.8	35.7	1.58	-253.7	-1,025.6	115.8	48.6	67.21	1.723			
9,500.0	9,442.0	9,503.0	9,443.2	37.1	36.0	1.29	-254.2	-1,025.1	110.5	42.6	67.92	1.627			
9,600.0	9,541.9	9,603.2	9,543.3	37.5	36.3	0.96	-254.9	-1,024.8	105.8	37.2	68.59	1.543			
9,700.0	9,641.8	9,702.5	9,642.6	37.9	36.6	1.85	-253.4	-1,024.8	101.3	31.9	69.33	1.461 Level 3			
9,800.0	9,741.7	9,801.6	9,741.7	38.2	36.9	2.86	-251.9	-1,025.7	98.0	27.9	70.08	1.398 Level 3			
9,900.0	9,841.6	9,902.1	9,842.2	38.6	37.3	3.35	-251.5	-1,026.7	95.2	24.5	70.77	1.346 Level 3			

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 #135H
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 #135H	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: 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		
10,000.0	9,941.6	10,001.7	9,941.8	38.9	37.6	3.24	-251.9	-1,027.1	92.5	21.0	71.49	1.294	Level 3	
10,100.0	10,041.5	10,101.7	10,041.8	39.3	37.9	2.85	-252.9	-1,027.8	90.4	18.3	72.19	1.253	Level 3	
10,200.0	10,141.5	10,201.5	10,141.6	39.6	38.3	2.36	-253.9	-1,028.4	88.7	15.8	72.89	1.217	Level 2	
10,300.0	10,241.5	10,301.8	10,241.9	39.9	38.6	2.54	-253.9	-1,029.4	87.4	13.8	73.58	1.188	Level 2	
10,400.0	10,341.5	10,403.6	10,343.4	40.3	38.9	7.13	-247.2	-1,030.5	85.5	11.2	74.30	1.150	Level 2	
10,500.0	10,441.4	10,503.2	10,441.4	40.6	39.2	19.18	-229.9	-1,030.2	83.3	7.7	75.68	1.101	Level 2	
10,502.2	10,443.6	10,505.3	10,443.5	40.6	39.2	19.52	-229.4	-1,030.2	83.3	7.6	75.72	1.100	Level 2, CC, ES, SF	
10,600.0	10,541.4	10,596.8	10,531.5	41.0	39.5	36.24	-204.5	-1,029.4	88.2	10.6	77.57	1.137	Level 2	
10,700.0	10,641.4	10,681.2	10,609.6	41.3	39.7	52.95	-172.7	-1,029.7	108.6	31.3	77.22	1.406	Level 3	
10,800.0	10,741.4	10,756.0	10,675.0	41.6	39.8	65.02	-136.5	-1,031.9	146.8	72.8	74.01	1.984		
10,900.0	10,841.4	10,822.4	10,729.3	42.0	39.9	72.96	-98.4	-1,034.3	198.5	128.5	69.99	2.836		
10,935.6	10,877.0	10,842.7	10,745.0	42.1	40.0	-29.11	-85.6	-1,035.1	219.4	151.0	68.34	3.210		
10,950.0	10,891.4	10,850.3	10,750.8	42.1	40.0	-6.72	-80.7	-1,035.4	228.1	160.5	67.60	3.374		
11,000.0	10,941.3	10,876.1	10,769.8	42.3	40.0	-4.36	-63.2	-1,036.5	257.7	192.7	64.96	3.967		
11,050.0	10,990.7	10,901.0	10,787.1	42.4	40.1	-2.53	-45.4	-1,037.7	286.3	224.1	62.18	4.604		
11,100.0	11,039.2	10,918.8	10,798.6	42.6	40.1	-1.38	-31.9	-1,038.5	314.2	255.9	58.33	5.387		
11,150.0	11,086.5	10,933.5	10,807.2	42.8	40.1	-0.52	-19.9	-1,039.3	341.9	287.8	54.15	6.314		
11,200.0	11,132.1	10,942.0	10,811.7	42.9	40.1	-0.06	-12.8	-1,039.7	369.6	320.3	49.31	7.496		
11,250.0	11,175.9	10,961.7	10,820.8	43.1	40.1	0.92	4.7	-1,040.4	396.6	350.5	46.20	8.586		
11,300.0	11,217.3	10,975.8	10,826.4	43.2	40.1	1.58	17.6	-1,040.6	423.1	380.5	42.61	9.931		
11,350.0	11,256.2	11,004.0	10,834.8	43.3	40.1	2.93	44.5	-1,040.3	449.6	408.9	40.71	11.043		
11,400.0	11,292.2	11,004.0	10,834.8	43.5	40.1	2.79	44.5	-1,040.3	473.8	437.3	36.44	13.002		
11,450.0	11,325.0	11,034.9	10,841.9	43.6	40.6	4.13	74.6	-1,039.3	497.1	461.9	35.15	14.141		
11,500.0	11,354.5	11,071.6	10,849.9	43.7	41.2	5.60	110.3	-1,037.8	517.5	483.2	34.26	15.106		
11,550.0	11,380.3	11,096.0	10,855.0	43.9	41.6	6.46	134.2	-1,036.6	535.1	502.4	32.77	16.330		
11,600.0	11,402.2	11,124.8	10,860.1	44.0	41.6	7.47	162.5	-1,035.1	550.6	518.9	31.77	17.334		
11,650.0	11,420.2	11,146.3	10,862.9	44.1	41.7	8.14	183.8	-1,034.1	564.5	533.8	30.73	18.370		
11,700.0	11,434.0	11,167.7	10,864.8	44.3	41.7	8.80	205.1	-1,033.1	576.6	546.4	30.20	19.095		
11,750.0	11,443.6	11,190.1	10,865.9	44.5	41.7	9.50	227.4	-1,032.1	587.0	556.8	30.21	19.429		
11,800.0	11,448.9	11,231.5	10,866.9	44.6	41.7	10.94	268.8	-1,030.2	594.8	564.0	30.82	19.299		
11,835.6	11,450.0	11,261.0	10,867.4	44.8	41.7	12.01	298.2	-1,028.9	598.3	566.9	31.37	19.070		
11,900.0	11,450.0	11,320.4	10,868.4	45.1	41.8	14.35	357.6	-1,026.0	603.6	571.0	32.66	18.482		
12,000.0	11,450.0	11,407.0	10,870.2	45.5	41.9	17.63	444.0	-1,020.9	613.0	578.1	34.98	17.524		
12,100.0	11,450.0	11,486.9	10,870.0	46.1	42.0	20.37	523.7	-1,015.9	625.5	588.0	37.43	16.708		
12,200.0	11,450.0	11,575.9	10,868.2	46.6	42.2	22.95	612.5	-1,011.1	639.6	599.8	39.85	16.051		
12,300.0	11,450.0	11,678.9	10,864.8	47.3	42.5	25.31	715.5	-1,007.4	653.8	611.7	42.08	15.535		
12,400.0	11,450.0	11,775.7	10,862.0	47.9	42.8	26.92	812.2	-1,007.3	665.2	621.3	43.97	15.131		
12,500.0	11,450.0	11,852.4	10,857.2	48.6	43.1	27.88	888.7	-1,007.6	678.1	632.7	45.46	14.916		
12,600.0	11,450.0	11,933.2	10,849.5	49.3	43.5	28.58	969.1	-1,007.7	692.4	645.6	46.76	14.808		
12,700.0	11,450.0	12,021.4	10,839.5	50.0	43.9	29.08	1,056.8	-1,007.0	707.2	659.3	47.87	14.772		
12,800.0	11,450.0	12,144.6	10,825.5	50.8	44.7	29.27	1,179.2	-1,006.5	720.2	671.4	48.81	14.755		
12,892.5	11,450.0	12,267.8	10,818.5	51.5	45.5	29.28	1,302.2	-1,006.8	725.7	675.6	50.03	14.506		
12,900.0	11,450.0	12,276.5	10,818.1	51.5	45.6	29.28	1,310.9	-1,006.8	725.9	675.8	50.12	14.484		
13,000.0	11,450.0	12,460.8	10,823.9	52.3	47.0	29.32	1,494.9	-1,010.7	721.6	668.2	53.39	13.517		
13,100.0	11,450.0	12,539.9	10,829.0	53.2	47.7	29.37	1,573.9	-1,013.6	714.7	660.6	54.07	13.219		
13,200.0	11,450.0	12,628.9	10,831.9	54.0	48.5	29.32	1,662.7	-1,016.6	710.6	655.5	55.02	12.915		
13,300.0	11,450.0	12,727.8	10,834.6	54.9	49.5	29.27	1,761.5	-1,019.6	707.0	650.7	56.30	12.559		
13,400.0	11,450.0	12,831.5	10,837.9	55.9	50.5	29.25	1,865.2	-1,022.5	703.3	645.5	57.79	12.169		
13,500.0	11,450.0	12,918.3	10,840.3	56.8	51.3	29.23	1,951.9	-1,024.8	699.9	641.1	58.83	11.897		
13,588.8	11,450.0	12,991.7	10,840.6	57.7	52.1	29.15	2,025.2	-1,026.6	698.9	639.3	59.64	11.720		
13,600.0	11,450.0	13,000.9	10,840.5	57.8	52.2	29.14	2,034.5	-1,026.8	698.9	639.2	59.74	11.700		
13,700.0	11,450.0	13,091.9	10,838.7	58.8	53.2	29.00	2,125.5	-1,028.4	700.2	639.3	60.87	11.503		

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 #135H
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 #135H	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: 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		
13,800.0	11,450.0	13,183.6	10,836.3	59.9	54.2	28.85	2,217.1	-1,029.9	702.1	640.1	62.03	11.319		
13,888.8	11,450.0	13,277.4	10,833.2	60.9	55.2	28.76	2,310.8	-1,030.1	704.9	641.4	63.44	11.110		
13,900.0	11,450.0	13,292.4	10,833.0	61.0	55.4	28.76	2,325.8	-1,030.2	705.1	641.4	63.72	11.066		
14,000.0	11,450.0	13,415.8	10,833.6	62.1	56.8	28.82	2,449.2	-1,030.7	704.7	638.7	66.04	10.671		
14,100.0	11,450.0	13,522.4	10,836.7	63.2	58.1	28.97	2,555.8	-1,031.1	702.4	634.4	68.04	10.323		
14,200.0	11,450.0	13,619.6	10,839.8	64.4	59.3	29.12	2,652.9	-1,031.4	699.8	630.0	69.79	10.027		
14,300.0	11,450.0	13,703.0	10,841.7	65.6	60.3	29.26	2,736.3	-1,031.1	698.5	627.3	71.14	9.819		
14,307.8	11,450.0	13,710.7	10,841.8	65.7	60.4	29.27	2,744.0	-1,031.1	698.5	627.2	71.28	9.799		
14,400.0	11,450.0	13,775.3	10,841.1	66.8	61.2	29.36	2,808.6	-1,030.0	700.3	628.2	72.15	9.707		
14,500.0	11,450.0	13,898.6	10,838.3	68.0	62.7	29.47	2,931.8	-1,027.7	703.8	629.2	74.69	9.424		
14,600.0	11,450.0	13,997.4	10,838.3	69.2	64.0	29.62	3,030.6	-1,026.4	704.9	628.3	76.59	9.204		
14,700.0	11,450.0	14,117.8	10,840.5	70.5	65.5	29.83	3,151.0	-1,025.7	703.9	624.6	79.25	8.881		
14,800.0	11,450.0	14,213.2	10,843.4	71.7	66.8	30.02	3,246.3	-1,025.4	701.8	620.6	81.15	8.648		
14,900.0	11,450.0	14,311.7	10,844.8	73.0	68.1	30.17	3,344.8	-1,024.8	701.3	618.2	83.12	8.437		
15,000.0	11,450.0	14,448.6	10,850.9	74.3	69.9	30.43	3,481.6	-1,025.8	697.4	610.9	86.51	8.062		
15,100.0	11,450.0	14,533.7	10,856.4	75.7	71.1	30.61	3,566.5	-1,027.0	691.6	603.5	88.14	7.847		
15,200.0	11,450.0	14,619.9	10,859.1	77.0	72.3	30.68	3,652.6	-1,028.4	688.4	598.8	89.65	7.679		
15,236.3	11,450.0	14,652.4	10,859.7	77.5	72.7	30.68	3,685.1	-1,029.0	687.7	597.5	90.21	7.623		
15,300.0	11,450.0	14,705.9	10,860.2	78.3	73.5	30.62	3,738.6	-1,029.7	686.7	595.7	91.00	7.546		
15,400.0	11,450.0	14,789.2	10,859.3	79.6	74.6	30.33	3,821.9	-1,030.3	685.5	593.6	91.88	7.461		
15,500.0	11,450.0	14,876.6	10,856.5	80.9	75.9	29.79	3,909.2	-1,030.1	685.0	592.6	92.50	7.406		
15,600.0	11,450.0	14,974.6	10,852.7	82.2	77.2	28.93	4,007.2	-1,029.5	683.8	590.7	93.10	7.345		
15,700.0	11,450.0	15,069.1	10,849.1	83.5	78.6	27.86	4,101.6	-1,028.5	681.2	587.9	93.25	7.305		
15,800.0	11,450.0	15,156.9	10,844.3	84.8	79.8	26.58	4,189.3	-1,027.5	678.7	585.9	92.75	7.317		
15,900.0	11,450.0	15,250.0	10,838.2	86.0	81.2	24.96	4,282.2	-1,026.2	676.3	584.2	92.03	7.348		
15,966.5	11,450.0	15,313.9	10,833.8	86.8	82.1	23.70	4,345.9	-1,025.1	674.4	583.0	91.44	7.375		
16,000.0	11,450.0	15,358.9	10,831.1	87.2	82.7	22.84	4,390.8	-1,024.5	673.3	581.8	91.48	7.360		
16,100.0	11,450.0	15,469.7	10,827.1	88.5	84.3	20.93	4,501.5	-1,023.9	668.6	577.4	91.18	7.332		
16,200.0	11,450.0	15,581.3	10,823.8	89.7	86.0	19.27	4,613.1	-1,024.0	665.0	573.8	91.21	7.291		
16,300.0	11,450.0	15,681.0	10,822.2	91.1	87.4	17.94	4,712.7	-1,025.8	661.2	570.0	91.18	7.252		
16,400.0	11,450.0	15,770.5	10,820.1	92.5	88.8	16.97	4,802.2	-1,027.1	659.6	568.3	91.33	7.223		
16,404.6	11,450.0	15,774.6	10,820.0	92.5	88.8	16.93	4,806.3	-1,027.2	659.6	568.3	91.35	7.221		
16,500.0	11,450.0	15,881.1	10,817.2	93.9	90.4	16.09	4,912.8	-1,028.3	659.7	567.4	92.28	7.148		
16,521.7	11,450.0	15,906.6	10,816.9	94.2	90.8	15.93	4,938.3	-1,028.6	659.5	566.9	92.56	7.125		
16,600.0	11,450.0	15,969.1	10,815.3	95.3	91.7	15.63	5,000.7	-1,029.2	660.3	567.1	93.14	7.089		
16,700.0	11,450.0	16,084.1	10,812.7	96.8	93.4	15.38	5,115.7	-1,030.2	662.1	567.2	94.84	6.981		
16,800.0	11,450.0	16,194.0	10,813.1	98.2	95.1	15.55	5,225.6	-1,031.0	662.2	565.3	96.87	6.835		
16,900.0	11,450.0	16,284.2	10,813.2	99.7	96.4	16.00	5,315.8	-1,030.8	663.8	564.8	98.97	6.707		
17,000.0	11,450.0	16,387.6	10,813.2	101.3	98.0	16.79	5,419.2	-1,030.5	666.6	564.8	101.75	6.551		
17,100.0	11,450.0	16,479.1	10,813.2	102.8	99.4	17.76	5,510.7	-1,029.6	670.8	566.0	104.80	6.401		
17,200.0	11,450.0	16,562.9	10,811.8	104.4	100.6	18.80	5,594.5	-1,028.2	678.2	570.1	108.14	6.272		
17,300.0	11,450.0	16,644.7	10,808.5	106.0	101.9	19.92	5,676.2	-1,026.6	689.4	577.6	111.85	6.164		
17,400.0	11,450.0	16,762.9	10,804.1	107.5	103.7	21.79	5,794.3	-1,025.3	701.9	584.8	117.08	5.995		
17,426.1	11,450.0	16,789.9	10,803.3	108.0	104.1	22.22	5,821.2	-1,025.5	705.1	586.7	118.38	5.956		
17,500.0	11,450.0	16,894.9	10,801.2	109.1	105.7	23.99	5,926.1	-1,028.6	713.2	590.7	122.54	5.820		
17,600.0	11,450.0	17,008.8	10,804.6	110.7	107.5	25.66	6,040.0	-1,033.6	717.7	590.4	127.33	5.637		
17,700.0	11,450.0	17,102.5	10,807.6	112.3	108.9	26.83	6,133.5	-1,036.8	721.5	590.1	131.38	5.492		
17,800.0	11,450.0	17,202.0	10,810.8	113.9	110.5	27.86	6,232.9	-1,039.3	724.4	589.1	135.31	5.354		
17,900.0	11,450.0	17,298.1	10,814.0	115.5	111.9	28.65	6,328.9	-1,041.2	725.9	587.1	138.80	5.230		
18,000.0	11,450.0	17,396.0	10,817.2	117.0	113.5	29.21	6,426.8	-1,042.5	726.3	584.3	141.93	5.117		
18,100.0	11,450.0	17,481.9	10,819.0	118.6	114.8	29.46	6,512.6	-1,043.7	726.0	581.8	144.14	5.037		
18,155.7	11,450.0	17,537.7	10,819.3	119.4	115.7	29.48	6,568.5	-1,044.5	725.8	580.4	145.31	4.994		

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 #135H
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 #135H	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: 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		
18,200.0	11,450.0	17,586.9	10,819.9	120.1	116.4	29.48	6,617.6	-1,045.2	725.1	578.8	146.38	4.954		
18,285.4	11,450.0	17,659.6	10,820.7	121.4	117.6	29.50	6,690.4	-1,045.9	724.3	576.5	147.75	4.902		
18,300.0	11,450.0	17,671.6	10,820.7	121.7	117.8	29.50	6,702.4	-1,046.0	724.3	576.3	147.96	4.895		
18,400.0	11,450.0	17,756.3	10,819.6	123.2	119.1	29.50	6,787.0	-1,046.1	725.7	576.3	149.44	4.856		
18,500.0	11,450.0	17,857.1	10,816.9	124.7	120.6	29.45	6,887.8	-1,046.0	728.5	577.1	151.41	4.811		
18,600.0	11,450.0	17,950.0	10,814.0	126.3	122.1	29.33	6,980.6	-1,046.9	731.1	578.2	152.91	4.782		
18,700.0	11,450.0	18,072.8	10,810.4	127.8	124.0	29.15	7,103.4	-1,048.4	733.6	578.2	155.38	4.721		
18,800.0	11,450.0	18,200.6	10,812.2	129.4	126.0	29.02	7,231.1	-1,052.3	731.0	573.1	157.99	4.627		
18,900.0	11,450.0	18,300.6	10,814.6	130.9	127.6	28.92	7,331.0	-1,055.8	727.7	567.9	159.80	4.554		
19,000.0	11,450.0	18,422.4	10,819.1	132.5	129.6	28.84	7,452.6	-1,060.4	723.0	560.8	162.22	4.457		
19,100.0	11,450.0	18,531.5	10,826.3	134.0	131.3	28.84	7,561.4	-1,065.2	715.4	550.9	164.47	4.350		
19,200.0	11,450.0	18,601.9	10,830.0	135.6	132.4	28.82	7,631.6	-1,068.1	709.3	543.6	165.72	4.280		
19,298.4	11,450.0	18,673.5	10,830.4	137.1	133.5	28.72	7,703.2	-1,070.3	707.7	541.1	166.63	4.247		
19,300.0	11,450.0	18,674.8	10,830.4	137.2	133.6	28.72	7,704.5	-1,070.3	707.7	541.1	166.65	4.247		
19,400.0	11,450.0	18,757.6	10,828.4	138.7	134.9	28.55	7,787.2	-1,072.2	709.0	541.3	167.67	4.229		
19,500.0	11,450.0	18,842.2	10,824.7	140.3	136.2	28.37	7,871.7	-1,073.4	712.5	543.9	168.63	4.225		
19,600.0	11,450.0	18,924.0	10,819.2	141.9	137.5	28.16	7,953.3	-1,074.0	718.5	549.2	169.36	4.243		
19,700.0	11,450.0	19,079.2	10,811.5	143.4	140.0	27.63	8,108.3	-1,078.6	721.9	549.7	172.23	4.192		
19,800.0	11,450.0	19,191.2	10,811.2	145.0	141.8	27.26	8,220.0	-1,084.6	719.9	546.3	173.67	4.145		
19,900.0	11,450.0	19,281.8	10,810.5	146.6	143.2	26.91	8,310.5	-1,089.9	718.3	543.8	174.50	4.117		
19,950.6	11,450.0	19,326.6	10,809.5	147.4	143.9	26.71	8,355.2	-1,092.5	718.1	543.3	174.84	4.108		
20,000.0	11,450.0	19,370.2	10,808.2	148.2	144.6	26.51	8,398.7	-1,095.0	718.3	543.2	175.10	4.102		
20,100.0	11,450.0	19,507.1	10,806.4	149.7	146.8	25.98	8,535.4	-1,102.6	717.7	540.9	176.82	4.059		
20,200.0	11,450.0	19,599.4	10,807.8	151.3	148.3	25.71	8,627.6	-1,107.7	714.2	536.3	177.91	4.014		
20,300.0	11,450.0	19,684.2	10,807.9	152.9	149.7	25.42	8,712.2	-1,112.4	712.1	533.4	178.69	3.985		
20,361.7	11,450.0	19,738.3	10,807.1	153.9	150.6	25.21	8,766.2	-1,115.3	711.7	532.6	179.11	3.974		
20,400.0	11,450.0	19,771.8	10,806.2	154.5	151.1	25.06	8,799.6	-1,117.2	711.9	532.5	179.33	3.970		
20,500.0	11,450.0	19,905.6	10,806.4	156.1	153.3	24.48	8,933.1	-1,126.3	708.8	528.1	180.72	3.922		
20,600.0	11,450.0	19,984.8	10,807.4	157.6	154.5	24.31	9,012.2	-1,129.6	706.3	524.6	181.67	3.888		
20,639.3	11,450.0	20,016.2	10,807.5	158.3	155.1	24.30	9,043.7	-1,130.1	706.1	523.9	182.15	3.876		
20,700.0	11,450.0	20,065.5	10,807.2	159.2	155.8	24.32	9,093.0	-1,130.0	706.6	523.6	183.01	3.861		
20,800.0	11,450.0	20,166.4	10,806.2	160.8	157.4	24.40	9,193.8	-1,129.2	708.1	522.9	185.19	3.824		
20,900.0	11,450.0	20,275.2	10,805.2	162.4	159.2	24.44	9,302.6	-1,129.0	709.4	521.9	187.53	3.783		
21,000.0	11,450.0	20,429.2	10,808.4	164.0	161.7	24.13	9,456.4	-1,135.9	706.0	516.1	189.94	3.717		
21,100.0	11,450.0	20,513.4	10,812.9	165.6	163.0	23.99	9,540.3	-1,140.4	699.3	508.1	191.19	3.658		
21,200.0	11,450.0	20,588.5	10,815.0	167.2	164.2	23.93	9,615.4	-1,142.8	695.9	503.6	192.32	3.618		
21,242.6	11,450.0	20,620.1	10,815.2	167.9	164.8	23.91	9,646.9	-1,143.2	695.6	502.8	192.78	3.608		
21,300.0	11,450.0	20,671.1	10,814.8	168.8	165.6	23.91	9,698.0	-1,143.6	695.9	502.3	193.65	3.594		
21,400.0	11,450.0	20,767.0	10,813.5	170.4	167.1	23.85	9,793.9	-1,144.4	697.1	501.9	195.29	3.570		
21,500.0	11,450.0	20,858.6	10,811.6	172.0	168.6	23.79	9,885.4	-1,145.2	699.0	502.3	196.74	3.553		
21,600.0	11,450.0	20,952.2	10,808.8	173.6	170.1	23.85	9,979.0	-1,143.8	702.6	504.1	198.59	3.538		
21,700.0	11,450.0	21,053.9	10,806.9	175.2	171.7	24.02	10,080.6	-1,141.5	705.6	504.5	201.07	3.509		
21,757.9	11,450.0	21,103.3	10,805.7	176.1	172.5	24.14	10,130.0	-1,139.7	707.9	505.7	202.19	3.501		

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 #135H
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 #135H	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	0.0	0.0	0.0	0.0	179.70	-30.0	0.2	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-76.54	-30.0	0.2	29.9	29.7	0.26	116.778		
200.0	200.0	200.0	200.0	0.5	0.5	-77.46	-30.0	0.2	29.8	28.9	0.97	30.643		
300.0	300.0	300.0	300.0	0.8	0.8	-79.02	-30.0	0.2	29.7	28.0	1.69	17.544		
400.0	400.0	400.0	400.0	1.2	1.2	-81.22	-30.0	0.2	29.5	27.1	2.41	12.235		
500.0	500.0	500.0	500.0	1.6	1.6	-84.09	-30.0	0.2	29.3	26.1	3.13	9.365		
600.0	600.0	600.0	600.0	1.9	1.9	-87.63	-30.0	0.2	29.1	25.3	3.84	7.581		
658.1	658.0	658.0	658.0	2.1	2.1	-90.00	-30.0	0.2	29.1	24.9	4.26	6.833 CC		
700.0	699.9	700.1	699.9	2.3	2.3	-91.84	-30.0	0.2	29.1	24.6	4.56	6.385		
800.0	799.9	800.1	799.9	2.6	2.6	-96.67	-30.0	0.2	29.3	24.0	5.28	5.550		
900.0	899.9	900.1	899.9	3.0	3.0	-102.03	-30.0	0.2	29.8	23.8	6.00	4.960 ES		
1,000.0	999.8	1,000.2	999.8	3.4	3.4	-107.77	-30.0	0.2	30.6	23.9	6.72	4.549		
1,100.0	1,099.8	1,100.2	1,099.8	3.7	3.7	-113.71	-30.0	0.2	31.8	24.4	7.44	4.273		
1,200.0	1,199.7	1,199.7	1,199.7	4.1	4.1	-119.64	-30.0	0.2	33.5	25.3	8.16	4.106 SF		
1,300.0	1,299.6	1,299.0	1,299.0	4.5	4.4	-125.54	-30.4	0.9	36.6	27.7	8.86	4.127		
1,400.0	1,399.5	1,398.1	1,398.1	4.8	4.7	-130.95	-31.8	3.1	41.9	32.4	9.55	4.388		
1,500.0	1,499.4	1,497.0	1,496.8	5.2	5.1	-135.32	-34.1	6.7	49.5	39.3	10.24	4.835		
1,600.0	1,599.3	1,595.5	1,595.2	5.6	5.4	-138.57	-37.3	11.7	59.3	48.3	10.93	5.424		
1,700.0	1,699.1	1,693.7	1,693.0	5.9	5.8	-140.89	-41.3	18.1	71.1	59.5	11.61	6.125		
1,800.0	1,798.9	1,791.3	1,790.3	6.3	6.1	-142.49	-46.2	25.9	85.0	72.7	12.29	6.913		
1,900.0	1,898.8	1,888.5	1,886.9	6.7	6.5	-143.58	-52.0	35.1	100.8	87.8	12.97	7.773		
2,000.0	1,998.6	1,985.1	1,982.7	7.0	6.8	-144.30	-58.6	45.6	118.5	104.9	13.64	8.692		
2,100.0	2,098.3	2,083.0	2,079.6	7.4	7.2	-144.84	-65.9	57.1	137.6	123.3	14.34	9.600		
2,200.0	2,198.1	2,181.1	2,176.7	7.8	7.6	-145.30	-73.2	68.6	157.0	142.0	15.04	10.438		
2,300.0	2,297.8	2,279.1	2,273.8	8.1	7.9	-145.72	-80.4	80.2	176.6	160.9	15.75	11.216		
2,400.0	2,397.5	2,377.1	2,370.8	8.5	8.3	-146.11	-87.7	91.7	196.6	180.1	16.46	11.943		
2,500.0	2,497.2	2,475.0	2,467.8	8.9	8.7	-146.47	-95.0	103.2	216.8	199.6	17.17	12.625		
2,600.0	2,596.8	2,572.9	2,564.7	9.3	9.1	-146.81	-102.3	114.8	237.2	219.4	17.88	13.267		
2,700.0	2,696.4	2,670.7	2,661.6	9.7	9.5	-147.13	-109.5	126.3	258.0	239.4	18.60	13.873		
2,800.0	2,796.0	2,768.4	2,758.4	10.0	9.9	-147.44	-116.8	137.8	279.0	259.7	19.31	14.448		
2,900.0	2,895.6	2,866.1	2,855.1	10.4	10.3	-147.74	-124.0	149.3	300.4	280.3	20.03	14.995		
3,000.0	2,995.1	2,963.8	2,951.8	10.8	10.7	-148.02	-131.3	160.8	321.9	301.2	20.75	15.517		
3,100.0	3,094.6	3,061.3	3,048.4	11.2	11.0	-148.30	-138.5	172.3	343.8	322.4	21.47	16.016		
3,200.0	3,194.1	3,158.8	3,144.9	11.6	11.4	-148.57	-145.8	183.7	366.0	343.8	22.19	16.494		
3,300.0	3,293.5	3,256.3	3,241.4	12.0	11.8	-148.83	-153.0	195.2	388.4	365.5	22.91	16.954		
3,400.0	3,392.9	3,353.6	3,337.8	12.4	12.2	-149.08	-160.2	206.7	411.2	387.5	23.63	17.398		
3,500.0	3,492.2	3,450.9	3,434.2	12.7	12.6	-149.33	-167.4	218.1	434.2	409.8	24.36	17.826		
3,600.0	3,591.6	3,548.1	3,530.5	13.1	13.0	-149.57	-174.7	229.6	457.5	432.4	25.08	18.240		
3,700.0	3,690.8	3,645.3	3,626.7	13.5	13.4	-149.81	-181.9	241.0	481.0	455.2	25.80	18.641		
3,800.0	3,790.1	3,742.4	3,722.8	13.9	13.8	-150.04	-189.1	252.4	504.9	478.4	26.53	19.031		
3,900.0	3,889.3	3,839.4	3,818.9	14.3	14.2	-150.27	-196.3	263.8	529.0	501.8	27.26	19.410		
4,000.0	3,988.4	3,945.6	3,924.1	14.7	14.7	-150.53	-203.9	275.9	553.0	524.9	28.07	19.702		
4,100.0	4,087.5	4,059.1	4,037.0	15.2	15.1	-150.90	-210.4	286.1	574.7	545.8	28.93	19.868		
4,200.0	4,186.6	4,173.9	4,151.4	15.6	15.6	-151.37	-215.1	293.6	594.0	564.2	29.77	19.955		
4,300.0	4,285.6	4,289.6	4,267.1	16.0	16.0	-151.93	-218.0	298.3	610.8	580.2	30.59	19.969		
4,400.0	4,384.6	4,406.3	4,383.7	16.4	16.4	-152.58	-219.1	299.9	625.0	593.6	31.38	19.918		
4,500.0	4,483.5	4,506.1	4,483.5	16.8	16.7	-153.18	-219.1	299.9	638.0	605.9	32.09	19.883		
4,600.0	4,582.4	4,605.0	4,582.4	17.2	17.0	-153.76	-219.1	299.9	651.4	618.6	32.80	19.861		
4,700.0	4,681.2	4,703.9	4,681.2	17.6	17.3	-154.33	-219.1	299.9	665.2	631.7	33.51	19.851		
4,800.0	4,780.0	4,802.6	4,780.0	18.1	17.7	-154.88	-219.1	299.9	679.3	645.1	34.22	19.851		
4,900.0	4,878.7	4,901.4	4,878.7	18.5	18.0	-155.43	-219.1	299.9	693.8	658.8	34.93	19.861		
5,000.0	4,977.4	5,000.0	4,977.4	18.9	18.3	-155.96	-219.1	299.9	708.6	672.9	35.64	19.881		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,101.3	5,076.0	19.3	18.6	-156.48	-219.1	299.9	723.8	687.4	36.36	19.905		
5,180.6	5,155.5	5,178.1	5,155.5	19.7	18.9	-156.89	-219.1	299.9	736.3	699.4	36.93	19.939		
5,200.0	5,174.6	5,202.8	5,174.6	19.8	19.0	-156.99	-219.1	299.9	739.3	702.2	37.08	19.936		
5,300.0	5,273.2	5,304.2	5,273.2	20.2	19.3	-157.50	-219.1	299.9	755.0	717.2	37.81	19.970		
5,400.0	5,371.7	5,405.7	5,371.7	20.6	19.6	-157.98	-219.1	299.9	770.8	732.2	38.53	20.005		
5,500.0	5,470.2	5,507.1	5,470.2	21.1	20.0	-158.44	-219.1	299.9	786.6	747.3	39.25	20.039		
5,600.0	5,568.8	5,608.6	5,568.8	21.5	20.3	-158.89	-219.1	299.9	802.4	762.4	39.98	20.073		
5,700.0	5,667.3	5,690.0	5,667.3	22.0	20.6	-159.31	-219.1	299.9	818.3	777.7	40.63	20.141		
5,755.0	5,721.5	5,744.1	5,721.5	22.2	20.8	-159.54	-219.1	299.9	827.1	786.1	41.02	20.162		
5,800.0	5,765.9	5,788.5	5,765.9	22.4	20.9	-159.73	-219.1	299.9	834.2	792.9	41.34	20.178		
5,900.0	5,864.5	5,887.1	5,864.5	22.8	21.3	-160.13	-219.1	299.9	849.9	807.9	42.06	20.209		
6,000.0	5,963.1	5,985.8	5,963.1	23.3	21.6	-160.51	-219.1	299.9	865.3	822.6	42.77	20.232		
6,100.0	6,061.9	6,084.5	6,061.9	23.7	21.9	-160.86	-219.1	299.9	880.5	837.0	43.48	20.249		
6,200.0	6,160.6	6,183.2	6,160.6	24.1	22.3	-161.20	-219.1	299.9	895.3	851.2	44.20	20.258		
6,300.0	6,259.4	6,282.0	6,259.4	24.6	22.6	-161.52	-219.1	299.9	909.9	865.0	44.91	20.261		
6,400.0	6,358.3	6,380.9	6,358.3	25.0	22.9	-161.83	-219.1	299.9	924.2	878.6	45.62	20.258		
6,500.0	6,457.2	6,479.8	6,457.2	25.4	23.3	-162.11	-219.1	299.9	938.3	891.9	46.34	20.248		
6,600.0	6,556.2	6,578.8	6,556.2	25.8	23.6	-162.39	-219.1	299.9	952.0	904.9	47.05	20.233		
6,700.0	6,655.2	6,677.8	6,655.2	26.3	23.9	-162.65	-219.1	299.9	965.4	917.6	47.76	20.212		
6,800.0	6,754.2	6,776.8	6,754.2	26.7	24.3	-162.89	-219.1	299.9	978.5	930.1	48.48	20.185		
6,900.0	6,853.3	6,875.9	6,853.3	27.1	24.6	-163.13	-219.1	299.9	991.4	942.2	49.19	20.154		
7,000.0	6,952.4	6,975.1	6,952.4	27.5	25.0	-163.35	-219.1	299.9	1,003.9	954.0	49.91	20.117		
7,100.0	7,051.6	7,074.2	7,051.6	27.9	25.3	-163.57	-219.1	299.9	1,016.2	965.6	50.62	20.075		
7,200.0	7,150.8	7,173.5	7,150.8	28.3	25.6	-163.77	-219.1	299.9	1,028.1	976.8	51.33	20.029		
7,300.0	7,250.1	7,272.7	7,250.1	28.7	26.0	-163.96	-219.1	299.9	1,039.8	987.7	52.05	19.978		
7,400.0	7,349.4	7,372.0	7,349.4	29.1	26.3	-164.14	-219.1	299.9	1,051.1	998.3	52.76	19.923		
7,500.0	7,448.8	7,471.4	7,448.8	29.6	26.7	-164.32	-219.1	299.9	1,062.1	1,008.7	53.47	19.864		
7,600.0	7,548.1	7,570.7	7,548.1	30.0	27.0	-164.48	-219.1	299.9	1,072.9	1,018.7	54.18	19.800		
7,700.0	7,647.6	7,670.2	7,647.6	30.4	27.3	-164.64	-219.1	299.9	1,083.3	1,028.4	54.90	19.733		
7,800.0	7,747.0	7,769.6	7,747.0	30.7	27.7	-164.79	-219.1	299.9	1,093.4	1,037.8	55.61	19.662		
7,900.0	7,846.5	7,869.1	7,846.5	31.1	28.0	-164.94	-219.1	299.9	1,103.2	1,046.9	56.32	19.587		
8,000.0	7,946.0	7,968.6	7,946.0	31.5	28.4	-165.07	-219.1	299.9	1,112.7	1,055.6	57.03	19.509		
8,100.0	8,045.5	8,068.2	8,045.5	31.9	28.7	-165.20	-219.1	299.9	1,121.9	1,064.1	57.75	19.427		
8,200.0	8,145.1	8,167.7	8,145.1	32.3	29.1	-165.32	-219.1	299.9	1,130.7	1,072.3	58.46	19.342		
8,300.0	8,244.7	8,267.4	8,244.7	32.7	29.4	-165.44	-219.1	299.9	1,139.3	1,080.1	59.17	19.254		
8,400.0	8,344.4	8,367.0	8,344.4	33.1	29.8	-165.55	-219.1	299.9	1,147.5	1,087.6	59.88	19.163		
8,500.0	8,444.0	8,466.7	8,444.0	33.5	30.1	-165.66	-219.1	299.9	1,155.4	1,094.8	60.59	19.069		
8,600.0	8,543.7	8,566.3	8,543.7	33.8	30.5	-165.76	-219.1	299.9	1,163.0	1,101.7	61.30	18.971		
8,700.0	8,643.4	8,666.1	8,643.4	34.2	30.8	-165.85	-219.1	299.9	1,170.3	1,108.3	62.02	18.872		
8,800.0	8,743.2	8,765.8	8,743.2	34.6	31.1	-165.94	-219.1	299.9	1,177.3	1,114.6	62.73	18.769		
8,900.0	8,843.0	8,865.6	8,843.0	35.0	31.5	-166.02	-219.1	299.9	1,184.0	1,120.5	63.44	18.664		
9,000.0	8,942.7	8,965.4	8,942.7	35.3	31.8	-166.10	-219.1	299.9	1,190.3	1,126.2	64.15	18.556		
9,100.0	9,042.5	9,065.2	9,042.5	35.7	32.2	-166.18	-219.1	299.9	1,196.4	1,131.5	64.86	18.446		
9,200.0	9,142.4	9,165.0	9,142.4	36.1	32.5	-166.24	-219.1	299.9	1,202.1	1,136.5	65.57	18.333		
9,300.0	9,242.2	9,264.8	9,242.2	36.4	32.9	-166.31	-219.1	299.9	1,207.5	1,141.2	66.28	18.219		
9,400.0	9,342.1	9,364.7	9,342.1	36.8	33.2	-166.37	-219.1	299.9	1,212.5	1,145.5	66.99	18.101		
9,500.0	9,442.0	9,464.6	9,442.0	37.1	33.6	-166.43	-219.1	299.9	1,217.3	1,149.6	67.69	17.982		
9,600.0	9,541.9	9,564.5	9,541.9	37.5	33.9	-166.48	-219.1	299.9	1,221.7	1,153.3	68.40	17.861		
9,700.0	9,641.8	9,664.4	9,641.8	37.9	34.3	-166.53	-219.1	299.9	1,225.8	1,156.7	69.11	17.737		
9,800.0	9,741.7	9,764.3	9,741.7	38.2	34.6	-166.57	-219.1	299.9	1,229.6	1,159.8	69.82	17.612		
9,900.0	9,841.6	9,864.2	9,841.6	38.6	35.0	-166.61	-219.1	299.9	1,233.1	1,162.6	70.53	17.484		
10,000.0	9,941.6	9,964.2	9,941.6	38.9	35.3	-166.65	-219.1	299.9	1,236.3	1,165.0	71.23	17.355		

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 #135H
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 #135H	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		
10,100.0	10,041.5	10,064.1	10,041.5	39.3	35.7	-166.68	-219.1	299.9	1,239.1	1,167.2	71.94	17.224		
10,200.0	10,141.5	10,164.1	10,141.5	39.6	36.0	-166.71	-219.1	299.9	1,241.6	1,169.0	72.65	17.091		
10,300.0	10,241.5	10,264.1	10,241.5	39.9	36.4	-166.73	-219.1	299.9	1,243.8	1,170.5	73.35	16.957		
10,400.0	10,341.5	10,363.4	10,340.8	40.3	36.7	-166.82	-217.7	299.9	1,245.7	1,171.7	74.05	16.822		
10,500.0	10,441.4	10,459.4	10,435.5	40.6	37.1	-167.50	-203.2	299.8	1,247.5	1,172.8	74.70	16.700		
10,600.0	10,541.4	10,548.2	10,519.9	41.0	37.3	-168.77	-175.8	299.6	1,249.7	1,174.5	75.27	16.604		
10,700.0	10,641.4	10,626.9	10,590.4	41.3	37.5	-170.37	-140.9	299.3	1,253.5	1,177.8	75.72	16.554		
10,800.0	10,741.4	10,694.8	10,646.9	41.6	37.7	-172.09	-103.3	299.0	1,259.8	1,183.8	76.02	16.572		
10,900.0	10,841.4	10,750.0	10,689.2	42.0	37.8	-173.69	-67.9	298.8	1,269.7	1,193.6	76.10	16.684		
10,935.6	10,877.0	10,770.7	10,704.2	42.1	37.8	81.60	-53.6	298.7	1,274.2	1,198.1	76.10	16.744		
10,950.0	10,891.4	10,777.9	10,709.3	42.1	37.8	102.75	-48.6	298.6	1,276.2	1,200.2	76.08	16.775		
11,000.0	10,941.3	10,800.0	10,724.5	42.3	37.9	101.24	-32.5	298.5	1,284.7	1,208.8	75.96	16.912		
11,050.0	10,990.7	10,827.3	10,742.5	42.4	37.9	99.40	-11.9	298.3	1,295.2	1,219.3	75.86	17.074		
11,100.0	11,039.2	10,850.0	10,756.6	42.6	37.9	97.53	5.8	298.2	1,307.4	1,231.7	75.68	17.276		
11,150.0	11,086.5	10,876.2	10,772.0	42.8	38.0	95.44	27.0	298.0	1,321.3	1,245.8	75.50	17.499		
11,200.0	11,132.1	10,900.0	10,785.2	42.9	38.0	93.30	46.8	297.9	1,336.5	1,261.2	75.29	17.751		
11,250.0	11,175.9	10,924.6	10,797.9	43.1	38.0	91.06	67.8	297.7	1,352.9	1,277.8	75.08	18.019		
11,300.0	11,217.3	10,950.0	10,810.1	43.2	38.0	88.74	90.1	297.6	1,370.2	1,295.3	74.88	18.298		
11,350.0	11,256.2	10,972.5	10,820.1	43.3	38.1	86.45	110.3	297.4	1,388.3	1,313.7	74.67	18.593		
11,400.0	11,292.2	11,000.0	10,831.2	43.5	38.1	84.08	135.4	297.2	1,407.0	1,332.5	74.52	18.879		
11,450.0	11,325.0	11,019.9	10,838.5	43.6	38.2	81.83	154.0	297.1	1,426.0	1,351.6	74.35	19.181		
11,500.0	11,354.5	11,050.0	10,848.2	43.7	38.3	79.53	182.4	296.9	1,445.2	1,370.9	74.29	19.454		
11,550.0	11,380.3	11,067.0	10,853.1	43.9	38.3	77.40	198.8	296.7	1,464.4	1,390.2	74.18	19.742		
11,600.0	11,402.2	11,100.0	10,861.1	44.0	38.4	75.29	230.7	296.5	1,483.5	1,409.3	74.23	19.984		
11,650.0	11,420.2	11,113.8	10,863.9	44.1	38.4	73.34	244.3	296.4	1,502.2	1,428.0	74.21	20.241		
11,700.0	11,434.0	11,137.1	10,867.9	44.3	38.5	71.49	267.3	296.2	1,520.5	1,446.1	74.32	20.459		
11,750.0	11,443.6	11,160.4	10,870.9	44.5	38.6	69.77	290.3	296.0	1,538.2	1,463.7	74.48	20.652		
11,800.0	11,448.9	11,183.7	10,873.0	44.6	38.6	68.19	313.5	295.8	1,555.2	1,480.5	74.70	20.818		
11,835.6	11,450.0	11,200.0	10,874.0	44.8	38.7	67.16	329.8	295.7	1,566.8	1,491.9	74.89	20.920		
11,900.0	11,450.0	11,235.2	10,874.4	45.1	38.8	67.52	364.9	295.4	1,587.5	1,512.2	75.28	21.087		
12,000.0	11,450.0	11,329.8	10,874.2	45.5	39.1	68.19	459.6	294.7	1,617.7	1,541.6	76.09	21.260		
12,100.0	11,450.0	11,425.5	10,874.0	46.1	39.5	68.76	555.3	294.0	1,644.9	1,567.9	76.99	21.364		
12,200.0	11,450.0	11,522.2	10,873.8	46.6	40.0	69.25	651.9	293.2	1,669.0	1,591.0	78.00	21.399		
12,300.0	11,450.0	11,619.7	10,873.6	47.3	40.5	69.66	749.4	292.5	1,690.0	1,610.9	79.09	21.367		
12,400.0	11,450.0	11,717.9	10,873.3	47.9	41.0	69.99	847.6	291.7	1,707.8	1,627.5	80.28	21.272		
12,500.0	11,450.0	11,816.7	10,873.1	48.6	41.7	70.26	946.4	291.0	1,722.3	1,640.8	81.56	21.117		
12,600.0	11,450.0	11,916.0	10,872.9	49.3	42.3	70.46	1,045.7	290.2	1,733.6	1,650.7	82.92	20.907		
12,700.0	11,450.0	12,015.6	10,872.7	50.0	43.1	70.60	1,145.3	289.5	1,741.7	1,657.3	84.36	20.647		
12,800.0	11,450.0	12,115.5	10,872.4	50.8	43.9	70.68	1,245.2	288.7	1,746.5	1,660.6	85.86	20.341		
12,892.5	11,450.0	12,208.0	10,872.2	51.5	44.6	70.70	1,337.7	288.0	1,747.9	1,660.6	87.31	20.021		
12,900.0	11,450.0	12,215.5	10,872.2	51.5	44.7	70.70	1,345.2	287.9	1,747.9	1,660.5	87.43	19.994		
13,000.0	11,450.0	12,315.5	10,872.0	52.3	45.6	70.69	1,445.2	287.2	1,748.0	1,659.0	89.06	19.627		
13,100.0	11,450.0	12,415.5	10,871.8	53.2	46.5	70.68	1,545.2	286.4	1,748.1	1,657.3	90.78	19.256		
13,200.0	11,450.0	12,515.5	10,871.5	54.0	47.5	70.68	1,645.2	285.6	1,748.2	1,655.6	92.58	18.883		
13,300.0	11,450.0	12,615.5	10,871.3	54.9	48.5	70.67	1,745.2	284.9	1,748.3	1,653.8	94.45	18.510		
13,400.0	11,450.0	12,715.5	10,871.1	55.9	49.5	70.66	1,845.2	284.1	1,748.3	1,652.0	96.38	18.139		
13,500.0	11,450.0	12,815.5	10,870.8	56.8	50.6	70.66	1,945.2	283.3	1,748.4	1,650.0	98.38	17.771		
13,600.0	11,450.0	12,915.5	10,870.6	57.8	51.7	70.65	2,045.2	282.5	1,748.5	1,648.0	100.44	17.408		
13,700.0	11,450.0	13,015.5	10,870.4	58.8	52.8	70.64	2,145.2	281.8	1,748.6	1,646.0	102.56	17.049		
13,800.0	11,450.0	13,115.5	10,870.2	59.9	54.0	70.63	2,245.2	281.0	1,748.6	1,643.9	104.73	16.697		
13,888.8	11,450.0	13,204.3	10,870.0	60.9	55.0	70.63	2,334.0	280.3	1,748.7	1,642.0	106.70	16.389		
13,900.0	11,450.0	13,215.5	10,869.9	61.0	55.1	70.63	2,345.2	280.2	1,748.7	1,641.8	106.95	16.351		

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 #135H
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 #135H	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		
14,000.0	11,450.0	13,315.5	10,869.7	62.1	56.3	70.62	2,445.2	279.5	1,748.8	1,639.6	109.22	16.012		
14,100.0	11,450.0	13,415.5	10,869.5	63.2	57.6	70.61	2,545.2	278.7	1,748.9	1,637.4	111.53	15.681		
14,200.0	11,450.0	13,515.5	10,869.3	64.4	58.8	70.61	2,645.1	277.9	1,749.0	1,635.1	113.88	15.358		
14,300.0	11,450.0	13,615.5	10,869.0	65.6	60.1	70.60	2,745.1	277.2	1,749.0	1,632.8	116.27	15.043		
14,400.0	11,450.0	13,715.5	10,868.8	66.8	61.4	70.59	2,845.1	276.4	1,749.1	1,630.4	118.69	14.737		
14,500.0	11,450.0	13,815.5	10,868.6	68.0	62.7	70.59	2,945.1	275.6	1,749.2	1,628.0	121.15	14.438		
14,600.0	11,450.0	13,915.4	10,868.4	69.2	64.0	70.58	3,045.1	274.9	1,749.3	1,625.6	123.65	14.148		
14,700.0	11,450.0	14,015.4	10,868.1	70.5	65.3	70.57	3,145.1	274.1	1,749.4	1,623.2	126.17	13.865		
14,800.0	11,450.0	14,115.4	10,867.9	71.7	66.7	70.56	3,245.1	273.3	1,749.4	1,620.7	128.72	13.591		
14,900.0	11,450.0	14,215.4	10,867.7	73.0	68.1	70.56	3,345.1	272.6	1,749.5	1,618.2	131.30	13.325		
15,000.0	11,450.0	14,315.4	10,867.4	74.3	69.4	70.55	3,445.1	271.8	1,749.6	1,615.7	133.90	13.066		
15,100.0	11,450.0	14,415.4	10,867.2	75.7	70.8	70.54	3,545.1	271.0	1,749.7	1,613.1	136.53	12.816		
15,200.0	11,450.0	14,515.4	10,867.0	77.0	72.2	70.54	3,645.1	270.3	1,749.7	1,610.6	139.17	12.572		
15,236.3	11,450.0	14,551.7	10,866.9	77.5	72.7	70.53	3,681.4	270.0	1,749.8	1,609.6	140.14	12.486		
15,300.0	11,450.0	14,615.4	10,866.8	78.3	73.6	70.52	3,745.1	269.5	1,749.2	1,607.3	141.83	12.332		
15,400.0	11,450.0	14,715.4	10,866.5	79.6	75.1	70.44	3,845.0	268.7	1,745.5	1,601.0	144.47	12.082		
15,500.0	11,450.0	14,815.1	10,866.3	80.9	76.5	70.31	3,944.7	268.0	1,738.5	1,591.5	147.09	11.820		
15,600.0	11,450.0	14,914.5	10,866.1	82.2	77.9	70.11	4,044.1	267.2	1,728.3	1,578.7	149.66	11.548		
15,700.0	11,450.0	15,013.4	10,865.9	83.5	79.3	69.84	4,143.1	266.4	1,714.9	1,562.7	152.19	11.268		
15,800.0	11,450.0	15,111.8	10,865.6	84.8	80.8	69.51	4,241.5	265.7	1,698.2	1,543.5	154.67	10.979		
15,900.0	11,450.0	15,209.5	10,865.4	86.0	82.2	69.11	4,339.2	264.9	1,678.3	1,521.2	157.09	10.684		
15,966.5	11,450.0	15,274.0	10,865.3	86.8	83.2	68.79	4,403.7	264.4	1,663.4	1,504.7	158.67	10.483		
16,000.0	11,450.0	15,306.5	10,865.2	87.2	83.6	68.75	4,436.2	264.2	1,655.7	1,496.2	159.46	10.383		
16,100.0	11,450.0	15,404.0	10,865.0	88.5	85.1	68.61	4,533.6	263.4	1,634.8	1,473.0	161.86	10.101		
16,200.0	11,450.0	15,502.2	10,864.8	89.7	86.5	68.49	4,631.8	262.7	1,617.2	1,452.9	164.33	9.842		
16,300.0	11,450.0	15,601.0	10,864.5	91.1	88.0	68.39	4,730.6	261.9	1,602.8	1,436.0	166.86	9.606		
16,400.0	11,450.0	15,700.2	10,864.3	92.5	89.5	68.30	4,829.8	261.2	1,591.7	1,422.2	169.47	9.392		
16,500.0	11,450.0	15,800.2	10,864.1	93.9	91.0	68.24	4,929.5	260.4	1,583.8	1,411.6	172.15	9.200		
16,600.0	11,450.0	15,900.3	10,863.8	95.3	92.5	68.20	5,029.3	259.6	1,579.1	1,404.2	174.90	9.029		
16,694.0	11,450.0	16,006.3	10,863.6	96.7	94.1	68.18	5,123.3	258.9	1,577.7	1,400.0	177.71	8.878		
16,700.0	11,450.0	16,000.3	10,863.6	96.8	94.0	68.18	5,129.3	258.9	1,577.7	1,400.0	177.71	8.878		
16,800.0	11,450.0	16,100.3	10,863.4	98.2	95.5	68.18	5,229.3	258.1	1,579.5	1,398.9	180.59	8.746		
16,900.0	11,450.0	16,199.5	10,863.2	99.7	97.0	68.21	5,329.1	257.3	1,584.6	1,401.1	183.52	8.634		
17,000.0	11,450.0	16,300.9	10,862.9	101.3	98.6	68.26	5,428.7	256.6	1,592.9	1,406.3	186.54	8.539		
17,100.0	11,450.0	16,401.6	10,862.7	102.8	100.1	68.33	5,528.0	255.8	1,604.4	1,414.8	189.62	8.461		
17,200.0	11,450.0	16,497.1	10,862.5	104.4	101.6	68.42	5,626.7	255.0	1,619.1	1,426.5	192.68	8.403		
17,300.0	11,450.0	16,604.8	10,862.3	106.0	103.2	68.52	5,724.8	254.3	1,637.1	1,441.2	195.96	8.354		
17,400.0	11,450.0	16,707.4	10,862.0	107.5	104.8	68.64	5,822.2	253.5	1,658.3	1,459.1	199.22	8.324		
17,426.1	11,450.0	16,717.9	10,862.0	108.0	105.0	68.68	5,847.5	253.3	1,664.4	1,464.5	199.85	8.328		
17,500.0	11,450.0	16,789.7	10,861.8	109.1	106.1	69.01	5,919.3	252.8	1,681.0	1,478.8	202.21	8.313		
17,600.0	11,450.0	16,887.4	10,861.6	110.7	107.6	69.40	6,017.0	252.0	1,700.8	1,495.4	205.39	8.281		
17,700.0	11,450.0	16,985.9	10,861.4	112.3	109.1	69.72	6,115.5	251.3	1,717.3	1,508.8	208.55	8.235		
17,800.0	11,450.0	17,084.9	10,861.2	113.9	110.7	69.96	6,214.5	250.5	1,730.7	1,519.0	211.68	8.176		
17,900.0	11,450.0	17,184.3	10,860.9	115.5	112.2	70.14	6,313.9	249.8	1,740.7	1,526.0	214.77	8.105		
18,000.0	11,450.0	17,284.0	10,860.7	117.0	113.8	70.26	6,413.6	249.0	1,747.6	1,529.7	217.83	8.022		
18,100.0	11,450.0	17,384.0	10,860.5	118.6	115.3	70.32	6,513.5	248.2	1,751.1	1,530.3	220.85	7.929		
18,155.7	11,450.0	17,439.7	10,860.4	119.4	116.2	70.33	6,569.3	247.8	1,751.7	1,529.1	222.52	7.872		
18,200.0	11,450.0	17,484.0	10,860.3	120.1	116.9	70.32	6,613.5	247.5	1,751.7	1,527.9	223.84	7.826		
18,300.0	11,450.0	17,584.0	10,860.0	121.7	118.5	70.32	6,713.5	246.7	1,751.8	1,525.0	226.81	7.723		
18,400.0	11,450.0	17,684.0	10,859.8	123.2	120.1	70.31	6,813.5	245.9	1,751.8	1,522.0	229.80	7.623		
18,500.0	11,450.0	17,784.0	10,859.6	124.7	121.6	70.30	6,913.5	245.2	1,751.9	1,519.1	232.78	7.526		
18,600.0	11,450.0	17,884.0	10,859.3	126.3	123.2	70.30	7,013.5	244.4	1,752.0	1,516.2	235.77	7.431		

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 #135H
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 #135H	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		
18,700.0	11,450.0	17,984.0	10,859.1	127.8	124.8	70.29	7,113.5	243.6	1,752.1	1,513.3	238.77	7.338		
18,800.0	11,450.0	18,084.0	10,858.9	129.4	126.4	70.28	7,213.5	242.9	1,752.1	1,510.4	241.77	7.247		
18,900.0	11,450.0	18,184.0	10,858.7	130.9	127.9	70.28	7,313.5	242.1	1,752.2	1,507.4	244.77	7.159		
19,000.0	11,450.0	18,284.0	10,858.4	132.5	129.5	70.27	7,413.5	241.3	1,752.3	1,504.5	247.78	7.072		
19,100.0	11,450.0	18,384.0	10,858.2	134.0	131.1	70.26	7,513.5	240.6	1,752.4	1,501.6	250.79	6.987		
19,200.0	11,450.0	18,484.0	10,858.0	135.6	132.7	70.25	7,613.5	239.8	1,752.4	1,498.6	253.80	6.905		
19,300.0	11,450.0	18,584.0	10,857.8	137.2	134.3	70.25	7,713.5	239.0	1,752.5	1,495.7	256.82	6.824		
19,400.0	11,450.0	18,684.0	10,857.5	138.7	135.9	70.24	7,813.5	238.2	1,752.6	1,492.7	259.84	6.745		
19,500.0	11,450.0	18,784.0	10,857.3	140.3	137.5	70.23	7,913.5	237.5	1,752.6	1,489.8	262.86	6.667		
19,600.0	11,450.0	18,884.0	10,857.1	141.9	139.1	70.23	8,013.5	236.7	1,752.7	1,486.8	265.89	6.592		
19,700.0	11,450.0	18,984.0	10,856.9	143.4	140.7	70.22	8,113.5	235.9	1,752.8	1,483.9	268.92	6.518		
19,800.0	11,450.0	19,084.0	10,856.6	145.0	142.2	70.21	8,213.5	235.2	1,752.9	1,480.9	271.95	6.446		
19,900.0	11,450.0	19,184.0	10,856.4	146.6	143.8	70.21	8,313.5	234.4	1,752.9	1,477.9	274.99	6.375		
20,000.0	11,450.0	19,284.0	10,856.2	148.2	145.4	70.20	8,413.5	233.6	1,753.0	1,475.0	278.02	6.305		
20,100.0	11,450.0	19,384.0	10,855.9	149.7	147.0	70.19	8,513.5	232.9	1,753.1	1,472.0	281.06	6.237		
20,200.0	11,450.0	19,484.0	10,855.7	151.3	148.6	70.18	8,613.5	232.1	1,753.2	1,469.0	284.10	6.171		
20,300.0	11,450.0	19,584.0	10,855.5	152.9	150.3	70.18	8,713.5	231.3	1,753.2	1,466.1	287.15	6.106		
20,400.0	11,450.0	19,684.0	10,855.3	154.5	151.9	70.17	8,813.5	230.6	1,753.3	1,463.1	290.19	6.042		
20,500.0	11,450.0	19,784.0	10,855.0	156.1	153.5	70.16	8,913.5	229.8	1,753.4	1,460.1	293.24	5.979		
20,600.0	11,450.0	19,884.0	10,854.8	157.6	155.1	70.16	9,013.5	229.0	1,753.4	1,457.2	296.29	5.918		
20,700.0	11,450.0	19,984.0	10,854.6	159.2	156.7	70.15	9,113.5	228.3	1,753.5	1,454.2	299.35	5.858		
20,800.0	11,450.0	20,084.0	10,854.4	160.8	158.3	70.14	9,213.4	227.5	1,753.6	1,451.2	302.40	5.799		
20,900.0	11,450.0	20,184.0	10,854.1	162.4	159.9	70.14	9,313.4	226.7	1,753.7	1,448.2	305.46	5.741		
21,000.0	11,450.0	20,284.0	10,853.9	164.0	161.5	70.13	9,413.4	226.0	1,753.7	1,445.2	308.51	5.684		
21,100.0	11,450.0	20,384.0	10,853.7	165.6	163.1	70.12	9,513.4	225.2	1,753.8	1,442.2	311.57	5.629		
21,200.0	11,450.0	20,484.0	10,853.4	167.2	164.7	70.11	9,613.4	224.4	1,753.9	1,439.2	314.63	5.574		
21,300.0	11,450.0	20,584.0	10,853.2	168.8	166.3	70.11	9,713.4	223.7	1,754.0	1,436.3	317.70	5.521		
21,400.0	11,450.0	20,684.0	10,853.0	170.4	168.0	70.10	9,813.4	222.9	1,754.0	1,433.3	320.76	5.468		
21,500.0	11,450.0	20,784.0	10,852.8	172.0	169.6	70.09	9,913.4	222.1	1,754.1	1,430.3	323.83	5.417		
21,600.0	11,450.0	20,884.0	10,852.5	173.6	171.2	70.09	10,013.4	221.4	1,754.2	1,427.3	326.90	5.366		
21,700.0	11,450.0	20,984.0	10,852.3	175.2	172.8	70.08	10,113.4	220.6	1,754.3	1,424.3	329.96	5.316		
21,757.9	11,450.0	21,034.0	10,852.0	176.1	173.6	70.07	10,163.5	220.3	1,754.5	1,422.9	331.55	5.292		

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 #135H
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 #135H	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	90.08	-3.1	2,373.3	2,373.3					
100.0	100.0	101.0	99.0	0.1	0.1	-165.86	-3.1	2,373.3	2,373.5	2,373.2	0.26	9,100.670		
200.0	200.0	201.0	199.0	0.5	0.5	-165.86	-3.1	2,373.3	2,374.0	2,373.0	0.98	2,429.313		
300.0	300.0	301.0	299.0	0.8	0.8	-165.87	-3.1	2,373.3	2,374.8	2,373.1	1.69	1,401.624		
400.0	400.0	401.0	399.0	1.2	1.2	-165.87	-3.1	2,373.3	2,375.9	2,373.5	2.41	985.240		
500.0	500.0	501.0	499.0	1.6	1.6	-165.88	-3.1	2,373.3	2,377.3	2,374.2	3.13	759.830		
600.0	600.0	601.0	599.0	1.9	1.9	-165.89	-3.1	2,373.3	2,379.1	2,375.2	3.85	618.564		
700.0	699.9	701.1	698.9	2.3	2.3	-165.90	-3.1	2,373.3	2,381.1	2,376.6	4.56	521.769		
800.0	799.9	801.1	798.9	2.6	2.6	-165.92	-3.1	2,373.3	2,383.5	2,378.3	5.28	451.324		
900.0	899.9	901.1	898.9	3.0	3.0	-165.93	-3.1	2,373.3	2,386.3	2,380.3	6.00	397.778		
1,000.0	999.8	1,001.2	998.8	3.4	3.4	-165.95	-3.1	2,373.3	2,389.3	2,382.6	6.72	355.715		
1,100.0	1,099.8	1,101.2	1,098.8	3.7	3.7	-165.97	-3.1	2,373.3	2,392.6	2,385.2	7.43	321.811		
1,200.0	1,199.7	1,201.3	1,198.7	4.1	4.1	-165.99	-3.1	2,373.3	2,396.3	2,388.2	8.15	293.912		
1,300.0	1,299.6	1,301.4	1,298.6	4.5	4.4	-166.01	-3.1	2,373.3	2,400.3	2,391.4	8.87	270.561		
1,400.0	1,399.5	1,401.5	1,398.5	4.8	4.8	-166.03	-3.1	2,373.3	2,404.6	2,395.0	9.59	250.737		
1,500.0	1,499.4	1,498.4	1,498.4	5.2	5.1	-166.06	-3.1	2,373.3	2,409.3	2,399.0	10.30	233.964		
1,600.0	1,599.3	1,605.7	1,605.7	5.6	5.7	-166.09	-3.8	2,371.0	2,412.8	2,401.6	11.23	214.802		
1,700.0	1,699.1	1,834.3	1,834.1	5.9	6.3	-166.10	-5.7	2,363.9	2,413.9	2,401.7	12.16	198.501		
1,800.0	1,798.9	2,002.9	2,002.3	6.3	6.9	-166.08	-8.9	2,352.0	2,412.4	2,399.4	13.09	184.356		
1,900.0	1,898.8	2,171.3	2,169.8	6.7	7.5	-166.03	-13.3	2,335.4	2,408.5	2,394.5	14.01	171.955		
2,000.0	1,998.6	2,323.3	2,320.5	7.0	8.0	-165.97	-18.5	2,316.3	2,402.0	2,387.2	14.87	161.502		
2,100.0	2,098.3	2,423.0	2,419.2	7.4	8.4	-165.93	-22.1	2,302.9	2,395.1	2,379.5	15.59	153.676		
2,200.0	2,198.1	2,522.8	2,518.0	7.8	8.8	-165.88	-25.7	2,289.5	2,388.5	2,372.2	16.30	146.529		
2,300.0	2,297.8	2,622.6	2,616.8	8.1	9.2	-165.84	-29.3	2,276.1	2,382.2	2,365.2	17.02	139.983		
2,400.0	2,297.5	2,722.4	2,715.7	8.5	9.6	-165.80	-32.9	2,262.7	2,376.3	2,358.5	17.74	133.969		
2,500.0	2,297.2	2,822.2	2,814.5	8.9	10.0	-165.76	-36.5	2,249.3	2,370.6	2,352.2	18.46	128.427		
2,600.0	2,296.8	2,922.1	2,913.4	9.3	10.3	-165.73	-40.2	2,235.9	2,365.3	2,346.1	19.18	123.307		
2,700.0	2,296.4	3,021.9	3,012.3	9.7	10.7	-165.69	-43.8	2,222.5	2,360.3	2,340.4	19.91	118.565		
2,800.0	2,296.0	3,121.8	3,111.2	10.0	11.1	-165.66	-47.4	2,209.0	2,355.6	2,335.0	20.63	114.163		
2,900.0	2,295.6	3,221.7	3,210.1	10.4	11.5	-165.63	-51.0	2,195.6	2,351.2	2,329.9	21.36	110.068		
3,000.0	2,295.1	3,321.6	3,309.1	10.8	11.9	-165.60	-54.6	2,182.2	2,347.2	2,325.1	22.09	106.250		
3,100.0	3,094.6	3,421.5	3,408.0	11.2	12.3	-165.57	-58.2	2,168.8	2,343.5	2,320.6	22.82	102.685		
3,200.0	3,194.1	3,521.5	3,507.0	11.6	12.7	-165.55	-61.9	2,155.3	2,340.0	2,316.5	23.55	99.349		
3,300.0	3,293.5	3,621.4	3,606.0	12.0	13.1	-165.52	-65.5	2,141.9	2,337.0	2,312.7	24.29	96.223		
3,400.0	3,392.9	3,721.4	3,704.9	12.4	13.6	-165.50	-69.1	2,128.5	2,334.2	2,309.2	25.02	93.288		
3,500.0	3,492.2	3,821.3	3,803.9	12.7	14.0	-165.48	-72.7	2,115.0	2,331.7	2,306.0	25.76	90.529		
3,600.0	3,591.6	3,921.3	3,902.9	13.1	14.4	-165.46	-76.3	2,101.6	2,329.6	2,303.1	26.49	87.932		
3,700.0	3,690.8	4,021.3	4,001.9	13.5	14.8	-165.44	-80.0	2,088.2	2,327.8	2,300.6	27.23	85.484		
3,800.0	3,790.1	4,121.3	4,100.9	13.9	15.2	-165.43	-83.6	2,074.7	2,326.3	2,298.3	27.97	83.174		
3,900.0	3,889.3	4,221.3	4,200.0	14.3	15.6	-165.41	-87.2	2,061.3	2,325.1	2,296.4	28.71	80.991		
4,000.0	3,988.4	4,321.3	4,299.0	14.7	16.0	-165.40	-90.8	2,047.9	2,324.3	2,294.8	29.45	78.926		
4,100.0	4,087.5	4,421.3	4,398.0	15.2	16.4	-165.39	-94.4	2,034.4	2,323.7	2,293.5	30.19	76.970		
4,200.0	4,186.6	4,521.3	4,497.0	15.6	16.8	-165.39	-98.1	2,021.0	2,323.5	2,292.6	30.93	75.116		
4,218.1	4,204.5	4,539.3	4,514.9	15.6	16.9	-165.38	-98.7	2,018.6	2,323.5	2,292.4	31.07	74.792 CC		
4,300.0	4,285.6	4,621.3	4,596.1	16.0	17.2	-165.38	-101.7	2,007.5	2,323.6	2,291.9	31.68	73.358		
4,400.0	4,384.6	4,721.3	4,695.1	16.4	17.7	-165.38	-105.3	1,994.1	2,324.0	2,291.6	32.42	71.688		
4,500.0	4,483.5	4,821.3	4,794.1	16.8	18.1	-165.37	-108.9	1,980.7	2,324.8	2,291.6	33.16	70.100 ES		
4,600.0	4,582.4	4,921.2	4,893.1	17.2	18.5	-165.37	-112.5	1,967.2	2,325.8	2,291.9	33.91	68.590		
4,700.0	4,681.2	5,021.2	4,992.2	17.6	18.9	-165.38	-116.2	1,953.8	2,327.2	2,292.6	34.66	67.153		
4,800.0	4,780.0	5,121.2	5,091.2	18.1	19.3	-165.38	-119.8	1,940.4	2,328.9	2,293.5	35.40	65.784		
4,900.0	4,878.7	5,221.2	5,190.2	18.5	19.7	-165.39	-123.4	1,926.9	2,330.9	2,294.8	36.15	64.479		
5,000.0	4,977.4	5,321.2	5,289.2	18.9	20.1	-165.39	-127.0	1,913.5	2,333.3	2,296.4	36.90	63.235		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,421.1	5,388.2	19.3	20.6	-165.40	-130.6	1,900.1	2,335.9	2,298.3	37.65	62.047		
5,180.6	5,155.5	5,501.7	5,467.9	19.7	20.9	-165.41	-133.6	1,889.2	2,338.3	2,300.0	38.25	61.128		
5,200.0	5,174.6	5,521.1	5,487.1	19.8	21.0	-165.41	-134.3	1,886.6	2,338.9	2,300.5	38.40	60.912		
5,300.0	5,273.2	5,621.0	5,586.1	20.2	21.4	-165.43	-137.9	1,873.2	2,341.9	2,302.8	39.15	59.823		
5,400.0	5,371.7	5,721.0	5,685.1	20.6	21.8	-165.44	-141.5	1,859.8	2,345.0	2,305.1	39.90	58.774		
5,500.0	5,470.2	5,820.9	5,784.1	21.1	22.2	-165.45	-145.1	1,846.3	2,348.1	2,307.4	40.65	57.764		
5,600.0	5,568.8	5,920.9	5,883.1	21.5	22.7	-165.47	-148.7	1,832.9	2,351.2	2,309.8	41.40	56.789		
5,700.0	5,667.3	6,020.8	5,982.0	22.0	23.1	-165.48	-152.4	1,819.5	2,354.2	2,312.1	42.15	55.849		
5,755.0	5,721.5	6,075.8	6,036.4	22.2	23.3	-165.49	-154.3	1,812.1	2,355.9	2,313.3	42.57	55.347		
5,800.0	5,765.9	6,120.8	6,081.0	22.4	23.5	-165.49	-156.0	1,806.0	2,357.3	2,314.4	42.91	54.941		
5,900.0	5,864.5	6,220.8	6,180.0	22.8	23.9	-165.51	-159.6	1,792.6	2,360.0	2,316.4	43.66	54.058		
6,000.0	5,963.1	6,320.7	6,279.0	23.3	24.3	-165.52	-163.2	1,779.2	2,362.5	2,318.1	44.41	53.198		
6,100.0	6,061.9	6,420.7	6,378.0	23.7	24.7	-165.52	-166.8	1,765.7	2,364.6	2,319.4	45.16	52.360		
6,200.0	6,160.6	6,520.7	6,477.0	24.1	25.2	-165.53	-170.5	1,752.3	2,366.4	2,320.5	45.91	51.542		
6,300.0	6,259.4	6,620.7	6,576.0	24.6	25.6	-165.53	-174.1	1,738.9	2,367.9	2,321.2	46.66	50.744		
6,400.0	6,358.3	6,720.7	6,675.1	25.0	26.0	-165.54	-177.7	1,725.4	2,369.1	2,321.7	47.41	49.965		
6,500.0	6,457.2	6,820.7	6,774.1	25.4	26.4	-165.54	-181.3	1,712.0	2,369.9	2,321.8	48.16	49.204		
6,600.0	6,556.2	6,920.7	6,873.1	25.8	26.8	-165.53	-184.9	1,698.5	2,370.5	2,321.5	48.92	48.460		
6,700.0	6,655.2	7,020.7	6,972.1	26.3	27.3	-165.53	-188.6	1,685.1	2,370.7	2,321.0	49.67	47.733		
6,800.0	6,754.2	7,120.7	7,071.2	26.7	27.7	-165.52	-192.2	1,671.7	2,370.6	2,320.2	50.41	47.021		
6,900.0	6,853.3	7,209.2	7,158.8	27.1	28.0	-165.51	-195.4	1,659.8	2,370.2	2,319.0	51.13	46.357		
6,931.8	6,884.9	7,236.3	7,185.7	27.2	28.2	-165.51	-196.3	1,656.2	2,370.1	2,318.7	51.35	46.154		
7,000.0	6,952.4	7,278.9	7,228.0	27.5	28.3	-165.51	-197.7	1,651.0	2,370.4	2,318.6	51.78	45.780		
7,100.0	7,051.6	7,341.5	7,290.1	27.9	28.6	-165.51	-199.6	1,644.2	2,371.9	2,319.5	52.39	45.274		
7,200.0	7,150.8	7,400.0	7,348.4	28.3	28.8	-165.52	-201.1	1,638.7	2,374.6	2,321.7	52.97	44.829		
7,300.0	7,250.1	7,466.5	7,414.6	28.7	29.1	-165.54	-202.5	1,633.5	2,378.6	2,325.1	53.57	44.405		
7,400.0	7,349.4	7,528.9	7,476.9	29.1	29.3	-165.56	-203.5	1,629.7	2,383.9	2,329.8	54.13	44.040		
7,500.0	7,448.8	7,600.0	7,547.9	29.6	29.6	-165.59	-204.4	1,626.5	2,390.4	2,335.7	54.72	43.684		
7,600.0	7,548.1	7,653.3	7,601.2	30.0	29.7	-165.62	-204.8	1,624.9	2,398.2	2,342.9	55.21	43.438		
7,700.0	7,647.6	7,715.2	7,663.1	30.4	29.9	-165.66	-205.0	1,624.0	2,407.2	2,351.4	55.72	43.199		
7,800.0	7,747.0	7,801.9	7,746.0	30.7	30.2	-165.71	-205.1	1,623.9	2,417.2	2,360.8	56.34	42.901		
7,900.0	7,846.5	7,902.4	7,845.5	31.1	30.5	-165.78	-205.1	1,623.9	2,427.0	2,370.0	57.04	42.549		
8,000.0	7,946.0	8,002.9	7,945.0	31.5	30.8	-165.84	-205.1	1,623.9	2,436.5	2,378.8	57.74	42.199		
8,100.0	8,045.5	8,103.3	8,044.5	31.9	31.2	-165.90	-205.1	1,623.9	2,445.7	2,387.3	58.44	41.853		
8,200.0	8,145.1	8,203.8	8,144.1	32.3	31.5	-165.95	-205.1	1,623.9	2,454.6	2,395.5	59.14	41.509		
8,300.0	8,244.7	8,304.2	8,243.7	32.7	31.8	-166.01	-205.1	1,623.9	2,463.2	2,403.4	59.83	41.168		
8,400.0	8,344.4	8,404.5	8,343.4	33.1	32.1	-166.06	-205.1	1,623.9	2,471.5	2,410.9	60.53	40.829		
8,500.0	8,444.0	8,504.9	8,443.0	33.5	32.4	-166.11	-205.1	1,623.9	2,479.4	2,418.2	61.23	40.493		
8,600.0	8,543.7	8,605.2	8,542.7	33.8	32.8	-166.15	-205.1	1,623.9	2,487.0	2,425.1	61.93	40.160		
8,700.0	8,643.4	8,705.4	8,642.4	34.2	33.1	-166.20	-205.1	1,623.9	2,494.3	2,431.7	62.63	39.828		
8,800.0	8,743.2	8,805.7	8,742.2	34.6	33.4	-166.24	-205.1	1,623.9	2,501.3	2,438.0	63.33	39.500		
8,900.0	8,843.0	8,905.9	8,842.0	35.0	33.7	-166.28	-205.1	1,623.9	2,508.0	2,444.0	64.02	39.173		
9,000.0	8,942.7	9,006.2	8,941.7	35.3	34.0	-166.32	-205.1	1,623.9	2,514.3	2,449.6	64.72	38.849		
9,100.0	9,042.5	9,106.4	9,041.5	35.7	34.4	-166.36	-205.1	1,623.9	2,520.4	2,454.9	65.42	38.526		
9,200.0	9,142.4	9,206.5	9,141.4	36.1	34.7	-166.39	-205.1	1,623.9	2,526.1	2,460.0	66.12	38.206		
9,300.0	9,242.2	9,306.7	9,241.2	36.4	35.0	-166.42	-205.1	1,623.9	2,531.5	2,464.7	66.82	37.888		
9,400.0	9,342.1	9,406.8	9,341.1	36.8	35.3	-166.45	-205.1	1,623.9	2,536.6	2,469.0	67.51	37.571		
9,500.0	9,442.0	9,506.9	9,441.0	37.1	35.7	-166.48	-205.1	1,623.9	2,541.3	2,473.1	68.21	37.257		
9,600.0	9,541.9	9,607.0	9,540.9	37.5	36.0	-166.50	-205.1	1,623.9	2,545.7	2,476.8	68.91	36.944		
9,700.0	9,641.8	9,707.1	9,640.8	37.9	36.3	-166.53	-205.1	1,623.9	2,549.9	2,480.3	69.61	36.633		
9,800.0	9,741.7	9,807.2	9,740.7	38.2	36.6	-166.55	-205.1	1,623.9	2,553.7	2,483.4	70.30	36.324		
9,900.0	9,841.6	9,907.3	9,840.6	38.6	37.0	-166.57	-205.1	1,623.9	2,557.1	2,486.1	71.00	36.016		

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 #135H
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 #135H	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		
10,000.0	9,941.6	10,007.3	9,940.6	38.9	37.3	-166.59	-205.1	1,623.9	2,560.3	2,488.6	71.70	35.710		
10,100.0	10,041.5	10,107.4	10,040.5	39.3	37.6	-166.61	-205.1	1,623.9	2,563.1	2,490.7	72.39	35.406		
10,200.0	10,141.5	10,207.4	10,140.5	39.6	38.0	-166.62	-205.1	1,623.9	2,565.7	2,492.6	73.09	35.103		
10,300.0	10,241.5	10,292.6	10,240.5	39.9	38.2	-166.63	-205.1	1,623.9	2,567.8	2,494.1	73.73	34.825		
10,400.0	10,341.5	10,391.9	10,339.8	40.3	38.6	-166.66	-204.3	1,623.9	2,569.7	2,495.3	74.42	34.528		
10,500.0	10,441.4	10,487.8	10,434.6	40.6	38.9	-166.96	-191.2	1,623.8	2,571.4	2,496.3	75.06	34.256		
10,600.0	10,541.4	10,576.9	10,519.8	41.0	39.1	-167.55	-165.1	1,623.6	2,573.1	2,497.5	75.62	34.025		
10,700.0	10,641.4	10,656.3	10,591.4	41.3	39.3	-168.31	-130.9	1,623.3	2,575.3	2,499.2	76.10	33.843		
10,800.0	10,741.4	10,725.1	10,649.1	41.6	39.5	-169.15	-93.6	1,623.0	2,578.6	2,502.1	76.48	33.716		
10,900.0	10,841.4	10,783.5	10,694.3	42.0	39.6	-169.97	-56.6	1,622.7	2,583.5	2,506.7	76.77	33.650		
10,935.6	10,877.0	10,800.0	10,706.4	42.1	39.6	85.72	-45.4	1,622.6	2,585.6	2,508.8	76.84	33.648		
10,950.0	10,891.4	10,809.3	10,713.0	42.1	39.6	107.06	-38.9	1,622.6	2,586.6	2,509.8	76.88	33.645		
11,000.0	10,941.3	10,834.5	10,730.5	42.3	39.6	106.23	-20.8	1,622.4	2,591.4	2,514.4	76.97	33.668		
11,050.0	10,990.7	10,859.4	10,747.0	42.4	39.7	105.24	-2.0	1,622.3	2,597.9	2,520.9	77.04	33.719		
11,100.0	11,039.2	10,884.3	10,762.6	42.6	39.7	104.10	17.2	1,622.1	2,606.1	2,529.0	77.11	33.799		
11,150.0	11,086.5	10,908.9	10,777.3	42.8	39.7	102.81	37.1	1,622.0	2,616.0	2,538.8	77.16	33.904		
11,200.0	11,132.1	10,933.4	10,791.0	42.9	39.7	101.38	57.4	1,621.8	2,627.3	2,550.1	77.20	34.031		
11,250.0	11,175.9	10,950.0	10,799.8	43.1	39.8	99.91	71.4	1,621.7	2,639.9	2,562.7	77.19	34.199		
11,300.0	11,217.3	10,982.1	10,815.6	43.2	39.8	98.16	99.3	1,621.5	2,653.7	2,576.5	77.27	34.345		
11,350.0	11,256.2	11,000.0	10,823.8	43.3	39.8	96.44	115.3	1,621.4	2,668.7	2,591.4	77.26	34.540		
11,400.0	11,292.2	11,030.2	10,836.4	43.5	39.8	94.54	142.7	1,621.2	2,684.5	2,607.2	77.33	34.717		
11,450.0	11,325.0	11,050.0	10,843.8	43.6	39.8	92.64	161.1	1,621.0	2,701.1	2,623.7	77.35	34.921		
11,500.0	11,354.5	11,077.9	10,853.3	43.7	39.9	90.65	187.3	1,620.8	2,718.3	2,640.8	77.42	35.111		
11,550.0	11,380.3	11,100.0	10,859.8	43.9	39.9	88.66	208.4	1,620.6	2,735.9	2,658.4	77.48	35.313		
11,600.0	11,402.2	11,125.2	10,866.3	44.0	39.9	86.65	232.8	1,620.4	2,753.9	2,676.3	77.57	35.503		
11,650.0	11,420.2	11,150.0	10,871.6	44.1	39.9	84.66	257.0	1,620.3	2,772.0	2,694.3	77.67	35.687		
11,700.0	11,434.0	11,172.3	10,875.5	44.3	40.0	82.71	278.9	1,620.1	2,790.1	2,712.3	77.79	35.866		
11,750.0	11,443.6	11,200.0	10,879.1	44.5	40.0	80.81	306.4	1,619.9	2,808.1	2,730.1	77.96	36.021		
11,800.0	11,448.9	11,219.2	10,880.9	44.6	40.0	78.97	325.5	1,619.7	2,825.8	2,747.7	78.11	36.177		
11,835.6	11,450.0	11,235.8	10,881.9	44.8	40.1	77.71	342.1	1,619.6	2,838.2	2,759.9	78.25	36.273		
11,900.0	11,450.0	11,268.8	10,882.4	45.1	40.1	77.87	375.1	1,619.3	2,860.1	2,781.5	78.52	36.426		
12,000.0	11,450.0	11,363.4	10,882.1	45.5	40.4	78.14	469.7	1,618.6	2,891.8	2,812.6	79.17	36.526		
12,100.0	11,450.0	11,459.1	10,881.8	46.1	40.7	78.37	565.4	1,617.8	2,920.2	2,840.3	79.95	36.525		
12,200.0	11,450.0	11,555.8	10,881.5	46.6	41.1	78.57	662.0	1,617.1	2,945.4	2,864.6	80.85	36.431		
12,300.0	11,450.0	11,653.3	10,881.2	47.3	41.6	78.73	759.5	1,616.3	2,967.3	2,885.4	81.87	36.245		
12,400.0	11,450.0	11,751.5	10,880.8	47.9	42.1	78.87	857.7	1,615.5	2,985.8	2,902.8	83.00	35.976		
12,500.0	11,450.0	11,850.3	10,880.5	48.6	42.7	78.98	956.5	1,614.8	3,001.0	2,916.8	84.23	35.628		
12,600.0	11,450.0	11,949.6	10,880.2	49.3	43.4	79.06	1,055.8	1,614.0	3,012.8	2,927.2	85.56	35.210		
12,700.0	11,450.0	12,049.2	10,879.9	50.0	44.1	79.12	1,155.5	1,613.2	3,021.1	2,934.1	86.99	34.729		
12,800.0	11,450.0	12,149.1	10,879.5	50.8	44.8	79.15	1,255.3	1,612.4	3,026.0	2,937.5	88.50	34.191		
12,892.5	11,450.0	12,241.6	10,879.2	51.5	45.6	79.15	1,347.8	1,611.7	3,027.5	2,937.6	89.97	33.650		
12,900.0	11,450.0	12,249.1	10,879.2	51.5	45.7	79.15	1,355.3	1,611.6	3,027.5	2,937.5	90.09	33.605		
13,000.0	11,450.0	12,349.1	10,878.9	52.3	46.5	79.15	1,455.3	1,610.8	3,027.6	2,935.8	91.76	32.993		
13,100.0	11,450.0	12,449.1	10,878.5	53.2	47.4	79.14	1,555.3	1,610.1	3,027.6	2,934.1	93.52	32.374		
13,200.0	11,450.0	12,549.1	10,878.2	54.0	48.4	79.13	1,655.3	1,609.3	3,027.7	2,932.3	95.36	31.751		
13,300.0	11,450.0	12,649.1	10,877.9	54.9	49.4	79.13	1,755.3	1,608.5	3,027.7	2,930.5	97.27	31.128		
13,400.0	11,450.0	12,749.1	10,877.5	55.9	50.4	79.12	1,855.3	1,607.7	3,027.8	2,928.5	99.25	30.507		
13,500.0	11,450.0	12,849.1	10,877.2	56.8	51.4	79.11	1,955.3	1,606.9	3,027.8	2,926.5	101.30	29.890		
13,600.0	11,450.0	12,949.1	10,876.9	57.8	52.5	79.11	2,055.3	1,606.1	3,027.9	2,924.5	103.41	29.281		
13,700.0	11,450.0	13,049.0	10,876.5	58.8	53.6	79.10	2,155.3	1,605.3	3,027.9	2,922.4	105.58	28.679		
13,800.0	11,450.0	13,149.0	10,876.2	59.9	54.7	79.10	2,255.3	1,604.6	3,028.0	2,920.2	107.80	28.088		
13,888.8	11,450.0	13,237.9	10,875.9	60.9	55.8	79.09	2,344.1	1,603.9	3,028.0	2,918.2	109.82	27.572		

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 #135H
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 #135H	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	11,450.0	13,249.0	10,875.9	61.0	55.9	79.09	2,355.3	1,603.8	3,028.0	2,917.9	110.08	27.507		
14,000.0	11,450.0	13,349.0	10,875.5	62.1	57.1	79.08	2,455.3	1,603.0	3,028.1	2,915.7	112.41	26.939		
14,100.0	11,450.0	13,449.0	10,875.2	63.2	58.3	79.08	2,555.2	1,602.2	3,028.1	2,913.3	114.78	26.382		
14,200.0	11,450.0	13,549.0	10,874.9	64.4	59.5	79.07	2,655.2	1,601.4	3,028.2	2,911.0	117.19	25.839		
14,300.0	11,450.0	13,649.0	10,874.5	65.6	60.8	79.06	2,755.2	1,600.6	3,028.2	2,908.6	119.65	25.309		
14,400.0	11,450.0	13,749.0	10,874.2	66.8	62.1	79.06	2,855.2	1,599.9	3,028.3	2,906.1	122.14	24.793		
14,500.0	11,450.0	13,849.0	10,873.9	68.0	63.3	79.05	2,955.2	1,599.1	3,028.3	2,903.6	124.67	24.291		
14,600.0	11,450.0	13,949.0	10,873.6	69.2	64.7	79.05	3,055.2	1,598.3	3,028.4	2,901.1	127.23	23.802		
14,700.0	11,450.0	14,049.0	10,873.2	70.5	66.0	79.04	3,155.2	1,597.5	3,028.4	2,898.6	129.83	23.327		
14,800.0	11,450.0	14,149.0	10,872.9	71.7	67.3	79.03	3,255.2	1,596.7	3,028.5	2,896.0	132.45	22.865		
14,900.0	11,450.0	14,249.0	10,872.6	73.0	68.7	79.03	3,355.2	1,595.9	3,028.5	2,893.4	135.10	22.417		
15,000.0	11,450.0	14,349.0	10,872.2	74.3	70.0	79.02	3,455.2	1,595.1	3,028.6	2,890.8	137.78	21.981		
15,100.0	11,450.0	14,449.0	10,871.9	75.7	71.4	79.01	3,555.2	1,594.4	3,028.6	2,888.1	140.48	21.559		
15,200.0	11,450.0	14,549.0	10,871.6	77.0	72.8	79.01	3,655.2	1,593.6	3,028.7	2,885.4	143.21	21.149		
15,236.3	11,450.0	14,585.3	10,871.4	77.5	73.3	79.01	3,691.5	1,593.3	3,028.7	2,884.5	144.20	21.003		
15,300.0	11,450.0	14,649.0	10,871.2	78.3	74.2	79.00	3,755.2	1,592.8	3,028.0	2,882.1	145.95	20.747		
15,400.0	11,450.0	14,749.0	10,870.9	79.6	75.6	78.96	3,855.1	1,592.0	3,024.2	2,875.5	148.69	20.338		
15,500.0	11,450.0	14,848.7	10,870.6	80.9	77.0	78.90	3,954.8	1,591.2	3,016.9	2,865.5	151.43	19.922		
15,600.0	11,450.0	14,948.1	10,870.2	82.2	78.4	78.81	4,054.2	1,590.4	3,006.2	2,852.1	154.16	19.501		
15,700.0	11,450.0	15,047.0	10,869.9	83.5	79.8	78.70	4,153.2	1,589.7	2,992.1	2,835.3	156.87	19.074		
15,800.0	11,450.0	15,145.4	10,869.6	84.8	81.3	78.55	4,251.5	1,588.9	2,974.7	2,815.1	159.56	18.643		
15,900.0	11,450.0	15,243.1	10,869.3	86.0	82.7	78.38	4,349.2	1,588.1	2,953.9	2,791.7	162.23	18.208		
15,966.5	11,450.0	15,307.6	10,869.0	86.8	83.6	78.25	4,413.8	1,587.6	2,938.2	2,774.2	163.99	17.917		
16,000.0	11,450.0	15,340.1	10,868.9	87.2	84.1	78.25	4,446.2	1,587.4	2,930.1	2,765.3	164.88	17.772		
16,100.0	11,450.0	15,437.6	10,868.6	88.5	85.5	78.24	4,543.7	1,586.6	2,908.3	2,740.7	167.56	17.357		
16,200.0	11,450.0	15,535.7	10,868.3	89.7	87.0	78.24	4,641.9	1,585.8	2,889.7	2,719.4	170.29	16.969		
16,300.0	11,450.0	15,634.5	10,868.0	91.1	88.4	78.23	4,740.6	1,585.0	2,874.6	2,701.5	173.08	16.608		
16,400.0	11,450.0	15,733.8	10,867.6	92.5	89.9	78.22	4,839.9	1,584.3	2,862.8	2,686.9	175.91	16.274		
16,500.0	11,450.0	15,833.4	10,867.3	93.9	91.4	78.21	4,939.5	1,583.5	2,854.4	2,675.7	178.78	15.966		
16,600.0	11,450.0	15,933.3	10,867.0	95.3	92.9	78.21	5,039.4	1,582.7	2,849.5	2,667.8	181.69	15.683		
16,695.1	11,450.0	16,028.4	10,866.7	96.7	94.3	78.20	5,134.5	1,581.9	2,847.9	2,663.4	184.49	15.437		
16,700.0	11,450.0	16,033.2	10,866.6	96.8	94.4	78.20	5,139.4	1,581.9	2,847.9	2,663.3	184.63	15.425		
16,800.0	11,450.0	16,133.2	10,866.3	98.2	95.9	78.19	5,239.3	1,581.1	2,849.8	2,662.2	187.60	15.191		
16,900.0	11,450.0	16,233.1	10,866.0	99.7	97.4	78.19	5,339.2	1,580.3	2,855.1	2,664.5	190.60	14.979		
17,000.0	11,450.0	16,332.7	10,865.6	101.3	98.9	78.18	5,438.8	1,579.6	2,863.8	2,670.2	193.62	14.791		
17,100.0	11,450.0	16,431.9	10,865.3	102.8	100.4	78.17	5,538.0	1,578.8	2,875.9	2,679.2	196.65	14.624		
17,200.0	11,450.0	16,530.7	10,865.0	104.4	101.9	78.17	5,636.8	1,578.0	2,891.4	2,691.7	199.70	14.479		
17,300.0	11,450.0	16,628.8	10,864.7	106.0	103.4	78.16	5,734.9	1,577.2	2,910.2	2,707.5	202.75	14.354		
17,400.0	11,450.0	16,726.2	10,864.3	107.5	104.9	78.15	5,832.3	1,576.5	2,932.4	2,726.6	205.81	14.248		
17,426.1	11,450.0	16,751.5	10,864.3	108.0	105.3	78.15	5,857.6	1,576.3	2,938.8	2,732.2	206.61	14.224		
17,500.0	11,450.0	16,823.2	10,864.0	109.1	106.4	78.29	5,929.3	1,575.7	2,956.1	2,747.3	208.87	14.153		
17,600.0	11,450.0	16,921.0	10,863.7	110.7	107.9	78.45	6,027.1	1,574.9	2,976.8	2,764.8	211.95	14.045		
17,700.0	11,450.0	17,019.5	10,863.4	112.3	109.4	78.58	6,125.5	1,574.2	2,994.0	2,779.0	215.04	13.923		
17,800.0	11,450.0	17,118.5	10,863.0	113.9	111.0	78.68	6,224.5	1,573.4	3,007.9	2,789.8	218.13	13.790		
17,900.0	11,450.0	17,217.9	10,862.7	115.5	112.5	78.75	6,324.0	1,572.6	3,018.4	2,797.2	221.22	13.644		
18,000.0	11,450.0	17,317.6	10,862.4	117.0	114.1	78.80	6,423.7	1,571.8	3,025.5	2,801.2	224.31	13.488		
18,100.0	11,450.0	17,417.6	10,862.0	118.6	115.6	78.82	6,523.6	1,571.0	3,029.1	2,801.8	227.39	13.321		
18,155.7	11,450.0	17,473.3	10,861.9	119.4	116.5	78.82	6,579.3	1,570.6	3,029.7	2,800.6	229.10	13.224		
18,200.0	11,450.0	17,517.6	10,861.7	120.1	117.2	78.82	6,623.6	1,570.3	3,029.7	2,799.3	230.46	13.146		
18,300.0	11,450.0	17,617.6	10,861.4	121.7	118.7	78.82	6,723.6	1,569.5	3,029.8	2,796.2	233.54	12.973		
18,400.0	11,450.0	17,717.5	10,861.1	123.2	120.3	78.81	6,823.6	1,568.7	3,029.8	2,793.2	236.61	12.805		
18,500.0	11,450.0	17,817.5	10,860.7	124.7	121.9	78.80	6,923.6	1,567.9	3,029.9	2,790.2	239.70	12.640		

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 #135H
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 #135H	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		
18,600.0	11,450.0	17,917.5	10,860.4	126.3	123.4	78.80	7,023.6	1,567.1	3,029.9	2,787.1	242.78	12.480		
18,700.0	11,450.0	18,017.5	10,860.1	127.8	125.0	78.79	7,123.6	1,566.3	3,029.9	2,784.1	245.87	12.323		
18,800.0	11,450.0	18,117.5	10,859.7	129.4	126.6	78.78	7,223.6	1,565.5	3,030.0	2,781.0	248.97	12.170		
18,900.0	11,450.0	18,217.5	10,859.4	130.9	128.2	78.78	7,323.6	1,564.8	3,030.0	2,778.0	252.07	12.021		
19,000.0	11,450.0	18,317.5	10,859.1	132.5	129.7	78.77	7,423.6	1,564.0	3,030.1	2,774.9	255.17	11.875		
19,100.0	11,450.0	18,417.5	10,858.7	134.0	131.3	78.77	7,523.6	1,563.2	3,030.1	2,771.8	258.28	11.732		
19,200.0	11,450.0	18,517.5	10,858.4	135.6	132.9	78.76	7,623.6	1,562.4	3,030.2	2,768.8	261.39	11.592		
19,300.0	11,450.0	18,617.5	10,858.1	137.2	134.5	78.75	7,723.6	1,561.6	3,030.2	2,765.7	264.50	11.456		
19,400.0	11,450.0	18,717.5	10,857.7	138.7	136.1	78.75	7,823.6	1,560.8	3,030.2	2,762.6	267.62	11.323		
19,500.0	11,450.0	18,817.5	10,857.4	140.3	137.7	78.74	7,923.6	1,560.0	3,030.3	2,759.5	270.74	11.192		
19,600.0	11,450.0	18,917.5	10,857.1	141.9	139.2	78.74	8,023.5	1,559.3	3,030.3	2,756.5	273.87	11.065		
19,700.0	11,450.0	19,017.5	10,856.7	143.4	140.8	78.73	8,123.5	1,558.5	3,030.4	2,753.4	277.00	10.940		
19,800.0	11,450.0	19,117.5	10,856.4	145.0	142.4	78.72	8,223.5	1,557.7	3,030.4	2,750.3	280.13	10.818		
19,900.0	11,450.0	19,217.5	10,856.1	146.6	144.0	78.72	8,323.5	1,556.9	3,030.5	2,747.2	283.26	10.699		
20,000.0	11,450.0	19,317.5	10,855.7	148.2	145.6	78.71	8,423.5	1,556.1	3,030.5	2,744.1	286.39	10.582		
20,100.0	11,450.0	19,417.5	10,855.4	149.7	147.2	78.70	8,523.5	1,555.3	3,030.6	2,741.0	289.53	10.467		
20,200.0	11,450.0	19,517.5	10,855.1	151.3	148.8	78.70	8,623.5	1,554.5	3,030.6	2,737.9	292.67	10.355		
20,300.0	11,450.0	19,617.5	10,854.8	152.9	150.4	78.69	8,723.5	1,553.8	3,030.6	2,734.8	295.82	10.245		
20,400.0	11,450.0	19,717.5	10,854.4	154.5	152.0	78.69	8,823.5	1,553.0	3,030.7	2,731.7	298.96	10.137		
20,500.0	11,450.0	19,817.5	10,854.1	156.1	153.6	78.68	8,923.5	1,552.2	3,030.7	2,728.6	302.11	10.032		
20,600.0	11,450.0	19,917.5	10,853.8	157.6	155.2	78.67	9,023.5	1,551.4	3,030.8	2,725.5	305.26	9.928		
20,700.0	11,450.0	20,017.5	10,853.4	159.2	156.8	78.67	9,123.5	1,550.6	3,030.8	2,722.4	308.42	9.827		
20,800.0	11,450.0	20,117.5	10,853.1	160.8	158.4	78.66	9,223.5	1,549.8	3,030.9	2,719.3	311.57	9.728		
20,900.0	11,450.0	20,217.5	10,852.8	162.4	160.0	78.65	9,323.5	1,549.0	3,030.9	2,716.2	314.73	9.630		
21,000.0	11,450.0	20,317.5	10,852.4	164.0	161.6	78.65	9,423.5	1,548.3	3,030.9	2,713.1	317.89	9.535		
21,100.0	11,450.0	20,417.5	10,852.1	165.6	163.2	78.64	9,523.5	1,547.5	3,031.0	2,709.9	321.05	9.441		
21,200.0	11,450.0	20,517.5	10,851.8	167.2	164.8	78.64	9,623.5	1,546.7	3,031.0	2,706.8	324.21	9.349		
21,300.0	11,450.0	20,617.5	10,851.4	168.8	166.5	78.63	9,723.5	1,545.9	3,031.1	2,703.7	327.37	9.259		
21,400.0	11,450.0	20,717.5	10,851.1	170.4	168.1	78.62	9,823.5	1,545.1	3,031.1	2,700.6	330.54	9.170		
21,500.0	11,450.0	20,817.5	10,850.8	172.0	169.7	78.62	9,923.5	1,544.3	3,031.2	2,697.5	333.71	9.083		
21,600.0	11,450.0	20,917.5	10,850.4	173.6	171.3	78.61	10,023.5	1,543.5	3,031.2	2,694.3	336.88	8.998		
21,700.0	11,450.0	21,017.5	10,850.1	175.2	172.9	78.61	10,123.5	1,542.8	3,031.3	2,691.2	340.05	8.914		
21,757.9	11,450.0	21,075.4	10,849.9	176.1	173.8	78.60	10,181.3	1,542.3	3,031.3	2,689.4	341.88	8.866 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 #135H
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 #135H	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	89.35	26.9	2,373.1	2,373.3					
100.0	100.0	101.0	99.0	0.1	0.1	-166.59	26.9	2,373.1	2,373.4	2,373.2	0.26	9,100.347		
200.0	200.0	201.0	199.0	0.5	0.5	-166.59	26.9	2,373.1	2,373.9	2,372.9	0.98	2,429.277	ES	
300.0	300.0	301.0	299.0	0.8	0.8	-166.59	26.9	2,373.1	2,374.7	2,373.0	1.69	1,401.608		
400.0	400.0	401.0	399.0	1.2	1.2	-166.60	26.9	2,373.1	2,375.8	2,373.4	2.41	985.232		
500.0	500.0	501.0	499.0	1.6	1.6	-166.61	26.9	2,373.1	2,377.3	2,374.2	3.13	759.827		
600.0	600.0	601.0	599.0	1.9	1.9	-166.62	26.9	2,373.1	2,379.0	2,375.2	3.85	618.564		
700.0	699.9	701.1	698.9	2.3	2.3	-166.63	26.9	2,373.1	2,381.1	2,376.6	4.56	521.771		
800.0	799.9	801.1	798.9	2.6	2.6	-166.64	26.9	2,373.1	2,383.5	2,378.3	5.28	451.328		
900.0	899.9	901.1	898.9	3.0	3.0	-166.65	26.9	2,373.1	2,386.3	2,380.3	6.00	397.784		
1,000.0	999.8	1,001.2	998.8	3.4	3.4	-166.67	26.9	2,373.1	2,389.3	2,382.6	6.72	355.722		
1,100.0	1,099.8	1,101.2	1,098.8	3.7	3.7	-166.69	26.9	2,373.1	2,392.7	2,385.2	7.43	321.820		
1,200.0	1,199.7	1,201.3	1,198.7	4.1	4.1	-166.71	26.9	2,373.1	2,396.4	2,388.2	8.15	293.922		
1,300.0	1,299.6	1,301.4	1,298.6	4.5	4.4	-166.73	26.9	2,373.1	2,400.4	2,391.5	8.87	270.572		
1,400.0	1,399.5	1,401.5	1,398.5	4.8	4.8	-166.75	26.9	2,373.1	2,404.7	2,395.1	9.59	250.749		
1,500.0	1,499.4	1,501.6	1,498.4	5.2	5.2	-166.77	26.9	2,373.1	2,409.3	2,399.0	10.31	233.716		
1,600.0	1,599.3	1,601.7	1,598.3	5.6	5.5	-166.80	26.9	2,373.1	2,414.3	2,403.3	11.03	218.928		
1,700.0	1,699.1	1,701.9	1,698.1	5.9	5.9	-166.83	26.9	2,373.1	2,419.6	2,407.8	11.75	205.974		
1,800.0	1,798.9	1,802.1	1,797.9	6.3	6.2	-166.86	26.9	2,373.1	2,425.2	2,412.7	12.47	194.536		
1,900.0	1,898.8	1,902.2	1,897.8	6.7	6.6	-166.89	26.9	2,373.1	2,431.1	2,418.0	13.19	184.367		
2,000.0	1,998.6	1,997.6	1,997.6	7.0	6.9	-166.92	26.9	2,373.1	2,437.4	2,423.5	13.89	175.492		
2,100.0	2,098.3	2,070.9	2,070.9	7.4	7.2	-166.94	26.7	2,373.5	2,444.5	2,430.0	14.50	168.583		
2,200.0	2,198.1	2,143.4	2,143.4	7.8	7.4	-166.94	26.1	2,374.7	2,453.0	2,437.9	15.10	162.436		
2,300.0	2,297.8	2,215.8	2,215.8	8.1	7.7	-166.94	25.0	2,376.7	2,463.0	2,447.3	15.70	156.908		
2,400.0	2,397.5	2,288.0	2,287.9	8.5	7.9	-166.93	23.5	2,379.5	2,474.3	2,458.0	16.29	151.888		
2,500.0	2,497.2	2,360.0	2,359.7	8.9	8.2	-166.91	21.6	2,383.1	2,487.1	2,470.2	16.88	147.323		
2,600.0	2,596.8	2,431.7	2,431.2	9.3	8.4	-166.88	19.3	2,387.5	2,501.3	2,483.8	17.47	143.169		
2,700.0	2,696.4	2,500.0	2,499.4	9.7	8.6	-166.84	16.7	2,392.4	2,516.8	2,498.8	18.04	139.483		
2,800.0	2,796.0	2,574.2	2,573.2	10.0	8.9	-166.79	13.4	2,398.5	2,533.8	2,515.2	18.64	135.935		
2,900.0	2,895.6	2,644.9	2,643.6	10.4	9.1	-166.73	9.9	2,405.1	2,552.1	2,532.9	19.22	132.788		
3,000.0	2,995.1	2,715.3	2,713.5	10.8	9.4	-166.67	5.9	2,412.5	2,571.9	2,552.1	19.80	129.918		
3,100.0	3,094.6	2,785.4	2,782.9	11.2	9.6	-166.60	1.6	2,420.5	2,593.0	2,572.6	20.37	127.299		
3,200.0	3,194.1	2,877.0	2,873.6	11.6	10.0	-166.50	-4.3	2,431.8	2,615.1	2,594.1	21.04	124.289		
3,300.0	3,293.5	2,974.3	2,970.0	12.0	10.3	-166.40	-10.7	2,443.7	2,637.6	2,615.8	21.74	121.320		
3,400.0	3,392.9	3,071.6	3,066.4	12.4	10.7	-166.30	-17.1	2,455.7	2,660.4	2,637.9	22.44	118.539		
3,500.0	3,492.2	3,168.8	3,162.7	12.7	11.1	-166.20	-23.5	2,467.6	2,683.5	2,660.3	23.15	115.931		
3,600.0	3,591.6	3,266.0	3,258.9	13.1	11.4	-166.11	-29.8	2,479.6	2,706.9	2,683.0	23.85	113.481		
3,700.0	3,690.8	3,363.1	3,355.0	13.5	11.8	-166.02	-36.2	2,491.5	2,730.6	2,706.1	24.56	111.178		
3,800.0	3,790.1	3,460.1	3,451.0	13.9	12.2	-165.93	-42.5	2,503.4	2,754.7	2,729.4	25.27	109.010		
3,900.0	3,889.3	3,557.0	3,547.0	14.3	12.6	-165.85	-48.9	2,515.3	2,779.1	2,753.1	25.98	106.966		
4,000.0	3,988.4	3,653.8	3,642.9	14.7	12.9	-165.77	-55.2	2,527.2	2,803.7	2,777.0	26.69	105.039		
4,100.0	4,087.5	3,750.6	3,738.8	15.2	13.3	-165.69	-61.5	2,539.1	2,828.7	2,801.3	27.41	103.218		
4,200.0	4,186.6	3,847.3	3,834.5	15.6	13.7	-165.61	-67.9	2,551.0	2,854.0	2,825.9	28.12	101.497		
4,300.0	4,285.6	3,943.9	3,930.2	16.0	14.1	-165.54	-74.2	2,562.8	2,879.7	2,850.8	28.83	99.869		
4,400.0	4,384.6	4,040.5	4,025.8	16.4	14.5	-165.47	-80.5	2,574.7	2,905.6	2,876.0	29.55	98.327		
4,500.0	4,483.5	4,136.9	4,121.3	16.8	14.8	-165.40	-86.8	2,586.5	2,931.8	2,901.6	30.27	96.866		
4,600.0	4,582.4	4,233.3	4,216.7	17.2	15.2	-165.33	-93.1	2,598.4	2,958.4	2,927.4	30.98	95.479		
4,700.0	4,681.2	4,329.6	4,312.1	17.6	15.6	-165.27	-99.4	2,610.2	2,985.3	2,953.5	31.70	94.163		
4,800.0	4,780.0	4,425.8	4,407.4	18.1	16.0	-165.21	-105.7	2,622.0	3,012.4	2,980.0	32.42	92.913		
4,900.0	4,878.7	4,521.9	4,502.6	18.5	16.4	-165.15	-112.0	2,633.8	3,039.9	3,006.8	33.14	91.724		
5,000.0	4,977.4	4,617.9	4,597.7	18.9	16.8	-165.09	-118.3	2,645.6	3,067.7	3,033.8	33.86	90.594		
5,100.0	5,076.0	4,713.9	4,692.7	19.3	17.2	-165.04	-124.6	2,657.4	3,095.8	3,061.2	34.58	89.517		

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 #135H
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 #135H	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		
5,180.6	5,155.5	4,808.8	4,769.2	19.7	17.6	-165.00	-129.7	2,666.9	3,118.6	3,083.4	35.23	88.521		
5,200.0	5,174.6	4,809.8	4,787.6	19.8	17.6	-164.99	-130.9	2,669.2	3,124.2	3,088.9	35.30	88.492		
5,300.0	5,273.2	4,905.6	4,882.5	20.2	18.0	-164.95	-137.2	2,680.9	3,152.7	3,116.6	36.03	87.509		
5,400.0	5,371.7	5,001.4	4,977.4	20.6	18.3	-164.92	-143.4	2,692.7	3,181.2	3,144.4	36.75	86.564		
5,500.0	5,470.2	5,097.3	5,072.3	21.1	18.7	-164.88	-149.7	2,704.5	3,209.7	3,172.2	37.47	85.653		
5,600.0	5,568.8	5,206.9	5,167.2	21.5	19.2	-164.85	-156.0	2,716.2	3,238.2	3,199.9	38.25	84.660		
5,700.0	5,667.3	5,288.9	5,262.1	22.0	19.5	-164.81	-162.3	2,728.0	3,266.7	3,227.7	38.92	83.928		
5,755.0	5,721.5	5,341.6	5,314.3	22.2	19.7	-164.79	-165.7	2,734.5	3,282.3	3,243.0	39.32	83.476		
5,800.0	5,765.9	5,384.8	5,357.0	22.4	19.9	-164.78	-168.5	2,739.8	3,295.1	3,255.5	39.65	83.111		
5,900.0	5,864.5	5,545.2	5,516.0	22.8	20.6	-164.75	-178.6	2,758.7	3,323.2	3,282.4	40.71	81.625		
6,000.0	5,963.1	5,982.5	5,952.2	23.3	22.2	-164.88	-191.0	2,782.0	3,344.3	3,301.3	42.93	77.908		
6,100.0	6,061.9	6,108.9	6,060.9	23.7	22.6	-164.96	-191.1	2,782.0	3,359.8	3,316.0	43.73	76.832		
6,200.0	6,160.6	6,189.8	6,159.6	24.1	22.8	-165.04	-191.1	2,782.0	3,374.9	3,330.6	44.38	76.053		
6,300.0	6,259.4	6,288.7	6,258.4	24.6	23.2	-165.11	-191.1	2,782.0	3,389.8	3,344.7	45.08	75.189		
6,400.0	6,358.3	6,387.5	6,357.3	25.0	23.5	-165.19	-191.1	2,782.0	3,404.4	3,358.6	45.79	74.344		
6,500.0	6,457.2	6,486.4	6,456.2	25.4	23.8	-165.26	-191.1	2,782.0	3,418.6	3,372.1	46.50	73.518		
6,600.0	6,556.2	6,585.4	6,555.2	25.8	24.1	-165.32	-191.1	2,782.0	3,432.6	3,385.3	47.21	72.709		
6,700.0	6,655.2	6,684.4	6,654.2	26.3	24.5	-165.39	-191.1	2,782.0	3,446.2	3,398.3	47.92	71.917		
6,800.0	6,754.2	6,783.4	6,753.2	26.7	24.8	-165.45	-191.1	2,782.0	3,459.5	3,410.9	48.63	71.142		
6,900.0	6,853.3	6,882.5	6,852.3	27.1	25.1	-165.51	-191.1	2,782.0	3,472.5	3,423.1	49.34	70.382		
7,000.0	6,952.4	6,981.7	6,951.4	27.5	25.5	-165.57	-191.1	2,782.0	3,485.2	3,435.1	50.05	69.637		
7,100.0	7,051.6	7,080.9	7,050.6	27.9	25.8	-165.63	-191.1	2,782.0	3,497.5	3,446.8	50.76	68.907		
7,200.0	7,150.8	7,180.1	7,149.8	28.3	26.1	-165.69	-191.1	2,782.0	3,509.6	3,458.1	51.47	68.191		
7,300.0	7,250.1	7,279.3	7,249.1	28.7	26.5	-165.74	-191.1	2,782.0	3,521.3	3,469.2	52.18	67.488		
7,400.0	7,349.4	7,378.6	7,348.4	29.1	26.8	-165.79	-191.1	2,782.0	3,532.8	3,479.9	52.89	66.798		
7,500.0	7,448.8	7,478.0	7,447.8	29.6	27.1	-165.85	-191.1	2,782.0	3,543.9	3,490.3	53.60	66.120		
7,600.0	7,548.1	7,577.4	7,547.1	30.0	27.5	-165.89	-191.1	2,782.0	3,554.7	3,500.4	54.31	65.454		
7,700.0	7,647.6	7,676.8	7,646.6	30.4	27.8	-165.94	-191.1	2,782.0	3,565.2	3,510.1	55.02	64.800		
7,800.0	7,747.0	7,776.2	7,746.0	30.7	28.1	-165.99	-191.1	2,782.0	3,575.3	3,519.6	55.73	64.157		
7,900.0	7,846.5	7,875.7	7,845.5	31.1	28.5	-166.03	-191.1	2,782.0	3,585.2	3,528.7	56.44	63.525		
8,000.0	7,946.0	7,975.2	7,945.0	31.5	28.8	-166.07	-191.1	2,782.0	3,594.7	3,537.6	57.15	62.902		
8,100.0	8,045.5	8,074.8	8,044.5	31.9	29.2	-166.11	-191.1	2,782.0	3,603.9	3,546.1	57.86	62.290		
8,200.0	8,145.1	8,174.4	8,144.1	32.3	29.5	-166.15	-191.1	2,782.0	3,612.8	3,554.3	58.57	61.687		
8,300.0	8,244.7	8,274.0	8,243.7	32.7	29.8	-166.19	-191.1	2,782.0	3,621.4	3,562.1	59.28	61.094		
8,400.0	8,344.4	8,373.6	8,343.4	33.1	30.2	-166.23	-191.1	2,782.0	3,629.7	3,569.7	59.99	60.509		
8,500.0	8,444.0	8,473.3	8,443.0	33.5	30.5	-166.26	-191.1	2,782.0	3,637.6	3,576.9	60.69	59.933		
8,600.0	8,543.7	8,573.0	8,542.7	33.8	30.9	-166.29	-191.1	2,782.0	3,645.2	3,583.8	61.40	59.365		
8,700.0	8,643.4	8,672.7	8,642.4	34.2	31.2	-166.32	-191.1	2,782.0	3,652.6	3,590.4	62.11	58.806		
8,800.0	8,743.2	8,772.4	8,742.2	34.6	31.5	-166.35	-191.1	2,782.0	3,659.5	3,596.7	62.82	58.254		
8,900.0	8,843.0	8,872.2	8,842.0	35.0	31.9	-166.38	-191.1	2,782.0	3,666.2	3,602.7	63.53	57.709		
9,000.0	8,942.7	8,972.0	8,941.7	35.3	32.2	-166.41	-191.1	2,782.0	3,672.6	3,608.3	64.24	57.172		
9,100.0	9,042.5	9,071.8	9,041.5	35.7	32.6	-166.43	-191.1	2,782.0	3,678.6	3,613.7	64.94	56.642		
9,200.0	9,142.4	9,171.6	9,141.4	36.1	32.9	-166.46	-191.1	2,782.0	3,684.3	3,618.7	65.65	56.119		
9,300.0	9,242.2	9,271.5	9,241.2	36.4	33.2	-166.48	-191.1	2,782.0	3,689.7	3,623.4	66.36	55.602		
9,400.0	9,342.1	9,371.3	9,341.1	36.8	33.6	-166.50	-191.1	2,782.0	3,694.8	3,627.7	67.07	55.092		
9,500.0	9,442.0	9,471.2	9,441.0	37.1	33.9	-166.52	-191.1	2,782.0	3,699.6	3,631.8	67.77	54.587		
9,600.0	9,541.9	9,571.1	9,540.9	37.5	34.3	-166.54	-191.1	2,782.0	3,704.0	3,635.5	68.48	54.089		
9,700.0	9,641.8	9,671.0	9,640.8	37.9	34.6	-166.56	-191.1	2,782.0	3,708.1	3,638.9	69.19	53.596		
9,800.0	9,741.7	9,770.9	9,740.7	38.2	35.0	-166.57	-191.1	2,782.0	3,711.9	3,642.0	69.89	53.110		
9,900.0	9,841.6	9,870.9	9,840.6	38.6	35.3	-166.59	-191.1	2,782.0	3,715.4	3,644.8	70.60	52.628		
10,000.0	9,941.6	9,970.8	9,940.6	38.9	35.7	-166.60	-191.1	2,782.0	3,718.5	3,647.2	71.30	52.152		
10,100.0	10,041.5	10,070.8	10,040.5	39.3	36.0	-166.61	-191.1	2,782.0	3,721.4	3,649.4	72.01	51.681		

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 #135H
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 #135H	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		
10,200.0	10,141.5	10,170.7	10,140.5	39.6	36.4	-166.62	-191.1	2,782.0	3,723.9	3,651.2	72.71	51.215		
10,300.0	10,241.5	10,270.7	10,240.5	39.9	36.7	-166.63	-191.1	2,782.0	3,726.1	3,652.7	73.42	50.753		
10,400.0	10,341.5	10,370.7	10,340.5	40.3	37.0	-166.64	-191.1	2,782.0	3,728.0	3,653.9	74.12	50.297		
10,500.0	10,441.4	10,443.3	10,413.1	40.6	37.3	-166.65	-190.7	2,782.1	3,729.7	3,655.0	74.71	49.921		
10,600.0	10,541.4	10,487.2	10,456.8	41.0	37.5	-166.70	-187.4	2,782.7	3,732.4	3,657.3	75.17	49.652		
10,700.0	10,641.4	10,530.2	10,499.3	41.3	37.6	-166.80	-181.0	2,783.9	3,736.4	3,660.7	75.61	49.418		
10,800.0	10,741.4	10,572.1	10,540.1	41.6	37.7	-166.95	-171.8	2,785.6	3,741.5	3,665.5	76.01	49.221		
10,900.0	10,841.4	10,600.0	10,566.9	42.0	37.8	-167.07	-164.0	2,787.1	3,748.0	3,671.7	76.33	49.100		
10,935.6	10,877.0	10,626.2	10,591.7	42.1	37.9	88.74	-155.6	2,788.6	3,750.6	3,674.0	76.51	49.020		
10,950.0	10,891.4	10,631.8	10,596.9	42.1	37.9	110.18	-153.6	2,789.0	3,751.7	3,675.2	76.56	49.005		
11,000.0	10,941.3	10,650.0	10,613.8	42.3	38.0	109.59	-146.9	2,790.2	3,757.0	3,680.3	76.71	48.976		
11,050.0	10,990.7	10,670.6	10,632.6	42.4	38.0	108.83	-138.8	2,791.7	3,764.2	3,687.3	76.87	48.970		
11,100.0	11,039.2	10,700.0	10,659.0	42.6	38.1	107.87	-125.9	2,794.1	3,773.2	3,696.1	77.06	48.967		
11,150.0	11,086.5	10,700.0	10,659.0	42.8	38.1	106.83	-125.9	2,794.1	3,783.8	3,706.7	77.10	49.078		
11,200.0	11,132.1	10,728.2	10,683.5	42.9	38.2	105.57	-112.4	2,796.6	3,796.0	3,718.8	77.26	49.131		
11,250.0	11,175.9	10,750.0	10,702.1	43.1	38.2	104.17	-101.1	2,798.7	3,809.8	3,732.4	77.39	49.226		
11,300.0	11,217.3	10,765.8	10,715.3	43.2	38.3	102.63	-92.5	2,800.3	3,824.9	3,747.5	77.49	49.360		
11,350.0	11,256.2	10,784.3	10,730.3	43.3	38.3	100.95	-82.0	2,802.3	3,841.4	3,763.8	77.60	49.504		
11,400.0	11,292.2	10,800.0	10,742.9	43.5	38.3	99.13	-72.7	2,804.0	3,858.9	3,781.2	77.69	49.670		
11,450.0	11,325.0	10,820.4	10,758.8	43.6	38.4	97.22	-60.1	2,806.3	3,877.4	3,799.6	77.81	49.834		
11,500.0	11,354.5	10,850.0	10,781.0	43.7	38.4	95.25	-40.9	2,809.9	3,896.9	3,818.9	77.97	49.978		
11,550.0	11,380.3	10,850.0	10,781.0	43.9	38.4	93.06	-40.9	2,809.9	3,916.9	3,838.9	78.00	50.216		
11,600.0	11,402.2	10,872.3	10,797.0	44.0	38.5	90.93	-25.7	2,812.7	3,937.6	3,859.4	78.14	50.388		
11,650.0	11,420.2	10,900.0	10,816.1	44.1	38.5	88.80	-5.9	2,816.4	3,958.7	3,880.3	78.32	50.542		
11,700.0	11,434.0	10,900.0	10,816.1	44.3	38.5	86.45	-5.9	2,816.4	3,979.9	3,901.6	78.38	50.776		
11,750.0	11,443.6	10,920.4	10,829.6	44.5	38.6	84.26	9.2	2,819.2	4,001.4	3,922.8	78.55	50.941		
11,800.0	11,448.9	10,935.5	10,839.1	44.6	38.6	82.05	20.7	2,821.3	4,022.8	3,944.1	78.70	51.113		
11,835.6	11,450.0	10,950.0	10,848.0	44.8	38.6	80.55	31.9	2,823.4	4,038.0	3,959.1	78.84	51.219		
11,900.0	11,450.0	10,965.1	10,857.0	45.1	38.6	80.79	43.8	2,825.6	4,064.9	3,985.9	79.04	51.427		
12,000.0	11,450.0	11,000.0	10,876.5	45.5	38.7	81.26	72.3	2,830.9	4,105.5	4,026.1	79.44	51.678		
12,100.0	11,450.0	11,032.8	10,893.1	46.1	38.7	81.67	100.1	2,836.0	4,144.3	4,064.5	79.87	51.885		
12,200.0	11,450.0	11,071.5	10,910.7	46.6	38.8	82.07	134.0	2,842.3	4,181.3	4,101.0	80.36	52.033		
12,300.0	11,450.0	11,113.5	10,927.0	47.3	38.8	82.44	172.1	2,849.4	4,216.4	4,135.5	80.89	52.122		
12,400.0	11,450.0	11,150.0	10,938.9	47.9	38.9	82.72	206.0	2,855.6	4,249.4	4,168.0	81.43	52.183		
12,500.0	11,450.0	11,200.0	10,951.6	48.6	39.0	83.01	253.5	2,864.4	4,280.3	4,198.2	82.06	52.159		
12,600.0	11,450.0	12,018.6	10,962.2	49.3	42.8	83.47	1,066.2	2,933.5	4,305.8	4,218.4	87.36	49.285		
12,700.0	11,450.0	12,118.3	10,961.9	50.0	43.5	83.50	1,165.9	2,932.8	4,314.2	4,225.4	88.79	48.590		
12,800.0	11,450.0	12,218.1	10,961.5	50.8	44.3	83.52	1,265.7	2,932.0	4,319.2	4,228.9	90.30	47.831		
12,892.5	11,450.0	12,310.6	10,961.2	51.5	45.0	83.52	1,358.2	2,931.3	4,320.7	4,228.9	91.77	47.081		
12,900.0	11,450.0	12,318.1	10,961.2	51.5	45.1	83.52	1,365.7	2,931.2	4,320.7	4,228.8	91.89	47.018		
13,000.0	11,450.0	12,418.1	10,960.9	52.3	45.9	83.51	1,465.7	2,930.4	4,320.7	4,227.1	93.57	46.175		
13,100.0	11,450.0	12,518.1	10,960.6	53.2	46.8	83.51	1,565.7	2,929.7	4,320.7	4,225.4	95.34	45.322		
13,200.0	11,450.0	12,618.1	10,960.2	54.0	47.7	83.51	1,665.7	2,928.9	4,320.8	4,223.6	97.18	44.462		
13,300.0	11,450.0	12,718.1	10,959.9	54.9	48.7	83.50	1,765.7	2,928.1	4,320.8	4,221.7	99.10	43.602		
13,400.0	11,450.0	12,818.1	10,959.6	55.9	49.7	83.50	1,865.7	2,927.3	4,320.8	4,219.7	101.09	42.744		
13,500.0	11,450.0	12,918.1	10,959.3	56.8	50.7	83.49	1,965.7	2,926.5	4,320.9	4,217.7	103.14	41.892		
13,600.0	11,450.0	13,018.1	10,959.0	57.8	51.8	83.49	2,065.7	2,925.8	4,320.9	4,215.6	105.26	41.048		
13,700.0	11,450.0	13,118.1	10,958.6	58.8	52.9	83.48	2,165.7	2,925.0	4,320.9	4,213.5	107.44	40.216		
13,800.0	11,450.0	13,218.1	10,958.3	59.9	54.0	83.48	2,265.7	2,924.2	4,320.9	4,211.3	109.68	39.396		
13,888.8	11,450.0	13,306.9	10,958.0	60.9	55.0	83.48	2,354.5	2,923.5	4,321.0	4,209.3	111.71	38.681		
13,900.0	11,450.0	13,318.1	10,958.0	61.0	55.2	83.48	2,365.7	2,923.4	4,321.0	4,209.0	111.97	38.592		
14,000.0	11,450.0	13,418.1	10,957.7	62.1	56.3	83.47	2,465.7	2,922.6	4,321.0	4,206.7	114.30	37.803		

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 #135H
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 #135H	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		
14,100.0	11,450.0	13,518.1	10,957.3	63.2	57.6	83.47	2,565.6	2,921.9	4,321.0	4,204.3	116.69	37.031		
14,200.0	11,450.0	13,618.1	10,957.0	64.4	58.8	83.46	2,665.6	2,921.1	4,321.0	4,201.9	119.11	36.277		
14,300.0	11,450.0	13,718.1	10,956.7	65.6	60.0	83.46	2,765.6	2,920.3	4,321.1	4,199.5	121.58	35.540		
14,400.0	11,450.0	13,818.1	10,956.4	66.8	61.3	83.45	2,865.6	2,919.5	4,321.1	4,197.0	124.09	34.823		
14,500.0	11,450.0	13,918.1	10,956.0	68.0	62.6	83.45	2,965.6	2,918.7	4,321.1	4,194.5	126.63	34.123		
14,600.0	11,450.0	14,018.1	10,955.7	69.2	63.9	83.44	3,065.6	2,918.0	4,321.2	4,192.0	129.21	33.443		
14,700.0	11,450.0	14,118.1	10,955.4	70.5	65.2	83.44	3,165.6	2,917.2	4,321.2	4,189.4	131.82	32.781		
14,800.0	11,450.0	14,218.1	10,955.1	71.7	66.5	83.44	3,265.6	2,916.4	4,321.2	4,186.8	134.46	32.138		
14,900.0	11,450.0	14,318.1	10,954.8	73.0	67.9	83.43	3,365.6	2,915.6	4,321.2	4,184.1	137.13	31.513		
15,000.0	11,450.0	14,418.1	10,954.4	74.3	69.2	83.43	3,465.6	2,914.9	4,321.3	4,181.5	139.82	30.906		
15,100.0	11,450.0	14,518.1	10,954.1	75.7	70.6	83.42	3,565.6	2,914.1	4,321.3	4,178.8	142.54	30.316		
15,200.0	11,450.0	14,618.1	10,953.8	77.0	72.0	83.42	3,665.6	2,913.3	4,321.3	4,176.0	145.28	29.744		
15,236.3	11,450.0	14,654.4	10,953.7	77.5	72.5	83.42	3,701.9	2,913.0	4,321.3	4,175.1	146.29	29.540		
15,300.0	11,450.0	14,718.1	10,953.5	78.3	73.4	83.41	3,765.6	2,912.5	4,320.7	4,172.6	148.05	29.184		
15,400.0	11,450.0	14,818.0	10,953.1	79.6	74.8	83.39	3,865.5	2,911.7	4,316.7	4,165.9	150.82	28.623		
15,500.0	11,450.0	14,917.7	10,952.8	80.9	76.2	83.36	3,965.2	2,911.0	4,309.4	4,155.8	153.59	28.058		
15,600.0	11,450.0	15,017.1	10,952.5	82.2	77.6	83.31	4,064.6	2,910.2	4,298.5	4,142.2	156.35	27.493		
15,700.0	11,450.0	15,116.1	10,952.2	83.5	79.0	83.25	4,163.6	2,909.4	4,284.3	4,125.2	159.11	26.927		
15,800.0	11,450.0	15,214.5	10,951.9	84.8	80.4	83.18	4,261.9	2,908.6	4,266.6	4,104.7	161.85	26.362		
15,900.0	11,450.0	15,312.2	10,951.5	86.0	81.9	83.09	4,359.6	2,907.9	4,245.5	4,080.9	164.58	25.797		
15,966.5	11,450.0	15,376.7	10,951.3	86.8	82.8	83.02	4,424.2	2,907.4	4,229.6	4,063.2	166.38	25.422		
16,000.0	11,450.0	15,409.2	10,951.2	87.2	83.3	83.02	4,456.6	2,907.1	4,221.4	4,054.1	167.29	25.235		
16,100.0	11,450.0	15,506.6	10,950.9	88.5	84.7	83.04	4,554.1	2,906.4	4,199.2	4,029.2	170.03	24.697		
16,200.0	11,450.0	15,604.8	10,950.6	89.7	86.1	83.05	4,652.3	2,905.6	4,180.4	4,007.6	172.83	24.188		
16,300.0	11,450.0	15,703.6	10,950.3	91.1	87.6	83.06	4,751.1	2,904.8	4,165.0	3,989.4	175.67	23.710		
16,400.0	11,450.0	15,802.8	10,950.0	92.5	89.1	83.06	4,850.3	2,904.1	4,153.1	3,974.5	178.55	23.260		
16,500.0	11,450.0	15,902.5	10,949.6	93.9	90.6	83.06	4,949.9	2,903.3	4,144.6	3,963.1	181.47	22.839		
16,600.0	11,450.0	16,002.3	10,949.3	95.3	92.1	83.06	5,049.8	2,902.5	4,139.5	3,955.1	184.41	22.447		
16,695.8	11,450.0	16,101.9	10,949.0	96.7	93.6	83.06	5,145.6	2,901.8	4,137.9	3,950.6	187.32	22.090		
16,700.0	11,450.0	16,102.3	10,949.0	96.8	93.6	83.06	5,149.8	2,901.7	4,137.9	3,950.6	187.39	22.082		
16,800.0	11,450.0	16,202.3	10,948.7	98.2	95.1	83.05	5,249.7	2,901.0	4,139.8	3,949.4	190.38	21.745		
16,900.0	11,450.0	16,302.1	10,948.3	99.7	96.6	83.04	5,349.6	2,900.2	4,145.2	3,951.8	193.40	21.433		
17,000.0	11,450.0	16,401.7	10,948.0	101.3	98.1	83.03	5,449.2	2,899.4	4,154.0	3,957.5	196.42	21.148		
17,100.0	11,450.0	16,501.0	10,947.7	102.8	99.6	83.02	5,548.4	2,898.6	4,166.2	3,966.7	199.46	20.887		
17,200.0	11,450.0	16,600.3	10,947.4	104.4	101.1	83.00	5,647.2	2,897.9	4,181.9	3,979.4	202.51	20.650		
17,300.0	11,450.0	16,702.1	10,947.1	106.0	102.7	82.98	5,745.3	2,897.1	4,201.0	3,995.4	205.61	20.432		
17,400.0	11,450.0	16,804.7	10,946.7	107.5	104.2	82.96	5,842.7	2,896.3	4,223.4	4,014.7	208.72	20.235		
17,426.1	11,450.0	16,820.6	10,946.7	108.0	104.5	82.95	5,868.0	2,896.1	4,229.9	4,020.5	209.37	20.203		
17,500.0	11,450.0	16,907.7	10,946.4	109.1	105.8	83.02	5,939.7	2,895.6	4,247.4	4,035.6	211.85	20.049		
17,600.0	11,450.0	17,009.9	10,946.1	110.7	107.4	83.10	6,037.5	2,894.8	4,268.3	4,053.3	214.98	19.854		
17,700.0	11,450.0	17,088.5	10,945.8	112.3	108.6	83.17	6,135.9	2,894.1	4,285.8	4,068.0	217.75	19.682		
17,800.0	11,450.0	17,187.5	10,945.5	113.9	110.1	83.22	6,234.9	2,893.3	4,299.8	4,079.0	220.84	19.470		
17,900.0	11,450.0	17,286.9	10,945.2	115.5	111.7	83.26	6,334.4	2,892.5	4,310.4	4,086.5	223.94	19.248		
18,000.0	11,450.0	17,386.7	10,944.8	117.0	113.2	83.28	6,434.1	2,891.7	4,317.6	4,090.5	227.05	19.016		
18,100.0	11,450.0	17,486.6	10,944.5	118.6	114.8	83.29	6,534.0	2,891.0	4,321.2	4,091.1	230.15	18.776		
18,155.7	11,450.0	17,542.3	10,944.3	119.4	115.7	83.29	6,589.7	2,890.5	4,321.8	4,089.9	231.87	18.639		
18,200.0	11,450.0	17,586.6	10,944.2	120.1	116.4	83.29	6,634.0	2,890.2	4,321.8	4,088.6	233.24	18.529		
18,300.0	11,450.0	17,686.6	10,943.9	121.7	117.9	83.29	6,734.0	2,889.4	4,321.8	4,085.5	236.34	18.286		
18,400.0	11,450.0	17,786.6	10,943.5	123.2	119.5	83.28	6,834.0	2,888.6	4,321.8	4,082.4	239.45	18.049		
18,500.0	11,450.0	17,886.6	10,943.2	124.7	121.0	83.28	6,934.0	2,887.8	4,321.9	4,079.3	242.56	17.818		
18,600.0	11,450.0	17,986.6	10,942.9	126.3	122.6	83.27	7,034.0	2,887.1	4,321.9	4,076.2	245.67	17.592		
18,700.0	11,450.0	18,086.6	10,942.6	127.8	124.2	83.27	7,134.0	2,886.3	4,321.9	4,073.1	248.79	17.371		

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 #135H
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 #135H	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		
18,800.0	11,450.0	18,186.6	10,942.3	129.4	125.8	83.27	7,234.0	2,885.5	4,321.9	4,070.0	251.92	17.156		
18,900.0	11,450.0	18,286.6	10,941.9	130.9	127.3	83.26	7,334.0	2,884.7	4,322.0	4,066.9	255.05	16.946		
19,000.0	11,450.0	18,386.6	10,941.6	132.5	128.9	83.26	7,434.0	2,883.9	4,322.0	4,063.8	258.18	16.740		
19,100.0	11,450.0	18,486.6	10,941.3	134.0	130.5	83.25	7,534.0	2,883.2	4,322.0	4,060.7	261.32	16.539		
19,200.0	11,450.0	18,586.6	10,941.0	135.6	132.1	83.25	7,634.0	2,882.4	4,322.0	4,057.6	264.46	16.343		
19,300.0	11,450.0	18,686.6	10,940.6	137.2	133.7	83.24	7,734.0	2,881.6	4,322.1	4,054.5	267.60	16.151		
19,400.0	11,450.0	18,786.6	10,940.3	138.7	135.2	83.24	7,834.0	2,880.8	4,322.1	4,051.3	270.75	15.963		
19,500.0	11,450.0	18,886.6	10,940.0	140.3	136.8	83.24	7,934.0	2,880.0	4,322.1	4,048.2	273.90	15.780		
19,600.0	11,450.0	18,986.6	10,939.7	141.9	138.4	83.23	8,034.0	2,879.3	4,322.1	4,045.1	277.05	15.600		
19,700.0	11,450.0	19,086.6	10,939.3	143.4	140.0	83.23	8,133.9	2,878.5	4,322.1	4,041.9	280.21	15.425		
19,800.0	11,450.0	19,186.6	10,939.0	145.0	141.6	83.22	8,233.9	2,877.7	4,322.2	4,038.8	283.37	15.253		
19,900.0	11,450.0	19,286.6	10,938.7	146.6	143.2	83.22	8,333.9	2,876.9	4,322.2	4,035.7	286.54	15.084		
20,000.0	11,450.0	19,386.6	10,938.4	148.2	144.8	83.21	8,433.9	2,876.2	4,322.2	4,032.5	289.70	14.919		
20,100.0	11,450.0	19,486.6	10,938.0	149.7	146.4	83.21	8,533.9	2,875.4	4,322.2	4,029.4	292.87	14.758		
20,200.0	11,450.0	19,586.6	10,937.7	151.3	148.0	83.21	8,633.9	2,874.6	4,322.3	4,026.2	296.05	14.600		
20,300.0	11,450.0	19,686.6	10,937.4	152.9	149.6	83.20	8,733.9	2,873.8	4,322.3	4,023.1	299.22	14.445		
20,400.0	11,450.0	19,786.6	10,937.1	154.5	151.2	83.20	8,833.9	2,873.0	4,322.3	4,019.9	302.40	14.293		
20,500.0	11,450.0	19,886.6	10,936.8	156.1	152.8	83.19	8,933.9	2,872.3	4,322.3	4,016.8	305.58	14.145		
20,600.0	11,450.0	19,986.6	10,936.4	157.6	154.4	83.19	9,033.9	2,871.5	4,322.4	4,013.6	308.76	13.999		
20,700.0	11,450.0	20,086.6	10,936.1	159.2	156.0	83.19	9,133.9	2,870.7	4,322.4	4,010.4	311.94	13.856		
20,800.0	11,450.0	20,186.6	10,935.8	160.8	157.6	83.18	9,233.9	2,869.9	4,322.4	4,007.3	315.13	13.716		
20,900.0	11,450.0	20,286.6	10,935.5	162.4	159.2	83.18	9,333.9	2,869.1	4,322.4	4,004.1	318.32	13.579		
21,000.0	11,450.0	20,386.6	10,935.1	164.0	160.8	83.17	9,433.9	2,868.4	4,322.5	4,000.9	321.51	13.444		
21,100.0	11,450.0	20,486.6	10,934.8	165.6	162.4	83.17	9,533.9	2,867.6	4,322.5	3,997.8	324.70	13.312		
21,200.0	11,450.0	20,586.6	10,934.5	167.2	164.0	83.16	9,633.9	2,866.8	4,322.5	3,994.6	327.90	13.182		
21,300.0	11,450.0	20,686.6	10,934.2	168.8	165.6	83.16	9,733.9	2,866.0	4,322.5	3,991.4	331.10	13.055		
21,400.0	11,450.0	20,786.6	10,933.8	170.4	167.2	83.16	9,833.9	2,865.2	4,322.5	3,988.3	334.30	12.930		
21,500.0	11,450.0	20,886.6	10,933.5	172.0	168.8	83.15	9,933.9	2,864.5	4,322.6	3,985.1	337.50	12.808		
21,600.0	11,450.0	20,986.6	10,933.2	173.6	170.5	83.15	10,033.9	2,863.7	4,322.6	3,981.9	340.70	12.687		
21,700.0	11,450.0	21,086.6	10,932.9	175.2	172.1	83.14	10,133.9	2,862.9	4,322.6	3,978.7	343.90	12.569		
21,757.9	11,450.0	21,144.5	10,932.7	176.1	173.0	83.14	10,191.7	2,862.5	4,322.6	3,976.9	345.76	12.502 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 #135H
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 #135H	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
Nina Cortell - Nina Cortell Fed Com #131H - Actual - Actual													Offset Well Error:	0.0 usft
Survey Program: 76-MWD														
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	-90.70	-2.3	-190.2	190.2					
100.0	100.0	101.1	101.1	0.1	0.2	13.45	-2.1	-189.8	189.7	189.4	0.31	609.474		
200.0	200.0	200.7	200.7	0.5	0.5	13.75	-1.2	-189.4	188.7	187.7	1.02	185.217		
300.0	300.0	300.5	300.5	0.8	0.9	14.34	0.5	-189.1	187.6	185.9	1.73	108.248		
400.0	400.0	400.4	400.3	1.2	1.2	15.01	2.4	-188.8	186.3	183.9	2.45	76.053		
500.0	500.0	499.7	499.6	1.6	1.6	15.66	4.1	-188.7	184.8	181.6	3.16	58.437		
600.0	600.0	599.8	599.7	1.9	2.0	16.06	4.9	-189.0	183.4	179.5	3.88	47.297		
700.0	699.9	699.4	699.3	2.3	2.3	16.55	5.9	-189.1	181.4	176.8	4.59	39.537		
800.0	799.9	798.7	798.6	2.6	2.7	16.86	6.2	-189.6	179.6	174.3	5.29	33.926		
900.0	899.9	897.8	897.7	3.0	3.0	17.19	6.4	-190.5	177.8	171.8	6.00	29.638		
1,000.0	999.8	997.6	997.5	3.4	3.4	17.78	7.4	-191.8	176.2	169.5	6.71	26.251		
1,100.0	1,099.8	1,098.1	1,098.0	3.7	3.7	18.42	8.4	-192.9	174.1	166.6	7.43	23.426		
1,200.0	1,199.7	1,198.6	1,198.5	4.1	4.1	19.15	9.4	-193.7	171.3	163.2	8.15	21.024		
1,300.0	1,299.6	1,299.0	1,298.9	4.5	4.4	19.97	10.5	-194.1	168.0	159.2	8.87	18.947		
1,400.0	1,399.5	1,399.4	1,399.3	4.8	4.8	20.87	11.6	-194.3	164.1	154.5	9.59	17.120		
1,500.0	1,499.4	1,499.4	1,499.2	5.2	5.1	21.84	12.5	-194.3	159.8	149.5	10.31	15.504		
1,600.0	1,599.3	1,599.3	1,599.1	5.6	5.5	22.83	13.3	-194.2	155.1	144.1	11.02	14.074		
1,700.0	1,699.1	1,699.5	1,699.3	5.9	5.9	23.90	14.0	-194.1	150.1	138.4	11.74	12.787		
1,800.0	1,798.9	1,799.7	1,799.5	6.3	6.2	25.07	14.5	-193.7	144.6	132.1	12.46	11.608		
1,900.0	1,898.8	1,899.6	1,899.4	6.7	6.6	26.36	15.0	-193.2	138.7	125.5	13.17	10.531		
2,000.0	1,998.6	1,999.5	1,999.4	7.0	6.9	27.78	15.2	-192.6	132.4	118.5	13.88	9.539		
2,100.0	2,098.3	2,099.5	2,099.3	7.4	7.3	29.41	15.5	-191.8	125.8	111.2	14.59	8.619		
2,200.0	2,198.1	2,199.3	2,199.1	7.8	7.6	31.34	15.7	-190.8	118.8	103.5	15.31	7.762		
2,300.0	2,297.8	2,298.9	2,298.7	8.1	8.0	33.62	16.0	-189.8	111.7	95.7	16.03	6.971		
2,400.0	2,397.5	2,398.4	2,398.3	8.5	8.3	36.35	16.4	-188.8	104.6	87.8	16.75	6.245		
2,500.0	2,497.2	2,498.0	2,497.8	8.9	8.7	39.65	16.9	-187.8	97.5	80.0	17.47	5.581		
2,600.0	2,596.8	2,597.6	2,597.5	9.3	9.0	43.69	17.5	-186.8	90.6	72.4	18.21	4.974		
2,700.0	2,696.4	2,697.3	2,697.1	9.7	9.4	48.68	18.2	-185.5	83.8	64.8	18.94	4.421		
2,800.0	2,796.0	2,796.7	2,796.5	10.0	9.7	54.83	19.0	-183.9	77.4	57.7	19.69	3.929		
2,900.0	2,895.6	2,896.0	2,895.8	10.4	10.1	62.29	19.9	-182.3	72.0	51.5	20.44	3.520		
3,000.0	2,995.1	2,995.4	2,995.2	10.8	10.4	71.00	20.9	-180.8	67.9	46.7	21.20	3.203		
3,100.0	3,094.6	3,095.0	3,094.7	11.2	10.8	80.38	21.3	-179.7	65.3	43.3	21.95	2.974		
3,199.4	3,193.5	3,193.8	3,193.6	11.6	11.1	90.51	21.5	-178.5	64.2	41.6	22.68	2.832 CC		
3,200.0	3,194.1	3,194.4	3,194.1	11.6	11.1	90.57	21.5	-178.5	64.2	41.5	22.69	2.831 ES		
3,300.0	3,293.5	3,293.4	3,293.2	12.0	11.5	101.97	22.0	-176.1	65.6	42.2	23.40	2.802		
3,400.0	3,392.9	3,391.8	3,391.5	12.4	11.8	112.96	23.1	-173.4	70.2	46.1	24.09	2.915		
3,500.0	3,492.2	3,490.1	3,489.8	12.7	12.2	121.80	25.3	-171.3	78.1	53.4	24.76	3.156		
3,600.0	3,591.6	3,591.1	3,590.7	13.1	12.5	128.16	27.5	-171.0	87.1	61.6	25.47	3.418		
3,700.0	3,690.8	3,692.1	3,691.6	13.5	12.9	132.28	28.6	-173.5	94.7	68.5	26.17	3.618		
3,800.0	3,790.1	3,792.0	3,791.5	13.9	13.2	135.81	29.0	-176.4	102.2	75.3	26.87	3.802		
3,900.0	3,889.3	3,891.8	3,891.3	14.3	13.5	139.18	28.9	-179.3	109.9	82.3	27.56	3.986		
4,000.0	3,988.4	3,991.8	3,991.2	14.7	13.9	142.47	28.2	-181.9	117.9	89.6	28.25	4.173		
4,100.0	4,087.5	4,091.8	4,091.2	15.2	14.2	145.65	26.8	-184.4	126.0	97.1	28.93	4.354		
4,200.0	4,186.6	4,191.5	4,190.8	15.6	14.6	148.68	25.0	-186.8	134.4	104.8	29.62	4.539		
4,300.0	4,285.6	4,291.2	4,290.5	16.0	14.9	151.44	22.9	-189.4	143.3	113.0	30.31	4.729		
4,400.0	4,384.6	4,391.5	4,390.7	16.4	15.2	153.86	20.8	-192.3	152.5	121.5	31.00	4.918		
4,500.0	4,483.5	4,492.6	4,491.7	16.8	15.6	155.87	18.5	-196.4	161.2	129.5	31.69	5.086		
4,600.0	4,582.4	4,591.2	4,590.2	17.2	15.9	157.48	16.4	-201.1	169.8	137.4	32.39	5.242		
4,700.0	4,681.2	4,688.2	4,687.1	17.6	16.3	158.77	15.5	-205.1	180.1	147.0	33.09	5.443		
4,800.0	4,780.0	4,786.5	4,785.4	18.1	16.6	159.82	15.5	-208.5	191.9	158.1	33.80	5.678		
4,900.0	4,878.7	4,885.6	4,884.4	18.5	16.9	160.81	15.6	-211.9	204.1	169.6	34.50	5.916		
5,000.0	4,977.4	4,984.2	4,983.0	18.9	17.3	161.71	15.7	-215.1	216.9	181.6	35.21	6.159		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,085.1	5,083.8	19.3	17.6	162.52	15.9	-218.5	229.9	194.0	35.93	6.399		
5,180.6	5,155.5	5,168.2	5,166.8	19.7	17.9	163.17	15.4	-222.1	239.7	203.2	36.52	6.564		
5,200.0	5,174.6	5,188.6	5,187.2	19.8	18.0	163.33	15.2	-223.2	241.9	205.3	36.66	6.599		
5,300.0	5,273.2	5,294.8	5,293.2	20.2	18.4	164.13	13.1	-230.0	251.7	214.3	37.37	6.735		
5,400.0	5,371.7	5,399.9	5,397.8	20.6	18.8	164.90	9.5	-239.1	258.9	220.9	38.07	6.802		
5,500.0	5,470.2	5,502.5	5,499.8	21.1	19.1	165.77	4.7	-248.9	264.8	226.0	38.77	6.831		
5,600.0	5,568.8	5,603.8	5,600.4	21.5	19.5	166.77	-1.3	-259.0	269.8	230.3	39.47	6.835		
5,700.0	5,667.3	5,703.8	5,699.7	22.0	19.8	167.79	-7.6	-268.9	274.7	234.5	40.18	6.836		
5,755.0	5,721.5	5,758.8	5,754.3	22.2	20.0	168.37	-11.2	-274.4	277.3	236.8	40.57	6.836		
5,800.0	5,765.9	5,803.3	5,798.5	22.4	20.2	168.82	-14.0	-278.8	279.6	238.7	40.90	6.836		
5,900.0	5,864.5	5,902.3	5,896.9	22.8	20.5	169.77	-20.3	-288.5	284.5	242.9	41.62	6.836		
6,000.0	5,963.1	6,005.0	5,998.8	23.3	20.9	170.69	-26.7	-298.8	289.0	246.6	42.32	6.828		
6,100.0	6,061.9	6,109.2	6,102.1	23.7	21.3	171.66	-34.1	-310.4	291.7	248.7	43.00	6.784		
6,200.0	6,160.6	6,208.9	6,200.8	24.1	21.7	172.59	-41.7	-322.2	293.5	249.8	43.72	6.712		
6,300.0	6,259.4	6,308.1	6,299.1	24.6	22.0	173.51	-49.2	-333.8	295.2	250.7	44.45	6.641		
6,400.0	6,358.3	6,408.7	6,398.7	25.0	22.4	174.33	-56.4	-345.6	296.7	251.5	45.17	6.568		
6,500.0	6,457.2	6,509.4	6,498.4	25.4	22.8	174.97	-62.8	-358.0	297.6	251.7	45.88	6.486		
6,600.0	6,556.2	6,607.9	6,596.0	25.8	23.1	175.47	-68.4	-370.2	298.4	251.8	46.62	6.400		
6,700.0	6,655.2	6,706.7	6,694.0	26.3	23.5	175.87	-73.6	-382.2	299.3	251.9	47.35	6.320		
6,800.0	6,754.2	6,805.9	6,792.3	26.7	23.9	176.24	-78.4	-394.0	300.2	252.1	48.08	6.243		
6,900.0	6,853.3	6,905.0	6,890.6	27.1	24.3	176.60	-83.2	-405.5	301.0	252.2	48.81	6.166		
7,000.0	6,952.4	7,004.0	6,988.8	27.5	24.6	177.16	-88.9	-416.4	301.9	252.3	49.54	6.093		
7,100.0	7,051.6	7,102.5	7,086.6	27.9	25.0	178.00	-95.9	-426.5	302.8	252.5	50.28	6.022		
7,200.0	7,150.8	7,200.6	7,184.0	28.3	25.4	178.84	-102.9	-436.0	304.0	253.0	51.01	5.959		
7,300.0	7,250.1	7,301.8	7,284.4	28.7	25.8	179.68	-109.8	-445.4	305.3	253.6	51.74	5.901		
7,400.0	7,349.4	7,406.6	7,388.4	29.1	26.2	-179.33	-118.0	-456.3	305.1	252.6	52.45	5.816		
7,500.0	7,448.8	7,506.7	7,487.4	29.6	26.6	-178.24	-126.8	-467.7	303.5	250.3	53.19	5.706		
7,600.0	7,548.1	7,604.4	7,584.2	30.0	26.9	-177.10	-135.6	-478.2	302.3	248.3	53.95	5.604		
7,700.0	7,647.6	7,704.2	7,683.1	30.4	27.3	-175.96	-144.2	-488.4	301.3	246.6	54.69	5.509		
7,800.0	7,747.0	7,804.9	7,783.0	30.7	27.7	-175.12	-151.4	-499.4	299.9	244.4	55.43	5.409		
7,900.0	7,846.5	7,903.1	7,880.3	31.1	28.1	-174.52	-157.2	-510.1	298.2	242.0	56.18	5.308		
8,000.0	7,946.0	8,000.7	7,977.3	31.5	28.5	-173.93	-162.7	-520.1	297.0	240.1	56.93	5.218		
8,100.0	8,045.5	8,102.5	8,078.4	31.9	28.9	-173.27	-168.6	-530.4	295.7	238.0	57.67	5.128		
8,200.0	8,145.1	8,204.7	8,179.8	32.3	29.2	-172.48	-175.2	-541.4	293.3	234.9	58.40	5.022		
8,300.0	8,244.7	8,305.3	8,279.6	32.7	29.6	-171.61	-182.0	-552.7	290.1	231.0	59.15	4.905		
8,400.0	8,344.4	8,406.0	8,379.3	33.1	30.0	-170.69	-189.1	-564.2	286.4	226.5	59.91	4.781		
8,500.0	8,444.0	8,506.3	8,478.7	33.5	30.4	-169.84	-195.6	-576.0	282.2	221.6	60.66	4.653		
8,600.0	8,543.7	8,606.1	8,577.6	33.8	30.8	-169.14	-201.2	-588.0	277.6	216.2	61.41	4.520		
8,700.0	8,643.4	8,704.6	8,675.3	34.2	31.2	-168.46	-206.4	-599.5	273.0	210.8	62.17	4.391		
8,800.0	8,743.2	8,803.0	8,772.9	34.6	31.6	-167.77	-211.6	-610.5	268.7	205.7	62.93	4.269		
8,900.0	8,843.0	8,901.2	8,870.5	35.0	32.0	-167.03	-216.7	-620.9	264.6	200.9	63.69	4.154		
9,000.0	8,942.7	9,000.2	8,968.8	35.3	32.4	-166.24	-222.0	-630.9	260.8	196.4	64.46	4.046		
9,100.0	9,042.5	9,100.0	9,068.0	35.7	32.8	-165.49	-226.8	-640.8	256.9	191.6	65.21	3.939		
9,200.0	9,142.4	9,197.6	9,165.1	36.1	33.1	-164.79	-231.3	-650.3	252.9	186.9	65.97	3.833		
9,300.0	9,242.2	9,293.5	9,260.5	36.4	33.5	-163.96	-236.1	-658.2	250.1	183.3	66.73	3.747		
9,400.0	9,342.1	9,390.2	9,356.8	36.8	33.9	-163.03	-241.3	-664.8	248.5	181.0	67.48	3.683		
9,500.0	9,442.0	9,487.6	9,454.0	37.1	34.2	-162.29	-245.6	-670.3	247.8	179.6	68.22	3.633		
9,548.7	9,490.6	9,535.1	9,501.3	37.3	34.4	-162.02	-247.4	-672.6	247.7	179.2	68.57	3.613		
9,600.0	9,541.9	9,584.5	9,550.7	37.5	34.6	-161.81	-248.8	-674.6	247.9	179.0	68.93	3.597		
9,700.0	9,641.8	9,681.0	9,647.1	37.9	34.9	-161.69	-250.4	-677.5	249.1	179.5	69.60	3.578		
9,800.0	9,741.7	9,778.4	9,744.5	38.2	35.3	-161.84	-250.8	-679.1	251.2	180.9	70.26	3.575		
9,900.0	9,841.6	9,876.2	9,842.3	38.6	35.6	-162.03	-251.0	-679.8	253.9	183.0	70.91	3.580		

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 #135H
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 #135H	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		
10,000.0	9,941.6	9,975.3	9,941.4	38.9	35.9	-162.18	-251.4	-679.8	256.9	185.4	71.59	3.589		
10,100.0	10,041.5	10,074.9	10,041.0	39.3	36.3	-162.18	-252.3	-679.8	259.9	187.6	72.28	3.595		
10,200.0	10,141.5	10,174.3	10,140.4	39.6	36.6	-162.10	-253.4	-679.6	262.6	189.6	72.97	3.599		
10,300.0	10,241.5	10,273.6	10,239.8	39.9	36.9	-162.08	-254.2	-679.1	265.3	191.6	73.65	3.602		
10,400.0	10,341.5	10,371.9	10,338.1	40.3	37.3	-162.13	-254.7	-678.2	268.1	193.8	74.30	3.608		
10,500.0	10,441.4	10,470.2	10,436.3	40.6	37.6	-162.23	-254.8	-676.6	271.2	196.2	74.95	3.618		
10,600.0	10,541.4	10,573.5	10,539.6	41.0	37.9	-162.41	-254.4	-675.3	273.7	198.0	75.70	3.615		
10,700.0	10,641.4	10,677.0	10,643.1	41.3	38.3	-162.68	-253.5	-675.1	274.7	198.2	76.44	3.593		
10,800.0	10,741.4	10,781.6	10,747.7	41.6	38.6	-162.83	-252.8	-676.6	273.8	196.6	77.21	3.546		
10,900.0	10,841.4	10,882.4	10,848.4	42.0	39.0	-162.82	-252.8	-679.5	271.2	193.3	77.91	3.481		
10,935.6	10,877.0	10,916.2	10,882.3	42.1	39.1	93.09	-252.6	-680.3	270.4	192.3	78.13	3.461		
10,950.0	10,891.4	10,930.0	10,896.0	42.1	39.1	114.70	-252.5	-680.5	270.2	192.0	78.22	3.455		
10,957.1	10,898.5	10,936.8	10,902.8	42.1	39.2	114.73	-252.4	-680.6	270.2	191.9	78.26	3.453		
11,000.0	10,941.3	10,977.5	10,943.6	42.3	39.3	115.14	-252.0	-681.1	271.0	192.5	78.54	3.451		
11,050.0	10,990.7	11,024.7	10,990.7	42.4	39.5	116.08	-251.2	-681.2	274.2	195.3	78.89	3.476		
11,100.0	11,039.2	11,073.2	11,039.2	42.6	39.6	117.56	-250.3	-681.1	279.8	200.5	79.31	3.528		
11,150.0	11,086.5	11,120.9	11,086.9	42.8	39.8	119.50	-249.6	-681.0	287.9	208.1	79.76	3.609		
11,200.0	11,132.1	11,166.8	11,132.8	42.9	39.9	121.67	-249.2	-681.0	298.8	218.6	80.23	3.724		
11,250.0	11,175.9	11,210.7	11,176.7	43.1	40.1	123.88	-249.0	-681.1	313.0	232.3	80.70	3.879		
11,300.0	11,217.3	11,251.5	11,217.5	43.2	40.2	125.88	-249.0	-681.2	330.9	249.8	81.15	4.078		
11,350.0	11,256.2	11,289.1	11,255.1	43.3	40.4	127.50	-249.3	-681.3	352.7	271.2	81.58	4.324		
11,400.0	11,292.2	11,323.6	11,289.6	43.5	40.5	128.65	-249.7	-681.3	378.6	296.6	81.97	4.618		
11,450.0	11,325.0	11,355.7	11,321.7	43.6	40.6	129.23	-250.2	-681.2	408.2	325.9	82.33	4.958		
11,500.0	11,354.5	11,414.1	11,380.0	43.7	40.8	132.09	-248.0	-681.1	440.8	358.0	82.82	5.322		
11,550.0	11,380.3	11,502.2	11,466.1	43.9	41.0	136.04	-230.3	-681.4	473.3	390.8	82.52	5.736		
11,600.0	11,402.2	11,597.0	11,553.5	44.0	41.3	138.43	-193.8	-682.4	504.3	423.2	81.08	6.220		
11,650.0	11,420.2	11,673.3	11,618.9	44.1	41.5	138.93	-154.7	-684.1	534.5	454.8	79.72	6.705		
11,700.0	11,434.0	11,737.8	11,671.8	44.3	41.6	138.79	-117.7	-686.5	565.6	487.0	78.59	7.197		
11,750.0	11,443.6	11,821.1	11,734.8	44.5	41.7	138.82	-63.5	-689.4	597.0	520.4	76.63	7.791		
11,800.0	11,448.9	11,878.5	11,774.3	44.6	41.8	137.60	-21.8	-690.4	628.9	553.3	75.69	8.310		
11,835.6	11,450.0	11,918.6	11,800.3	44.8	41.9	136.52	8.7	-690.6	652.5	577.5	75.03	8.697		
11,900.0	11,450.0	12,206.7	11,927.4	45.1	42.2	137.91	263.9	-690.5	692.7	624.0	68.72	10.080		
12,000.0	11,450.0	12,365.6	11,947.4	45.5	42.7	135.48	421.5	-692.6	723.3	653.5	69.80	10.363		
12,100.0	11,450.0	12,494.2	11,953.5	46.1	43.3	133.51	549.8	-695.6	746.5	675.0	71.55	10.433		
12,200.0	11,450.0	12,598.3	11,955.0	46.6	43.7	132.05	653.9	-698.6	765.1	691.8	73.27	10.442		
12,300.0	11,450.0	12,699.4	11,955.9	47.3	44.2	130.90	754.9	-701.9	780.6	705.6	74.91	10.420		
12,400.0	11,450.0	12,788.3	11,957.2	47.9	44.7	130.12	843.8	-705.1	793.8	717.5	76.30	10.403		
12,500.0	11,450.0	12,862.0	11,958.2	48.6	45.2	129.46	917.5	-705.2	807.0	729.5	77.50	10.412		
12,600.0	11,450.0	12,960.3	11,959.4	49.3	45.8	128.72	1,015.8	-703.2	819.3	740.2	79.06	10.363		
12,700.0	11,450.0	13,067.8	11,959.7	50.0	46.5	128.10	1,123.2	-701.0	828.2	747.5	80.77	10.254		
12,800.0	11,450.0	13,174.1	11,959.3	50.8	47.3	127.68	1,229.5	-699.4	833.8	751.3	82.45	10.113		
12,892.5	11,450.0	13,281.0	11,958.1	51.5	48.1	127.47	1,336.4	-698.8	835.3	751.2	84.16	9.925		
12,900.0	11,450.0	13,290.1	11,958.0	51.5	48.2	127.46	1,345.4	-698.8	835.3	751.0	84.31	9.907		
13,000.0	11,450.0	13,403.4	11,954.8	52.3	49.2	127.29	1,458.7	-699.7	833.6	747.3	86.21	9.669		
13,100.0	11,450.0	13,488.3	11,952.6	53.2	49.9	127.18	1,543.6	-700.6	831.8	744.3	87.51	9.505		
13,200.0	11,450.0	13,590.4	11,953.5	54.0	50.8	127.26	1,645.7	-702.2	831.6	742.5	89.12	9.332		
13,300.0	11,450.0	13,714.6	11,953.0	54.9	52.0	127.37	1,769.8	-706.3	829.5	738.2	91.29	9.086		
13,400.0	11,450.0	13,789.9	11,951.8	55.9	52.8	127.34	1,845.1	-707.8	827.4	734.9	92.44	8.951		
13,500.0	11,450.0	13,890.8	11,949.5	56.8	53.8	127.17	1,945.9	-707.6	826.8	732.4	94.37	8.761		
13,600.0	11,450.0	14,005.6	11,945.9	57.8	55.0	126.96	2,060.7	-708.3	825.1	728.3	96.76	8.527		
13,700.0	11,450.0	14,089.0	11,944.6	58.8	55.9	126.90	2,144.1	-709.2	823.8	725.5	98.24	8.385		
13,800.0	11,450.0	14,207.3	11,943.1	59.9	57.2	126.87	2,262.3	-711.6	822.0	721.3	100.70	8.163		

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 #135H
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 #135H	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	
13,888.8	11,450.0	14,303.8	11,940.5	60.9	58.3	126.83	2,358.7	-714.7	818.8	716.1	102.71	7.972	
13,900.0	11,450.0	14,314.2	11,940.3	61.0	58.4	126.83	2,369.2	-715.1	818.4	715.5	102.91	7.952	
14,000.0	11,450.0	14,397.8	11,939.1	62.1	59.4	126.87	2,452.6	-718.2	815.3	710.9	104.41	7.809	
14,046.8	11,450.0	14,430.7	11,939.2	62.6	59.8	126.89	2,485.6	-718.8	814.9	710.0	104.93	7.767	
14,100.0	11,450.0	14,472.7	11,939.8	63.2	60.3	126.92	2,527.6	-719.0	815.4	709.8	105.64	7.719	
14,200.0	11,450.0	14,590.1	11,941.4	64.4	61.7	127.04	2,644.9	-720.6	815.8	707.7	108.14	7.544	
14,300.0	11,450.0	14,684.5	11,941.9	65.6	62.8	127.14	2,739.3	-723.2	814.6	704.6	109.97	7.407	
14,301.6	11,450.0	14,685.6	11,941.9	65.6	62.8	127.15	2,740.4	-723.2	814.6	704.6	109.99	7.406	
14,400.0	11,450.0	14,758.7	11,941.8	66.8	63.7	127.06	2,813.5	-721.9	816.5	705.1	111.31	7.335	
14,500.0	11,450.0	14,881.0	11,940.4	68.0	65.2	126.83	2,935.8	-719.1	818.2	703.7	114.43	7.150	
14,600.0	11,450.0	14,995.8	11,937.6	69.2	66.7	126.62	3,050.5	-718.9	817.5	700.2	117.31	6.969	
14,700.0	11,450.0	15,108.0	11,934.0	70.5	68.2	126.43	3,162.6	-720.1	815.3	695.2	120.11	6.788	
14,800.0	11,450.0	15,184.4	11,931.6	71.7	69.2	126.30	3,239.0	-720.7	813.6	691.9	121.72	6.684	
14,800.6	11,450.0	15,184.9	11,931.6	71.8	69.2	126.30	3,239.4	-720.7	813.6	691.8	121.72	6.684	
14,900.0	11,450.0	15,275.0	11,929.7	73.0	70.3	126.07	3,329.5	-718.6	814.7	690.8	123.88	6.577	
15,000.0	11,450.0	15,360.5	11,928.8	74.3	71.5	125.93	3,415.0	-717.1	816.2	690.5	125.78	6.489	
15,100.0	11,450.0	15,443.9	11,931.4	75.7	72.6	125.97	3,498.4	-715.1	820.5	693.1	127.42	6.440	
15,200.0	11,450.0	15,573.9	11,936.5	77.0	74.3	126.15	3,628.2	-713.5	824.7	694.0	130.70	6.310	
15,236.3	11,450.0	15,619.0	11,937.1	77.5	74.9	126.19	3,673.4	-714.0	824.9	693.0	131.84	6.257	
15,300.0	11,450.0	15,686.3	11,937.8	78.3	75.9	126.29	3,740.6	-715.0	824.3	691.0	133.36	6.181	
15,400.0	11,450.0	15,797.1	11,938.0	79.6	77.4	126.60	3,851.4	-717.6	819.9	684.1	135.85	6.036	
15,500.0	11,450.0	15,883.7	11,937.5	80.9	78.6	126.94	3,938.0	-718.5	813.4	676.0	137.40	5.920	
15,600.0	11,450.0	16,001.9	11,936.0	82.2	80.3	127.54	4,056.1	-719.9	803.5	663.6	139.97	5.741	
15,700.0	11,450.0	16,118.4	11,932.4	83.5	81.9	128.37	4,172.5	-723.1	788.7	646.4	142.28	5.543	
15,800.0	11,450.0	16,213.7	11,928.7	84.8	83.3	129.32	4,267.7	-726.8	770.0	626.3	143.63	5.361	
15,900.0	11,450.0	16,317.4	11,925.4	86.0	84.8	130.64	4,371.2	-730.4	749.5	604.6	144.93	5.171	
15,966.5	11,450.0	16,381.6	11,923.4	86.8	85.7	131.68	4,435.4	-733.8	733.6	588.3	145.37	5.047	
16,000.0	11,450.0	16,409.0	11,922.7	87.2	86.1	131.96	4,462.7	-735.2	725.8	580.4	145.39	4.992	
16,100.0	11,450.0	16,488.6	11,921.2	88.5	87.3	132.70	4,542.2	-738.2	705.6	560.3	145.37	4.854	
16,200.0	11,450.0	16,567.3	11,920.7	89.7	88.4	133.32	4,620.9	-739.1	690.9	545.5	145.43	4.751	
16,300.0	11,450.0	16,649.0	11,920.6	91.1	89.6	133.78	4,702.6	-737.3	681.6	535.7	145.90	4.672	
16,400.0	11,450.0	16,742.2	11,921.4	92.5	90.9	134.17	4,795.7	-733.7	676.8	529.6	147.15	4.599	
16,500.0	11,450.0	16,857.3	11,920.6	93.9	92.6	134.35	4,910.7	-729.2	673.5	523.6	149.92	4.492	
16,600.0	11,450.0	16,967.8	11,918.0	95.3	94.2	134.24	5,021.1	-725.9	670.9	518.1	152.84	4.389	
16,700.0	11,450.0	17,078.2	11,914.4	96.8	95.8	133.94	5,131.5	-724.0	669.3	513.2	156.06	4.288	
16,763.9	11,450.0	17,148.7	11,911.5	97.7	96.9	133.64	5,201.9	-723.4	668.7	510.4	158.27	4.225	
16,800.0	11,450.0	17,179.9	11,910.6	98.2	97.3	133.50	5,233.1	-723.3	669.1	509.9	159.18	4.203	
16,900.0	11,450.0	17,303.4	11,905.5	99.7	99.2	132.82	5,356.5	-724.5	670.1	506.7	163.40	4.101	
17,000.0	11,450.0	17,375.0	11,903.9	101.3	100.3	132.46	5,428.1	-725.9	674.0	508.3	165.71	4.067	
17,100.0	11,450.0	17,468.5	11,904.8	102.8	101.7	132.04	5,521.5	-727.7	683.0	514.1	168.86	4.044	
17,200.0	11,450.0	17,563.8	11,906.0	104.4	103.1	131.47	5,616.8	-729.1	695.0	522.6	172.41	4.031	
17,300.0	11,450.0	17,683.5	11,905.6	106.0	104.9	130.44	5,736.5	-731.0	708.9	531.5	177.34	3.997	
17,400.0	11,450.0	17,783.5	11,905.1	107.5	106.4	129.58	5,836.5	-734.9	723.6	542.0	181.60	3.985	
17,426.1	11,450.0	17,805.8	11,905.1	108.0	106.8	129.40	5,858.7	-735.9	728.0	545.4	182.59	3.987	
17,500.0	11,450.0	17,870.3	11,905.6	109.1	107.8	128.59	5,923.1	-738.2	740.6	555.2	185.37	3.995	
17,600.0	11,450.0	17,970.7	11,906.8	110.7	109.3	127.60	6,023.5	-741.9	755.7	566.4	189.27	3.993	
17,700.0	11,450.0	18,066.8	11,907.5	112.3	110.8	126.83	6,119.5	-745.1	768.1	575.3	192.80	3.984	
17,800.0	11,450.0	18,154.7	11,908.0	113.9	112.1	126.22	6,207.4	-746.7	779.0	583.1	195.85	3.977	
17,900.0	11,450.0	18,269.0	11,907.5	115.5	113.9	125.60	6,321.7	-748.0	787.1	587.3	199.85	3.939	
18,000.0	11,450.0	18,378.1	11,903.4	117.0	115.6	125.04	6,430.7	-750.2	789.7	586.0	203.65	3.878	
18,100.0	11,450.0	18,462.5	11,901.5	118.6	116.9	124.81	6,515.0	-751.5	790.8	584.7	206.12	3.836	
18,155.7	11,450.0	18,510.9	11,900.3	119.4	117.6	124.70	6,563.5	-751.3	790.9	583.4	207.50	3.812	

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 #135H
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 #135H	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		
18,200.0	11,450.0	18,560.3	11,898.7	120.1	118.4	124.57	6,612.8	-750.8	790.9	581.7	209.12	3.782		
18,300.0	11,450.0	18,674.2	11,893.6	121.7	120.1	124.21	6,726.6	-750.5	789.1	576.1	212.93	3.706		
18,400.0	11,450.0	18,785.1	11,888.5	123.2	121.8	123.94	6,837.4	-752.1	786.0	569.5	216.48	3.631		
18,500.0	11,450.0	18,873.4	11,885.0	124.7	123.2	123.78	6,925.5	-754.1	782.6	563.6	219.04	3.573		
18,600.0	11,450.0	18,959.2	11,882.6	126.3	124.6	123.62	7,011.3	-754.5	781.2	559.8	221.46	3.528		
18,700.0	11,450.0	19,057.5	11,879.6	127.8	126.1	123.36	7,109.5	-753.4	781.1	556.5	224.54	3.479		
18,800.0	11,450.0	19,166.7	11,876.3	129.4	127.8	123.12	7,218.7	-753.2	780.3	552.2	228.08	3.421		
18,900.0	11,450.0	19,270.7	11,874.0	130.9	129.4	123.00	7,322.7	-754.7	778.5	547.3	231.18	3.367		
19,000.0	11,450.0	19,378.3	11,872.0	132.5	131.1	122.96	7,430.2	-757.4	776.0	541.7	234.29	3.312		
19,073.6	11,450.0	19,428.8	11,871.1	133.6	131.9	122.91	7,480.7	-757.9	775.1	539.6	235.48	3.291		
19,100.0	11,450.0	19,447.9	11,870.8	134.0	132.2	122.87	7,499.8	-757.7	775.2	539.3	235.93	3.286		
19,200.0	11,450.0	19,538.7	11,868.8	135.6	133.6	122.62	7,590.6	-755.2	777.0	538.3	238.69	3.255		
19,300.0	11,450.0	19,615.7	11,867.4	137.2	134.8	122.38	7,667.5	-751.8	780.4	539.7	240.65	3.243		
19,400.0	11,450.0	19,702.7	11,868.9	138.7	136.1	122.25	7,754.3	-746.8	786.8	543.9	242.87	3.240		
19,500.0	11,450.0	19,803.2	11,871.7	140.3	137.7	122.18	7,854.7	-741.5	793.4	547.6	245.79	3.228		
19,600.0	11,450.0	19,906.7	11,875.1	141.9	139.3	122.17	7,958.0	-736.4	799.9	551.1	248.81	3.215		
19,700.0	11,450.0	20,006.1	11,879.4	143.4	140.8	122.26	8,057.2	-732.8	806.0	554.6	251.38	3.206		
19,800.0	11,450.0	20,111.0	11,884.5	145.0	142.5	122.41	8,161.9	-729.3	812.0	557.9	254.18	3.195		
19,900.0	11,450.0	20,223.5	11,891.5	146.6	144.2	122.74	8,274.2	-728.1	816.9	559.9	257.02	3.178		
20,000.0	11,450.0	20,346.7	11,897.9	148.2	146.2	123.11	8,397.2	-728.8	820.0	559.8	260.23	3.151		
20,100.0	11,450.0	20,472.5	11,899.3	149.7	148.2	123.27	8,523.0	-732.0	819.0	555.2	263.76	3.105		
20,200.0	11,450.0	20,599.6	11,897.6	151.3	150.2	123.33	8,650.0	-736.9	815.7	548.4	267.31	3.052		
20,300.0	11,450.0	20,706.0	11,893.4	152.9	151.9	123.27	8,756.1	-742.4	809.9	539.5	270.41	2.995		
20,400.0	11,450.0	20,792.2	11,889.2	154.5	153.3	123.12	8,842.1	-745.7	804.7	531.6	273.13	2.946		
20,500.0	11,450.0	20,875.5	11,885.0	156.1	154.6	122.88	8,925.3	-746.8	801.4	525.6	275.85	2.905		
20,600.0	11,450.0	20,981.3	11,879.3	157.6	156.3	122.52	9,031.0	-747.2	798.8	519.2	279.61	2.857		
20,700.0	11,450.0	21,082.0	11,873.1	159.2	157.9	122.14	9,131.4	-747.9	795.6	512.3	283.23	2.809		
20,800.0	11,450.0	21,162.0	11,869.6	160.8	159.2	121.91	9,211.4	-748.0	793.9	508.1	285.77	2.778		
20,900.0	11,450.0	21,265.4	11,866.8	162.4	160.8	121.70	9,314.7	-747.7	793.3	504.1	289.18	2.743		
21,000.0	11,450.0	21,373.0	11,863.3	164.0	162.5	121.49	9,422.3	-748.7	791.4	498.7	292.76	2.703		
21,100.0	11,450.0	21,461.2	11,862.3	165.6	164.0	121.43	9,510.4	-749.6	790.5	495.3	295.24	2.678		
21,200.0	11,450.0	21,575.8	11,861.5	167.2	165.8	121.44	9,625.0	-751.8	789.2	490.5	298.66	2.642		
21,300.0	11,450.0	21,698.1	11,859.8	168.8	167.8	121.48	9,747.3	-756.7	785.8	483.6	302.14	2.601		
21,400.0	11,450.0	21,812.6	11,858.1	170.4	169.6	121.65	9,861.4	-764.9	779.5	474.5	304.97	2.556		
21,500.0	11,450.0	21,929.4	11,856.1	172.0	171.5	121.91	9,977.7	-775.5	771.5	464.0	307.53	2.509		
21,600.0	11,450.0	22,040.0	11,852.8	173.6	173.3	122.14	10,087.6	-787.3	761.6	451.6	309.97	2.457		
21,700.0	11,450.0	22,116.0	11,850.3	175.2	174.5	122.30	10,163.1	-795.9	751.3	439.2	312.13	2.407		
21,756.2	11,450.0	22,116.0	11,850.3	176.1	174.5	122.30	10,163.1	-795.9	749.2	437.3	311.87	2.402 SF		
21,757.9	11,450.0	22,116.0	11,850.3	176.1	174.5	122.30	10,163.1	-795.9	749.2	437.4	311.83	2.403		

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 #135H
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 #135H	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	-105.83	-31.2	-109.9	114.3					
100.0	100.0	101.0	101.0	0.1	0.1	-1.77	-31.2	-109.9	114.1	113.9	0.26	437.465		
200.0	200.0	201.0	201.0	0.5	0.5	-1.78	-31.2	-109.9	113.6	112.6	0.98	116.273		
300.0	300.0	301.0	301.0	0.8	0.8	-1.79	-31.2	-109.9	112.8	111.1	1.69	66.579		
400.0	400.0	401.0	401.0	1.2	1.2	-1.81	-31.2	-109.9	111.6	109.2	2.41	46.302		
500.0	500.0	501.0	501.0	1.6	1.6	-1.83	-31.2	-109.9	110.2	107.0	3.13	35.215		
600.0	600.0	601.0	601.0	1.9	1.9	-1.86	-31.2	-109.9	108.3	104.5	3.85	28.177		
700.0	699.9	700.9	700.9	2.3	2.3	-1.90	-31.2	-109.9	106.2	101.6	4.56	23.280		
800.0	799.9	800.9	800.9	2.6	2.6	-1.95	-31.2	-109.9	103.7	98.5	5.28	19.650		
900.0	899.9	900.9	900.9	3.0	3.0	-2.00	-31.2	-109.9	100.9	94.9	6.00	16.833		
1,000.0	999.8	1,000.8	1,000.8	3.4	3.4	-2.07	-31.2	-109.9	97.8	91.1	6.71	14.569		
1,100.0	1,099.8	1,100.8	1,100.8	3.7	3.7	-2.14	-31.2	-109.9	94.4	86.9	7.43	12.698		
1,200.0	1,199.7	1,200.7	1,200.7	4.1	4.1	-2.23	-31.2	-109.9	90.6	82.4	8.15	11.116		
1,300.0	1,299.6	1,300.6	1,300.6	4.5	4.4	-2.34	-31.2	-109.9	86.5	77.6	8.87	9.753		
1,400.0	1,399.5	1,400.5	1,400.5	4.8	4.8	-2.46	-31.2	-109.9	82.0	72.4	9.58	8.559		
1,500.0	1,499.4	1,500.4	1,500.4	5.2	5.1	-2.62	-31.2	-109.9	77.2	66.9	10.30	7.500		
1,600.0	1,599.3	1,601.3	1,601.3	5.6	5.5	-3.17	-31.4	-109.1	71.4	60.4	11.01	6.486		
1,700.0	1,699.1	1,702.0	1,702.0	5.9	5.8	-4.69	-32.0	-106.5	63.7	52.0	11.70	5.446		
1,800.0	1,798.9	1,802.4	1,802.3	6.3	6.2	-7.72	-33.1	-102.2	54.4	42.0	12.40	4.385		
1,900.0	1,898.8	1,902.4	1,902.1	6.7	6.5	-13.56	-34.6	-96.2	43.6	30.5	13.09	3.327		
2,000.0	1,998.6	2,001.9	2,001.2	7.0	6.9	-25.65	-36.5	-88.6	32.1	18.3	13.81	2.327		
2,100.0	2,098.3	2,100.8	2,099.7	7.4	7.2	-53.05	-38.7	-79.4	22.9	8.3	14.58	1.572		
2,145.2	2,143.4	2,145.3	2,143.9	7.6	7.4	-72.68	-39.9	-74.7	21.5	6.6	14.94	1.441	Level 3, CC, ES, SF	
2,200.0	2,198.1	2,199.1	2,197.4	7.8	7.6	-97.19	-41.4	-68.6	23.8	8.5	15.31	1.552		
2,300.0	2,297.8	2,303.3	2,294.2	8.1	8.0	-125.88	-44.5	-56.3	36.9	21.0	15.92	2.318		
2,400.0	2,397.5	2,405.5	2,391.0	8.5	8.4	-138.67	-47.7	-43.0	55.3	38.7	16.58	3.336		
2,500.0	2,497.2	2,507.8	2,487.8	8.9	8.7	-145.08	-51.0	-29.8	75.4	58.1	17.28	4.361		
2,600.0	2,596.8	2,589.9	2,584.4	9.3	9.1	-148.88	-54.3	-16.7	96.2	78.3	17.92	5.369		
2,700.0	2,696.4	2,687.4	2,681.1	9.7	9.4	-151.40	-57.5	-3.5	117.6	99.0	18.61	6.317		
2,800.0	2,796.0	2,785.0	2,777.6	10.0	9.8	-153.20	-60.8	9.7	139.4	120.1	19.32	7.218		
2,900.0	2,895.6	2,882.4	2,874.1	10.4	10.2	-154.55	-64.0	22.9	161.6	141.6	20.02	8.074		
3,000.0	2,995.1	2,979.8	2,970.5	10.8	10.6	-155.62	-67.3	36.0	184.2	163.5	20.72	8.888		
3,100.0	3,094.6	3,077.1	3,066.9	11.2	11.0	-156.49	-70.6	49.2	207.1	185.7	21.43	9.665		
3,200.0	3,194.1	3,174.3	3,163.2	11.6	11.3	-157.22	-73.8	62.3	230.4	208.2	22.14	10.406		
3,300.0	3,293.5	3,271.4	3,259.4	12.0	11.7	-157.83	-77.1	75.4	253.9	231.1	22.85	11.115		
3,400.0	3,392.9	3,368.5	3,355.5	12.4	12.1	-158.37	-80.3	88.5	277.8	254.3	23.56	11.795		
3,500.0	3,492.2	3,465.5	3,451.5	12.7	12.5	-158.84	-83.5	101.6	302.1	277.8	24.27	12.448		
3,600.0	3,591.6	3,562.4	3,547.5	13.1	12.9	-159.26	-86.8	114.7	326.6	301.6	24.98	13.075		
3,700.0	3,690.8	3,659.2	3,643.4	13.5	13.3	-159.64	-90.0	127.8	351.4	325.7	25.69	13.680		
3,800.0	3,790.1	3,756.0	3,739.2	13.9	13.7	-159.98	-93.3	140.9	376.6	350.2	26.40	14.264		
3,900.0	3,889.3	3,852.7	3,835.0	14.3	14.1	-160.30	-96.5	153.9	402.1	375.0	27.11	14.829		
4,000.0	3,988.4	3,949.3	3,930.6	14.7	14.5	-160.59	-99.7	167.0	427.9	400.0	27.83	15.375		
4,100.0	4,087.5	4,045.8	4,026.2	15.2	14.9	-160.86	-102.9	180.0	453.9	425.4	28.54	15.905		
4,200.0	4,186.6	4,142.2	4,121.7	15.6	15.3	-161.11	-106.2	193.1	480.4	451.1	29.25	16.420		
4,300.0	4,285.6	4,238.5	4,217.1	16.0	15.7	-161.35	-109.4	206.1	507.1	477.1	29.97	16.920		
4,400.0	4,384.6	4,334.8	4,312.4	16.4	16.1	-161.57	-112.6	219.1	534.1	503.4	30.68	17.406		
4,500.0	4,483.5	4,431.0	4,407.6	16.8	16.5	-161.78	-115.8	232.1	561.4	530.0	31.40	17.880		
4,600.0	4,582.4	4,527.1	4,502.8	17.2	16.8	-161.98	-119.0	245.1	589.1	557.0	32.12	18.343		
4,700.0	4,681.2	4,623.0	4,597.8	17.6	17.2	-162.17	-122.2	258.0	617.0	584.2	32.83	18.794		
4,800.0	4,780.0	4,718.9	4,692.8	18.1	17.6	-162.35	-125.5	271.0	645.3	611.7	33.55	19.235		
4,900.0	4,878.7	4,814.8	4,787.7	18.5	18.0	-162.53	-128.7	283.9	673.9	639.6	34.26	19.667		
5,000.0	4,977.4	4,910.5	4,882.5	18.9	18.4	-162.69	-131.9	296.9	702.7	667.7	34.98	20.089		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,006.1	4,977.2	19.3	18.8	-162.85	-135.1	309.8	731.9	696.2	35.70	20.504		
5,180.6	5,155.5	5,083.1	5,053.4	19.7	19.1	-162.98	-137.6	320.2	755.7	719.4	36.27	20.831		
5,200.0	5,174.6	5,101.6	5,071.8	19.8	19.2	-163.01	-138.2	322.7	761.4	725.0	36.41	20.909		
5,300.0	5,273.2	5,202.9	5,166.3	20.2	19.6	-163.17	-141.4	335.6	791.0	753.8	37.15	21.290		
5,400.0	5,371.7	5,307.4	5,260.9	20.6	20.1	-163.32	-144.6	348.5	820.6	782.7	37.90	21.649		
5,500.0	5,470.2	5,388.1	5,355.5	21.1	20.4	-163.46	-147.8	361.4	850.2	811.6	38.57	22.044		
5,600.0	5,568.8	5,483.6	5,450.0	21.5	20.8	-163.59	-151.0	374.3	879.8	840.5	39.29	22.394		
5,700.0	5,667.3	5,579.1	5,544.6	22.0	21.2	-163.71	-154.2	387.2	909.4	869.4	40.00	22.732		
5,755.0	5,721.5	5,631.6	5,596.6	22.2	21.4	-163.77	-156.0	394.3	925.6	885.3	40.40	22.912		
5,800.0	5,765.9	5,674.6	5,639.2	22.4	21.6	-163.83	-157.4	400.1	939.0	898.2	40.72	23.057		
5,900.0	5,864.5	5,770.2	5,733.9	22.8	22.0	-163.94	-160.6	413.0	968.3	926.8	41.44	23.364		
6,000.0	5,963.1	5,865.9	5,828.6	23.3	22.4	-164.05	-163.8	425.9	997.3	955.1	42.16	23.653		
6,100.0	6,061.9	5,961.7	5,923.5	23.7	22.8	-164.14	-167.0	438.9	1,026.0	983.1	42.88	23.926		
6,200.0	6,160.6	6,057.6	6,018.4	24.1	23.2	-164.23	-170.2	451.8	1,054.4	1,010.8	43.60	24.182		
6,300.0	6,259.4	6,153.5	6,113.4	24.6	23.6	-164.30	-173.4	464.8	1,082.6	1,038.2	44.33	24.422		
6,400.0	6,358.3	6,249.6	6,208.5	25.0	24.0	-164.37	-176.6	477.8	1,110.4	1,065.3	45.05	24.649		
6,500.0	6,457.2	6,345.7	6,303.7	25.4	24.4	-164.43	-179.8	490.7	1,137.9	1,092.1	45.77	24.861		
6,600.0	6,556.2	6,441.9	6,399.0	25.8	24.8	-164.49	-183.1	503.7	1,165.1	1,118.6	46.49	25.059		
6,700.0	6,655.2	6,538.2	6,494.4	26.3	25.2	-164.53	-186.3	516.8	1,192.0	1,144.8	47.22	25.246		
6,800.0	6,754.2	6,634.6	6,589.9	26.7	25.6	-164.58	-189.5	529.8	1,218.6	1,170.6	47.94	25.420		
6,900.0	6,853.3	6,731.1	6,685.4	27.1	26.0	-164.61	-192.7	542.8	1,244.9	1,196.2	48.66	25.582		
7,000.0	6,952.4	6,827.7	6,781.0	27.5	26.4	-164.64	-196.0	555.9	1,270.9	1,221.5	49.39	25.733		
7,100.0	7,051.6	6,924.3	6,876.7	27.9	26.8	-164.67	-199.2	568.9	1,296.5	1,246.4	50.11	25.874		
7,200.0	7,150.8	7,021.1	6,972.5	28.3	27.2	-164.69	-202.4	582.0	1,321.9	1,271.1	50.83	26.005		
7,300.0	7,250.1	7,117.9	7,068.4	28.7	27.6	-164.71	-205.7	595.1	1,347.0	1,295.4	51.56	26.126		
7,400.0	7,349.4	7,259.6	7,209.0	29.1	28.2	-164.74	-209.9	612.1	1,370.3	1,317.7	52.64	26.231		
7,500.0	7,448.8	7,411.1	7,359.9	29.6	28.8	-164.82	-213.0	624.8	1,389.7	1,336.0	53.73	25.867		
7,600.0	7,548.1	7,564.6	7,513.3	30.0	29.3	-164.94	-214.7	631.7	1,404.9	1,350.2	54.73	25.670		
7,700.0	7,647.6	7,700.1	7,648.6	30.4	29.8	-165.09	-215.0	633.0	1,416.2	1,360.6	55.58	25.480		
7,800.0	7,747.0	7,800.7	7,748.0	30.7	30.1	-165.20	-215.0	633.0	1,426.3	1,370.0	56.28	25.342		
7,900.0	7,846.5	7,901.2	7,847.5	31.1	30.4	-165.31	-215.0	633.0	1,436.1	1,379.2	56.99	25.202		
8,000.0	7,946.0	8,001.7	7,947.0	31.5	30.7	-165.42	-215.0	633.0	1,445.7	1,388.0	57.69	25.060		
8,100.0	8,045.5	8,102.1	8,046.5	31.9	31.1	-165.51	-215.0	633.0	1,454.8	1,396.5	58.39	24.916		
8,200.0	8,145.1	8,202.5	8,146.1	32.3	31.4	-165.61	-215.0	633.0	1,463.7	1,404.6	59.09	24.771		
8,300.0	8,244.7	8,302.9	8,245.7	32.7	31.7	-165.70	-215.0	633.0	1,472.3	1,412.5	59.79	24.623		
8,400.0	8,344.4	8,403.3	8,345.4	33.1	32.0	-165.78	-215.0	633.0	1,480.5	1,420.0	60.49	24.474		
8,500.0	8,444.0	8,503.6	8,445.0	33.5	32.3	-165.86	-215.0	633.0	1,488.5	1,427.3	61.20	24.323		
8,600.0	8,543.7	8,603.9	8,544.7	33.8	32.7	-165.94	-215.0	633.0	1,496.1	1,434.2	61.90	24.171		
8,700.0	8,643.4	8,704.2	8,644.4	34.2	33.0	-166.01	-215.0	633.0	1,503.4	1,440.8	62.60	24.017		
8,800.0	8,743.2	8,804.5	8,744.2	34.6	33.3	-166.08	-215.0	633.0	1,510.4	1,447.1	63.30	23.861		
8,900.0	8,843.0	8,904.7	8,844.0	35.0	33.6	-166.15	-215.0	633.0	1,517.0	1,453.0	64.00	23.704		
9,000.0	8,942.7	9,004.9	8,943.7	35.3	33.9	-166.21	-215.0	633.0	1,523.4	1,458.7	64.70	23.546		
9,100.0	9,042.5	9,105.1	9,043.5	35.7	34.3	-166.27	-215.0	633.0	1,529.4	1,464.0	65.40	23.386		
9,200.0	9,142.4	9,205.3	9,143.4	36.1	34.6	-166.32	-215.0	633.0	1,535.1	1,469.0	66.10	23.225		
9,300.0	9,242.2	9,305.4	9,243.2	36.4	34.9	-166.37	-215.0	633.0	1,540.5	1,473.7	66.80	23.062		
9,400.0	9,342.1	9,405.6	9,343.1	36.8	35.3	-166.42	-215.0	633.0	1,545.6	1,478.1	67.50	22.898		
9,500.0	9,442.0	9,505.7	9,443.0	37.1	35.6	-166.47	-215.0	633.0	1,550.3	1,482.1	68.20	22.733		
9,600.0	9,541.9	9,605.8	9,542.9	37.5	35.9	-166.51	-215.0	633.0	1,554.8	1,485.9	68.90	22.567		
9,700.0	9,641.8	9,705.9	9,642.8	37.9	36.2	-166.55	-215.0	633.0	1,558.9	1,489.3	69.60	22.399		
9,800.0	9,741.7	9,806.0	9,742.7	38.2	36.6	-166.58	-215.0	633.0	1,562.7	1,492.4	70.29	22.231		
9,900.0	9,841.6	9,906.0	9,842.6	38.6	36.9	-166.61	-215.0	633.0	1,566.2	1,495.2	70.99	22.061		
10,000.0	9,941.6	10,006.1	9,942.6	38.9	37.2	-166.64	-215.0	633.0	1,569.3	1,497.6	71.69	21.891		

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 #135H
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 #135H	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		
10,100.0	10,041.5	10,106.1	10,042.5	39.3	37.6	-166.67	-215.0	633.0	1,572.2	1,499.8	72.39	21.719		
10,200.0	10,141.5	10,206.2	10,142.5	39.6	37.9	-166.69	-215.0	633.0	1,574.7	1,501.6	73.09	21.546		
10,300.0	10,241.5	10,306.2	10,242.5	39.9	38.2	-166.71	-215.0	633.0	1,576.9	1,503.1	73.78	21.372		
10,400.0	10,341.5	10,406.2	10,342.5	40.3	38.6	-166.73	-215.0	633.0	1,578.8	1,504.3	74.48	21.197		
10,500.0	10,441.4	10,506.2	10,442.4	40.6	38.9	-166.74	-215.0	633.0	1,580.3	1,505.1	75.18	21.021		
10,600.0	10,541.4	10,606.2	10,542.4	41.0	39.2	-166.75	-215.0	633.0	1,581.6	1,505.7	75.87	20.845		
10,700.0	10,641.4	10,706.2	10,642.4	41.3	39.5	-166.76	-215.0	633.0	1,582.5	1,505.9	76.57	20.667		
10,800.0	10,741.4	10,806.2	10,742.4	41.6	39.9	-166.77	-215.0	633.0	1,583.1	1,505.8	77.27	20.489		
10,900.0	10,841.4	10,906.2	10,842.4	42.0	40.2	-166.77	-215.0	633.0	1,583.3	1,505.4	77.96	20.309		
10,935.6	10,877.0	10,929.3	10,878.0	42.1	40.3	89.17	-215.0	633.0	1,583.4	1,505.2	78.16	20.258		
10,950.0	10,891.4	10,943.8	10,892.4	42.1	40.3	110.75	-215.0	633.0	1,583.4	1,505.2	78.26	20.233		
11,000.0	10,941.3	11,006.4	10,942.3	42.3	40.6	110.75	-215.0	633.0	1,584.6	1,506.0	78.64	20.151		
11,050.0	10,990.7	11,043.0	10,991.7	42.4	40.7	110.75	-215.0	633.0	1,587.4	1,508.5	78.93	20.112		
11,100.0	11,039.2	11,108.5	11,040.2	42.6	40.9	110.73	-215.0	633.0	1,591.8	1,512.5	79.31	20.070		
11,150.0	11,086.5	11,138.8	11,087.5	42.8	41.0	110.68	-215.0	633.0	1,597.8	1,518.3	79.57	20.081		
11,200.0	11,132.1	11,184.5	11,133.1	42.9	41.1	110.58	-215.0	633.0	1,605.6	1,525.7	79.87	20.102		
11,250.0	11,175.9	11,228.2	11,176.9	43.1	41.3	110.39	-215.0	633.0	1,615.1	1,534.9	80.16	20.147		
11,300.0	11,217.3	11,269.7	11,218.3	43.2	41.4	110.08	-215.0	633.0	1,626.4	1,546.0	80.44	20.219		
11,350.0	11,256.2	11,308.6	11,257.2	43.3	41.6	109.63	-215.0	633.0	1,639.7	1,559.0	80.70	20.318		
11,400.0	11,292.2	11,344.6	11,293.2	43.5	41.7	108.98	-215.0	633.0	1,654.9	1,573.9	80.94	20.445		
11,450.0	11,325.0	11,377.4	11,326.0	43.6	41.8	108.11	-215.0	633.0	1,672.0	1,590.9	81.17	20.600		
11,500.0	11,354.5	11,406.8	11,355.5	43.7	41.9	106.96	-215.0	633.0	1,691.2	1,609.8	81.37	20.784		
11,550.0	11,380.3	11,436.8	11,385.4	43.9	42.0	105.65	-215.0	633.0	1,712.3	1,630.7	81.57	20.991		
11,600.0	11,402.2	11,486.0	11,434.5	44.0	42.2	104.72	-212.1	632.9	1,735.0	1,653.2	81.83	21.203		
11,650.0	11,420.2	11,543.2	11,491.1	44.1	42.3	103.83	-203.5	632.9	1,759.2	1,677.1	82.08	21.432		
11,700.0	11,434.0	11,700.0	11,533.9	44.3	42.8	102.33	-192.6	632.8	1,784.3	1,701.7	82.63	21.595		
11,750.0	11,443.6	11,707.3	11,645.0	44.5	42.8	102.91	-148.2	632.4	1,810.3	1,727.9	82.45	21.958		
11,800.0	11,448.9	11,846.2	11,758.6	44.6	43.1	103.49	-69.0	631.8	1,836.3	1,753.9	82.43	22.277		
11,835.6	11,450.0	11,995.5	11,855.8	44.8	43.3	104.42	43.9	630.9	1,854.1	1,771.8	82.28	22.533		
11,900.0	11,450.0	12,342.2	11,949.4	45.1	43.6	106.29	372.3	628.3	1,879.6	1,796.9	82.68	22.734		
12,000.0	11,450.0	12,437.0	11,948.8	45.5	43.9	105.82	467.0	627.5	1,910.6	1,827.2	83.39	22.911		
12,100.0	11,450.0	12,532.8	11,948.3	46.1	44.2	105.42	562.8	626.7	1,938.4	1,854.2	84.21	23.019		
12,200.0	11,450.0	12,629.5	11,947.7	46.6	44.6	105.07	659.6	625.9	1,963.0	1,877.9	85.14	23.057		
12,300.0	11,450.0	12,727.2	11,947.1	47.3	45.0	104.77	757.2	625.2	1,984.4	1,898.2	86.17	23.029		
12,400.0	11,450.0	12,825.5	11,946.4	47.9	45.5	104.53	855.5	624.4	2,002.4	1,915.1	87.30	22.937		
12,500.0	11,450.0	12,924.3	11,945.8	48.6	46.1	104.32	954.3	623.6	2,017.1	1,928.6	88.53	22.784		
12,600.0	11,450.0	13,023.6	11,945.1	49.3	46.7	104.17	1,053.6	622.8	2,028.5	1,938.6	89.85	22.575		
12,700.0	11,450.0	13,123.2	11,944.4	50.0	47.4	104.05	1,153.2	622.0	2,036.5	1,945.2	91.26	22.315		
12,800.0	11,450.0	13,223.1	11,943.8	50.8	48.1	103.98	1,253.1	621.2	2,041.1	1,948.4	92.75	22.008		
12,892.5	11,450.0	13,315.6	11,943.1	51.5	48.8	103.94	1,345.6	620.4	2,042.4	1,948.2	94.18	21.685		
12,900.0	11,450.0	13,323.0	11,943.1	51.5	48.9	103.94	1,353.0	620.4	2,042.4	1,948.1	94.30	21.658		
13,000.0	11,450.0	13,423.0	11,942.4	52.3	49.7	103.92	1,453.0	619.6	2,042.2	1,946.3	95.94	21.287		
13,100.0	11,450.0	13,523.0	11,941.8	53.2	50.5	103.91	1,553.0	618.8	2,042.0	1,944.3	97.65	20.911		
13,200.0	11,450.0	13,623.0	11,941.1	54.0	51.4	103.89	1,653.0	618.0	2,041.8	1,942.4	99.45	20.532		
13,300.0	11,450.0	13,723.0	11,940.4	54.9	52.4	103.87	1,753.0	617.2	2,041.6	1,940.3	101.31	20.152		
13,400.0	11,450.0	13,823.0	11,939.8	55.9	53.3	103.85	1,853.0	616.4	2,041.4	1,938.2	103.24	19.773		
13,500.0	11,450.0	13,923.0	11,939.1	56.8	54.3	103.83	1,953.0	615.6	2,041.2	1,936.0	105.24	19.396		
13,600.0	11,450.0	14,023.0	11,938.4	57.8	55.4	103.82	2,053.0	614.8	2,041.0	1,933.7	107.30	19.022		
13,700.0	11,450.0	14,123.0	11,937.8	58.8	56.4	103.80	2,153.0	614.0	2,040.8	1,931.4	109.41	18.653		
13,800.0	11,450.0	14,223.0	11,937.1	59.9	57.5	103.78	2,253.0	613.2	2,040.7	1,929.1	111.58	18.288		
13,888.8	11,450.0	14,311.8	11,936.5	60.9	58.5	103.76	2,341.8	612.4	2,040.5	1,926.9	113.55	17.969		
13,900.0	11,450.0	14,323.0	11,936.4	61.0	58.6	103.76	2,353.0	612.3	2,040.5	1,926.7	113.81	17.929		

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 #135H
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 #135H	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		
14,000.0	11,450.0	14,423.0	11,935.8	62.1	59.8	103.74	2,453.0	611.5	2,040.3	1,924.2	116.08	17.577		
14,100.0	11,450.0	14,523.0	11,935.1	63.2	60.9	103.73	2,552.9	610.7	2,040.1	1,921.7	118.39	17.231		
14,200.0	11,450.0	14,623.0	11,934.4	64.4	62.1	103.71	2,652.9	609.9	2,039.9	1,919.1	120.75	16.893		
14,300.0	11,450.0	14,723.0	11,933.8	65.6	63.3	103.69	2,752.9	609.1	2,039.7	1,916.5	123.15	16.562		
14,400.0	11,450.0	14,823.0	11,933.1	66.8	64.5	103.67	2,852.9	608.3	2,039.5	1,913.9	125.59	16.239		
14,500.0	11,450.0	14,923.0	11,932.4	68.0	65.8	103.65	2,952.9	607.5	2,039.3	1,911.2	128.07	15.924		
14,600.0	11,450.0	15,023.0	11,931.8	69.2	67.1	103.64	3,052.9	606.7	2,039.1	1,908.5	130.58	15.616		
14,700.0	11,450.0	15,123.0	11,931.1	70.5	68.3	103.62	3,152.9	605.9	2,038.9	1,905.8	133.12	15.317		
14,800.0	11,450.0	15,223.0	11,930.4	71.7	69.6	103.60	3,252.9	605.1	2,038.7	1,903.1	135.69	15.025		
14,900.0	11,450.0	15,323.0	11,929.8	73.0	70.9	103.58	3,352.9	604.3	2,038.6	1,900.3	138.29	14.741		
15,000.0	11,450.0	15,423.0	11,929.1	74.3	72.3	103.56	3,452.9	603.5	2,038.4	1,897.4	140.92	14.465		
15,100.0	11,450.0	15,523.0	11,928.4	75.7	73.6	103.55	3,552.9	602.7	2,038.2	1,894.6	143.57	14.196		
15,200.0	11,450.0	15,623.0	11,927.8	77.0	74.9	103.53	3,652.9	601.9	2,038.0	1,891.7	146.25	13.935		
15,236.3	11,450.0	15,659.3	11,927.5	77.5	75.4	103.52	3,689.1	601.6	2,037.9	1,890.7	147.23	13.842		
15,300.0	11,450.0	15,723.0	11,927.1	78.3	76.3	103.52	3,752.8	601.1	2,037.1	1,888.2	148.95	13.677		
15,400.0	11,450.0	15,822.9	11,926.4	79.6	77.7	103.54	3,852.8	600.3	2,033.1	1,881.4	151.64	13.407		
15,500.0	11,450.0	15,922.6	11,925.8	80.9	79.1	103.61	3,952.5	599.5	2,025.6	1,871.3	154.33	13.125		
15,600.0	11,450.0	16,022.0	11,925.1	82.2	80.5	103.72	4,051.8	598.7	2,014.8	1,857.8	157.00	12.833		
15,700.0	11,450.0	16,120.9	11,924.4	83.5	81.8	103.87	4,150.8	597.9	2,000.6	1,841.0	159.66	12.531		
15,800.0	11,450.0	16,219.3	11,923.8	84.8	83.2	104.06	4,249.2	597.1	1,983.1	1,820.8	162.29	12.220		
15,900.0	11,450.0	16,317.0	11,923.1	86.0	84.6	104.29	4,346.9	596.3	1,962.3	1,797.4	164.89	11.900		
15,966.5	11,450.0	16,381.5	11,922.7	86.8	85.5	104.48	4,411.4	595.8	1,946.6	1,780.0	166.61	11.684		
16,000.0	11,450.0	16,414.0	11,922.5	87.2	86.0	104.49	4,443.8	595.6	1,938.6	1,771.1	167.47	11.576		
16,100.0	11,450.0	16,511.5	11,921.8	88.5	87.4	104.53	4,541.3	594.8	1,916.7	1,746.6	170.08	11.269		
16,200.0	11,450.0	16,609.6	11,921.2	89.7	88.8	104.55	4,639.5	594.0	1,898.1	1,725.3	172.75	10.987		
16,300.0	11,450.0	16,708.4	11,920.5	91.1	90.3	104.58	4,738.2	593.2	1,882.9	1,707.4	175.47	10.730		
16,400.0	11,450.0	16,807.7	11,919.8	92.5	91.7	104.59	4,837.5	592.4	1,871.0	1,692.7	178.24	10.497		
16,500.0	11,450.0	16,907.3	11,919.2	93.9	93.2	104.59	4,937.1	591.6	1,862.5	1,681.4	181.06	10.286		
16,600.0	11,450.0	17,007.2	11,918.5	95.3	94.6	104.59	5,036.9	590.8	1,857.3	1,673.4	183.92	10.098		
16,700.0	11,450.0	17,107.1	11,917.9	96.8	96.1	104.57	5,136.9	590.0	1,855.5	1,668.7	186.82	9.932		
16,702.6	11,450.0	17,109.7	11,917.8	96.8	96.2	104.57	5,139.5	590.0	1,855.5	1,668.6	186.90	9.928		
16,800.0	11,450.0	17,207.1	11,917.2	98.2	97.6	104.54	5,236.9	589.2	1,857.1	1,667.4	189.76	9.787		
16,900.0	11,450.0	17,307.0	11,916.5	99.7	99.1	104.51	5,336.7	588.4	1,862.1	1,669.4	192.73	9.662		
17,000.0	11,450.0	17,406.6	11,915.9	101.3	100.6	104.46	5,436.3	587.6	1,870.5	1,674.7	195.73	9.556		
17,100.0	11,450.0	17,505.8	11,915.2	102.8	102.1	104.41	5,535.6	586.8	1,882.2	1,683.4	198.76	9.470		
17,200.0	11,450.0	17,604.6	11,914.5	104.4	103.6	104.35	5,634.3	586.0	1,897.3	1,695.5	201.80	9.402		
17,300.0	11,450.0	17,702.7	11,913.9	106.0	105.0	104.28	5,732.4	585.2	1,915.7	1,710.8	204.86	9.351		
17,400.0	11,450.0	17,800.1	11,913.2	107.5	106.5	104.20	5,829.9	584.4	1,937.5	1,729.5	207.93	9.318		
17,426.1	11,450.0	17,825.4	11,913.1	108.0	106.9	104.18	5,855.1	584.2	1,943.7	1,734.9	208.74	9.312		
17,500.0	11,450.0	17,902.8	11,912.6	109.1	108.1	103.96	5,926.9	583.6	1,960.7	1,749.6	211.10	9.288		
17,600.0	11,450.0	17,994.9	11,911.9	110.7	109.5	103.70	6,024.7	582.9	1,980.9	1,766.9	214.10	9.253		
17,700.0	11,450.0	18,093.4	11,911.3	112.3	111.0	103.48	6,123.1	582.1	1,997.8	1,780.7	217.19	9.199		
17,800.0	11,450.0	18,207.6	11,910.6	113.9	112.7	103.30	6,222.1	581.3	2,011.4	1,790.9	220.51	9.122		
17,900.0	11,450.0	18,308.2	11,909.9	115.5	114.3	103.17	6,321.5	580.5	2,021.6	1,798.0	223.61	9.040		
18,000.0	11,450.0	18,408.5	11,909.3	117.0	115.8	103.07	6,421.2	579.7	2,028.4	1,801.7	226.70	8.947		
18,100.0	11,450.0	18,508.5	11,908.6	118.6	117.3	103.02	6,521.2	578.9	2,031.8	1,802.0	229.77	8.843		
18,155.7	11,450.0	18,547.2	11,908.2	119.4	117.9	103.00	6,576.9	578.4	2,032.2	1,801.0	231.21	8.789		
18,200.0	11,450.0	18,608.5	11,907.9	120.1	118.9	102.99	6,621.2	578.1	2,032.1	1,799.3	232.82	8.728		
18,300.0	11,450.0	18,708.5	11,907.3	121.7	120.4	102.98	6,721.1	577.3	2,031.9	1,796.1	235.88	8.614		
18,400.0	11,450.0	18,808.6	11,906.6	123.2	122.0	102.96	6,821.1	576.5	2,031.7	1,792.8	238.94	8.503		
18,500.0	11,450.0	18,908.6	11,905.9	124.7	123.5	102.94	6,921.1	575.7	2,031.6	1,789.6	242.00	8.395		
18,600.0	11,450.0	19,008.6	11,905.3	126.3	125.1	102.92	7,021.1	574.9	2,031.4	1,786.3	245.08	8.289		

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 #135H
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 #135H	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	
18,700.0	11,450.0	19,108.6	11,904.6	127.8	126.6	102.90	7,121.1	574.1	2,031.2	1,783.0	248.15	8.185	
18,800.0	11,450.0	19,208.6	11,903.9	129.4	128.2	102.89	7,221.1	573.3	2,031.0	1,779.8	251.23	8.084	
18,900.0	11,450.0	19,308.6	11,903.3	130.9	129.8	102.87	7,321.1	572.5	2,030.8	1,776.5	254.32	7.985	
19,000.0	11,450.0	19,391.4	11,902.6	132.5	131.1	102.85	7,421.1	571.7	2,030.6	1,773.5	257.15	7.897	
19,100.0	11,450.0	19,508.6	11,901.9	134.0	132.9	102.83	7,521.1	570.8	2,030.4	1,769.9	260.51	7.794	
19,200.0	11,450.0	19,591.4	11,901.3	135.6	134.2	102.81	7,621.1	570.0	2,030.3	1,766.9	263.34	7.710	
19,300.0	11,450.0	19,691.4	11,900.6	137.2	135.8	102.79	7,721.1	569.2	2,030.1	1,763.6	266.45	7.619	
19,400.0	11,450.0	19,791.4	11,899.9	138.7	137.3	102.78	7,821.1	568.4	2,029.9	1,760.3	269.56	7.530	
19,500.0	11,450.0	19,908.6	11,899.3	140.3	139.2	102.76	7,921.1	567.6	2,029.7	1,756.8	272.93	7.437	
19,600.0	11,450.0	20,008.6	11,898.6	141.9	140.8	102.74	8,021.0	566.8	2,029.5	1,753.5	276.05	7.352	
19,700.0	11,450.0	20,108.6	11,897.9	143.4	142.3	102.72	8,121.0	566.0	2,029.3	1,750.2	279.17	7.269	
19,800.0	11,450.0	20,208.6	11,897.3	145.0	143.9	102.70	8,221.0	565.2	2,029.1	1,746.8	282.29	7.188	
19,900.0	11,450.0	20,308.6	11,896.6	146.6	145.5	102.69	8,321.0	564.4	2,029.0	1,743.5	285.42	7.109	
20,000.0	11,450.0	20,408.6	11,895.9	148.2	147.1	102.67	8,421.0	563.6	2,028.8	1,740.2	288.55	7.031	
20,100.0	11,450.0	20,508.6	11,895.3	149.7	148.7	102.65	8,521.0	562.8	2,028.6	1,736.9	291.69	6.955	
20,200.0	11,450.0	20,591.4	11,894.6	151.3	150.0	102.63	8,621.0	562.0	2,028.4	1,733.9	294.55	6.886	
20,300.0	11,450.0	20,708.6	11,893.9	152.9	151.9	102.61	8,721.0	561.2	2,028.2	1,730.3	297.96	6.807	
20,400.0	11,450.0	20,808.6	11,893.3	154.5	153.4	102.60	8,821.0	560.4	2,028.0	1,726.9	301.11	6.735	
20,500.0	11,450.0	20,908.6	11,892.6	156.1	155.0	102.58	8,921.0	559.6	2,027.9	1,723.6	304.25	6.665	
20,600.0	11,450.0	20,991.4	11,891.9	157.6	156.4	102.56	9,021.0	558.8	2,027.7	1,720.5	307.13	6.602	
20,700.0	11,450.0	21,108.6	11,891.3	159.2	158.2	102.54	9,121.0	558.0	2,027.5	1,716.9	310.55	6.529	
20,800.0	11,450.0	21,208.6	11,890.6	160.8	159.8	102.52	9,221.0	557.2	2,027.3	1,713.6	313.71	6.462	
20,900.0	11,450.0	21,308.6	11,889.9	162.4	161.4	102.51	9,320.9	556.4	2,027.1	1,710.3	316.87	6.397	
21,000.0	11,450.0	21,408.6	11,889.3	164.0	163.0	102.49	9,420.9	555.6	2,026.9	1,706.9	320.03	6.334	
21,100.0	11,450.0	21,508.6	11,888.6	165.6	164.6	102.47	9,520.9	554.8	2,026.8	1,703.6	323.19	6.271	
21,200.0	11,450.0	21,608.6	11,887.9	167.2	166.2	102.45	9,620.9	554.0	2,026.6	1,700.2	326.35	6.210	
21,300.0	11,450.0	21,708.6	11,887.3	168.8	167.8	102.43	9,720.9	553.2	2,026.4	1,696.9	329.52	6.150	
21,400.0	11,450.0	21,791.4	11,886.6	170.4	169.1	102.41	9,820.9	552.4	2,026.2	1,693.8	332.42	6.095	
21,500.0	11,450.0	21,908.6	11,885.9	172.0	171.0	102.40	9,920.9	551.6	2,026.0	1,690.2	335.86	6.032	
21,600.0	11,450.0	22,008.6	11,885.3	173.6	172.6	102.38	10,020.9	550.8	2,025.9	1,686.8	339.04	5.975	
21,700.0	11,450.0	22,091.4	11,884.6	175.2	173.9	102.36	10,120.9	550.0	2,025.7	1,683.7	341.94	5.924	
21,757.9	11,450.0	22,149.2	11,884.2	176.1	174.9	102.35	10,178.7	549.5	2,025.6	1,681.8	343.78	5.892	

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 #135H
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 #135H	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: 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	90.11	-4.2	2,263.3	2,263.3					
100.0	100.0	103.2	103.2	0.1	0.2	-165.83	-4.2	2,263.2	2,263.4	2,263.1	0.28	8,064.398		
200.0	200.0	203.7	203.7	0.5	0.4	-165.84	-4.0	2,263.1	2,263.7	2,262.8	0.88	2,580.522		
300.0	300.0	308.5	308.5	0.8	0.8	-165.85	-3.9	2,262.8	2,264.3	2,262.6	1.61	1,407.745		
400.0	400.0	396.4	396.4	1.2	1.1	-165.85	-3.9	2,262.7	2,265.3	2,263.0	2.27	997.710		
500.0	500.0	496.6	496.6	1.6	1.4	-165.86	-3.9	2,262.9	2,266.9	2,263.9	2.97	763.105		
600.0	600.0	601.1	601.1	1.9	1.8	-165.87	-4.0	2,262.9	2,268.7	2,265.0	3.69	614.734		
700.0	699.9	697.1	697.1	2.3	2.1	-165.88	-4.2	2,262.9	2,270.8	2,266.4	4.38	517.961		
800.0	799.9	795.3	795.3	2.6	2.4	-165.89	-4.2	2,263.1	2,273.4	2,268.3	5.09	446.973		
900.0	899.9	896.9	896.9	3.0	2.8	-165.90	-4.2	2,263.2	2,276.2	2,270.4	5.80	392.447		
1,000.0	999.8	1,003.8	1,003.8	3.4	3.2	-165.92	-4.3	2,263.3	2,279.3	2,272.7	6.53	348.895		
1,100.0	1,099.8	1,103.7	1,103.7	3.7	3.5	-165.94	-4.5	2,263.1	2,282.5	2,275.2	7.24	315.134		
1,200.0	1,199.7	1,250.7	1,250.7	4.1	4.0	-165.94	-5.5	2,261.9	2,285.5	2,277.4	8.12	281.429		
1,300.0	1,299.6	1,436.5	1,436.3	4.5	4.7	-165.90	-9.0	2,254.3	2,285.4	2,276.2	9.13	250.185		
1,400.0	1,399.5	1,619.7	1,618.8	4.8	5.4	-165.79	-15.4	2,239.0	2,280.9	2,270.7	10.14	225.032		
1,500.0	1,499.4	1,693.0	1,691.7	5.2	5.6	-165.73	-18.7	2,232.3	2,276.4	2,265.6	10.76	211.511		
1,600.0	1,599.3	1,761.0	1,759.4	5.6	5.9	-165.68	-21.7	2,227.0	2,273.6	2,262.2	11.37	199.912		
1,700.0	1,699.1	1,829.5	1,827.7	5.9	6.1	-165.62	-24.8	2,222.7	2,272.5	2,260.5	11.98	189.617		
1,717.4	1,716.5	1,842.9	1,841.0	6.0	6.2	-165.61	-25.4	2,221.9	2,272.5	2,260.4	12.10	187.867		
1,800.0	1,798.9	1,906.1	1,904.1	6.3	6.4	-165.57	-28.0	2,218.7	2,272.9	2,260.3	12.62	180.044 ES		
1,900.0	1,898.8	1,977.8	1,975.7	6.7	6.7	-165.54	-30.3	2,215.8	2,274.8	2,261.6	13.24	171.754		
2,000.0	1,998.6	2,062.4	2,060.2	7.0	7.0	-165.54	-31.4	2,213.3	2,278.1	2,264.2	13.91	163.795		
2,100.0	2,098.3	2,177.8	2,175.6	7.4	7.4	-165.59	-31.6	2,210.0	2,281.8	2,267.1	14.68	155.438		
2,200.0	2,198.1	2,314.6	2,312.3	7.8	7.9	-165.67	-30.6	2,204.1	2,284.3	2,268.8	15.52	147.144		
2,300.0	2,297.8	2,402.6	2,400.1	8.1	8.2	-165.71	-30.7	2,199.9	2,286.7	2,270.5	16.20	141.144		
2,400.0	2,397.5	2,479.0	2,476.5	8.5	8.5	-165.71	-31.9	2,196.9	2,290.3	2,273.4	16.84	136.017		
2,500.0	2,497.2	2,564.7	2,562.1	8.9	8.8	-165.67	-34.9	2,194.3	2,295.1	2,277.5	17.51	131.077		
2,600.0	2,596.8	2,652.0	2,649.3	9.3	9.1	-165.62	-38.7	2,192.1	2,300.6	2,282.4	18.19	126.507		
2,700.0	2,696.4	2,748.4	2,745.6	9.7	9.5	-165.59	-41.9	2,189.9	2,306.9	2,288.0	18.90	122.088		
2,800.0	2,796.0	2,879.6	2,876.7	10.0	9.9	-165.56	-46.0	2,186.2	2,312.9	2,293.1	19.74	117.195		
2,900.0	2,895.6	2,973.5	2,970.4	10.4	10.3	-165.53	-49.4	2,182.8	2,318.3	2,297.9	20.44	113.431		
3,000.0	2,995.1	3,043.0	3,039.9	10.8	10.5	-165.53	-50.8	2,181.1	2,325.3	2,304.2	21.05	110.464		
3,100.0	3,094.6	3,109.8	3,106.8	11.2	10.8	-165.56	-51.0	2,180.4	2,333.9	2,312.2	21.64	107.858		
3,200.0	3,194.1	3,196.5	3,193.4	11.6	11.1	-165.64	-49.8	2,180.3	2,343.8	2,321.5	22.29	105.140		
3,300.0	3,293.5	3,325.0	3,321.8	12.0	11.5	-165.81	-46.0	2,179.8	2,353.8	2,330.7	23.10	101.905		
3,400.0	3,392.9	3,490.5	3,487.2	12.4	12.1	-166.07	-39.7	2,175.2	2,361.6	2,337.6	24.04	98.231		
3,500.0	3,492.2	3,601.0	3,597.5	12.7	12.4	-166.23	-35.9	2,170.4	2,368.3	2,343.5	24.79	95.526		
3,600.0	3,591.6	3,682.2	3,678.6	13.1	12.7	-166.34	-33.8	2,167.1	2,375.6	2,350.1	25.44	93.366		
3,700.0	3,690.8	3,763.1	3,759.4	13.5	13.0	-166.40	-33.2	2,164.4	2,384.0	2,357.9	26.09	91.359		
3,800.0	3,790.1	3,850.4	3,846.7	13.9	13.3	-166.41	-35.5	2,162.2	2,393.4	2,366.7	26.77	89.403		
3,900.0	3,889.3	3,947.6	3,943.7	14.3	13.7	-166.32	-42.0	2,160.1	2,403.5	2,376.0	27.49	87.441		
4,000.0	3,988.4	4,044.7	4,040.2	14.7	14.0	-166.14	-51.9	2,158.0	2,413.9	2,385.7	28.20	85.583		
4,100.0	4,087.5	4,155.7	4,150.6	15.2	14.4	-165.95	-63.3	2,155.5	2,424.6	2,395.6	28.98	83.664		
4,200.0	4,186.6	4,311.1	4,305.5	15.6	15.0	-165.81	-74.3	2,149.9	2,434.2	2,404.3	29.92	81.353		
4,300.0	4,285.6	4,519.8	4,513.4	16.0	15.8	-165.74	-84.3	2,135.2	2,440.9	2,409.8	31.02	78.681		
4,400.0	4,384.6	4,629.7	4,622.6	16.4	16.2	-165.66	-91.3	2,124.5	2,444.9	2,413.1	31.79	76.899		
4,500.0	4,483.5	4,705.5	4,697.9	16.8	16.5	-165.62	-95.9	2,117.4	2,449.8	2,417.4	32.46	75.475		
4,600.0	4,582.4	4,845.1	4,836.7	17.2	17.0	-165.57	-103.0	2,104.6	2,455.3	2,422.0	33.32	73.684		
4,700.0	4,681.2	4,943.2	4,934.2	17.6	17.4	-165.53	-108.1	2,094.5	2,459.9	2,425.8	34.06	72.224		
4,800.0	4,780.0	5,017.0	5,007.5	18.1	17.7	-165.51	-111.9	2,087.1	2,465.1	2,430.3	34.72	70.998		
4,900.0	4,878.7	5,090.4	5,080.5	18.5	18.0	-165.49	-115.3	2,080.5	2,471.7	2,436.3	35.38	69.868		
5,000.0	4,977.4	5,175.6	5,165.4	18.9	18.3	-165.49	-118.7	2,073.9	2,479.7	2,443.6	36.07	68.751		

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 #135H
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 #135H	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: 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		
5,100.0	5,076.0	5,267.5	5,257.0	19.3	18.6	-165.49	-122.3	2,067.0	2,488.3	2,451.5	36.78	67.654		
5,180.6	5,155.5	5,341.0	5,330.2	19.7	18.9	-165.49	-125.0	2,061.8	2,495.8	2,458.4	37.35	66.816		
5,200.0	5,174.6	5,358.7	5,347.9	19.8	19.0	-165.50	-125.6	2,060.6	2,497.6	2,460.1	37.49	66.620		
5,300.0	5,273.2	5,453.3	5,442.2	20.2	19.3	-165.51	-129.1	2,054.1	2,507.4	2,469.1	38.21	65.615		
5,400.0	5,371.7	5,566.7	5,555.2	20.6	19.8	-165.53	-133.2	2,046.1	2,516.8	2,477.8	39.00	64.531		
5,500.0	5,470.2	5,658.7	5,646.9	21.1	20.1	-165.54	-136.3	2,039.4	2,526.0	2,486.3	39.71	63.604		
5,600.0	5,568.8	5,730.0	5,718.0	21.5	20.4	-165.56	-138.5	2,034.8	2,536.1	2,495.8	40.35	62.852		
5,700.0	5,667.3	5,802.3	5,790.2	22.0	20.6	-165.58	-140.5	2,031.0	2,547.3	2,506.4	40.98	62.153		
5,755.0	5,721.5	5,853.2	5,841.1	22.2	20.8	-165.60	-141.9	2,028.6	2,553.9	2,512.5	41.38	61.724		
5,800.0	5,765.9	5,903.0	5,890.8	22.4	21.0	-165.62	-143.3	2,026.2	2,559.1	2,517.4	41.73	61.331		
5,900.0	5,864.5	6,012.1	5,999.7	22.8	21.4	-165.66	-146.4	2,020.7	2,570.2	2,527.7	42.50	60.475		
6,000.0	5,963.1	6,075.7	6,063.2	23.3	21.7	-165.68	-148.0	2,017.8	2,581.6	2,538.5	43.09	59.905		
6,100.0	6,061.9	6,158.2	6,145.6	23.7	22.0	-165.73	-149.4	2,015.0	2,593.8	2,550.0	43.76	59.276		
6,200.0	6,160.6	6,259.0	6,246.4	24.1	22.3	-165.78	-151.3	2,011.7	2,605.8	2,561.3	44.49	58.563		
6,300.0	6,259.4	6,357.2	6,344.5	24.6	22.7	-165.83	-153.1	2,008.5	2,617.4	2,572.2	45.22	57.880		
6,400.0	6,358.3	6,464.5	6,451.7	25.0	23.1	-165.88	-155.0	2,004.9	2,628.7	2,582.7	45.99	57.164		
6,500.0	6,457.2	6,561.9	6,549.1	25.4	23.4	-165.92	-156.6	2,001.4	2,639.5	2,592.7	46.71	56.510		
6,600.0	6,556.2	6,661.1	6,648.2	25.8	23.8	-165.97	-158.2	1,998.0	2,650.0	2,602.6	47.44	55.863		
6,700.0	6,655.2	6,765.7	6,752.7	26.3	24.2	-166.01	-159.9	1,994.3	2,660.1	2,611.9	48.19	55.201		
6,800.0	6,754.2	6,869.3	6,856.2	26.7	24.5	-166.06	-161.5	1,990.4	2,669.7	2,620.8	48.94	54.556		
6,900.0	6,853.3	6,972.3	6,959.1	27.1	24.9	-166.10	-163.0	1,986.4	2,678.9	2,629.2	49.68	53.922		
7,000.0	6,952.4	7,069.6	7,056.3	27.5	25.3	-166.14	-164.4	1,982.6	2,687.7	2,637.3	50.40	53.328		
7,100.0	7,051.6	7,167.9	7,154.6	27.9	25.6	-166.18	-165.9	1,978.9	2,696.4	2,645.2	51.12	52.742		
7,200.0	7,150.8	7,273.9	7,260.5	28.3	26.0	-166.21	-167.6	1,974.6	2,704.4	2,652.5	51.88	52.129		
7,300.0	7,250.1	7,370.5	7,357.0	28.7	26.4	-166.25	-169.1	1,970.8	2,712.2	2,659.7	52.59	51.569		
7,400.0	7,349.4	7,465.6	7,452.0	29.1	26.7	-166.28	-170.4	1,967.1	2,719.8	2,666.5	53.30	51.025		
7,500.0	7,448.8	7,562.4	7,548.7	29.6	27.1	-166.31	-171.7	1,963.6	2,727.3	2,673.3	54.02	50.489		
7,600.0	7,548.1	7,667.7	7,654.0	30.0	27.4	-166.34	-173.2	1,959.6	2,734.4	2,679.6	54.77	49.926		
7,700.0	7,647.6	7,776.7	7,762.8	30.4	27.8	-166.36	-175.1	1,955.3	2,740.9	2,685.3	55.53	49.354		
7,800.0	7,747.0	7,879.5	7,865.4	30.7	28.2	-166.35	-178.5	1,950.9	2,746.8	2,690.5	56.28	48.807		
7,900.0	7,846.5	7,990.9	7,976.6	31.1	28.6	-166.31	-183.3	1,945.9	2,752.2	2,695.1	57.06	48.233		
8,000.0	7,946.0	8,052.4	8,038.1	31.5	28.9	-166.29	-185.7	1,943.5	2,757.7	2,700.1	57.63	47.854		
8,100.0	8,045.5	8,132.7	8,118.3	31.9	29.2	-166.27	-188.4	1,941.2	2,764.1	2,705.8	58.27	47.436		
8,200.0	8,145.1	8,227.3	8,212.8	32.3	29.5	-166.26	-191.3	1,938.9	2,770.5	2,711.5	58.97	46.979		
8,300.0	8,244.7	8,321.1	8,306.6	32.7	29.8	-166.24	-194.2	1,936.7	2,776.7	2,717.1	59.67	46.533		
8,400.0	8,344.4	8,430.3	8,415.6	33.1	30.2	-166.23	-197.3	1,934.2	2,782.7	2,722.3	60.44	46.042		
8,500.0	8,444.0	8,542.8	8,528.1	33.5	30.6	-166.23	-199.4	1,931.1	2,787.9	2,726.6	61.22	45.539		
8,600.0	8,543.7	8,640.3	8,625.6	33.8	31.0	-166.23	-201.4	1,928.1	2,792.5	2,730.6	61.93	45.090		
8,700.0	8,643.4	8,738.6	8,723.8	34.2	31.3	-166.23	-203.5	1,925.3	2,796.9	2,734.3	62.65	44.645		
8,800.0	8,743.2	8,850.9	8,835.9	34.6	31.8	-166.22	-205.7	1,921.9	2,800.8	2,737.4	63.42	44.160		
8,900.0	8,843.0	8,956.2	8,941.2	35.0	32.1	-166.23	-207.3	1,918.2	2,804.0	2,739.8	64.17	43.696		
9,000.0	8,942.7	9,043.6	9,028.6	35.3	32.5	-166.21	-209.4	1,915.4	2,807.1	2,742.2	64.84	43.294		
9,100.0	9,042.5	9,141.9	9,126.7	35.7	32.8	-166.19	-212.2	1,912.4	2,810.1	2,744.5	65.55	42.867		
9,200.0	9,142.4	9,229.3	9,214.1	36.1	33.1	-166.19	-213.4	1,909.9	2,812.9	2,746.7	66.22	42.482		
9,300.0	9,242.2	9,306.0	9,290.8	36.4	33.4	-166.21	-213.6	1,908.3	2,816.3	2,749.4	66.82	42.145		
9,400.0	9,342.1	9,395.3	9,380.1	36.8	33.7	-166.24	-213.4	1,907.0	2,819.9	2,752.4	67.48	41.786		
9,500.0	9,442.0	9,480.5	9,465.3	37.1	34.0	-166.26	-213.1	1,906.1	2,823.5	2,755.4	68.12	41.449		
9,600.0	9,541.9	9,583.5	9,568.2	37.5	34.4	-166.29	-212.9	1,905.2	2,827.2	2,758.3	68.84	41.067		
9,700.0	9,641.8	9,693.7	9,678.5	37.9	34.8	-166.30	-213.5	1,904.0	2,830.2	2,760.6	69.60	40.661		
9,800.0	9,741.7	9,794.9	9,779.7	38.2	35.1	-166.29	-215.1	1,902.7	2,832.6	2,762.3	70.32	40.279		
9,900.0	9,841.6	9,884.7	9,869.4	38.6	35.4	-166.28	-216.5	1,901.6	2,834.9	2,763.9	70.99	39.935		
10,000.0	9,941.6	9,969.8	9,954.5	38.9	35.7	-166.29	-216.7	1,901.0	2,837.3	2,765.7	71.62	39.617		

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 #135H
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 #135H	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: 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		
10,100.0	10,041.5	10,058.3	10,043.0	39.3	36.0	-166.31	-216.2	1,900.8	2,839.9	2,767.7	72.26	39.304		
10,200.0	10,141.5	10,153.5	10,138.2	39.6	36.4	-166.33	-216.3	1,900.8	2,842.5	2,769.6	72.93	38.978		
10,300.0	10,241.5	10,236.7	10,221.4	39.9	36.6	-166.33	-216.7	1,901.2	2,845.1	2,771.5	73.54	38.690		
10,400.0	10,341.5	10,327.4	10,312.1	40.3	36.9	-166.33	-217.3	1,902.0	2,847.8	2,773.7	74.18	38.392		
10,500.0	10,441.4	10,403.7	10,388.4	40.6	37.2	-166.32	-217.8	1,903.0	2,850.8	2,776.0	74.74	38.143		
10,600.0	10,541.4	10,508.6	10,493.3	41.0	37.5	-166.34	-217.4	1,905.2	2,854.1	2,778.6	75.44	37.830		
10,700.0	10,641.4	10,619.3	10,603.9	41.3	37.9	-166.37	-216.1	1,906.7	2,856.4	2,780.2	76.17	37.498		
10,800.0	10,741.4	10,719.6	10,704.3	41.6	38.2	-166.38	-215.6	1,908.0	2,858.3	2,781.4	76.85	37.192		
10,900.0	10,841.4	10,834.8	10,819.4	42.0	38.6	-166.38	-215.7	1,909.3	2,859.6	2,782.0	77.61	36.846		
10,935.6	10,877.0	10,878.4	10,863.1	42.1	38.7	89.55	-215.7	1,909.5	2,859.9	2,782.0	77.89	36.718		
10,950.0	10,891.4	10,896.1	10,880.8	42.1	38.8	111.12	-215.6	1,909.6	2,860.0	2,782.0	78.00	36.667		
11,000.0	10,941.3	10,943.3	10,927.9	42.3	38.9	111.04	-215.2	1,909.8	2,861.4	2,783.1	78.32	36.537		
11,050.0	10,990.7	10,984.7	10,969.3	42.4	39.1	110.86	-214.8	1,910.0	2,864.5	2,785.9	78.60	36.442		
11,100.0	11,039.2	11,025.7	11,010.3	42.6	39.2	110.58	-214.2	1,910.4	2,869.4	2,790.5	78.89	36.372		
11,150.0	11,086.5	11,066.0	11,050.6	42.8	39.3	110.20	-213.7	1,910.8	2,875.9	2,796.7	79.17	36.328		
11,200.0	11,132.1	11,105.2	11,089.8	42.9	39.4	109.71	-213.1	1,911.4	2,884.1	2,804.7	79.44	36.308		
11,250.0	11,175.9	11,145.6	11,130.2	43.1	39.6	109.12	-212.4	1,912.0	2,894.0	2,814.3	79.71	36.307		
11,300.0	11,217.3	11,184.0	11,168.6	43.2	39.7	108.40	-211.8	1,912.6	2,905.5	2,825.5	79.97	36.333		
11,350.0	11,256.2	11,220.4	11,205.0	43.3	39.8	107.53	-211.2	1,913.3	2,918.7	2,838.4	80.22	36.383		
11,400.0	11,292.2	11,254.2	11,238.7	43.5	39.9	106.51	-210.7	1,913.9	2,933.4	2,852.9	80.45	36.460		
11,450.0	11,325.0	11,284.9	11,269.5	43.6	40.0	105.30	-210.3	1,914.5	2,949.7	2,869.0	80.67	36.563		
11,500.0	11,354.5	11,306.7	11,291.3	43.7	40.1	103.80	-210.0	1,914.9	2,967.5	2,886.7	80.85	36.705		
11,550.0	11,380.3	11,566.8	11,547.1	43.9	40.9	105.89	-174.0	1,913.4	2,986.0	2,904.0	82.02	36.407		
11,600.0	11,402.2	11,597.0	11,575.0	44.0	41.0	104.36	-162.6	1,912.7	3,004.4	2,922.2	82.21	36.544		
11,650.0	11,420.2	11,624.0	11,599.4	44.1	41.1	102.63	-151.2	1,912.3	3,024.2	2,941.8	82.40	36.703		
11,700.0	11,434.0	11,624.0	11,599.4	44.3	41.1	100.34	-151.2	1,912.3	3,045.3	2,962.8	82.49	36.916		
11,750.0	11,443.6	12,467.0	11,985.1	44.5	43.3	102.71	532.1	1,873.2	3,067.6	2,982.7	84.88	36.142		
11,800.0	11,448.9	12,467.0	11,985.1	44.6	43.3	101.44	532.1	1,873.2	3,080.2	2,995.1	85.03	36.223		
11,835.6	11,450.0	12,467.0	11,985.1	44.8	43.3	100.42	532.1	1,873.2	3,090.1	3,004.9	85.14	36.296		
11,900.0	11,450.0	12,467.0	11,985.1	45.1	43.3	100.35	532.1	1,873.2	3,108.7	3,023.4	85.32	36.436		
12,000.0	11,450.0	12,518.0	11,986.1	45.5	43.5	100.22	583.0	1,869.5	3,135.6	3,049.7	85.90	36.504		
12,100.0	11,450.0	12,560.0	11,986.7	46.1	43.7	100.10	624.9	1,868.4	3,162.1	3,075.6	86.46	36.571		
12,200.0	11,450.0	12,591.9	11,987.1	46.6	43.8	99.99	656.7	1,868.3	3,187.0	3,100.0	87.02	36.624		
12,300.0	11,450.0	12,688.9	11,987.0	47.3	44.3	99.85	753.7	1,867.6	3,208.9	3,120.9	88.05	36.445		
12,400.0	11,450.0	12,748.0	11,985.5	47.9	44.7	99.72	812.9	1,867.8	3,228.3	3,139.4	88.88	36.321		
12,500.0	11,450.0	12,823.1	11,982.5	48.6	45.1	99.56	887.9	1,869.0	3,245.2	3,155.3	89.91	36.094		
12,600.0	11,450.0	12,915.4	11,979.2	49.3	45.7	99.42	980.1	1,871.1	3,259.3	3,168.2	91.15	35.758		
12,700.0	11,450.0	13,024.3	11,978.2	50.0	46.4	99.33	1,088.9	1,873.0	3,270.0	3,177.4	92.61	35.308		
12,800.0	11,450.0	13,159.0	11,977.3	50.8	47.4	99.27	1,223.7	1,874.3	3,276.5	3,182.1	94.46	34.689		
12,892.5	11,450.0	13,272.5	11,976.5	51.5	48.3	99.24	1,337.1	1,874.3	3,278.6	3,182.4	96.14	34.100		
12,900.0	11,450.0	13,280.3	11,976.4	51.5	48.3	99.24	1,345.0	1,874.3	3,278.6	3,182.3	96.27	34.057		
13,000.0	11,450.0	13,364.9	11,975.4	52.3	49.0	99.22	1,429.6	1,874.3	3,279.2	3,181.4	97.75	33.545		
13,100.0	11,450.0	13,456.1	11,974.2	53.2	49.8	99.20	1,520.7	1,874.8	3,280.3	3,180.9	99.38	33.007		
13,200.0	11,450.0	13,571.0	11,972.9	54.0	50.9	99.17	1,635.6	1,875.3	3,281.3	3,179.9	101.38	32.365		
13,300.0	11,450.0	13,697.2	11,972.9	54.9	52.0	99.17	1,761.8	1,874.7	3,281.6	3,178.0	103.62	31.668		
13,308.2	11,450.0	13,707.6	11,973.1	55.0	52.1	99.17	1,772.2	1,874.6	3,281.6	3,177.8	103.81	31.611		
13,400.0	11,450.0	13,782.5	11,973.0	55.9	52.9	99.17	1,847.1	1,874.2	3,281.8	3,176.4	105.39	31.139		
13,500.0	11,450.0	13,938.2	11,971.4	56.8	54.5	99.14	2,002.8	1,872.6	3,281.4	3,173.1	108.23	30.317		
13,600.0	11,450.0	14,084.2	11,969.6	57.8	56.1	99.12	2,148.8	1,868.4	3,279.0	3,168.0	111.04	29.530		
13,700.0	11,450.0	14,160.0	11,968.5	58.8	56.9	99.11	2,224.5	1,866.3	3,276.7	3,163.9	112.86	29.034		
13,800.0	11,450.0	14,200.5	11,967.9	59.9	57.4	99.10	2,265.0	1,865.7	3,275.7	3,161.5	114.16	28.694		
13,811.2	11,450.0	14,205.4	11,967.8	60.0	57.4	99.10	2,269.9	1,865.6	3,275.7	3,161.3	114.31	28.655		

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 #135H
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 #135H	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: 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		
13,888.8	11,450.0	14,253.0	11,967.3	60.9	58.0	99.09	2,317.5	1,865.8	3,276.2	3,160.7	115.58	28.347		
13,900.0	11,450.0	14,253.0	11,967.3	61.0	58.0	99.09	2,317.5	1,865.8	3,276.4	3,160.7	115.65	28.330		
14,000.0	11,450.0	14,339.4	11,967.1	62.1	58.9	99.08	2,403.9	1,866.7	3,278.1	3,160.4	117.71	27.849		
14,100.0	11,450.0	14,513.5	11,966.4	63.2	61.0	99.06	2,578.0	1,866.7	3,278.9	3,157.6	121.29	27.035		
14,196.5	11,450.0	14,590.7	11,965.9	64.4	61.9	99.05	2,655.2	1,865.8	3,278.4	3,155.2	123.27	26.595		
14,200.0	11,450.0	14,593.0	11,965.9	64.4	61.9	99.05	2,657.4	1,865.8	3,278.4	3,155.1	123.34	26.581		
14,300.0	11,450.0	14,762.7	11,961.3	65.6	64.0	98.98	2,827.1	1,863.8	3,277.8	3,150.8	126.99	25.812		
14,400.0	11,450.0	14,400.0	11,956.4	66.8	59.4	98.90	2,960.3	1,859.9	3,275.1	3,151.3	123.79	26.457		
14,500.0	11,450.0	14,959.3	11,954.0	68.0	66.6	98.86	3,023.4	1,857.8	3,272.2	3,140.2	131.97	24.794		
14,600.0	11,450.0	15,006.0	11,953.3	69.2	67.2	98.85	3,070.1	1,857.2	3,271.1	3,137.6	133.58	24.488		
14,635.9	11,450.0	15,029.7	11,953.1	69.7	67.5	98.85	3,093.8	1,857.0	3,271.1	3,136.8	134.28	24.360		
14,700.0	11,450.0	15,098.6	11,952.3	70.5	68.4	98.83	3,162.8	1,856.6	3,271.1	3,135.1	136.02	24.048		
14,713.5	11,450.0	15,113.1	11,952.0	70.6	68.5	98.83	3,177.2	1,856.5	3,271.1	3,134.7	136.39	23.983		
14,800.0	11,450.0	15,151.6	11,951.5	71.7	69.0	98.82	3,215.8	1,856.6	3,271.7	3,133.9	137.75	23.751		
14,900.0	11,450.0	15,212.9	11,950.8	73.0	69.9	98.80	3,277.0	1,857.5	3,273.7	3,134.1	139.63	23.445		
15,000.0	11,450.0	15,348.2	11,947.2	74.3	71.6	98.73	3,412.2	1,859.9	3,275.8	3,132.8	142.97	22.913		
15,100.0	11,450.0	15,504.7	11,942.8	75.7	73.8	98.65	3,568.7	1,859.9	3,276.1	3,129.3	146.75	22.324		
15,200.0	11,450.0	15,601.4	11,943.0	77.0	75.1	98.65	3,665.4	1,859.1	3,276.0	3,126.6	149.40	21.928		
15,236.3	11,450.0	15,651.7	11,943.9	77.5	75.8	98.67	3,715.6	1,858.3	3,275.8	3,125.2	150.65	21.745		
15,300.0	11,450.0	15,778.8	11,947.3	78.3	77.5	98.75	3,842.6	1,854.8	3,274.1	3,120.6	153.59	21.318		
15,400.0	11,450.0	15,858.7	11,949.7	79.6	78.7	98.82	3,922.4	1,852.2	3,268.1	3,112.2	155.95	20.956		
15,500.0	11,450.0	15,904.8	11,951.3	80.9	79.3	98.89	3,968.6	1,851.1	3,259.7	3,102.0	157.65	20.677		
15,600.0	11,450.0	15,952.7	11,953.0	82.2	80.0	98.96	4,016.4	1,850.7	3,249.3	3,090.0	159.34	20.392		
15,700.0	11,450.0	16,045.0	11,955.0	83.5	81.3	99.07	4,108.7	1,850.7	3,236.3	3,074.4	161.91	19.988		
15,800.0	11,450.0	16,104.7	11,955.3	84.8	82.1	99.16	4,168.4	1,851.4	3,220.6	3,056.8	163.82	19.660		
15,900.0	11,450.0	16,173.1	11,955.1	86.0	83.1	99.25	4,236.7	1,853.2	3,202.9	3,037.0	165.88	19.309		
15,966.5	11,450.0	16,236.6	11,954.9	86.8	84.0	99.32	4,300.3	1,855.1	3,189.4	3,021.8	167.63	19.027		
16,000.0	11,450.0	16,267.9	11,954.7	87.2	84.4	99.32	4,331.5	1,856.1	3,182.5	3,014.0	168.49	18.888		
16,100.0	11,450.0	16,387.9	11,953.3	88.5	86.1	99.30	4,451.4	1,859.7	3,163.9	2,992.2	171.68	18.429		
16,200.0	11,450.0	16,504.4	11,952.1	89.7	87.8	99.28	4,567.9	1,862.1	3,147.7	2,972.9	174.83	18.005		
16,300.0	11,450.0	16,610.6	11,952.2	91.1	89.4	99.28	4,674.1	1,863.8	3,134.8	2,957.0	177.78	17.633		
16,400.0	11,450.0	16,750.8	11,953.5	92.5	91.4	99.31	4,814.3	1,864.3	3,124.0	2,942.5	181.46	17.215		
16,500.0	11,450.0	16,837.5	11,954.3	93.9	92.7	99.32	4,901.0	1,864.5	3,116.6	2,932.5	184.07	16.932		
16,600.0	11,450.0	16,923.7	11,955.2	95.3	94.0	99.34	4,987.2	1,865.1	3,113.1	2,926.4	186.68	16.676		
16,638.4	11,450.0	16,955.4	11,955.6	95.9	94.4	99.35	5,018.9	1,865.4	3,112.8	2,925.2	187.67	16.587		
16,700.0	11,450.0	17,022.2	11,956.5	96.8	95.4	99.36	5,085.6	1,866.1	3,113.5	2,924.0	189.58	16.424		
16,800.0	11,450.0	17,203.1	11,961.1	98.2	98.1	99.44	5,266.5	1,865.0	3,116.0	2,921.8	194.18	16.047		
16,900.0	11,450.0	17,298.7	11,963.5	99.7	99.5	99.49	5,362.1	1,862.8	3,120.2	2,923.1	197.07	15.833		
17,000.0	11,450.0	17,511.2	11,971.1	101.3	102.8	99.61	5,574.2	1,856.1	3,127.9	2,925.7	202.22	15.468		
17,100.0	11,450.0	17,571.4	11,971.8	102.8	103.7	99.63	5,634.4	1,853.4	3,136.5	2,932.0	204.49	15.338		
17,200.0	11,450.0	17,630.5	11,972.2	104.4	104.6	99.66	5,693.4	1,851.5	3,149.7	2,943.0	206.73	15.236		
17,300.0	11,450.0	17,737.2	11,973.7	106.0	106.2	99.69	5,800.1	1,848.7	3,167.1	2,957.2	209.92	15.087		
17,400.0	11,450.0	17,773.0	11,974.5	107.5	106.7	99.75	5,835.8	1,847.8	3,188.4	2,976.7	211.66	15.064		
17,426.1	11,450.0	17,781.1	11,974.6	108.0	106.9	99.77	5,843.9	1,847.8	3,194.8	2,982.7	212.08	15.064		
17,500.0	11,450.0	17,803.9	11,974.9	109.1	107.2	99.70	5,866.8	1,847.9	3,213.2	3,000.0	213.23	15.069		
17,600.0	11,450.0	17,839.0	11,975.1	110.7	107.7	99.59	5,901.9	1,848.7	3,236.9	3,022.1	214.81	15.069		
17,700.0	11,450.0	17,967.8	11,975.3	112.3	109.7	99.45	6,030.6	1,852.1	3,257.6	3,039.0	218.55	14.905		
17,800.0	11,450.0	18,061.2	11,974.1	113.9	111.1	99.32	6,123.9	1,854.7	3,274.7	3,053.2	221.48	14.785		
17,900.0	11,450.0	17,900.0	11,973.2	115.5	108.6	99.21	6,262.5	1,857.1	3,287.5	3,066.6	220.90	14.882		
18,000.0	11,450.0	18,327.0	11,972.7	117.0	115.2	99.14	6,389.7	1,857.8	3,295.7	3,066.6	229.15	14.383		
18,100.0	11,450.0	18,417.7	11,969.7	118.6	116.6	99.06	6,480.4	1,858.8	3,300.7	3,068.6	232.03	14.225		
18,155.7	11,450.0	18,485.3	11,967.7	119.4	117.6	99.02	6,548.0	1,859.5	3,301.9	3,067.9	234.02	14.109		

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 #135H
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 #135H	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: 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		
18,200.0	11,450.0	18,542.2	11,966.6	120.1	118.5	99.00	6,604.8	1,859.7	3,302.3	3,066.6	235.67	14.012		
18,300.0	11,450.0	18,706.4	11,963.3	121.7	121.1	98.94	6,768.9	1,858.7	3,302.2	3,062.0	240.15	13.751		
18,400.0	11,450.0	18,827.2	11,961.5	123.2	122.9	98.92	6,889.7	1,856.0	3,300.5	3,056.9	243.68	13.545		
18,500.0	11,450.0	18,916.5	11,960.0	124.7	124.3	98.89	6,978.9	1,853.9	3,298.7	3,052.1	246.56	13.379		
18,600.0	11,450.0	18,989.5	11,957.9	126.3	125.5	98.86	7,052.0	1,852.8	3,297.5	3,048.4	249.09	13.238		
18,700.0	11,450.0	19,065.0	11,955.2	127.8	126.7	98.81	7,127.4	1,852.5	3,297.3	3,045.6	251.68	13.101		
18,800.0	11,450.0	19,179.4	11,952.1	129.4	128.4	98.76	7,241.7	1,852.0	3,297.2	3,042.1	255.12	12.924		
18,900.0	11,450.0	19,277.1	11,951.1	130.9	130.0	98.74	7,339.4	1,851.0	3,296.8	3,038.6	258.18	12.769		
19,000.0	11,450.0	19,401.9	11,951.4	132.5	131.9	98.75	7,464.2	1,849.3	3,296.2	3,034.4	261.82	12.590		
19,100.0	11,450.0	19,523.0	11,953.9	134.0	133.8	98.80	7,585.2	1,846.0	3,294.6	3,029.3	265.36	12.416		
19,200.0	11,450.0	19,200.0	11,957.8	135.6	128.7	98.88	7,702.1	1,841.9	3,292.4	3,030.5	261.92	12.570		
19,300.0	11,450.0	19,690.0	11,959.7	137.2	136.5	98.91	7,752.1	1,840.4	3,290.8	3,019.9	270.86	12.149		
19,361.0	11,450.0	19,726.0	11,960.3	138.1	137.0	98.92	7,788.0	1,840.0	3,290.6	3,018.4	272.21	12.088		
19,400.0	11,450.0	19,744.4	11,960.4	138.7	137.3	98.92	7,806.4	1,839.9	3,290.8	3,017.8	272.97	12.056		
19,500.0	11,450.0	19,829.3	11,961.3	140.3	138.7	98.94	7,891.3	1,839.9	3,291.7	3,016.0	275.74	11.938		
19,600.0	11,450.0	19,944.0	11,963.2	141.9	140.5	98.97	8,006.0	1,839.2	3,292.1	3,012.9	279.19	11.792		
19,700.0	11,450.0	20,009.0	11,963.9	143.4	141.5	98.98	8,071.0	1,839.6	3,293.5	3,012.0	281.51	11.700		
19,800.0	11,450.0	20,138.8	11,966.0	145.0	143.6	99.01	8,200.8	1,840.0	3,294.8	3,009.5	285.32	11.548		
19,900.0	11,450.0	20,233.1	11,968.8	146.6	145.0	99.06	8,295.0	1,839.8	3,295.8	3,007.5	288.30	11.432		
20,000.0	11,450.0	20,365.1	11,968.9	148.2	147.1	99.06	8,427.0	1,839.6	3,296.5	3,004.3	292.17	11.283		
20,100.0	11,450.0	20,474.5	11,965.9	149.7	148.9	99.00	8,536.4	1,839.0	3,296.2	3,000.7	295.55	11.153		
20,200.0	11,450.0	20,579.1	11,962.7	151.3	150.5	98.95	8,640.9	1,838.3	3,295.9	2,997.0	298.84	11.029		
20,300.0	11,450.0	20,668.6	11,958.9	152.9	152.0	98.88	8,730.4	1,838.0	3,295.6	2,993.8	301.79	10.920		
20,400.0	11,450.0	20,806.3	11,951.2	154.5	154.2	98.75	8,867.8	1,836.9	3,294.6	2,988.7	305.85	10.772		
20,500.0	11,450.0	20,903.1	11,945.2	156.1	155.7	98.65	8,964.4	1,836.0	3,293.5	2,984.5	309.00	10.659		
20,600.0	11,450.0	21,067.0	11,938.6	157.6	158.3	98.54	9,128.1	1,832.6	3,291.7	2,978.2	313.55	10.498		
20,700.0	11,450.0	21,173.9	11,934.0	159.2	160.1	98.47	9,234.9	1,829.2	3,288.7	2,971.8	316.90	10.378		
20,800.0	11,450.0	21,299.2	11,925.8	160.8	162.1	98.33	9,359.9	1,824.8	3,285.0	2,964.4	320.64	10.245		
20,900.0	11,450.0	20,900.0	11,916.9	162.4	155.6	98.19	9,483.9	1,819.3	3,280.4	2,964.4	315.98	10.382		
21,000.0	11,450.0	21,497.5	11,912.2	164.0	165.3	98.12	9,557.5	1,816.0	3,275.8	2,948.7	327.09	10.015		
21,100.0	11,450.0	21,582.1	11,908.4	165.6	166.6	98.06	9,642.0	1,812.8	3,272.2	2,942.1	330.02	9.915		
21,200.0	11,450.0	21,669.4	11,906.0	167.2	168.0	98.02	9,729.2	1,809.5	3,268.8	2,935.8	332.97	9.817		
21,300.0	11,450.0	21,845.9	11,899.4	168.8	170.9	97.92	9,905.3	1,801.9	3,265.0	2,927.3	337.66	9.669		
21,400.0	11,450.0	22,009.0	11,889.1	170.4	173.5	97.77	10,067.8	1,791.5	3,258.5	2,916.5	342.01	9.528		
21,500.0	11,450.0	22,057.0	11,885.7	172.0	174.3	97.71	10,115.5	1,788.0	3,251.5	2,907.1	344.37	9.442		
21,600.0	11,450.0	22,057.0	11,885.7	173.6	174.3	97.71	10,115.5	1,788.0	3,247.2	2,901.5	345.69	9.394		
21,688.8	11,450.0	22,057.0	11,885.7	175.0	174.3	97.71	10,115.5	1,788.0	3,246.0	2,899.4	346.60	9.365		
21,700.0	11,450.0	22,057.0	11,885.7	175.2	174.3	97.71	10,115.5	1,788.0	3,246.0	2,899.3	346.70	9.363		
21,757.9	11,450.0	22,057.0	11,885.7	176.1	174.3	97.71	10,115.5	1,788.0	3,246.8	2,899.6	347.15	9.353 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 #135H
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 #135H	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: 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	89.35	25.9	2,263.1	2,263.2					
100.0	100.0	92.4	92.4	0.1	0.1	-166.59	25.8	2,263.2	2,263.5	2,263.3	0.27	8,364.024		
200.0	200.0	184.2	184.2	0.5	0.3	-166.59	25.7	2,263.7	2,264.5	2,263.7	0.79	2,878.422		
300.0	300.0	281.3	281.3	0.8	0.6	-166.59	25.7	2,264.5	2,266.2	2,264.7	1.49	1,518.139		
400.0	400.0	377.0	377.0	1.2	1.0	-166.60	25.9	2,265.3	2,268.2	2,266.0	2.19	1,033.871		
500.0	500.0	472.4	472.3	1.6	1.3	-166.61	26.0	2,266.4	2,270.7	2,267.8	2.89	784.510		
600.0	600.0	576.7	576.7	1.9	1.7	-166.63	26.3	2,267.6	2,273.6	2,270.0	3.63	626.998		
700.0	699.9	687.0	687.0	2.3	2.1	-166.64	26.4	2,268.4	2,276.5	2,272.1	4.38	519.846		
800.0	799.9	786.6	786.5	2.6	2.5	-166.65	26.3	2,269.0	2,279.5	2,274.4	5.09	447.469		
900.0	899.9	896.5	896.5	3.0	2.8	-166.66	26.0	2,269.5	2,282.6	2,276.8	5.84	390.883		
1,000.0	999.8	1,013.3	1,013.3	3.4	3.2	-166.68	25.7	2,269.2	2,285.4	2,278.8	6.59	346.605		
1,100.0	1,099.8	1,113.5	1,113.5	3.7	3.6	-166.67	24.9	2,268.5	2,288.1	2,280.8	7.29	313.820		
1,200.0	1,199.7	1,190.5	1,190.5	4.1	3.8	-166.66	23.9	2,268.4	2,291.6	2,283.7	7.92	289.408		
1,300.0	1,299.6	1,257.6	1,257.6	4.5	4.1	-166.65	22.7	2,269.1	2,296.7	2,288.1	8.51	269.766		
1,400.0	1,399.5	1,329.0	1,328.9	4.8	4.3	-166.62	21.1	2,271.2	2,303.7	2,294.6	9.13	252.440		
1,500.0	1,499.4	1,373.7	1,373.6	5.2	4.5	-166.60	20.0	2,273.3	2,312.8	2,303.2	9.64	239.954		
1,600.0	1,599.3	1,420.0	1,419.7	5.6	4.7	-166.58	18.9	2,276.2	2,324.2	2,314.0	10.15	228.950		
1,700.0	1,699.1	1,476.8	1,476.3	5.9	4.9	-166.56	17.5	2,280.9	2,337.9	2,327.2	10.70	218.498		
1,800.0	1,798.9	1,511.0	1,510.3	6.3	5.0	-166.54	16.7	2,284.4	2,354.1	2,343.0	11.15	211.085		
1,900.0	1,898.8	1,578.4	1,577.2	6.7	5.2	-166.51	14.9	2,292.7	2,372.5	2,360.7	11.73	202.204		
2,000.0	1,998.6	1,633.6	1,631.8	7.0	5.5	-166.48	13.2	2,300.7	2,393.1	2,380.8	12.26	195.243		
2,100.0	2,098.3	1,697.0	1,694.3	7.4	5.7	-166.44	11.2	2,311.0	2,415.7	2,402.9	12.81	188.511		
2,200.0	2,198.1	1,787.9	1,783.8	7.8	6.1	-166.40	8.5	2,326.5	2,439.4	2,425.9	13.49	180.837		
2,300.0	2,297.8	1,904.1	1,898.3	8.1	6.5	-166.35	5.0	2,346.1	2,463.3	2,449.0	14.28	172.494		
2,400.0	2,397.5	2,068.5	2,060.8	8.5	7.2	-166.26	-1.2	2,370.1	2,485.1	2,469.8	15.29	162.541		
2,500.0	2,497.2	2,146.4	2,137.9	8.9	7.5	-166.22	-3.7	2,380.9	2,506.7	2,490.8	15.92	157.503		
2,600.0	2,596.8	2,229.7	2,220.3	9.3	7.8	-166.19	-6.3	2,393.1	2,529.4	2,512.8	16.56	152.696		
2,700.0	2,696.4	2,375.7	2,364.6	9.7	8.4	-166.12	-11.6	2,414.0	2,552.1	2,534.6	17.50	145.841		
2,800.0	2,796.0	2,460.7	2,448.8	10.0	8.8	-166.07	-14.9	2,425.4	2,574.2	2,556.0	18.16	141.751		
2,900.0	2,895.6	2,544.6	2,531.9	10.4	9.1	-166.04	-18.0	2,436.9	2,596.9	2,578.0	18.81	138.023		
3,000.0	2,895.1	2,659.3	2,645.5	10.8	9.6	-166.02	-20.9	2,452.4	2,619.6	2,600.0	19.61	133.588		
3,100.0	3,094.6	2,734.0	2,719.5	11.2	9.9	-166.02	-22.0	2,462.8	2,643.0	2,622.8	20.22	130.713		
3,200.0	3,194.1	2,848.4	2,832.7	11.6	10.4	-166.03	-23.8	2,478.7	2,666.8	2,645.8	21.01	126.907		
3,300.0	3,293.5	2,943.2	2,926.6	12.0	10.8	-166.02	-26.4	2,491.4	2,690.4	2,668.7	21.72	123.870		
3,400.0	3,392.9	3,004.0	2,986.8	12.4	11.0	-165.99	-28.6	2,500.1	2,715.2	2,693.0	22.26	121.951		
3,500.0	3,492.2	3,077.8	3,059.6	12.7	11.3	-165.96	-31.4	2,511.5	2,741.4	2,718.6	22.87	119.874		
3,600.0	3,591.6	3,197.4	3,177.8	13.1	11.8	-165.97	-33.6	2,530.2	2,768.2	2,744.5	23.70	116.818		
3,700.0	3,690.8	3,339.8	3,318.6	13.5	12.4	-166.06	-32.9	2,550.7	2,794.2	2,769.5	24.63	113.462		
3,800.0	3,790.1	3,482.5	3,460.3	13.9	13.0	-166.14	-32.8	2,568.0	2,817.9	2,792.4	25.55	110.282		
3,900.0	3,889.3	3,555.0	3,532.3	14.3	13.3	-166.16	-33.5	2,576.8	2,842.1	2,816.0	26.15	108.669		
4,000.0	3,988.4	3,616.6	3,593.3	14.7	13.6	-166.17	-34.2	2,584.8	2,867.6	2,840.9	26.70	107.398		
4,100.0	4,087.5	3,679.0	3,655.1	15.2	13.8	-166.18	-34.9	2,593.9	2,894.8	2,867.5	27.25	106.241		
4,200.0	4,186.6	3,729.6	3,705.1	15.6	14.0	-166.19	-35.3	2,602.0	2,923.6	2,895.8	27.73	105.429		
4,300.0	4,285.6	3,817.4	3,791.5	16.0	14.4	-166.22	-36.2	2,616.9	2,953.8	2,925.4	28.40	103.999		
4,400.0	4,384.6	4,025.8	3,997.5	16.4	15.3	-166.18	-44.3	2,647.9	2,982.2	2,952.5	29.69	100.432		
4,500.0	4,483.5	4,130.6	4,101.3	16.8	15.7	-166.16	-48.0	2,661.2	3,008.7	2,978.3	30.45	98.796		
4,600.0	4,582.4	4,212.9	4,182.9	17.2	16.1	-166.19	-49.0	2,671.9	3,035.9	3,004.8	31.10	97.611		
4,700.0	4,681.2	4,314.6	4,283.7	17.6	16.5	-166.23	-49.7	2,685.3	3,063.7	3,031.8	31.84	96.207		
4,800.0	4,780.0	4,419.5	4,387.8	18.1	16.9	-166.27	-50.6	2,698.7	3,091.4	3,058.8	32.60	94.815		
4,900.0	4,878.7	4,900.0	4,535.4	18.5	18.9	-166.30	-53.7	2,717.0	3,119.1	3,084.3	34.81	89.613		
5,000.0	4,977.4	4,748.3	4,714.5	18.9	18.2	-166.31	-59.3	2,733.8	3,143.7	3,109.0	34.68	90.642		
5,100.0	5,076.0	4,844.6	4,810.4	19.3	18.6	-166.32	-61.8	2,741.8	3,167.9	3,132.5	35.40	89.488		

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 #135H
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 #135H	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: 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		
5,180.6	5,155.5	4,899.0	4,864.6	19.7	18.8	-166.33	-63.1	2,746.5	3,187.9	3,152.0	35.87	88.865		
5,200.0	5,174.6	4,920.4	4,885.9	19.8	18.9	-166.34	-63.5	2,748.4	3,192.8	3,156.7	36.03	88.626		
5,300.0	5,273.2	4,993.0	4,958.2	20.2	19.2	-166.36	-65.2	2,755.4	3,218.7	3,182.0	36.63	87.860		
5,400.0	5,371.7	5,058.8	5,023.5	20.6	19.5	-166.38	-66.7	2,762.3	3,245.4	3,208.1	37.21	87.221		
5,500.0	5,470.2	5,131.0	5,095.3	21.1	19.7	-166.39	-68.5	2,770.3	3,272.7	3,234.9	37.81	86.554		
5,600.0	5,568.8	5,200.1	5,163.9	21.5	20.0	-166.41	-70.5	2,778.5	3,300.8	3,262.4	38.40	85.966		
5,700.0	5,667.3	5,267.8	5,231.0	22.0	20.3	-166.41	-72.8	2,787.2	3,329.7	3,290.7	38.97	85.436		
5,755.0	5,721.5	5,308.7	5,271.5	22.2	20.5	-166.41	-74.4	2,792.6	3,345.9	3,306.6	39.31	85.118		
5,800.0	5,765.9	5,343.0	5,305.4	22.4	20.6	-166.41	-75.8	2,797.3	3,359.3	3,319.7	39.59	84.857		
5,900.0	5,864.5	5,417.8	5,379.4	22.8	20.9	-166.42	-78.9	2,807.8	3,389.2	3,349.0	40.20	84.311		
6,000.0	5,963.1	5,491.6	5,452.4	23.3	21.3	-166.43	-82.0	2,818.7	3,419.4	3,378.6	40.80	83.803		
6,100.0	6,061.9	5,564.1	5,524.0	23.7	21.6	-166.44	-84.8	2,829.8	3,449.9	3,408.5	41.40	83.335		
6,200.0	6,160.6	5,636.0	5,594.9	24.1	21.9	-166.45	-87.6	2,841.3	3,480.7	3,438.7	41.99	82.900		
6,300.0	6,259.4	5,714.8	5,672.6	24.6	22.2	-166.46	-90.6	2,854.3	3,511.8	3,469.2	42.61	82.408		
6,400.0	6,358.3	5,789.6	5,746.2	25.0	22.6	-166.46	-93.7	2,867.1	3,543.0	3,499.8	43.22	81.979		
6,500.0	6,457.2	5,863.5	5,818.9	25.4	22.9	-166.46	-96.9	2,880.1	3,574.5	3,530.7	43.82	81.581		
6,600.0	6,556.2	5,934.7	5,888.8	25.8	23.2	-166.46	-99.9	2,893.1	3,606.3	3,561.9	44.39	81.233		
6,700.0	6,655.2	5,998.8	5,951.7	26.3	23.5	-166.47	-102.5	2,905.2	3,638.5	3,593.6	44.93	80.985		
6,800.0	6,754.2	6,287.1	6,235.7	26.7	24.8	-166.39	-116.4	2,952.2	3,666.8	3,620.1	46.78	78.380		
6,900.0	6,853.3	6,435.3	6,382.4	27.1	25.4	-166.38	-122.7	2,972.0	3,692.9	3,645.1	47.79	77.275		
7,000.0	6,952.4	6,540.7	6,487.0	27.5	25.9	-166.39	-125.8	2,985.4	3,718.0	3,669.5	48.56	76.567		
7,100.0	7,051.6	6,647.6	6,593.0	27.9	26.3	-166.40	-129.0	2,998.6	3,742.7	3,693.3	49.34	75.860		
7,200.0	7,150.8	6,731.2	6,675.9	28.3	26.7	-166.40	-131.7	3,009.0	3,766.9	3,716.9	49.99	75.352		
7,300.0	7,250.1	6,810.5	6,754.5	28.7	27.0	-166.41	-134.3	3,019.2	3,791.4	3,740.8	50.62	74.896		
7,400.0	7,349.4	6,885.3	6,828.6	29.1	27.3	-166.40	-137.1	3,029.2	3,816.0	3,764.8	51.23	74.492		
7,500.0	7,448.8	6,952.8	6,895.4	29.6	27.6	-166.40	-139.6	3,038.7	3,841.0	3,789.2	51.79	74.164		
7,600.0	7,548.1	7,032.0	6,973.6	30.0	27.9	-166.39	-142.9	3,050.3	3,866.2	3,813.8	52.42	73.758		
7,700.0	7,647.6	7,128.7	7,069.2	30.4	28.3	-166.37	-147.3	3,064.8	3,891.4	3,838.3	53.14	73.223		
7,800.0	7,747.0	7,199.4	7,138.9	30.7	28.7	-166.36	-150.6	3,075.5	3,916.6	3,862.8	53.72	72.904		
7,900.0	7,846.5	7,363.9	7,301.4	31.1	29.4	-166.31	-158.1	3,100.0	3,941.3	3,886.4	54.84	71.875		
8,000.0	7,946.0	7,465.4	7,401.9	31.5	29.8	-166.29	-162.5	3,114.0	3,964.4	3,908.8	55.59	71.319		
8,100.0	8,045.5	7,547.3	7,482.9	31.9	30.2	-166.28	-166.0	3,125.4	3,987.3	3,931.1	56.23	70.914		
8,200.0	8,145.1	7,620.5	7,555.3	32.3	30.5	-166.26	-169.1	3,135.9	4,010.5	3,953.7	56.82	70.585		
8,300.0	8,244.7	7,698.9	7,632.7	32.7	30.8	-166.24	-172.8	3,147.7	4,033.9	3,976.4	57.44	70.230		
8,400.0	8,344.4	7,764.8	7,697.7	33.1	31.1	-166.22	-176.1	3,157.9	4,057.5	3,999.5	57.98	69.978		
8,500.0	8,444.0	7,877.8	7,809.1	33.5	31.6	-166.19	-181.2	3,176.0	4,081.3	4,022.5	58.80	69.406		
8,600.0	8,543.7	8,577.2	8,505.9	33.8	34.2	-166.31	-185.8	3,226.9	4,090.3	4,028.0	62.30	65.652		
8,700.0	8,643.4	8,685.0	8,613.6	34.2	34.5	-166.33	-186.8	3,227.8	4,098.4	4,035.4	63.04	65.017		
8,800.0	8,743.2	8,791.9	8,720.5	34.6	34.9	-166.34	-188.1	3,228.5	4,106.0	4,042.3	63.76	64.393		
8,900.0	8,843.0	8,897.1	8,825.7	35.0	35.2	-166.35	-189.6	3,229.0	4,113.2	4,048.7	64.49	63.785		
9,000.0	8,942.7	8,998.5	8,927.1	35.3	35.5	-166.35	-190.9	3,229.4	4,119.9	4,054.7	65.19	63.197		
9,100.0	9,042.5	9,140.2	9,068.8	35.7	35.9	-166.37	-192.0	3,229.3	4,125.9	4,059.9	66.01	62.503		
9,200.0	9,142.4	9,258.0	9,186.6	36.1	36.3	-166.41	-190.9	3,228.2	4,130.7	4,064.0	66.74	61.896		
9,300.0	9,242.2	9,359.8	9,288.3	36.4	36.6	-166.45	-189.2	3,227.1	4,135.0	4,067.6	67.41	61.337		
9,400.0	9,342.1	9,450.0	9,378.5	36.8	36.8	-166.49	-187.9	3,226.1	4,139.0	4,071.0	68.06	60.816		
9,500.0	9,442.0	9,557.4	9,486.0	37.1	37.1	-166.52	-187.1	3,225.2	4,142.9	4,074.2	68.75	60.259		
9,600.0	9,541.9	9,690.9	9,619.4	37.5	37.5	-166.55	-186.2	3,223.2	4,145.9	4,076.4	69.52	59.637		
9,700.0	9,641.8	9,813.2	9,741.7	37.9	37.9	-166.59	-184.9	3,220.5	4,147.8	4,077.5	70.25	59.043		
9,800.0	9,741.7	9,897.6	9,826.1	38.2	38.1	-166.61	-184.0	3,218.5	4,149.3	4,078.4	70.88	58.542		
9,900.0	9,841.6	9,967.4	9,895.8	38.6	38.3	-166.63	-183.4	3,217.4	4,151.1	4,079.6	71.46	58.089		
10,000.0	9,941.6	10,071.9	10,000.3	38.9	38.6	-166.65	-182.8	3,215.9	4,152.9	4,080.8	72.15	57.562		
10,100.0	10,041.5	10,183.5	10,111.9	39.3	39.0	-166.66	-183.0	3,214.1	4,154.1	4,081.3	72.85	57.020		

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 #135H
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 #135H	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: 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	10,141.5	10,272.6	10,201.0	39.6	39.2	-166.66	-183.1	3,212.7	4,155.1	4,081.6	73.50	56.535		
10,300.0	10,241.5	10,361.2	10,289.6	39.9	39.5	-166.67	-183.1	3,211.6	4,156.0	4,081.8	74.13	56.059		
10,400.0	10,341.5	10,438.1	10,366.5	40.3	39.7	-166.67	-183.3	3,210.9	4,156.9	4,082.2	74.74	55.619		
10,500.0	10,441.4	10,566.8	10,495.2	40.6	40.1	-166.67	-184.1	3,209.5	4,157.4	4,081.9	75.51	55.060		
10,600.0	10,541.4	10,647.3	10,575.7	41.0	40.3	-166.66	-184.9	3,208.6	4,157.5	4,081.3	76.13	54.612		
10,700.0	10,641.4	10,700.6	10,628.9	41.3	40.5	-166.66	-185.4	3,208.4	4,158.1	4,081.5	76.66	54.240		
10,800.0	10,741.4	10,786.6	10,715.0	41.6	40.8	-166.65	-186.4	3,209.0	4,159.3	4,082.0	77.31	53.801		
10,900.0	10,841.4	10,906.6	10,834.9	42.0	41.2	-166.62	-188.2	3,209.5	4,160.1	4,082.0	78.08	53.281		
10,935.6	10,877.0	10,953.9	10,882.2	42.1	41.3	89.32	-189.0	3,209.6	4,160.1	4,081.7	78.36	53.090		
10,937.9	10,879.3	10,956.9	10,885.2	42.1	41.3	110.91	-189.0	3,209.6	4,160.1	4,081.7	78.38	53.078		
10,950.0	10,891.4	10,973.1	10,901.4	42.1	41.4	110.91	-189.3	3,209.5	4,160.1	4,081.7	78.47	53.014		
11,000.0	10,941.3	11,002.0	10,930.3	42.3	41.5	110.83	-189.9	3,209.4	4,161.3	4,082.5	78.74	52.851		
11,050.0	10,990.7	11,041.4	10,969.7	42.4	41.6	110.64	-190.6	3,209.5	4,164.1	4,085.1	79.03	52.690		
11,100.0	11,039.2	11,066.1	10,994.4	42.6	41.7	110.27	-190.9	3,209.7	4,168.8	4,089.6	79.27	52.592		
11,150.0	11,086.5	11,097.0	11,025.3	42.8	41.8	109.79	-191.0	3,210.1	4,175.4	4,095.9	79.52	52.509		
11,200.0	11,132.1	11,125.1	11,053.4	42.9	41.9	109.15	-191.1	3,210.6	4,183.7	4,103.9	79.75	52.458		
11,250.0	11,175.9	11,163.4	11,091.7	43.1	42.0	108.44	-191.1	3,211.4	4,193.5	4,113.5	80.02	52.407		
11,300.0	11,217.3	11,201.8	11,130.1	43.2	42.2	107.62	-191.0	3,212.2	4,204.9	4,124.6	80.28	52.379		
11,350.0	11,256.2	11,246.5	11,174.8	43.3	42.3	106.73	-191.0	3,213.1	4,217.7	4,137.2	80.56	52.358		
11,400.0	11,292.2	11,287.9	11,216.1	43.5	42.5	105.69	-191.0	3,213.8	4,231.9	4,151.1	80.81	52.366		
11,450.0	11,325.0	11,322.5	11,250.7	43.6	42.6	104.47	-191.0	3,214.4	4,247.5	4,166.4	81.04	52.410		
11,500.0	11,354.5	11,962.7	11,829.7	43.7	44.1	107.72	-1.4	3,188.4	4,259.4	4,176.8	82.65	51.534		
11,550.0	11,380.3	11,993.0	11,850.5	43.9	44.1	106.51	20.6	3,186.0	4,272.3	4,189.4	82.85	51.564		
11,600.0	11,402.2	11,993.0	11,850.5	44.0	44.1	105.06	20.6	3,186.0	4,286.7	4,203.7	83.01	51.642		
11,650.0	11,420.2	11,993.0	11,850.5	44.1	44.1	103.41	20.6	3,186.0	4,302.8	4,219.6	83.15	51.746		
11,700.0	11,434.0	11,993.0	11,850.5	44.3	44.1	101.58	20.6	3,186.0	4,320.3	4,237.0	83.28	51.874		
11,750.0	11,443.6	11,993.0	11,850.5	44.5	44.1	99.58	20.6	3,186.0	4,339.2	4,255.7	83.41	52.023		
11,800.0	11,448.9	11,993.0	11,850.5	44.6	44.1	97.42	20.6	3,186.0	4,359.2	4,275.6	83.52	52.192		
11,835.6	11,450.0	11,993.0	11,850.5	44.8	44.1	95.80	20.6	3,186.0	4,374.0	4,290.4	83.60	52.323		
11,900.0	11,450.0	11,993.0	11,850.5	45.1	44.1	95.74	20.6	3,186.0	4,401.0	4,317.3	83.73	52.559		
12,000.0	11,450.0	11,993.0	11,850.5	45.5	44.1	95.65	20.6	3,186.0	4,442.0	4,358.0	83.98	52.893		
12,100.0	11,450.0	11,993.0	11,850.5	46.1	44.1	95.57	20.6	3,186.0	4,481.6	4,397.3	84.26	53.187		
12,200.0	11,450.0	11,993.0	11,850.5	46.6	44.1	95.49	20.6	3,186.0	4,519.9	4,435.3	84.57	53.445		
12,300.0	11,450.0	11,993.0	11,850.5	47.3	44.1	95.41	20.6	3,186.0	4,556.9	4,472.0	84.91	53.668		
12,400.0	11,450.0	13,208.0	12,007.2	47.9	48.2	97.03	1,140.9	3,219.0	4,578.9	4,487.9	91.01	50.312		
12,500.0	11,450.0	13,254.6	12,004.5	48.6	48.5	96.97	1,187.3	3,216.4	4,588.8	4,496.8	92.00	49.878		
12,600.0	11,450.0	13,302.0	12,002.2	49.3	48.8	96.91	1,234.6	3,214.5	4,596.6	4,503.6	93.03	49.411		
12,700.0	11,450.0	13,383.7	11,998.2	50.0	49.4	96.85	1,316.2	3,211.7	4,601.8	4,507.4	94.39	48.756		
12,800.0	11,450.0	13,445.8	11,995.0	50.8	49.9	96.80	1,378.1	3,209.8	4,603.9	4,508.3	95.63	48.142		
12,892.5	11,450.0	13,516.1	11,992.2	51.5	50.5	96.77	1,448.4	3,208.3	4,603.6	4,506.7	96.94	47.491		
12,900.0	11,450.0	13,533.9	11,991.5	51.5	50.6	96.76	1,466.1	3,207.8	4,603.5	4,506.3	97.15	47.383		
13,000.0	11,450.0	13,632.7	11,986.4	52.3	51.4	96.70	1,564.8	3,205.3	4,601.0	4,502.2	98.85	46.547		
13,100.0	11,450.0	13,699.5	11,983.1	53.2	52.0	96.66	1,631.5	3,204.0	4,599.4	4,499.1	100.30	45.856		
13,200.0	11,450.0	13,812.3	11,981.3	54.0	53.0	96.64	1,744.2	3,201.8	4,598.0	4,495.8	102.26	44.963		
13,300.0	11,450.0	13,896.2	11,980.6	54.9	53.8	96.63	1,828.1	3,199.7	4,596.2	4,492.2	104.00	44.195		
13,399.1	11,450.0	13,936.1	11,980.2	55.8	54.2	96.62	1,868.0	3,199.2	4,595.6	4,490.3	105.31	43.639		
13,400.0	11,450.0	13,936.5	11,980.2	55.9	54.2	96.62	1,868.4	3,199.2	4,595.6	4,490.3	105.32	43.634		
13,500.0	11,450.0	14,008.1	11,979.4	56.8	54.9	96.61	1,940.1	3,199.2	4,596.1	4,489.1	107.02	42.948		
13,600.0	11,450.0	14,147.3	11,977.8	57.8	56.3	96.59	2,079.2	3,198.6	4,596.4	4,486.9	109.53	41.966		
13,700.0	11,450.0	14,299.7	11,972.7	58.8	57.9	96.53	2,231.5	3,196.6	4,595.3	4,483.0	112.30	40.919		
13,800.0	11,450.0	14,369.8	11,969.7	59.9	58.7	96.50	2,301.5	3,195.5	4,594.1	4,480.0	114.16	40.244		
13,864.2	11,450.0	14,401.4	11,968.5	60.6	59.0	96.48	2,333.1	3,195.3	4,593.9	4,478.7	115.20	39.877		

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 #135H
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 #135H	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: 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		
13,888.8	11,450.0	14,413.5	11,968.1	60.9	59.2	96.48	2,345.2	3,195.2	4,594.0	4,478.4	115.60	39.739		
13,900.0	11,450.0	14,433.0	11,967.4	61.0	59.4	96.47	2,364.7	3,195.3	4,594.0	4,478.1	115.96	39.618		
14,000.0	11,450.0	14,487.7	11,966.6	62.1	60.0	96.46	2,419.4	3,195.4	4,594.8	4,477.1	117.68	39.045		
14,100.0	11,450.0	14,645.3	11,970.4	63.2	61.8	96.50	2,577.0	3,194.8	4,595.6	4,474.8	120.74	38.062		
14,200.0	11,450.0	14,754.1	11,970.3	64.4	63.1	96.50	2,685.7	3,193.6	4,595.2	4,472.0	123.24	37.287		
14,300.0	11,450.0	14,868.1	11,969.0	65.6	64.5	96.49	2,799.7	3,192.5	4,594.9	4,469.0	125.85	36.510		
14,400.0	11,450.0	14,986.2	11,967.3	66.8	65.9	96.47	2,917.8	3,190.6	4,593.9	4,465.3	128.57	35.731		
14,500.0	11,450.0	15,091.4	11,966.0	68.0	67.2	96.45	3,023.0	3,188.8	4,592.8	4,461.6	131.15	35.019		
14,600.0	11,450.0	15,188.0	11,965.2	69.2	68.4	96.44	3,119.5	3,186.4	4,591.0	4,457.4	133.65	34.351		
14,700.0	11,450.0	15,243.1	11,964.7	70.5	69.1	96.44	3,174.6	3,185.4	4,590.1	4,454.5	135.60	33.851		
14,708.8	11,450.0	15,246.2	11,964.7	70.6	69.1	96.44	3,177.7	3,185.3	4,590.1	4,454.3	135.75	33.814		
14,800.0	11,450.0	15,283.0	11,964.5	71.7	69.6	96.44	3,214.5	3,185.4	4,590.7	4,453.3	137.33	33.427		
14,900.0	11,450.0	15,391.4	11,963.9	73.0	71.0	96.43	3,322.9	3,185.9	4,591.9	4,451.9	140.07	32.783		
15,000.0	11,450.0	15,457.4	11,963.5	74.3	71.9	96.42	3,388.9	3,186.5	4,593.4	4,451.2	142.22	32.299		
15,100.0	11,450.0	15,616.3	11,962.2	75.7	74.0	96.40	3,547.8	3,187.1	4,594.5	4,448.7	145.76	31.520		
15,200.0	11,450.0	15,200.0	11,961.0	77.0	68.4	96.38	3,680.5	3,186.2	4,594.4	4,452.8	141.55	32.457		
15,236.3	11,450.0	15,785.3	11,960.7	77.5	76.2	96.38	3,716.7	3,185.8	4,594.2	4,444.3	149.94	30.640		
15,300.0	11,450.0	15,820.9	11,960.4	78.3	76.7	96.38	3,752.4	3,185.6	4,593.5	4,442.3	151.26	30.369		
15,400.0	11,450.0	15,927.0	11,958.8	79.6	78.2	96.37	3,858.4	3,185.5	4,590.2	4,436.1	154.09	29.789		
15,500.0	11,450.0	15,979.3	11,957.0	80.9	78.9	96.37	3,910.8	3,185.6	4,583.4	4,427.3	156.10	29.361		
15,600.0	11,450.0	16,038.0	11,956.1	82.2	79.7	96.39	3,969.4	3,186.6	4,574.5	4,416.3	158.20	28.917		
15,700.0	11,450.0	16,078.9	11,956.1	83.5	80.2	96.42	4,010.2	3,187.6	4,563.2	4,403.2	159.99	28.522		
15,800.0	11,450.0	16,190.7	11,958.3	84.8	81.8	96.50	4,122.0	3,190.4	4,549.0	4,386.1	162.90	27.925		
15,900.0	11,450.0	16,479.9	11,962.1	86.0	85.9	96.69	4,411.2	3,189.9	4,528.0	4,359.4	168.57	26.861		
15,966.5	11,450.0	16,540.2	11,960.8	86.8	86.7	96.73	4,471.4	3,188.9	4,511.3	4,341.0	170.30	26.490		
16,000.0	11,450.0	16,562.4	11,960.3	87.2	87.0	96.72	4,493.6	3,188.6	4,502.8	4,331.8	171.05	26.325		
16,100.0	11,450.0	16,659.0	11,958.6	88.5	88.4	96.67	4,590.2	3,187.5	4,480.1	4,306.3	173.77	25.782		
16,200.0	11,450.0	16,756.8	11,955.9	89.7	89.8	96.62	4,688.0	3,186.2	4,460.4	4,283.8	176.55	25.264		
16,300.0	11,450.0	16,820.5	11,954.2	91.1	90.8	96.58	4,751.6	3,185.6	4,444.5	4,265.7	178.83	24.853		
16,400.0	11,450.0	16,888.0	11,953.4	92.5	91.7	96.55	4,819.1	3,185.8	4,433.2	4,252.0	181.20	24.466		
16,500.0	11,450.0	16,984.4	11,953.1	93.9	93.1	96.54	4,915.5	3,186.2	4,425.9	4,241.9	184.04	24.049		
16,600.0	11,450.0	17,087.5	11,951.9	95.3	94.6	96.52	5,018.6	3,186.4	4,421.6	4,234.6	187.01	23.644		
16,669.8	11,450.0	17,150.7	11,952.0	96.3	95.6	96.52	5,081.8	3,186.5	4,420.8	4,231.8	188.96	23.395		
16,700.0	11,450.0	17,183.5	11,952.8	96.8	96.0	96.53	5,114.6	3,186.5	4,420.9	4,231.0	189.89	23.281		
16,800.0	11,450.0	17,363.3	11,954.9	98.2	98.7	96.56	5,294.4	3,185.0	4,422.9	4,228.8	194.10	22.787		
16,900.0	11,450.0	17,490.6	11,954.9	99.7	100.6	96.56	5,421.6	3,182.3	4,426.9	4,229.4	197.51	22.413		
17,000.0	11,450.0	17,596.6	11,954.5	101.3	102.2	96.56	5,527.6	3,179.8	4,434.1	4,233.5	200.62	22.102		
17,100.0	11,450.0	17,671.9	11,953.7	102.8	103.3	96.56	5,602.9	3,178.1	4,444.7	4,241.5	203.27	21.866		
17,200.0	11,450.0	17,737.0	11,954.0	104.4	104.3	96.58	5,668.0	3,177.3	4,459.8	4,254.1	205.76	21.675		
17,300.0	11,450.0	17,809.9	11,954.6	106.0	105.4	96.62	5,740.9	3,176.8	4,479.0	4,270.7	208.37	21.495		
17,400.0	11,450.0	17,901.1	11,954.9	107.5	106.7	96.64	5,832.1	3,176.3	4,501.7	4,290.4	211.28	21.307		
17,426.1	11,450.0	17,924.0	11,955.2	108.0	107.1	96.65	5,854.9	3,176.1	4,508.2	4,296.2	212.02	21.263		
17,500.0	11,450.0	18,114.0	11,958.8	109.1	109.9	96.59	6,044.9	3,172.5	4,525.2	4,309.0	216.13	20.937		
17,600.0	11,450.0	18,161.5	11,960.3	110.7	110.7	96.56	6,092.3	3,171.1	4,544.3	4,325.9	218.38	20.809		
17,700.0	11,450.0	18,208.0	11,961.3	112.3	111.4	96.52	6,138.8	3,170.4	4,561.2	4,340.7	220.58	20.678		
17,800.0	11,450.0	18,299.7	11,963.2	113.9	112.8	96.49	6,230.5	3,169.7	4,575.5	4,352.0	223.52	20.470		
17,900.0	11,450.0	18,407.4	11,965.7	115.5	114.4	96.48	6,338.1	3,168.7	4,586.2	4,359.4	226.73	20.228		
18,000.0	11,450.0	18,491.0	11,967.4	117.0	115.7	96.48	6,421.7	3,167.8	4,593.3	4,363.7	229.53	20.011		
18,100.0	11,450.0	18,561.3	11,968.0	118.6	116.8	96.47	6,492.1	3,167.5	4,597.4	4,365.3	232.10	19.808		
18,155.7	11,450.0	18,596.5	11,967.6	119.4	117.3	96.46	6,527.2	3,167.7	4,598.6	4,365.2	233.46	19.698		
18,200.0	11,450.0	18,632.0	11,967.1	120.1	117.9	96.46	6,562.7	3,168.1	4,599.3	4,364.6	234.67	19.599		
18,300.0	11,450.0	18,720.8	11,965.3	121.7	119.2	96.43	6,651.5	3,169.2	4,601.1	4,363.6	237.56	19.368		

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 #135H
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 #135H	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: 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		
18,400.0	11,450.0	18,818.8	11,965.4	123.2	120.7	96.43	6,749.5	3,170.3	4,603.0	4,362.4	240.61	19.130		
18,500.0	11,450.0	18,931.9	11,964.9	124.7	122.5	96.42	6,862.6	3,171.6	4,604.9	4,360.9	243.93	18.878		
18,600.0	11,450.0	19,035.8	11,966.3	126.3	124.1	96.44	6,966.5	3,172.2	4,606.3	4,359.3	247.09	18.642		
18,700.0	11,450.0	19,145.9	11,967.2	127.8	125.8	96.44	7,076.6	3,172.9	4,607.8	4,357.5	250.36	18.404		
18,800.0	11,450.0	19,265.9	11,968.0	129.4	127.6	96.45	7,196.5	3,173.2	4,608.9	4,355.1	253.82	18.159		
18,900.0	11,450.0	19,365.5	11,968.0	130.9	129.2	96.45	7,296.2	3,173.4	4,609.9	4,353.0	256.92	17.943		
19,000.0	11,450.0	19,545.1	11,966.9	132.5	132.0	96.44	7,475.8	3,172.6	4,610.3	4,348.9	261.40	17.637		
19,100.0	11,450.0	19,690.6	11,967.9	134.0	134.3	96.45	7,621.2	3,169.1	4,608.6	4,343.3	265.27	17.373		
19,200.0	11,450.0	19,793.4	11,968.4	135.6	135.9	96.46	7,724.0	3,166.3	4,606.8	4,338.3	268.45	17.161		
19,300.0	11,450.0	19,884.5	11,969.9	137.2	137.3	96.48	7,815.0	3,163.8	4,605.0	4,333.5	271.43	16.965		
19,400.0	11,450.0	19,975.8	11,970.4	138.7	138.7	96.49	7,906.3	3,161.6	4,603.4	4,328.9	274.43	16.775		
19,500.0	11,450.0	20,098.1	11,970.8	140.3	140.6	96.50	8,028.5	3,158.6	4,601.7	4,323.8	277.93	16.557		
19,600.0	11,450.0	20,195.8	11,969.6	141.9	142.2	96.49	8,126.2	3,156.0	4,599.8	4,318.7	281.05	16.366		
19,700.0	11,450.0	20,266.3	11,967.9	143.4	143.3	96.47	8,196.7	3,154.5	4,598.2	4,314.4	283.72	16.206		
19,800.0	11,450.0	20,337.8	11,966.8	145.0	144.4	96.46	8,268.2	3,153.4	4,597.2	4,310.8	286.41	16.051		
19,900.0	11,450.0	20,412.5	11,967.3	146.6	145.6	96.46	8,342.9	3,152.5	4,596.8	4,307.7	289.13	15.899		
19,928.5	11,450.0	20,435.2	11,967.7	147.0	146.0	96.47	8,365.6	3,152.3	4,596.8	4,306.9	289.92	15.855		
20,000.0	11,450.0	20,497.8	11,969.3	148.2	147.0	96.49	8,428.2	3,151.7	4,596.9	4,304.9	292.02	15.742		
20,100.0	11,450.0	20,605.0	11,971.2	149.7	148.6	96.51	8,535.3	3,150.8	4,597.0	4,301.7	295.29	15.568		
20,200.0	11,450.0	20,728.3	11,972.5	151.3	150.6	96.53	8,658.5	3,149.5	4,596.9	4,298.0	298.85	15.382		
20,300.0	11,450.0	20,873.7	11,976.3	152.9	152.9	96.58	8,803.9	3,146.5	4,595.8	4,293.1	302.76	15.180		
20,400.0	11,450.0	20,985.1	11,979.7	154.5	154.7	96.62	8,915.2	3,143.6	4,594.3	4,288.2	306.10	15.009		
20,500.0	11,450.0	21,114.6	11,981.1	156.1	156.7	96.64	9,044.6	3,139.8	4,592.3	4,282.5	309.74	14.826		
20,600.0	11,450.0	21,195.8	11,980.5	157.6	158.0	96.64	9,125.8	3,137.4	4,590.1	4,277.4	312.62	14.683		
20,700.0	11,450.0	21,299.4	11,978.0	159.2	159.7	96.61	9,229.3	3,135.0	4,588.3	4,272.4	315.87	14.526		
20,800.0	11,450.0	21,367.4	11,976.3	160.8	160.8	96.59	9,297.3	3,133.4	4,586.5	4,267.9	318.54	14.398		
20,900.0	11,450.0	21,421.0	11,974.3	162.4	161.6	96.56	9,350.9	3,132.8	4,585.7	4,264.7	320.95	14.288		
20,985.2	11,450.0	21,492.4	11,970.6	163.8	162.8	96.52	9,422.2	3,132.6	4,585.6	4,262.1	323.45	14.177		
21,000.0	11,450.0	21,505.5	11,969.8	164.0	163.0	96.51	9,435.2	3,132.6	4,585.6	4,261.7	323.89	14.158		
21,100.0	11,450.0	21,624.8	11,961.6	165.6	164.9	96.41	9,554.3	3,132.3	4,585.3	4,257.9	327.47	14.002		
21,160.3	11,450.0	21,668.0	11,958.5	166.6	165.6	96.37	9,597.4	3,132.3	4,585.2	4,256.1	329.11	13.932		
21,200.0	11,450.0	21,702.0	11,956.0	167.2	166.1	96.34	9,631.3	3,132.3	4,585.3	4,255.0	330.29	13.882		
21,300.0	11,450.0	21,781.8	11,952.4	168.8	167.4	96.29	9,711.0	3,132.5	4,585.7	4,252.5	333.15	13.765		
21,400.0	11,450.0	21,883.1	11,951.2	170.4	169.0	96.27	9,812.2	3,132.4	4,586.3	4,249.9	336.37	13.635		
21,500.0	11,450.0	22,037.3	11,949.5	172.0	171.5	96.25	9,966.4	3,131.1	4,586.0	4,245.4	340.52	13.467		
21,600.0	11,450.0	22,145.9	11,949.0	173.6	173.2	96.25	10,075.0	3,129.5	4,585.2	4,241.4	343.87	13.334		
21,700.0	11,450.0	22,258.4	11,947.9	175.2	175.0	96.24	10,187.5	3,127.6	4,584.2	4,236.9	347.29	13.200		
21,757.9	11,450.0	22,275.0	11,947.8	176.1	175.3	96.23	10,204.1	3,127.3	4,583.8	4,235.3	348.44	13.155 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 #135H
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 #135H	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	0.0	0.0	0.0	0.0	-111.21	-31.0	-79.9	85.7					
100.0	100.0	100.0	100.0	0.1	0.1	-7.16	-31.0	-79.9	85.6	85.3	0.26	332.695		
200.0	200.0	200.0	200.0	0.5	0.5	-7.20	-31.0	-79.9	85.1	84.1	0.97	87.404		
300.0	300.0	300.0	300.0	0.8	0.8	-7.27	-31.0	-79.9	84.3	82.6	1.69	49.852		
400.0	400.0	400.0	400.0	1.2	1.2	-7.37	-31.0	-79.9	83.1	80.7	2.41	34.530		
500.0	500.0	500.0	500.0	1.6	1.6	-7.51	-31.0	-79.9	81.7	78.5	3.12	26.135		
600.0	600.0	600.0	600.0	1.9	1.9	-7.68	-31.0	-79.9	79.9	76.0	3.84	20.789		
700.0	699.9	700.1	699.9	2.3	2.3	-7.89	-31.0	-79.9	77.7	73.2	4.56	17.053		
800.0	799.9	800.1	799.9	2.6	2.6	-8.15	-31.0	-79.9	75.3	70.0	5.28	14.271		
900.0	899.9	900.1	899.9	3.0	3.0	-8.46	-31.0	-79.9	72.5	66.5	5.99	12.101		
1,000.0	999.8	999.8	999.8	3.4	3.4	-8.84	-31.0	-79.9	69.4	62.7	6.71	10.348		
1,100.0	1,099.8	1,099.9	1,099.9	3.7	3.7	-10.06	-31.8	-79.5	65.9	58.5	7.41	8.896		
1,200.0	1,199.7	1,199.8	1,199.8	4.1	4.0	-13.08	-34.0	-78.2	62.0	53.9	8.10	7.655		
1,300.0	1,299.6	1,299.6	1,299.5	4.5	4.4	-18.29	-37.8	-76.0	58.0	49.2	8.79	6.595		
1,400.0	1,399.5	1,399.2	1,398.8	4.8	4.7	-26.15	-43.0	-72.9	54.5	45.0	9.49	5.742		
1,500.0	1,499.4	1,498.4	1,497.8	5.2	5.0	-36.83	-49.7	-69.0	52.5	42.3	10.20	5.147		
1,530.5	1,529.8	1,528.6	1,527.8	5.3	5.2	-40.58	-52.1	-67.7	52.4	42.0	10.42	5.027 CC, ES		
1,600.0	1,599.3	1,597.3	1,596.2	5.6	5.4	-49.70	-57.9	-64.3	53.2	42.3	10.91	4.873		
1,700.0	1,699.1	1,695.7	1,694.0	5.9	5.7	-63.07	-67.5	-58.7	57.5	45.9	11.61	4.953		
1,800.0	1,798.9	1,806.4	1,791.0	6.3	6.2	-75.06	-78.4	-52.3	65.9	53.6	12.35	5.341		
1,900.0	1,898.8	1,907.8	1,888.7	6.7	6.5	-84.65	-90.3	-45.4	77.5	64.4	13.06	5.934		
2,000.0	1,998.6	1,990.8	1,986.3	7.0	6.9	-91.83	-102.1	-38.5	90.6	76.9	13.71	6.613		
2,100.0	2,098.3	2,089.3	2,083.9	7.4	7.2	-97.32	-114.0	-31.6	104.9	90.5	14.41	7.277		
2,200.0	2,198.1	2,187.8	2,181.4	7.8	7.6	-101.62	-125.8	-24.7	119.9	104.8	15.12	7.929		
2,300.0	2,297.8	2,286.3	2,278.9	8.1	8.0	-105.08	-137.7	-17.8	135.6	119.7	15.84	8.558		
2,400.0	2,397.5	2,384.7	2,376.4	8.5	8.4	-107.93	-149.5	-10.9	151.7	135.1	16.56	9.161		
2,500.0	2,497.2	2,483.1	2,473.8	8.9	8.8	-110.34	-161.4	-4.0	168.3	151.0	17.28	9.736		
2,600.0	2,596.8	2,581.4	2,571.2	9.3	9.2	-112.40	-173.2	2.9	185.2	167.2	18.01	10.284		
2,700.0	2,696.4	2,679.8	2,668.6	9.7	9.6	-114.19	-185.0	9.7	202.4	183.7	18.73	10.805		
2,800.0	2,796.0	2,781.0	2,768.9	10.0	10.0	-115.84	-196.9	16.7	219.7	200.2	19.50	11.264		
2,900.0	2,895.6	2,885.7	2,873.0	10.4	10.4	-117.49	-207.0	22.6	234.9	214.6	20.30	11.571		
3,000.0	2,995.1	2,991.2	2,978.0	10.8	10.8	-119.16	-214.7	27.1	247.8	226.7	21.09	11.750		
3,100.0	3,094.6	3,097.1	3,083.8	11.2	11.2	-120.91	-220.0	30.1	258.4	236.5	21.86	11.816		
3,200.0	3,194.1	3,203.5	3,190.1	11.6	11.6	-122.76	-222.7	31.7	266.7	244.0	22.63	11.786		
3,300.0	3,293.5	3,306.9	3,293.5	12.0	11.9	-124.67	-223.1	31.9	273.0	249.7	23.36	11.689		
3,400.0	3,392.9	3,406.3	3,392.9	12.4	12.3	-126.51	-223.1	31.9	279.5	255.4	24.08	11.607		
3,500.0	3,492.2	3,505.6	3,492.2	12.7	12.6	-128.32	-223.1	31.9	286.4	261.6	24.80	11.550		
3,600.0	3,591.6	3,604.9	3,591.6	13.1	12.9	-130.09	-223.1	31.9	293.8	268.3	25.52	11.514		
3,700.0	3,690.8	3,704.2	3,690.8	13.5	13.2	-131.81	-223.1	31.9	301.7	275.5	26.24	11.499		
3,800.0	3,790.1	3,803.5	3,790.1	13.9	13.6	-133.49	-223.1	31.9	310.1	283.1	26.96	11.504		
3,900.0	3,889.3	3,902.6	3,889.3	14.3	13.9	-135.12	-223.1	31.9	319.0	291.3	27.67	11.525		
4,000.0	3,988.4	4,001.8	3,988.4	14.7	14.2	-136.70	-223.1	31.9	328.3	299.9	28.39	11.563		
4,100.0	4,087.5	4,100.9	4,087.5	15.2	14.6	-138.23	-223.1	31.9	338.2	309.0	29.11	11.616		
4,200.0	4,186.6	4,200.0	4,186.6	15.6	14.9	-139.70	-223.1	31.9	348.5	318.6	29.83	11.682		
4,300.0	4,285.6	4,301.0	4,285.6	16.0	15.2	-141.12	-223.1	31.9	359.3	328.7	30.55	11.759		
4,400.0	4,384.6	4,402.0	4,384.6	16.4	15.6	-142.49	-223.1	31.9	370.5	339.3	31.28	11.847		
4,500.0	4,483.5	4,503.1	4,483.5	16.8	15.9	-143.81	-223.1	31.9	382.3	350.3	32.00	11.945		
4,600.0	4,582.4	4,604.2	4,582.4	17.2	16.3	-145.07	-223.1	31.9	394.5	361.7	32.73	12.054		
4,700.0	4,681.2	4,705.4	4,681.2	17.6	16.6	-146.28	-223.1	31.9	407.1	373.7	33.45	12.171		
4,800.0	4,780.0	4,806.6	4,780.0	18.1	16.9	-147.44	-223.1	31.9	420.2	386.0	34.17	12.297		
4,900.0	4,878.7	4,907.9	4,878.7	18.5	17.3	-148.56	-223.1	31.9	433.8	398.9	34.90	12.429		
5,000.0	4,977.4	5,009.2	4,977.4	18.9	17.6	-149.62	-223.1	31.9	447.7	412.1	35.62	12.569		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,089.4	5,076.0	19.3	17.9	-150.65	-223.1	31.9	462.2	425.9	36.27	12.741		
5,180.6	5,155.5	5,168.9	5,155.5	19.7	18.2	-151.44	-223.1	31.9	474.1	437.2	36.85	12.866		
5,200.0	5,174.6	5,188.0	5,174.6	19.8	18.3	-151.62	-223.1	31.9	477.0	440.0	36.99	12.896		
5,300.0	5,273.2	5,286.5	5,273.2	20.2	18.6	-152.56	-223.1	31.9	492.0	454.3	37.70	13.051		
5,400.0	5,371.7	5,385.1	5,371.7	20.6	18.9	-153.44	-223.1	31.9	507.2	468.8	38.42	13.204		
5,500.0	5,470.2	5,483.6	5,470.2	21.1	19.3	-154.27	-223.1	31.9	522.5	483.4	39.13	13.353		
5,600.0	5,568.8	5,582.2	5,568.8	21.5	19.6	-155.06	-223.1	31.9	537.9	498.1	39.84	13.501		
5,700.0	5,667.3	5,680.7	5,667.3	22.0	20.0	-155.80	-223.1	31.9	553.4	512.8	40.56	13.645		
5,755.0	5,721.5	5,734.9	5,721.5	22.2	20.1	-156.19	-223.1	31.9	561.9	521.0	40.95	13.723		
5,800.0	5,765.9	5,779.3	5,765.9	22.4	20.3	-156.50	-223.1	31.9	568.9	527.7	41.27	13.785		
5,900.0	5,864.5	5,877.9	5,864.5	22.8	20.6	-157.16	-223.1	31.9	584.3	542.3	41.98	13.917		
6,000.0	5,963.1	5,976.5	5,963.1	23.3	21.0	-157.78	-223.1	31.9	599.4	556.7	42.70	14.039		
6,100.0	6,061.9	6,075.2	6,061.9	23.7	21.3	-158.35	-223.1	31.9	614.3	570.9	43.41	14.151		
6,200.0	6,160.6	6,174.0	6,160.6	24.1	21.7	-158.89	-223.1	31.9	629.0	584.8	44.13	14.254		
6,300.0	6,259.4	6,272.8	6,259.4	24.6	22.0	-159.39	-223.1	31.9	643.4	598.5	44.84	14.348		
6,400.0	6,358.3	6,371.7	6,358.3	25.0	22.4	-159.86	-223.1	31.9	657.5	611.9	45.55	14.433		
6,500.0	6,457.2	6,470.6	6,457.2	25.4	22.7	-160.30	-223.1	31.9	671.3	625.1	46.27	14.510		
6,600.0	6,556.2	6,569.5	6,556.2	25.8	23.1	-160.72	-223.1	31.9	684.9	637.9	46.98	14.579		
6,700.0	6,655.2	6,668.5	6,655.2	26.3	23.4	-161.11	-223.1	31.9	698.2	650.5	47.70	14.639		
6,800.0	6,754.2	6,767.6	6,754.2	26.7	23.8	-161.47	-223.1	31.9	711.3	662.9	48.41	14.693		
6,900.0	6,853.3	6,866.7	6,853.3	27.1	24.1	-161.82	-223.1	31.9	724.0	674.9	49.12	14.739		
7,000.0	6,952.4	6,965.8	6,952.4	27.5	24.4	-162.14	-223.1	31.9	736.5	686.6	49.84	14.777		
7,100.0	7,051.6	7,065.0	7,051.6	27.9	24.8	-162.45	-223.1	31.9	748.7	698.1	50.55	14.809		
7,200.0	7,150.8	7,164.2	7,150.8	28.3	25.1	-162.74	-223.1	31.9	760.5	709.3	51.27	14.835		
7,300.0	7,250.1	7,263.5	7,250.1	28.7	25.5	-163.01	-223.1	31.9	772.1	720.1	51.98	14.854		
7,400.0	7,349.4	7,362.8	7,349.4	29.1	25.8	-163.27	-223.1	31.9	783.4	730.7	52.69	14.867		
7,500.0	7,448.8	7,462.1	7,448.8	29.6	26.2	-163.51	-223.1	31.9	794.4	741.0	53.41	14.874		
7,600.0	7,548.1	7,561.5	7,548.1	30.0	26.5	-163.74	-223.1	31.9	805.1	750.9	54.12	14.875		
7,700.0	7,647.6	7,660.9	7,647.6	30.4	26.9	-163.96	-223.1	31.9	815.5	760.6	54.84	14.871		
7,800.0	7,747.0	7,760.4	7,747.0	30.7	27.2	-164.17	-223.1	31.9	825.5	770.0	55.55	14.861		
7,900.0	7,846.5	7,859.9	7,846.5	31.1	27.6	-164.36	-223.1	31.9	835.3	779.0	56.26	14.846		
8,000.0	7,946.0	7,959.4	7,946.0	31.5	27.9	-164.55	-223.1	31.9	844.8	787.8	56.98	14.826		
8,100.0	8,045.5	8,058.9	8,045.5	31.9	28.3	-164.72	-223.1	31.9	853.9	796.2	57.69	14.802		
8,200.0	8,145.1	8,158.5	8,145.1	32.3	28.6	-164.89	-223.1	31.9	862.8	804.4	58.40	14.772		
8,300.0	8,244.7	8,258.1	8,244.7	32.7	29.0	-165.04	-223.1	31.9	871.3	812.2	59.12	14.738		
8,400.0	8,344.4	8,357.7	8,344.4	33.1	29.3	-165.19	-223.1	31.9	879.5	819.7	59.83	14.700		
8,500.0	8,444.0	8,457.4	8,444.0	33.5	29.7	-165.33	-223.1	31.9	887.4	826.9	60.54	14.658		
8,600.0	8,543.7	8,557.1	8,543.7	33.8	30.1	-165.46	-223.1	31.9	895.0	833.8	61.26	14.611		
8,700.0	8,643.4	8,656.8	8,643.4	34.2	30.4	-165.58	-223.1	31.9	902.3	840.4	61.97	14.561		
8,800.0	8,743.2	8,756.6	8,743.2	34.6	30.8	-165.70	-223.1	31.9	909.3	846.6	62.68	14.507		
8,900.0	8,843.0	8,856.3	8,843.0	35.0	31.1	-165.81	-223.1	31.9	915.9	852.6	63.39	14.449		
9,000.0	8,942.7	8,956.1	8,942.7	35.3	31.5	-165.91	-223.1	31.9	922.3	858.2	64.10	14.387		
9,100.0	9,042.5	9,055.9	9,042.5	35.7	31.8	-166.00	-223.1	31.9	928.3	863.5	64.81	14.322		
9,200.0	9,142.4	9,155.7	9,142.4	36.1	32.2	-166.09	-223.1	31.9	934.0	868.5	65.53	14.254		
9,300.0	9,242.2	9,255.6	9,242.2	36.4	32.5	-166.18	-223.1	31.9	939.4	873.2	66.24	14.182		
9,400.0	9,342.1	9,355.5	9,342.1	36.8	32.9	-166.26	-223.1	31.9	944.5	877.5	66.95	14.108		
9,500.0	9,442.0	9,455.3	9,442.0	37.1	33.2	-166.33	-223.1	31.9	949.2	881.6	67.66	14.030		
9,600.0	9,541.9	9,555.2	9,541.9	37.5	33.6	-166.40	-223.1	31.9	953.7	885.3	68.37	13.949		
9,700.0	9,641.8	9,655.1	9,641.8	37.9	33.9	-166.46	-223.1	31.9	957.8	888.7	69.08	13.865		
9,800.0	9,741.7	9,755.1	9,741.7	38.2	34.3	-166.51	-223.1	31.9	961.6	891.8	69.79	13.779		
9,900.0	9,841.6	9,855.0	9,841.6	38.6	34.6	-166.56	-223.1	31.9	965.1	894.6	70.50	13.689		
10,000.0	9,941.6	9,954.9	9,941.6	38.9	35.0	-166.61	-223.1	31.9	968.2	897.0	71.21	13.597		

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 #135H
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 #135H	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		
10,100.0	10,041.5	10,054.9	10,041.5	39.3	35.4	-166.65	-223.1	31.9	971.0	899.1	71.91	13.503		
10,200.0	10,141.5	10,154.9	10,141.5	39.6	35.7	-166.69	-223.1	31.9	973.6	900.9	72.62	13.406		
10,300.0	10,241.5	10,254.8	10,241.5	39.9	36.1	-166.72	-223.1	31.9	975.8	902.4	73.33	13.306		
10,400.0	10,341.5	10,354.8	10,341.5	40.3	36.4	-166.75	-223.1	31.9	977.6	903.6	74.04	13.205		
10,500.0	10,441.4	10,454.8	10,441.4	40.6	36.8	-166.77	-223.1	31.9	979.2	904.5	74.74	13.101		
10,600.0	10,541.4	10,554.8	10,541.4	41.0	37.1	-166.78	-223.1	31.9	980.4	905.0	75.45	12.994		
10,700.0	10,641.4	10,654.8	10,641.4	41.3	37.5	-166.80	-223.1	31.9	981.4	905.2	76.16	12.886		
10,800.0	10,741.4	10,754.8	10,741.4	41.6	37.8	-166.81	-223.1	31.9	981.9	905.1	76.86	12.775		
10,900.0	10,841.4	10,854.8	10,841.4	42.0	38.2	-166.81	-223.1	31.9	982.2	904.7	77.57	12.662		
10,935.6	10,877.0	10,890.4	10,877.0	42.1	38.3	89.12	-223.1	31.9	982.2	904.4	77.82	12.622		
10,950.0	10,891.4	10,907.1	10,893.7	42.1	38.4	110.70	-222.8	31.9	982.3	904.4	77.93	12.605		
11,000.0	10,941.3	10,964.8	10,951.2	42.3	38.6	110.56	-218.2	31.4	983.2	904.9	78.31	12.556		
11,050.0	10,990.7	11,022.4	11,007.9	42.4	38.8	110.26	-208.0	30.5	985.2	906.6	78.67	12.524		
11,100.0	11,039.2	11,079.6	11,062.8	42.6	38.9	109.79	-192.2	29.0	988.4	909.4	79.00	12.511		
11,150.0	11,086.5	11,136.4	11,115.6	42.8	39.1	109.16	-171.3	27.0	992.7	913.4	79.32	12.515		
11,200.0	11,132.1	11,192.6	11,165.4	42.9	39.3	108.38	-145.5	24.6	998.1	918.5	79.62	12.536		
11,250.0	11,175.9	11,248.2	11,212.0	43.1	39.4	107.45	-115.4	21.7	1,004.5	924.6	79.90	12.572		
11,300.0	11,217.3	11,303.0	11,254.9	43.2	39.6	106.39	-81.4	18.5	1,012.0	931.8	80.17	12.623		
11,350.0	11,256.2	11,357.1	11,293.8	43.3	39.7	105.20	-44.0	15.0	1,020.5	940.0	80.44	12.687		
11,400.0	11,292.2	11,410.4	11,328.5	43.5	39.8	103.90	-3.8	11.2	1,029.9	949.2	80.70	12.762		
11,450.0	11,325.0	11,462.9	11,358.9	43.6	39.9	102.50	38.8	7.1	1,040.1	959.1	80.95	12.848		
11,500.0	11,354.5	11,514.6	11,384.9	43.7	40.1	101.02	83.3	2.9	1,051.1	969.9	81.21	12.943		
11,550.0	11,380.3	11,565.6	11,406.4	43.9	40.2	99.46	129.3	-1.4	1,062.9	981.4	81.47	13.046		
11,600.0	11,402.2	11,615.8	11,423.6	44.0	40.3	97.84	176.3	-5.8	1,075.3	993.5	81.74	13.155		
11,650.0	11,420.2	11,665.5	11,436.4	44.1	40.4	96.18	224.0	-10.4	1,088.2	1,006.1	82.01	13.269		
11,700.0	11,434.0	11,714.5	11,444.9	44.3	40.6	94.48	272.0	-14.9	1,101.5	1,019.2	82.28	13.387		
11,750.0	11,443.6	11,763.0	11,449.3	44.5	40.7	92.78	320.1	-19.4	1,115.1	1,032.5	82.56	13.507		
11,800.0	11,448.9	11,800.0	11,450.0	44.6	40.8	91.13	356.9	-22.9	1,129.0	1,046.2	82.79	13.637		
11,835.6	11,450.0	11,829.6	11,450.0	44.8	40.9	90.00	386.4	-25.4	1,139.2	1,056.2	82.99	13.727		
11,900.0	11,450.0	11,873.6	11,450.0	45.1	41.0	90.00	430.3	-28.6	1,157.8	1,074.5	83.32	13.896		
12,000.0	11,450.0	11,941.8	11,450.0	45.5	41.3	90.00	498.4	-32.3	1,185.8	1,101.9	83.88	14.136		
12,100.0	11,450.0	12,009.6	11,450.0	46.1	41.5	90.00	566.2	-34.3	1,212.6	1,128.1	84.50	14.351		
12,200.0	11,450.0	12,105.6	11,450.0	46.6	42.0	90.00	651.0	-35.1	1,238.1	1,152.7	85.37	14.502		
12,300.0	11,450.0	12,208.1	11,450.0	47.3	42.5	90.00	748.5	-35.9	1,260.3	1,173.9	86.43	14.582		
12,400.0	11,450.0	12,309.9	11,450.0	47.9	43.1	90.00	846.7	-36.6	1,279.1	1,191.5	87.59	14.602		
12,500.0	11,450.0	12,388.9	11,450.0	48.6	43.5	90.00	945.5	-37.4	1,294.5	1,205.7	88.72	14.590		
12,600.0	11,450.0	12,488.2	11,450.0	49.3	44.2	90.00	1,044.8	-38.2	1,306.4	1,216.3	90.07	14.504		
12,700.0	11,450.0	12,587.8	11,450.0	50.0	44.9	90.00	1,144.4	-39.0	1,314.8	1,223.3	91.51	14.368		
12,800.0	11,450.0	12,687.7	11,450.0	50.8	45.7	90.00	1,244.3	-39.8	1,319.8	1,226.7	93.04	14.185		
12,892.5	11,450.0	12,780.2	11,450.0	51.5	46.4	90.00	1,336.8	-40.5	1,321.2	1,226.7	94.53	13.977		
12,900.0	11,450.0	12,787.7	11,450.0	51.5	46.5	90.00	1,344.2	-40.6	1,321.2	1,226.6	94.65	13.959		
13,000.0	11,450.0	12,887.7	11,450.0	52.3	47.3	90.00	1,444.2	-41.3	1,321.2	1,224.9	96.34	13.713		
13,100.0	11,450.0	12,987.7	11,450.0	53.2	48.2	90.00	1,544.2	-42.1	1,321.2	1,223.1	98.12	13.465		
13,200.0	11,450.0	13,087.7	11,450.0	54.0	49.2	90.00	1,644.2	-42.9	1,321.2	1,221.2	99.97	13.215		
13,300.0	11,450.0	13,187.7	11,450.0	54.9	50.1	90.00	1,744.2	-43.7	1,321.2	1,219.3	101.90	12.965		
13,400.0	11,450.0	13,287.7	11,450.0	55.9	51.1	90.00	1,844.2	-44.5	1,321.1	1,217.2	103.90	12.715		
13,500.0	11,450.0	13,387.7	11,450.0	56.8	52.2	90.00	1,944.2	-45.3	1,321.1	1,215.2	105.97	12.467		
13,600.0	11,450.0	13,487.7	11,450.0	57.8	53.3	90.00	2,044.2	-46.1	1,321.1	1,213.0	108.09	12.222		
13,700.0	11,450.0	13,587.7	11,450.0	58.8	54.4	90.00	2,144.2	-46.9	1,321.1	1,210.8	110.28	11.979		
13,800.0	11,450.0	13,687.7	11,450.0	59.9	55.5	90.00	2,244.2	-47.6	1,321.1	1,208.5	112.52	11.740		
13,888.8	11,450.0	13,776.5	11,450.0	60.9	56.5	90.00	2,333.0	-48.3	1,321.0	1,206.5	114.56	11.532		
13,900.0	11,450.0	13,787.7	11,450.0	61.0	56.6	90.00	2,344.2	-48.4	1,321.0	1,206.2	114.82	11.506		

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 #135H
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 #135H	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		
14,000.0	11,450.0	13,887.7	11,450.0	62.1	57.8	90.00	2,444.2	-49.2	1,321.0	1,203.9	117.16	11.276		
14,100.0	11,450.0	13,987.7	11,450.0	63.2	59.0	90.00	2,544.2	-50.0	1,321.0	1,201.5	119.55	11.050		
14,200.0	11,450.0	14,087.7	11,450.0	64.4	60.3	90.00	2,644.2	-50.8	1,321.0	1,199.0	121.98	10.830		
14,300.0	11,450.0	14,187.7	11,450.0	65.6	61.5	90.00	2,744.2	-51.6	1,321.0	1,196.5	124.45	10.614		
14,400.0	11,450.0	14,287.7	11,450.0	66.8	62.8	90.00	2,844.2	-52.4	1,321.0	1,194.0	126.96	10.404		
14,500.0	11,450.0	14,387.7	11,450.0	68.0	64.0	90.00	2,944.2	-53.2	1,320.9	1,191.4	129.51	10.200		
14,600.0	11,450.0	14,487.7	11,450.0	69.2	65.3	90.00	3,044.2	-53.9	1,320.9	1,188.8	132.09	10.000		
14,700.0	11,450.0	14,587.7	11,450.0	70.5	66.7	90.00	3,144.2	-54.7	1,320.9	1,186.2	134.71	9.806		
14,800.0	11,450.0	14,687.7	11,450.0	71.7	68.0	90.00	3,244.2	-55.5	1,320.9	1,183.5	137.35	9.617		
14,900.0	11,450.0	14,787.7	11,450.0	73.0	69.3	90.00	3,344.2	-56.3	1,320.9	1,180.8	140.02	9.433		
15,000.0	11,450.0	14,887.7	11,450.0	74.3	70.7	90.00	3,444.2	-57.1	1,320.8	1,178.1	142.72	9.255		
15,100.0	11,450.0	14,987.7	11,450.0	75.7	72.1	90.00	3,544.2	-57.9	1,320.8	1,175.4	145.45	9.081		
15,200.0	11,450.0	15,087.7	11,450.0	77.0	73.4	90.00	3,644.2	-58.7	1,320.8	1,172.6	148.20	8.913		
15,236.3	11,450.0	15,124.0	11,450.0	77.5	73.9	90.00	3,680.5	-59.0	1,320.8	1,171.6	149.20	8.853		
15,300.0	11,450.0	15,187.7	11,450.0	78.3	74.8	90.00	3,744.2	-59.5	1,320.1	1,169.1	150.97	8.744		
15,400.0	11,450.0	15,287.6	11,450.0	79.6	76.2	90.00	3,844.1	-60.3	1,316.1	1,162.4	153.74	8.560		
15,500.0	11,450.0	15,387.3	11,450.0	80.9	77.6	90.00	3,943.8	-61.0	1,308.6	1,152.1	156.52	8.361		
15,600.0	11,450.0	15,486.7	11,450.0	82.2	79.1	90.00	4,043.2	-61.8	1,297.7	1,138.4	159.30	8.146		
15,700.0	11,450.0	15,585.7	11,450.0	83.5	80.5	90.00	4,142.1	-62.6	1,283.3	1,121.2	162.07	7.918		
15,800.0	11,450.0	15,684.0	11,450.0	84.8	81.9	90.00	4,240.5	-63.4	1,265.4	1,100.6	164.83	7.677		
15,900.0	11,450.0	15,781.7	11,450.0	86.0	83.3	90.00	4,338.2	-64.1	1,244.1	1,076.6	167.57	7.424		
15,966.5	11,450.0	15,846.3	11,450.0	86.8	84.3	90.00	4,402.7	-64.7	1,228.1	1,058.7	169.39	7.250		
16,000.0	11,450.0	15,878.7	11,450.0	87.2	84.7	90.00	4,435.2	-64.9	1,219.8	1,049.5	170.30	7.163		
16,100.0	11,450.0	15,976.2	11,450.0	88.5	86.2	90.00	4,532.7	-65.7	1,197.4	1,024.4	173.07	6.919		
16,200.0	11,450.0	16,074.4	11,450.0	89.7	87.6	90.00	4,630.8	-66.5	1,178.5	1,002.6	175.89	6.700		
16,300.0	11,450.0	16,173.2	11,450.0	91.1	89.1	90.00	4,729.6	-67.2	1,162.9	984.2	178.75	6.506		
16,400.0	11,450.0	16,272.4	11,450.0	92.5	90.5	90.00	4,828.9	-68.0	1,150.8	969.2	181.64	6.336		
16,500.0	11,450.0	16,372.0	11,450.0	93.9	92.0	90.00	4,928.5	-68.8	1,142.2	957.6	184.58	6.188		
16,600.0	11,450.0	16,471.9	11,450.0	95.3	93.5	90.00	5,028.4	-69.6	1,137.1	949.5	187.54	6.063		
16,697.2	11,450.0	16,569.1	11,450.0	96.7	95.0	90.00	5,125.5	-70.4	1,135.4	945.0	190.44	5.962		
16,700.0	11,450.0	16,571.9	11,450.0	96.8	95.0	90.00	5,128.3	-70.4	1,135.4	944.9	190.52	5.960		
16,800.0	11,450.0	16,671.9	11,450.0	98.2	96.5	90.00	5,228.3	-71.2	1,137.3	943.7	193.53	5.877		
16,900.0	11,450.0	16,771.7	11,450.0	99.7	98.0	90.00	5,328.2	-71.9	1,142.6	946.1	196.55	5.813		
17,000.0	11,450.0	16,871.3	11,450.0	101.3	99.5	90.00	5,427.8	-72.7	1,151.4	951.8	199.58	5.769		
17,100.0	11,450.0	16,970.6	11,450.0	102.8	101.0	90.00	5,527.0	-73.5	1,163.7	961.1	202.62	5.743		
17,200.0	11,450.0	17,069.3	11,450.0	104.4	102.5	90.00	5,625.7	-74.3	1,179.4	973.8	205.66	5.735		
17,300.0	11,450.0	17,167.4	11,450.0	106.0	104.0	90.00	5,723.9	-75.1	1,198.6	989.9	208.70	5.743		
17,400.0	11,450.0	17,264.9	11,450.0	107.5	105.5	90.00	5,821.3	-75.8	1,221.2	1,009.5	211.74	5.768		
17,426.1	11,450.0	17,309.8	11,450.0	108.0	106.2	90.00	5,846.6	-76.0	1,227.7	1,014.8	212.83	5.768		
17,500.0	11,450.0	17,361.9	11,450.0	109.1	107.0	90.00	5,918.3	-76.6	1,245.3	1,030.6	214.77	5.798		
17,600.0	11,450.0	17,459.7	11,450.0	110.7	108.5	90.00	6,016.1	-77.4	1,266.3	1,048.5	217.83	5.813		
17,700.0	11,450.0	17,558.1	11,450.0	112.3	110.0	90.00	6,114.5	-78.1	1,283.8	1,062.9	220.91	5.812		
17,800.0	11,450.0	17,657.1	11,450.0	113.9	111.6	90.00	6,213.5	-78.9	1,297.9	1,073.9	224.00	5.794		
17,900.0	11,450.0	17,756.5	11,450.0	115.5	113.1	90.00	6,313.0	-79.7	1,308.6	1,081.5	227.10	5.762		
18,000.0	11,450.0	17,856.3	11,450.0	117.0	114.7	90.00	6,412.7	-80.5	1,315.7	1,085.5	230.21	5.715		
18,100.0	11,450.0	17,956.2	11,450.0	118.6	116.2	90.00	6,512.6	-81.3	1,319.4	1,086.0	233.33	5.655		
18,155.7	11,450.0	18,011.9	11,450.0	119.4	117.1	90.00	6,568.3	-81.7	1,319.9	1,084.8	235.06	5.615		
18,200.0	11,450.0	18,056.2	11,450.0	120.1	117.8	90.00	6,612.6	-82.1	1,319.9	1,083.5	236.43	5.582		
18,300.0	11,450.0	18,156.2	11,450.0	121.7	119.3	90.00	6,712.6	-82.9	1,319.9	1,080.3	239.55	5.510		
18,400.0	11,450.0	18,256.2	11,450.0	123.2	120.9	90.00	6,812.6	-83.6	1,319.8	1,077.2	242.67	5.439		
18,500.0	11,450.0	18,356.2	11,450.0	124.7	122.5	90.00	6,912.6	-84.4	1,319.8	1,074.0	245.79	5.370		
18,600.0	11,450.0	18,456.2	11,450.0	126.3	124.0	90.00	7,012.6	-85.2	1,319.8	1,070.9	248.92	5.302		

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 #135H
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 #135H	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	
18,700.0	11,450.0	18,556.2	11,450.0	127.8	125.6	90.00	7,112.6	-86.0	1,319.8	1,067.7	252.05	5.236	
18,800.0	11,450.0	18,656.2	11,450.0	129.4	127.2	90.00	7,212.6	-86.8	1,319.7	1,064.6	255.19	5.172	
18,900.0	11,450.0	18,756.2	11,450.0	130.9	128.7	90.00	7,312.6	-87.6	1,319.7	1,061.4	258.33	5.109	
19,000.0	11,450.0	18,856.2	11,450.0	132.5	130.3	90.00	7,412.6	-88.4	1,319.7	1,058.2	261.48	5.047	
19,100.0	11,450.0	18,956.2	11,450.0	134.0	131.9	90.00	7,512.6	-89.2	1,319.7	1,055.0	264.63	4.987	
19,200.0	11,450.0	19,056.2	11,450.0	135.6	133.5	90.00	7,612.6	-90.0	1,319.7	1,051.9	267.78	4.928	
19,300.0	11,450.0	19,156.2	11,450.0	137.2	135.1	90.00	7,712.6	-90.7	1,319.6	1,048.7	270.94	4.870	
19,400.0	11,450.0	19,256.2	11,450.0	138.7	136.6	90.00	7,812.6	-91.5	1,319.6	1,045.5	274.11	4.814	
19,500.0	11,450.0	19,356.2	11,450.0	140.3	138.2	90.00	7,912.6	-92.3	1,319.6	1,042.3	277.27	4.759	
19,600.0	11,450.0	19,456.2	11,450.0	141.9	139.8	90.00	8,012.6	-93.1	1,319.6	1,039.1	280.44	4.705	
19,700.0	11,450.0	19,556.2	11,450.0	143.4	141.4	90.00	8,112.6	-93.9	1,319.5	1,035.9	283.61	4.653	
19,800.0	11,450.0	19,656.2	11,450.0	145.0	143.0	90.00	8,212.6	-94.7	1,319.5	1,032.7	286.79	4.601	
19,900.0	11,450.0	19,756.2	11,450.0	146.6	144.6	90.00	8,312.6	-95.5	1,319.5	1,029.5	289.97	4.550	
20,000.0	11,450.0	19,856.2	11,450.0	148.2	146.2	90.00	8,412.6	-96.3	1,319.5	1,026.3	293.15	4.501	
20,100.0	11,450.0	19,956.2	11,450.0	149.7	147.8	90.00	8,512.6	-97.0	1,319.4	1,023.1	296.34	4.452	
20,200.0	11,450.0	20,056.2	11,450.0	151.3	149.4	90.00	8,612.5	-97.8	1,319.4	1,019.9	299.53	4.405	
20,300.0	11,450.0	20,156.2	11,450.0	152.9	151.0	90.00	8,712.5	-98.6	1,319.4	1,016.7	302.72	4.358	
20,400.0	11,450.0	20,256.2	11,450.0	154.5	152.6	90.00	8,812.5	-99.4	1,319.4	1,013.5	305.91	4.313	
20,500.0	11,450.0	20,356.2	11,450.0	156.1	154.2	90.00	8,912.5	-100.2	1,319.3	1,010.2	309.11	4.268	
20,600.0	11,450.0	20,456.2	11,450.0	157.6	155.8	90.00	9,012.5	-101.0	1,319.3	1,007.0	312.31	4.224	
20,700.0	11,450.0	20,556.2	11,450.0	159.2	157.4	90.00	9,112.5	-101.8	1,319.3	1,003.8	315.51	4.181	
20,800.0	11,450.0	20,656.2	11,450.0	160.8	159.0	90.00	9,212.5	-102.6	1,319.3	1,000.6	318.71	4.139	
20,900.0	11,450.0	20,756.2	11,450.0	162.4	160.6	90.00	9,312.5	-103.3	1,319.2	997.3	321.92	4.098	
21,000.0	11,450.0	20,856.2	11,450.0	164.0	162.2	90.00	9,412.5	-104.1	1,319.2	994.1	325.13	4.058	
21,100.0	11,450.0	20,956.2	11,450.0	165.6	163.8	90.00	9,512.5	-104.9	1,319.2	990.9	328.34	4.018	
21,200.0	11,450.0	21,056.2	11,450.0	167.2	165.4	90.00	9,612.5	-105.7	1,319.2	987.6	331.55	3.979	
21,300.0	11,450.0	21,156.2	11,450.0	168.8	167.0	90.00	9,712.5	-106.5	1,319.2	984.4	334.76	3.941	
21,400.0	11,450.0	21,256.2	11,450.0	170.4	168.6	90.00	9,812.5	-107.3	1,319.1	981.1	337.98	3.903	
21,500.0	11,450.0	21,356.2	11,450.0	172.0	170.2	90.00	9,912.5	-108.1	1,319.1	977.9	341.20	3.866	
21,600.0	11,450.0	21,456.2	11,450.0	173.6	171.8	90.00	10,012.5	-108.9	1,319.1	974.7	344.42	3.830	
21,700.0	11,450.0	21,556.2	11,450.0	175.2	173.5	90.00	10,112.5	-109.7	1,319.1	971.4	347.64	3.794	
21,757.9	11,450.0	21,614.1	11,450.0	176.1	174.4	90.00	10,170.4	-110.1	1,319.0	969.6	349.48	3.774 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 #135H
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 #135H	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	90.08	-3.4	2,343.2	2,343.2					
100.0	100.0	101.0	99.0	0.1	0.1	-165.85	-3.4	2,343.2	2,343.3	2,343.1	0.26	8,985.046		
200.0	200.0	201.0	199.0	0.5	0.5	-165.86	-3.4	2,343.2	2,343.8	2,342.8	0.98	2,398.454		
300.0	300.0	301.0	299.0	0.8	0.8	-165.86	-3.4	2,343.2	2,344.6	2,342.9	1.69	1,383.825		
400.0	400.0	401.0	399.0	1.2	1.2	-165.87	-3.4	2,343.2	2,345.7	2,343.3	2.41	972.735		
500.0	500.0	501.0	499.0	1.6	1.6	-165.88	-3.4	2,343.2	2,347.2	2,344.0	3.13	750.192		
600.0	600.0	601.0	599.0	1.9	1.9	-165.89	-3.4	2,343.2	2,348.9	2,345.1	3.85	610.723		
700.0	699.9	701.1	698.9	2.3	2.3	-165.90	-3.4	2,343.2	2,351.0	2,346.4	4.56	515.161		
800.0	799.9	801.1	798.9	2.6	2.6	-165.91	-3.4	2,343.2	2,353.4	2,348.1	5.28	445.614		
900.0	899.9	901.1	898.9	3.0	3.0	-165.93	-3.4	2,343.2	2,356.1	2,350.1	6.00	392.751		
1,000.0	999.8	998.8	998.8	3.4	3.4	-165.94	-3.4	2,343.2	2,359.1	2,352.4	6.71	351.668		
1,100.0	1,099.8	1,167.9	1,167.9	3.7	3.9	-165.97	-3.5	2,340.7	2,361.0	2,353.4	7.65	308.438		
1,200.0	1,199.7	1,338.0	1,337.8	4.1	4.5	-166.01	-3.7	2,333.2	2,360.3	2,351.7	8.60	274.474		
1,300.0	1,299.6	1,507.8	1,507.1	4.5	5.1	-166.04	-4.1	2,320.7	2,356.9	2,347.4	9.54	246.964		
1,400.0	1,399.5	1,677.2	1,675.6	4.8	5.7	-166.08	-4.6	2,303.2	2,350.9	2,340.4	10.48	224.235		
1,500.0	1,499.4	1,804.3	1,801.7	5.2	6.2	-166.10	-5.1	2,287.1	2,342.8	2,331.5	11.28	207.620		
1,600.0	1,599.3	1,904.0	1,900.5	5.6	6.6	-166.13	-5.5	2,274.2	2,334.8	2,322.8	12.00	194.623		
1,700.0	1,699.1	2,003.7	1,999.4	5.9	7.0	-166.15	-6.0	2,261.3	2,327.1	2,314.4	12.71	183.076		
1,800.0	1,798.9	2,103.4	2,098.3	6.3	7.4	-166.18	-6.4	2,248.4	2,319.7	2,306.3	13.43	172.758		
1,900.0	1,898.8	2,203.1	2,197.2	6.7	7.8	-166.21	-6.8	2,235.5	2,312.6	2,298.5	14.15	163.488		
2,000.0	1,998.6	2,302.9	2,296.1	7.0	8.2	-166.25	-7.2	2,222.6	2,305.9	2,291.0	14.87	155.120		
2,100.0	2,098.3	2,402.7	2,395.1	7.4	8.6	-166.28	-7.6	2,209.7	2,299.5	2,283.9	15.59	147.532		
2,200.0	2,198.1	2,502.5	2,494.0	7.8	9.0	-166.32	-8.0	2,196.7	2,293.4	2,277.1	16.31	140.623		
2,300.0	2,297.8	2,602.3	2,593.0	8.1	9.4	-166.35	-8.4	2,183.8	2,287.6	2,270.6	17.03	134.311		
2,400.0	2,397.5	2,702.2	2,692.0	8.5	9.8	-166.39	-8.8	2,170.9	2,282.1	2,264.4	17.76	128.523		
2,500.0	2,497.2	2,802.0	2,791.0	8.9	10.2	-166.44	-9.2	2,158.0	2,277.0	2,258.5	18.48	123.200		
2,600.0	2,596.8	2,901.9	2,890.0	9.3	10.6	-166.48	-9.6	2,145.0	2,272.2	2,253.0	19.21	118.289		
2,700.0	2,696.4	3,001.8	2,989.1	9.7	11.0	-166.53	-10.0	2,132.1	2,267.7	2,247.8	19.94	113.748		
2,800.0	2,796.0	3,101.7	3,088.1	10.0	11.4	-166.58	-10.4	2,119.2	2,263.5	2,242.9	20.66	109.537		
2,900.0	2,895.6	3,201.6	3,187.2	10.4	11.8	-166.63	-10.8	2,106.2	2,259.7	2,238.3	21.39	105.625		
3,000.0	2,995.1	3,301.5	3,286.3	10.8	12.2	-166.68	-11.2	2,093.3	2,256.1	2,234.0	22.12	101.981		
3,100.0	3,094.6	3,401.4	3,385.4	11.2	12.6	-166.73	-11.6	2,080.4	2,252.9	2,230.1	22.85	98.580		
3,200.0	3,194.1	3,501.4	3,484.5	11.6	13.0	-166.79	-12.0	2,067.4	2,250.0	2,226.5	23.59	95.401		
3,300.0	3,293.5	3,601.3	3,583.6	12.0	13.4	-166.85	-12.4	2,054.5	2,247.5	2,223.2	24.32	92.424		
3,400.0	3,392.9	3,701.2	3,682.7	12.4	13.8	-166.91	-12.8	2,041.6	2,245.2	2,220.2	25.05	89.631		
3,500.0	3,492.2	3,801.2	3,781.8	12.7	14.2	-166.97	-13.2	2,028.6	2,243.3	2,217.5	25.78	87.008		
3,600.0	3,591.6	3,901.2	3,880.9	13.1	14.6	-167.03	-13.6	2,015.7	2,241.7	2,215.2	26.52	84.539		
3,700.0	3,690.8	4,001.1	3,980.0	13.5	15.0	-167.10	-14.0	2,002.7	2,240.5	2,213.2	27.25	82.214		
3,800.0	3,790.1	4,101.1	4,079.1	13.9	15.4	-167.16	-14.4	1,989.8	2,239.5	2,211.5	27.99	80.020		
3,900.0	3,889.3	4,201.0	4,178.3	14.3	15.8	-167.23	-14.8	1,976.9	2,238.9	2,210.2	28.72	77.949		
4,000.0	3,988.4	4,301.0	4,277.4	14.7	16.3	-167.30	-15.2	1,963.9	2,238.6	2,209.1	29.46	75.990		
4,041.5	4,029.6	4,342.5	4,318.5	14.9	16.4	-167.33	-15.4	1,958.5	2,238.6	2,208.8	29.76	75.209 CC		
4,100.0	4,087.5	4,401.0	4,376.5	15.2	16.7	-167.37	-15.6	1,951.0	2,238.6	2,208.4	30.20	74.137		
4,200.0	4,186.6	4,500.9	4,475.6	15.6	17.1	-167.45	-16.1	1,938.0	2,239.0	2,208.0	30.93	72.380		
4,300.0	4,285.6	4,600.9	4,574.7	16.0	17.5	-167.52	-16.5	1,925.1	2,239.6	2,208.0	31.67	70.715		
4,400.0	4,384.6	4,700.8	4,673.8	16.4	17.9	-167.60	-16.9	1,912.1	2,240.6	2,208.2	32.41	69.134		
4,500.0	4,483.5	4,800.8	4,772.9	16.8	18.3	-167.68	-17.3	1,899.2	2,242.0	2,208.8	33.15	67.633		
4,600.0	4,582.4	4,900.7	4,872.0	17.2	18.7	-167.76	-17.7	1,886.3	2,243.6	2,209.7	33.89	66.205		
4,700.0	4,681.2	5,000.6	4,971.1	17.6	19.1	-167.84	-18.1	1,873.3	2,245.6	2,211.0	34.63	64.847		
4,800.0	4,780.0	5,100.5	5,070.2	18.1	19.5	-167.93	-18.5	1,860.4	2,247.9	2,212.6	35.37	63.554		
4,900.0	4,878.7	5,200.5	5,169.2	18.5	19.9	-168.01	-18.9	1,847.5	2,250.6	2,214.5	36.11	62.323		
5,000.0	4,977.4	5,300.4	5,268.3	18.9	20.4	-168.10	-19.3	1,834.5	2,253.5	2,216.7	36.85	61.149		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,400.2	5,367.3	19.3	20.8	-168.19	-19.7	1,821.6	2,256.8	2,219.2	37.60	60.029		
5,180.6	5,155.5	5,480.7	5,447.2	19.7	21.1	-168.26	-20.0	1,811.2	2,259.7	2,221.5	38.19	59.164		
5,200.0	5,174.6	5,500.1	5,466.4	19.8	21.2	-168.28	-20.1	1,808.7	2,260.4	2,222.1	38.34	58.960		
5,300.0	5,273.2	5,600.0	5,565.4	20.2	21.6	-168.37	-20.5	1,795.7	2,264.2	2,225.1	39.08	57.934		
5,400.0	5,371.7	5,700.2	5,664.4	20.6	22.0	-168.46	-20.9	1,782.8	2,267.9	2,228.1	39.83	56.945		
5,500.0	5,470.2	5,800.3	5,763.5	21.1	22.4	-168.55	-21.3	1,769.9	2,271.6	2,231.0	40.57	55.992		
5,600.0	5,568.8	5,900.4	5,862.5	21.5	22.8	-168.64	-21.7	1,757.0	2,275.4	2,234.0	41.32	55.073		
5,700.0	5,667.3	6,000.6	5,961.5	22.0	23.2	-168.73	-22.1	1,744.0	2,279.1	2,237.0	42.06	54.187		
5,755.0	5,721.5	6,054.3	6,015.9	22.2	23.5	-168.77	-22.3	1,736.9	2,281.2	2,238.7	42.46	53.719		
5,800.0	5,765.9	6,100.7	6,060.5	22.4	23.7	-168.81	-22.5	1,731.1	2,282.8	2,240.0	42.81	53.331		
5,900.0	5,864.5	6,200.8	6,159.6	22.8	24.1	-168.90	-22.9	1,718.2	2,286.3	2,242.7	43.55	52.498		
6,000.0	5,963.1	6,300.9	6,258.6	23.3	24.5	-168.99	-23.3	1,705.2	2,289.4	2,245.1	44.29	51.686		
6,100.0	6,061.9	6,401.0	6,357.7	23.7	24.9	-169.07	-23.7	1,692.3	2,292.2	2,247.2	45.04	50.895		
6,200.0	6,160.6	6,498.9	6,456.8	24.1	25.3	-169.16	-24.1	1,679.4	2,294.7	2,248.9	45.77	50.132		
6,300.0	6,259.4	6,601.2	6,555.8	24.6	25.7	-169.24	-24.5	1,666.4	2,296.9	2,250.4	46.53	49.369		
6,400.0	6,358.3	6,701.2	6,654.9	25.0	26.1	-169.32	-24.9	1,653.5	2,298.7	2,251.5	47.27	48.632		
6,500.0	6,457.2	6,801.3	6,754.0	25.4	26.6	-169.40	-25.3	1,640.6	2,300.3	2,252.3	48.01	47.912		
6,600.0	6,556.2	6,901.4	6,853.1	25.8	27.0	-169.47	-25.8	1,627.6	2,301.5	2,252.7	48.75	47.208		
6,700.0	6,655.2	7,001.4	6,952.2	26.3	27.4	-169.55	-26.2	1,614.7	2,302.4	2,252.9	49.49	46.519		
6,800.0	6,754.2	7,101.4	7,051.4	26.7	27.8	-169.62	-26.6	1,601.7	2,303.0	2,252.7	50.23	45.844		
6,900.0	6,853.3	7,201.5	7,150.5	27.1	28.2	-169.69	-27.0	1,588.8	2,303.2	2,252.3	50.98	45.183		
7,000.0	6,952.4	7,301.5	7,249.6	27.5	28.6	-169.76	-27.4	1,575.9	2,303.2	2,251.5	51.72	44.535		
7,100.0	7,051.6	7,401.6	7,348.7	27.9	29.0	-169.83	-27.8	1,562.9	2,302.8	2,250.3	52.46	43.900		
7,200.0	7,150.8	7,498.4	7,447.8	28.3	29.4	-169.89	-28.2	1,550.0	2,302.1	2,248.9	53.18	43.287		
7,300.0	7,250.1	7,574.9	7,523.7	28.7	29.7	-169.94	-28.6	1,540.2	2,301.3	2,247.5	53.84	42.739		
7,309.2	7,259.2	7,579.5	7,528.3	28.8	29.8	-169.94	-28.7	1,539.7	2,301.3	2,247.4	53.90	42.698		
7,400.0	7,349.4	7,625.3	7,573.8	29.1	29.9	-169.94	-29.8	1,534.8	2,302.0	2,247.6	54.40	42.314		
7,500.0	7,448.8	7,676.5	7,624.7	29.6	30.1	-169.92	-32.2	1,530.5	2,304.6	2,249.7	54.94	41.947		
7,600.0	7,548.1	7,776.4	7,724.2	30.0	30.5	-169.85	-37.7	1,523.2	2,307.9	2,252.2	55.67	41.459		
7,700.0	7,647.6	7,876.3	7,823.7	30.4	30.9	-169.77	-43.2	1,515.9	2,310.9	2,254.5	56.39	40.978		
7,800.0	7,747.0	7,976.2	7,923.2	30.7	31.2	-169.69	-48.7	1,508.6	2,313.5	2,256.4	57.12	40.503		
7,900.0	7,846.5	8,076.1	8,022.7	31.1	31.6	-169.61	-54.2	1,501.3	2,315.9	2,258.0	57.85	40.035		
8,000.0	7,946.0	8,176.0	8,122.2	31.5	32.0	-169.53	-59.7	1,494.0	2,317.9	2,259.3	58.57	39.573		
8,100.0	8,045.5	8,276.0	8,221.7	31.9	32.4	-169.45	-65.2	1,486.7	2,319.6	2,260.3	59.30	39.117		
8,200.0	8,145.1	8,375.9	8,321.2	32.3	32.7	-169.37	-70.7	1,479.4	2,321.0	2,260.9	60.03	38.666		
8,300.0	8,244.7	8,475.8	8,420.8	32.7	33.1	-169.28	-76.3	1,472.1	2,322.0	2,261.3	60.75	38.222		
8,400.0	8,344.4	8,575.8	8,520.3	33.1	33.5	-169.20	-81.8	1,464.8	2,322.8	2,261.3	61.48	37.782		
8,500.0	8,444.0	8,675.7	8,619.8	33.5	33.8	-169.11	-87.3	1,457.5	2,323.2	2,261.0	62.20	37.348		
8,600.0	8,543.7	8,775.7	8,719.3	33.8	34.2	-169.02	-92.8	1,450.2	2,323.3	2,260.4	62.93	36.919		
8,700.0	8,643.4	8,875.6	8,818.8	34.2	34.6	-168.93	-98.3	1,442.9	2,323.1	2,259.4	63.66	36.494		
8,800.0	8,743.2	8,975.5	8,918.3	34.6	35.0	-168.84	-103.8	1,435.6	2,322.6	2,258.2	64.38	36.075		
8,900.0	8,843.0	9,075.4	9,017.8	35.0	35.3	-168.74	-109.4	1,428.3	2,321.7	2,256.6	65.11	35.659		
9,000.0	8,942.7	9,175.4	9,117.3	35.3	35.7	-168.65	-114.9	1,421.0	2,320.5	2,254.7	65.83	35.249		
9,100.0	9,042.5	9,275.3	9,216.8	35.7	36.1	-168.55	-120.4	1,413.7	2,319.1	2,252.5	66.56	34.842		
9,200.0	9,142.4	9,375.2	9,316.3	36.1	36.5	-168.45	-125.9	1,406.4	2,317.3	2,250.0	67.28	34.440		
9,300.0	9,242.2	9,475.1	9,415.8	36.4	36.8	-168.35	-131.4	1,399.1	2,315.2	2,247.2	68.01	34.042		
9,400.0	9,342.1	9,574.9	9,515.2	36.8	37.2	-168.24	-136.9	1,391.8	2,312.7	2,244.0	68.73	33.648		
9,500.0	9,442.0	9,674.8	9,614.7	37.1	37.6	-168.14	-142.4	1,384.5	2,310.0	2,240.5	69.46	33.257		
9,600.0	9,541.9	9,774.7	9,714.1	37.5	38.0	-168.03	-147.9	1,377.2	2,306.9	2,236.8	70.18	32.870		
9,700.0	9,641.8	9,874.5	9,813.6	37.9	38.3	-167.92	-153.4	1,369.9	2,303.6	2,232.7	70.91	32.487		
9,800.0	9,741.7	9,974.4	9,913.0	38.2	38.7	-167.81	-159.0	1,362.6	2,299.9	2,228.2	71.63	32.107		
9,900.0	9,841.6	10,074.2	10,012.4	38.6	39.1	-167.69	-164.5	1,355.3	2,295.9	2,223.5	72.35	31.731		

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 #135H
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 #135H	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		
10,000.0	9,941.6	10,174.0	10,111.8	38.9	39.5	-167.58	-170.0	1,348.0	2,291.6	2,218.5	73.08	31.358		
10,100.0	10,041.5	10,273.8	10,211.1	39.3	39.8	-167.46	-175.5	1,340.7	2,287.0	2,213.2	73.80	30.988		
10,200.0	10,141.5	10,373.5	10,310.5	39.6	40.2	-167.34	-181.0	1,333.4	2,282.0	2,207.5	74.52	30.621		
10,300.0	10,241.5	10,473.3	10,409.8	39.9	40.6	-167.21	-186.5	1,326.1	2,276.8	2,201.5	75.25	30.257		
10,400.0	10,341.5	10,573.0	10,509.1	40.3	41.0	-167.09	-192.0	1,318.9	2,271.2	2,195.3	75.97	29.896		
10,500.0	10,441.4	10,672.7	10,608.4	40.6	41.3	-166.96	-197.5	1,311.6	2,265.4	2,188.7	76.69	29.538		
10,600.0	10,541.4	10,759.5	10,694.8	41.0	41.7	-166.84	-202.3	1,305.2	2,259.2	2,181.9	77.36	29.205		
10,700.0	10,641.4	10,800.0	10,735.2	41.3	41.8	-166.79	-204.3	1,302.6	2,254.2	2,176.4	77.79	28.977		
10,800.0	10,741.4	10,870.5	10,805.6	41.6	42.1	-166.74	-206.5	1,299.6	2,250.7	2,172.3	78.35	28.727		
10,900.0	10,841.4	10,922.8	10,857.9	42.0	42.2	-166.72	-207.3	1,298.6	2,249.1	2,170.3	78.78	28.551		
10,935.6	10,877.0	10,941.9	10,877.0	42.1	42.3	89.22	-207.3	1,298.6	2,249.0	2,170.1	78.92	28.498		
10,936.0	10,877.4	10,941.9	10,877.0	42.1	42.3	110.80	-207.3	1,298.6	2,249.0	2,170.1	78.92	28.498		
10,950.0	10,891.4	10,955.1	10,890.1	42.1	42.3	110.79	-207.2	1,298.6	2,249.1	2,170.1	79.01	28.467 ES		
11,000.0	10,941.3	11,004.0	10,938.9	42.3	42.5	110.67	-204.0	1,298.5	2,250.3	2,171.0	79.32	28.369		
11,050.0	10,990.7	11,052.8	10,987.1	42.4	42.6	110.40	-196.6	1,298.5	2,253.1	2,173.5	79.63	28.294		
11,100.0	11,039.2	11,101.4	11,034.4	42.6	42.8	109.99	-185.3	1,298.4	2,257.5	2,177.5	79.93	28.243		
11,150.0	11,086.5	11,149.9	11,080.4	42.8	42.9	109.42	-170.0	1,298.3	2,263.3	2,183.1	80.21	28.216		
11,200.0	11,132.1	11,198.2	11,124.8	42.9	43.0	108.71	-151.0	1,298.1	2,270.6	2,190.1	80.49	28.211		
11,250.0	11,175.9	11,246.1	11,167.1	43.1	43.1	107.85	-128.5	1,297.9	2,279.3	2,198.6	80.75	28.228		
11,300.0	11,217.3	11,293.8	11,207.2	43.2	43.2	106.86	-102.6	1,297.7	2,289.4	2,208.4	81.00	28.266		
11,350.0	11,256.2	11,341.2	11,244.7	43.3	43.3	105.73	-73.8	1,297.5	2,300.7	2,219.5	81.24	28.322		
11,400.0	11,292.2	11,388.2	11,279.5	43.5	43.4	104.48	-42.1	1,297.3	2,313.2	2,231.8	81.47	28.394		
11,450.0	11,325.0	11,435.0	11,311.4	43.6	43.4	103.11	-8.0	1,297.0	2,326.8	2,245.1	81.70	28.481		
11,500.0	11,354.5	11,481.4	11,340.2	43.7	43.5	101.64	28.5	1,296.7	2,341.4	2,259.4	81.93	28.579		
11,550.0	11,380.3	11,527.7	11,365.9	43.9	43.5	100.06	66.9	1,296.4	2,356.8	2,274.6	82.16	28.687		
11,600.0	11,402.2	11,573.8	11,388.3	44.0	43.5	98.41	107.2	1,296.1	2,373.0	2,290.6	82.39	28.802		
11,650.0	11,420.2	11,619.8	11,407.4	44.1	43.6	96.69	149.0	1,295.7	2,389.8	2,307.1	82.63	28.923		
11,700.0	11,434.0	11,665.7	11,423.1	44.3	43.6	94.91	192.1	1,295.4	2,407.1	2,324.2	82.87	29.046		
11,750.0	11,443.6	11,711.6	11,435.2	44.5	43.7	93.10	236.4	1,295.0	2,424.7	2,341.6	83.13	29.169		
11,800.0	11,448.9	11,757.7	11,443.8	44.6	43.7	91.27	281.7	1,294.7	2,442.6	2,359.3	83.39	29.291		
11,835.6	11,450.0	11,790.6	11,447.7	44.8	43.7	89.97	314.4	1,294.4	2,455.5	2,371.9	83.58	29.377		
11,900.0	11,450.0	11,850.9	11,450.0	45.1	43.8	90.02	374.6	1,293.9	2,478.0	2,394.0	83.95	29.517		
12,000.0	11,450.0	11,945.6	11,450.0	45.5	44.0	90.02	469.2	1,293.2	2,510.3	2,425.7	84.61	29.670		
12,100.0	11,450.0	12,041.3	11,450.0	46.1	44.3	90.02	564.9	1,292.4	2,539.2	2,453.9	85.38	29.739		
12,200.0	11,450.0	12,137.9	11,450.0	46.6	44.7	90.02	661.6	1,291.7	2,564.9	2,478.6	86.28	29.727		
12,300.0	11,450.0	12,235.4	11,450.0	47.3	45.1	90.02	759.1	1,290.9	2,587.1	2,499.8	87.30	29.635		
12,400.0	11,450.0	12,333.6	11,450.0	47.9	45.6	90.02	857.3	1,290.1	2,605.9	2,517.4	88.43	29.469		
12,500.0	11,450.0	12,432.4	11,450.0	48.6	46.1	90.02	956.1	1,289.3	2,621.2	2,531.6	89.66	29.235		
12,600.0	11,450.0	12,531.7	11,450.0	49.3	46.8	90.02	1,055.4	1,288.5	2,633.1	2,542.1	91.00	28.936		
12,700.0	11,450.0	12,631.4	11,450.0	50.0	47.4	90.02	1,155.0	1,287.7	2,641.6	2,549.1	92.43	28.579		
12,800.0	11,450.0	12,731.2	11,450.0	50.8	48.2	90.02	1,254.9	1,286.9	2,646.5	2,552.6	93.95	28.170		
12,892.5	11,450.0	12,823.7	11,450.0	51.5	48.9	90.02	1,347.4	1,286.2	2,648.0	2,552.6	95.42	27.750		
12,900.0	11,450.0	12,831.2	11,450.0	51.5	48.9	90.02	1,354.9	1,286.2	2,648.0	2,552.4	95.54	27.715		
13,000.0	11,450.0	12,931.2	11,450.0	52.3	49.8	90.02	1,454.9	1,285.4	2,648.0	2,550.7	97.22	27.235		
13,100.0	11,450.0	13,031.2	11,450.0	53.2	50.6	90.02	1,554.9	1,284.6	2,647.9	2,548.9	98.99	26.750		
13,200.0	11,450.0	13,131.2	11,450.0	54.0	51.5	90.02	1,654.9	1,283.8	2,647.9	2,547.1	100.83	26.261		
13,300.0	11,450.0	13,231.2	11,450.0	54.9	52.5	90.02	1,754.9	1,283.0	2,647.9	2,545.1	102.74	25.772		
13,400.0	11,450.0	13,331.2	11,450.0	55.9	53.4	90.02	1,854.9	1,282.2	2,647.9	2,543.1	104.73	25.283		
13,500.0	11,450.0	13,431.2	11,450.0	56.8	54.4	90.02	1,954.9	1,281.4	2,647.8	2,541.0	106.78	24.797		
13,600.0	11,450.0	13,531.2	11,450.0	57.8	55.5	90.02	2,054.9	1,280.6	2,647.8	2,538.9	108.89	24.315		
13,700.0	11,450.0	13,631.2	11,450.0	58.8	56.5	90.02	2,154.9	1,279.8	2,647.8	2,536.7	111.07	23.840		
13,800.0	11,450.0	13,731.2	11,450.0	59.9	57.6	90.02	2,254.8	1,279.0	2,647.8	2,534.5	113.29	23.371		

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 #135H
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 #135H	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		
13,888.8	11,450.0	13,820.0	11,450.0	60.9	58.6	90.02	2,343.6	1,278.3	2,647.7	2,532.4	115.32	22.961		
13,900.0	11,450.0	13,831.2	11,450.0	61.0	58.7	90.02	2,354.8	1,278.2	2,647.7	2,532.2	115.57	22.910		
14,000.0	11,450.0	13,931.2	11,450.0	62.1	59.9	90.02	2,454.8	1,277.4	2,647.7	2,529.8	117.90	22.457		
14,100.0	11,450.0	14,031.2	11,450.0	63.2	61.1	90.02	2,554.8	1,276.6	2,647.7	2,527.4	120.28	22.013		
14,200.0	11,450.0	14,131.2	11,450.0	64.4	62.3	90.02	2,654.8	1,275.8	2,647.7	2,525.0	122.70	21.579		
14,300.0	11,450.0	14,231.2	11,450.0	65.6	63.5	90.02	2,754.8	1,275.0	2,647.6	2,522.5	125.16	21.154		
14,400.0	11,450.0	14,331.2	11,450.0	66.8	64.7	90.02	2,854.8	1,274.2	2,647.6	2,519.9	127.66	20.740		
14,500.0	11,450.0	14,431.2	11,450.0	68.0	65.9	90.02	2,954.8	1,273.4	2,647.6	2,517.4	130.19	20.336		
14,600.0	11,450.0	14,531.2	11,450.0	69.2	67.2	90.02	3,054.8	1,272.6	2,647.6	2,514.8	132.76	19.942		
14,700.0	11,450.0	14,631.2	11,450.0	70.5	68.5	90.02	3,154.8	1,271.8	2,647.5	2,512.2	135.36	19.559		
14,800.0	11,450.0	14,731.2	11,450.0	71.7	69.8	90.02	3,254.8	1,271.1	2,647.5	2,509.5	138.00	19.185		
14,900.0	11,450.0	14,831.2	11,450.0	73.0	71.1	90.02	3,354.8	1,270.3	2,647.5	2,506.8	140.66	18.822		
15,000.0	11,450.0	14,931.2	11,450.0	74.3	72.4	90.02	3,454.8	1,269.5	2,647.5	2,504.1	143.35	18.469		
15,100.0	11,450.0	15,031.2	11,450.0	75.7	73.8	90.02	3,554.8	1,268.7	2,647.4	2,501.4	146.06	18.126		
15,200.0	11,450.0	15,131.2	11,450.0	77.0	75.1	90.02	3,654.8	1,267.9	2,647.4	2,498.6	148.80	17.792		
15,236.3	11,450.0	15,167.5	11,450.0	77.5	75.6	90.02	3,691.1	1,267.6	2,647.4	2,497.6	149.80	17.673		
15,300.0	11,450.0	15,231.2	11,450.0	78.3	76.5	90.02	3,754.8	1,267.1	2,646.7	2,495.1	151.56	17.463		
15,400.0	11,450.0	15,331.1	11,450.0	79.6	77.9	90.02	3,854.7	1,266.3	2,642.7	2,488.4	154.32	17.124		
15,500.0	11,450.0	15,430.9	11,450.0	80.9	79.3	90.02	3,954.4	1,265.5	2,635.2	2,478.1	157.09	16.775		
15,600.0	11,450.0	15,530.2	11,450.0	82.2	80.6	90.02	4,053.8	1,264.7	2,624.2	2,464.4	159.86	16.416		
15,700.0	11,450.0	15,629.2	11,450.0	83.5	82.0	90.02	4,152.8	1,263.9	2,609.8	2,447.2	162.62	16.049		
15,800.0	11,450.0	15,727.6	11,450.0	84.8	83.4	90.02	4,251.1	1,263.1	2,592.0	2,426.6	165.37	15.674		
15,900.0	11,450.0	15,825.3	11,450.0	86.0	84.8	90.02	4,348.8	1,262.4	2,570.7	2,402.6	168.11	15.292		
15,966.5	11,450.0	15,889.8	11,450.0	86.8	85.7	90.02	4,413.4	1,261.8	2,554.7	2,384.7	169.92	15.035		
16,000.0	11,450.0	15,922.3	11,450.0	87.2	86.2	90.02	4,445.8	1,261.6	2,546.4	2,375.6	170.83	14.906		
16,100.0	11,450.0	16,019.7	11,450.0	88.5	87.6	90.02	4,543.3	1,260.8	2,524.0	2,350.4	173.59	14.540		
16,200.0	11,450.0	16,117.9	11,450.0	89.7	89.0	90.02	4,641.5	1,260.0	2,505.0	2,328.6	176.40	14.201		
16,300.0	11,450.0	16,216.7	11,450.0	91.1	90.5	90.02	4,740.2	1,259.2	2,489.4	2,310.2	179.25	13.888		
16,400.0	11,450.0	16,316.0	11,450.0	92.5	91.9	90.02	4,839.5	1,258.5	2,477.3	2,295.2	182.14	13.601		
16,500.0	11,450.0	16,415.6	11,450.0	93.9	93.4	90.02	4,939.1	1,257.7	2,468.7	2,283.7	185.06	13.340		
16,600.0	11,450.0	16,515.4	11,450.0	95.3	94.9	90.02	5,039.0	1,256.9	2,463.6	2,275.6	188.02	13.103		
16,697.4	11,450.0	16,612.8	11,450.0	96.7	96.3	90.02	5,136.3	1,256.1	2,461.9	2,271.0	190.92	12.895		
16,700.0	11,450.0	16,615.4	11,450.0	96.8	96.3	90.02	5,139.0	1,256.1	2,461.9	2,270.9	191.00	12.890		
16,800.0	11,450.0	16,715.4	11,450.0	98.2	97.8	90.02	5,238.9	1,255.3	2,463.8	2,269.8	193.99	12.700		
16,900.0	11,450.0	16,815.3	11,450.0	99.7	99.3	90.02	5,338.8	1,254.5	2,469.1	2,272.1	197.01	12.533		
17,000.0	11,450.0	16,914.9	11,450.0	101.3	100.8	90.02	5,438.4	1,253.7	2,477.9	2,277.9	200.03	12.387		
17,100.0	11,450.0	17,014.1	11,450.0	102.8	102.3	90.02	5,537.6	1,252.9	2,490.2	2,287.1	203.07	12.263		
17,200.0	11,450.0	17,112.8	11,450.0	104.4	103.8	90.02	5,636.4	1,252.1	2,505.9	2,299.8	206.10	12.159		
17,300.0	11,450.0	17,211.0	11,450.0	106.0	105.3	90.02	5,734.5	1,251.3	2,525.1	2,315.9	209.13	12.074		
17,400.0	11,450.0	17,308.4	11,450.0	107.5	106.7	90.02	5,831.9	1,250.6	2,547.7	2,335.5	212.16	12.008		
17,426.1	11,450.0	17,333.7	11,450.0	108.0	107.1	90.02	5,857.2	1,250.4	2,554.1	2,341.2	212.95	11.994		
17,500.0	11,450.0	17,405.4	11,450.0	109.1	108.2	90.02	5,928.9	1,249.8	2,571.8	2,356.6	215.19	11.951		
17,600.0	11,450.0	17,503.2	11,450.0	110.7	109.7	90.02	6,026.7	1,249.0	2,592.7	2,374.5	218.24	11.880		
17,700.0	11,450.0	17,601.7	11,450.0	112.3	111.2	90.02	6,125.2	1,248.2	2,610.3	2,389.0	221.31	11.794		
17,800.0	11,450.0	17,700.7	11,450.0	113.9	112.7	90.02	6,224.2	1,247.5	2,624.4	2,400.0	224.40	11.695		
17,900.0	11,450.0	17,800.1	11,450.0	115.5	114.2	90.02	6,323.6	1,246.7	2,635.0	2,407.5	227.50	11.582		
18,000.0	11,450.0	17,899.8	11,450.0	117.0	115.8	90.02	6,423.3	1,245.9	2,642.1	2,411.5	230.61	11.457		
18,100.0	11,450.0	18,000.2	11,450.0	118.6	117.3	90.02	6,523.2	1,245.1	2,645.8	2,412.1	233.72	11.320		
18,155.7	11,450.0	18,055.5	11,450.0	119.4	118.2	90.02	6,579.0	1,244.6	2,646.3	2,410.9	235.44	11.240		
18,200.0	11,450.0	18,100.2	11,450.0	120.1	118.9	90.02	6,623.2	1,244.3	2,646.3	2,409.5	236.82	11.174		
18,300.0	11,450.0	18,200.2	11,450.0	121.7	120.4	90.02	6,723.2	1,243.5	2,646.3	2,406.3	239.93	11.029		
18,400.0	11,450.0	18,300.2	11,450.0	123.2	122.0	90.02	6,823.2	1,242.7	2,646.2	2,403.2	243.04	10.888		

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 #135H
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 #135H	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		
18,500.0	11,450.0	18,400.2	11,450.0	124.7	123.5	90.02	6,923.2	1,241.9	2,646.2	2,400.0	246.16	10.750		
18,600.0	11,450.0	18,500.2	11,450.0	126.3	125.1	90.02	7,023.2	1,241.1	2,646.2	2,396.9	249.28	10.615		
18,700.0	11,450.0	18,600.2	11,450.0	127.8	126.6	90.02	7,123.2	1,240.3	2,646.1	2,393.7	252.41	10.483		
18,800.0	11,450.0	18,700.2	11,450.0	129.4	128.2	90.02	7,223.2	1,239.5	2,646.1	2,390.6	255.55	10.355		
18,900.0	11,450.0	18,800.2	11,450.0	130.9	129.7	90.02	7,323.2	1,238.7	2,646.1	2,387.4	258.68	10.229		
19,000.0	11,450.0	18,900.2	11,450.0	132.5	131.3	90.02	7,423.2	1,237.9	2,646.0	2,384.2	261.83	10.106		
19,100.0	11,450.0	19,000.2	11,450.0	134.0	132.9	90.02	7,523.2	1,237.1	2,646.0	2,381.0	264.97	9.986		
19,200.0	11,450.0	19,100.2	11,450.0	135.6	134.4	90.02	7,623.2	1,236.3	2,646.0	2,377.9	268.12	9.869		
19,300.0	11,450.0	19,200.2	11,450.0	137.2	136.0	90.02	7,723.2	1,235.5	2,646.0	2,374.7	271.28	9.754		
19,400.0	11,450.0	19,300.2	11,450.0	138.7	137.6	90.02	7,823.2	1,234.8	2,645.9	2,371.5	274.44	9.641		
19,500.0	11,450.0	19,400.2	11,450.0	140.3	139.2	90.02	7,923.2	1,234.0	2,645.9	2,368.3	277.60	9.531		
19,600.0	11,450.0	19,500.2	11,450.0	141.9	140.7	90.02	8,023.2	1,233.2	2,645.9	2,365.1	280.76	9.424		
19,700.0	11,450.0	19,600.2	11,450.0	143.4	142.3	90.02	8,123.2	1,232.4	2,645.8	2,361.9	283.93	9.319		
19,800.0	11,450.0	19,700.2	11,450.0	145.0	143.9	90.02	8,223.2	1,231.6	2,645.8	2,358.7	287.10	9.215		
19,900.0	11,450.0	19,800.2	11,450.0	146.6	145.5	90.02	8,323.2	1,230.8	2,645.8	2,355.5	290.28	9.115		
20,000.0	11,450.0	19,900.2	11,450.0	148.2	147.1	90.02	8,423.2	1,230.0	2,645.7	2,352.3	293.46	9.016		
20,100.0	11,450.0	20,000.2	11,450.0	149.7	148.6	90.02	8,523.2	1,229.2	2,645.7	2,349.1	296.64	8.919		
20,200.0	11,450.0	20,100.2	11,450.0	151.3	150.2	90.02	8,623.2	1,228.4	2,645.7	2,345.9	299.82	8.824		
20,300.0	11,450.0	20,199.8	11,450.0	152.9	151.8	90.02	8,723.2	1,227.6	2,645.7	2,342.6	303.00	8.731		
20,400.0	11,450.0	20,300.2	11,450.0	154.5	153.4	90.02	8,823.2	1,226.8	2,645.6	2,339.4	306.20	8.640		
20,500.0	11,450.0	20,400.2	11,450.0	156.1	155.0	90.02	8,923.2	1,226.0	2,645.6	2,336.2	309.39	8.551		
20,600.0	11,450.0	20,500.2	11,450.0	157.6	156.6	90.02	9,023.2	1,225.2	2,645.6	2,333.0	312.59	8.463		
20,700.0	11,450.0	20,600.2	11,450.0	159.2	158.2	90.02	9,123.2	1,224.4	2,645.5	2,329.7	315.79	8.378		
20,800.0	11,450.0	20,700.2	11,450.0	160.8	159.8	90.02	9,223.2	1,223.6	2,645.5	2,326.5	318.99	8.293		
20,900.0	11,450.0	20,800.2	11,450.0	162.4	161.4	90.02	9,323.2	1,222.8	2,645.5	2,323.3	322.19	8.211		
21,000.0	11,450.0	20,900.2	11,450.0	164.0	163.0	90.02	9,423.1	1,222.0	2,645.4	2,320.0	325.39	8.130		
21,100.0	11,450.0	21,000.2	11,450.0	165.6	164.6	90.02	9,523.1	1,221.2	2,645.4	2,316.8	328.60	8.051		
21,200.0	11,450.0	21,100.2	11,450.0	167.2	166.2	90.02	9,623.1	1,220.4	2,645.4	2,313.6	331.81	7.973		
21,300.0	11,450.0	21,200.2	11,450.0	168.8	167.8	90.02	9,723.1	1,219.7	2,645.3	2,310.3	335.02	7.896		
21,400.0	11,450.0	21,300.2	11,450.0	170.4	169.4	90.02	9,823.1	1,218.9	2,645.3	2,307.1	338.23	7.821		
21,500.0	11,450.0	21,400.2	11,450.0	172.0	171.0	90.02	9,923.1	1,218.1	2,645.3	2,303.8	341.45	7.747		
21,600.0	11,450.0	21,500.2	11,450.0	173.6	172.6	90.02	10,023.1	1,217.3	2,645.3	2,300.6	344.67	7.675		
21,700.0	11,450.0	21,600.2	11,450.0	175.2	174.2	90.02	10,123.1	1,216.5	2,645.2	2,297.3	347.88	7.604		
21,757.9	11,450.0	21,657.6	11,450.0	176.1	175.1	90.02	10,181.0	1,216.0	2,645.2	2,295.5	349.74	7.563 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 #135H
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 #135H	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	0.0	0.0	0.0	0.0	89.35	26.5	2,343.0	2,343.2					
100.0	100.0	100.0	100.0	0.1	0.1	-166.58	26.5	2,343.0	2,343.3	2,343.1	0.26	9,110.167		
200.0	200.0	200.0	200.0	0.5	0.5	-166.59	26.5	2,343.0	2,343.8	2,342.8	0.97	2,407.310	ES	
300.0	300.0	300.0	300.0	0.8	0.8	-166.59	26.5	2,343.0	2,344.6	2,342.9	1.69	1,386.778		
400.0	400.0	400.0	400.0	1.2	1.2	-166.60	26.5	2,343.0	2,345.7	2,343.3	2.41	974.199		
500.0	500.0	500.0	500.0	1.6	1.6	-166.61	26.5	2,343.0	2,347.2	2,344.1	3.13	751.068		
600.0	600.0	600.0	600.0	1.9	1.9	-166.61	26.5	2,343.0	2,349.0	2,345.1	3.84	611.308		
700.0	699.9	700.1	699.9	2.3	2.3	-166.63	26.5	2,343.0	2,351.0	2,346.5	4.56	515.581		
800.0	799.9	800.1	799.9	2.6	2.6	-166.64	26.5	2,343.0	2,353.4	2,348.2	5.28	445.932		
900.0	899.9	900.1	899.9	3.0	3.0	-166.65	26.5	2,343.0	2,356.2	2,350.2	6.00	393.001		
1,000.0	999.8	1,000.2	999.8	3.4	3.4	-166.67	26.5	2,343.0	2,359.2	2,352.5	6.71	351.429		
1,100.0	1,099.8	1,100.2	1,099.8	3.7	3.7	-166.69	26.5	2,343.0	2,362.6	2,355.1	7.43	317.925		
1,200.0	1,199.7	1,200.3	1,199.7	4.1	4.1	-166.71	26.5	2,343.0	2,366.3	2,358.1	8.15	290.359		
1,300.0	1,299.6	1,300.4	1,299.6	4.5	4.4	-166.73	26.5	2,343.0	2,370.3	2,361.4	8.87	267.288		
1,400.0	1,399.5	1,400.5	1,399.5	4.8	4.8	-166.75	26.5	2,343.0	2,374.6	2,365.0	9.59	247.704		
1,500.0	1,499.4	1,500.6	1,499.4	5.2	5.1	-166.78	26.5	2,343.0	2,379.2	2,368.9	10.31	230.877		
1,600.0	1,599.3	1,600.7	1,599.3	5.6	5.5	-166.80	26.5	2,343.0	2,384.2	2,373.2	11.02	216.269		
1,700.0	1,699.1	1,700.9	1,699.1	5.9	5.9	-166.83	26.5	2,343.0	2,389.5	2,377.8	11.74	203.474		
1,800.0	1,798.9	1,801.1	1,798.9	6.3	6.2	-166.86	26.5	2,343.0	2,395.1	2,382.6	12.46	192.177		
1,900.0	1,898.8	1,901.2	1,898.8	6.7	6.6	-166.89	26.5	2,343.0	2,401.0	2,387.9	13.18	182.134		
2,000.0	1,998.6	2,001.4	1,998.6	7.0	6.9	-166.92	26.5	2,343.0	2,407.3	2,393.4	13.90	173.151		
2,100.0	2,098.3	2,101.7	2,098.3	7.4	7.3	-166.95	26.5	2,343.0	2,413.9	2,399.2	14.62	165.072		
2,200.0	2,198.1	2,201.9	2,198.1	7.8	7.7	-166.99	26.5	2,343.0	2,420.8	2,405.4	15.34	157.769		
2,300.0	2,297.8	2,302.2	2,297.8	8.1	8.0	-167.02	26.5	2,343.0	2,428.0	2,411.9	16.06	151.138		
2,400.0	2,397.5	2,402.5	2,397.5	8.5	8.4	-167.06	26.5	2,343.0	2,435.5	2,418.7	16.79	145.093		
2,500.0	2,497.2	2,497.2	2,497.2	8.9	8.7	-167.10	26.5	2,343.0	2,443.4	2,425.9	17.49	139.724		
2,600.0	2,596.8	2,570.5	2,570.5	9.3	9.0	-167.12	26.3	2,343.4	2,452.1	2,434.0	18.10	135.489		
2,700.0	2,696.4	2,643.0	2,642.9	9.7	9.2	-167.14	25.7	2,344.6	2,462.2	2,443.5	18.70	131.686		
2,800.0	2,796.0	2,715.2	2,715.1	10.0	9.5	-167.14	24.6	2,346.6	2,473.7	2,454.4	19.29	128.237		
2,900.0	2,895.6	2,787.2	2,787.1	10.4	9.7	-167.13	23.1	2,349.4	2,486.7	2,466.8	19.88	125.081		
3,000.0	2,995.1	2,859.0	2,858.7	10.8	9.9	-167.12	21.2	2,352.9	2,501.0	2,480.5	20.47	122.193		
3,100.0	3,094.6	2,930.5	2,930.1	11.2	10.2	-167.09	18.9	2,357.3	2,516.7	2,495.7	21.05	119.551		
3,200.0	3,194.1	3,000.0	2,999.4	11.6	10.4	-167.06	16.2	2,362.3	2,533.9	2,512.2	21.62	117.173		
3,300.0	3,293.5	3,072.5	3,071.5	12.0	10.7	-167.01	13.0	2,368.2	2,552.4	2,530.1	22.21	114.926		
3,400.0	3,392.9	3,143.0	3,141.6	12.4	10.9	-166.96	9.5	2,374.8	2,572.2	2,549.4	22.78	112.908		
3,500.0	3,492.2	3,213.1	3,211.2	12.7	11.2	-166.90	5.6	2,382.1	2,593.5	2,570.1	23.35	111.067		
3,600.0	3,591.6	3,282.7	3,280.3	13.1	11.4	-166.83	1.3	2,390.1	2,616.1	2,592.1	23.92	109.389		
3,700.0	3,690.8	3,372.9	3,369.6	13.5	11.7	-166.74	-4.6	2,401.1	2,639.7	2,615.1	24.58	107.405		
3,800.0	3,790.1	3,469.9	3,465.7	13.9	12.1	-166.64	-11.0	2,413.0	2,663.7	2,638.4	25.27	105.393		
3,900.0	3,889.3	3,566.9	3,561.7	14.3	12.5	-166.55	-17.3	2,424.9	2,688.0	2,662.0	25.97	103.493		
4,000.0	3,988.4	3,663.7	3,657.6	14.7	12.8	-166.46	-23.7	2,436.8	2,712.6	2,686.0	26.67	101.696		
4,100.0	4,087.5	3,760.5	3,753.4	15.2	13.2	-166.37	-30.1	2,448.7	2,737.6	2,710.2	27.38	99.997		
4,200.0	4,186.6	3,857.2	3,849.2	15.6	13.5	-166.29	-36.4	2,460.5	2,762.8	2,734.8	28.08	98.388		
4,300.0	4,285.6	3,953.8	3,944.8	16.0	13.9	-166.21	-42.8	2,472.4	2,788.4	2,759.6	28.79	96.864		
4,400.0	4,384.6	4,050.3	4,040.5	16.4	14.3	-166.13	-49.1	2,484.2	2,814.3	2,784.8	29.49	95.419		
4,500.0	4,483.5	4,146.8	4,136.0	16.8	14.6	-166.05	-55.5	2,496.1	2,840.5	2,810.3	30.20	94.048		
4,600.0	4,582.4	4,243.2	4,231.4	17.2	15.0	-165.98	-61.8	2,507.9	2,867.0	2,836.1	30.91	92.746		
4,700.0	4,681.2	4,339.5	4,326.8	17.6	15.4	-165.91	-68.1	2,519.7	2,893.8	2,862.2	31.62	91.509		
4,800.0	4,780.0	4,435.7	4,422.0	18.1	15.8	-165.84	-74.4	2,531.5	2,921.0	2,888.6	32.34	90.333		
4,900.0	4,878.7	4,531.8	4,517.2	18.5	16.1	-165.77	-80.8	2,543.3	2,948.4	2,915.4	33.05	89.215		
5,000.0	4,977.4	4,627.9	4,612.3	18.9	16.5	-165.71	-87.1	2,555.1	2,976.2	2,942.4	33.76	88.150		
5,100.0	5,076.0	4,723.8	4,707.4	19.3	16.9	-165.65	-93.4	2,566.9	3,004.2	2,969.7	34.48	87.136		

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 #135H
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 #135H	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		
5,180.6	5,155.5	4,801.1	4,783.9	19.7	17.2	-165.60	-98.4	2,576.3	3,027.1	2,992.0	35.05	86.354		
5,200.0	5,174.6	4,819.7	4,802.3	19.8	17.3	-165.59	-99.7	2,578.6	3,032.6	2,997.4	35.19	86.170		
5,300.0	5,273.2	4,915.5	4,897.2	20.2	17.7	-165.55	-106.0	2,590.4	3,061.0	3,025.1	35.91	85.243		
5,400.0	5,371.7	5,011.4	4,992.1	20.6	18.0	-165.51	-112.3	2,602.1	3,089.5	3,052.9	36.63	84.350		
5,500.0	5,470.2	5,107.2	5,087.0	21.1	18.4	-165.46	-118.6	2,613.9	3,118.0	3,080.6	37.35	83.490		
5,600.0	5,568.8	5,203.0	5,181.9	21.5	18.8	-165.42	-124.9	2,625.7	3,146.4	3,108.4	38.06	82.660		
5,700.0	5,667.3	5,301.1	5,276.8	22.0	19.2	-165.38	-131.2	2,637.4	3,174.9	3,136.1	38.79	81.842		
5,755.0	5,721.5	5,351.5	5,329.0	22.2	19.4	-165.36	-134.6	2,643.9	3,190.5	3,151.4	39.18	81.431		
5,800.0	5,765.9	5,405.3	5,371.7	22.4	19.6	-165.35	-137.5	2,649.2	3,203.3	3,163.8	39.55	81.005		
5,900.0	5,864.5	5,509.4	5,466.7	22.8	20.0	-165.32	-143.8	2,660.9	3,231.5	3,191.2	40.30	80.192		
6,000.0	5,963.1	5,586.6	5,561.8	23.3	20.3	-165.29	-150.1	2,672.7	3,259.4	3,218.4	40.95	79.594		
6,100.0	6,061.9	5,671.1	5,644.4	23.7	21.5	-165.25	-165.0	2,700.6	3,285.3	3,242.6	42.63	77.065		
6,200.0	6,160.6	5,767.6	5,740.6	24.1	22.6	-165.39	-170.1	2,710.0	3,302.7	3,258.5	44.26	74.621		
6,300.0	6,259.4	5,864.4	5,837.4	24.6	22.9	-165.47	-170.1	2,710.0	3,317.6	3,272.7	44.97	73.773		
6,400.0	6,358.3	5,963.2	5,936.3	25.0	23.2	-165.54	-170.1	2,710.0	3,332.2	3,286.5	45.68	72.944		
6,500.0	6,457.2	6,061.9	6,035.2	25.4	23.6	-165.61	-170.1	2,710.0	3,346.5	3,300.1	46.39	72.133		
6,600.0	6,556.2	6,160.6	6,134.4	25.8	23.9	-165.67	-170.1	2,710.0	3,360.4	3,313.3	47.10	71.340		
6,700.0	6,655.2	6,259.4	6,233.2	26.3	24.2	-165.74	-170.1	2,710.0	3,374.1	3,326.3	47.82	70.564		
6,800.0	6,754.2	6,358.3	6,332.1	26.7	24.6	-165.80	-170.1	2,710.0	3,387.4	3,338.9	48.53	69.803		
6,900.0	6,853.3	6,457.2	6,431.0	27.1	24.9	-165.86	-170.1	2,710.0	3,400.4	3,351.2	49.24	69.058		
7,000.0	6,952.4	6,556.2	6,530.0	27.5	25.2	-165.92	-170.1	2,710.0	3,413.1	3,363.2	49.95	68.328		
7,100.0	7,051.6	6,655.2	6,629.0	27.9	25.6	-165.98	-170.1	2,710.0	3,425.5	3,374.9	50.66	67.612		
7,200.0	7,150.8	6,754.2	6,728.0	28.3	25.9	-166.04	-170.1	2,710.0	3,437.6	3,386.2	51.38	66.909		
7,300.0	7,250.1	6,853.3	6,827.1	28.7	26.2	-166.09	-170.1	2,710.0	3,449.4	3,397.3	52.09	66.220		
7,400.0	7,349.4	6,952.4	6,926.2	29.1	26.6	-166.14	-170.1	2,710.0	3,460.8	3,408.0	52.80	65.544		
7,500.0	7,448.8	7,051.6	7,025.4	29.6	26.9	-166.19	-170.1	2,710.0	3,471.9	3,418.4	53.51	64.879		
7,600.0	7,548.1	7,150.8	7,124.6	30.0	27.3	-166.24	-170.1	2,710.0	3,482.7	3,428.5	54.23	64.227		
7,700.0	7,647.6	7,250.1	7,223.9	30.4	27.6	-166.29	-170.1	2,710.0	3,493.2	3,438.3	54.94	63.585		
7,800.0	7,747.0	7,349.4	7,323.2	30.7	27.9	-166.33	-170.1	2,710.0	3,503.4	3,447.8	55.65	62.955		
7,900.0	7,846.5	7,448.8	7,422.6	31.1	28.3	-166.38	-170.1	2,710.0	3,513.3	3,456.9	56.36	62.335		
8,000.0	7,946.0	7,548.1	7,521.9	31.5	28.6	-166.42	-170.1	2,710.0	3,522.8	3,465.8	57.07	61.724		
8,100.0	8,045.5	7,647.6	7,621.4	31.9	29.0	-166.46	-170.1	2,710.0	3,532.1	3,474.3	57.79	61.124		
8,200.0	8,145.1	7,747.0	7,720.8	32.3	29.3	-166.50	-170.1	2,710.0	3,541.0	3,482.5	58.50	60.533		
8,300.0	8,244.7	7,846.5	7,820.3	32.7	29.6	-166.54	-170.1	2,710.0	3,549.6	3,490.4	59.21	59.951		
8,400.0	8,344.4	7,946.0	7,919.8	33.1	30.0	-166.57	-170.1	2,710.0	3,557.8	3,497.9	59.92	59.378		
8,500.0	8,444.0	8,045.5	8,019.3	33.5	30.3	-166.61	-170.1	2,710.0	3,565.8	3,505.2	60.63	58.813		
8,600.0	8,543.7	8,145.1	8,118.9	33.8	30.7	-166.64	-170.1	2,710.0	3,573.4	3,512.1	61.34	58.256		
8,700.0	8,643.4	8,244.7	8,218.5	34.2	31.0	-166.67	-170.1	2,710.0	3,580.8	3,518.7	62.05	57.707		
8,800.0	8,743.2	8,344.4	8,318.2	34.6	31.4	-166.70	-170.1	2,710.0	3,587.8	3,525.0	62.76	57.166		
8,900.0	8,843.0	8,444.0	8,417.8	35.0	31.7	-166.73	-170.1	2,710.0	3,594.4	3,531.0	63.47	56.631		
9,000.0	8,942.7	8,543.7	8,517.5	35.3	32.1	-166.75	-170.1	2,710.0	3,600.8	3,536.6	64.18	56.104		
9,100.0	9,042.5	8,643.4	8,617.2	35.7	32.4	-166.78	-170.1	2,710.0	3,606.9	3,542.0	64.89	55.584		
9,200.0	9,142.4	8,743.2	8,717.0	36.1	32.7	-166.80	-170.1	2,710.0	3,612.6	3,547.0	65.60	55.071		
9,300.0	9,242.2	8,843.0	8,816.8	36.4	33.1	-166.82	-170.1	2,710.0	3,618.0	3,551.7	66.31	54.564		
9,400.0	9,342.1	8,942.7	8,916.5	36.8	33.4	-166.85	-170.1	2,710.0	3,623.1	3,556.1	67.02	54.063		
9,500.0	9,442.0	9,042.5	9,016.3	37.1	33.8	-166.87	-170.1	2,710.0	3,627.8	3,560.1	67.72	53.568		
9,600.0	9,541.9	9,142.4	9,116.1	37.5	34.1	-166.88	-170.1	2,710.0	3,632.3	3,563.8	68.43	53.078		
9,700.0	9,641.8	9,242.2	9,216.0	37.9	34.5	-166.90	-170.1	2,710.0	3,636.4	3,567.3	69.14	52.595		
9,800.0	9,741.7	9,342.1	9,315.9	38.2	34.8	-166.92	-170.1	2,710.0	3,640.2	3,570.4	69.85	52.117		
9,900.0	9,841.6	9,442.0	9,415.8	38.6	35.2	-166.93	-170.1	2,710.0	3,643.7	3,573.1	70.55	51.644		
10,000.0	9,941.6	9,541.9	9,515.7	38.9	35.5	-166.94	-170.1	2,710.0	3,646.8	3,575.6	71.26	51.176		
10,100.0	10,041.5	9,641.8	9,615.6	39.3	35.9	-166.95	-170.1	2,710.0	3,649.7	3,577.7	71.97	50.714		

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 #135H
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 #135H	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		
10,200.0	10,141.5	10,168.4	10,141.5	39.6	36.2	-166.96	-170.1	2,710.0	3,652.2	3,579.5	72.67	50.256		
10,300.0	10,241.5	10,268.4	10,241.5	39.9	36.6	-166.97	-170.1	2,710.0	3,654.4	3,581.0	73.38	49.803		
10,400.0	10,341.5	10,368.4	10,341.5	40.3	36.9	-166.98	-170.1	2,710.0	3,656.3	3,582.2	74.08	49.354		
10,500.0	10,441.4	10,468.4	10,441.4	40.6	37.3	-166.99	-170.1	2,710.0	3,657.8	3,583.1	74.79	48.910		
10,600.0	10,541.4	10,568.4	10,541.4	41.0	37.6	-166.99	-170.1	2,710.0	3,659.1	3,583.6	75.49	48.470		
10,700.0	10,641.4	10,668.4	10,641.4	41.3	38.0	-167.00	-170.1	2,710.0	3,660.0	3,583.8	76.20	48.034		
10,800.0	10,741.4	10,768.4	10,741.4	41.6	38.3	-167.00	-170.1	2,710.0	3,660.6	3,583.7	76.90	47.602		
10,900.0	10,841.4	10,868.4	10,841.4	42.0	38.7	-167.00	-170.1	2,710.0	3,660.9	3,583.3	77.60	47.174		
10,935.6	10,877.0	10,903.9	10,877.0	42.1	38.8	88.94	-170.1	2,710.0	3,660.9	3,583.0	77.85	47.026		
10,948.1	10,889.5	10,953.8	10,926.8	42.1	39.0	110.49	-167.9	2,709.7	3,660.9	3,582.8	78.08	46.888		
10,950.0	10,891.4	10,950.0	10,908.6	42.1	38.9	110.50	-168.8	2,709.9	3,660.8	3,582.8	78.06	46.896		
11,000.0	10,941.3	11,150.5	11,116.0	42.3	39.6	109.93	-118.3	2,702.9	3,660.5	3,581.7	78.84	46.427		
11,050.0	10,990.7	11,310.2	11,250.0	42.4	39.9	108.95	-33.3	2,691.3	3,660.1	3,580.7	79.36	46.122		
11,080.3	11,020.2	11,390.7	11,307.3	42.5	40.0	108.29	22.8	2,683.6	3,660.0	3,580.4	79.61	45.974		
11,100.0	11,039.2	11,437.1	11,336.5	42.6	40.1	107.86	58.5	2,678.7	3,660.0	3,580.3	79.76	45.886		
11,150.0	11,086.5	11,537.6	11,389.1	42.8	40.2	106.77	143.1	2,667.1	3,660.8	3,580.6	80.13	45.685		
11,200.0	11,132.1	11,619.0	11,420.4	42.9	40.3	105.71	217.5	2,656.9	3,662.5	3,582.1	80.48	45.509		
11,250.0	11,175.9	11,687.0	11,438.1	43.1	40.4	104.65	282.5	2,648.0	3,665.5	3,584.6	80.81	45.359		
11,300.0	11,217.3	11,745.6	11,447.0	43.2	40.6	103.56	339.9	2,640.2	3,669.6	3,588.5	81.12	45.235		
11,350.0	11,256.2	11,797.5	11,449.9	43.3	40.7	102.42	391.2	2,633.1	3,674.9	3,593.5	81.42	45.137		
11,400.0	11,292.2	11,803.9	11,450.0	43.5	40.7	101.69	397.6	2,632.3	3,681.6	3,600.0	81.59	45.121		
11,450.0	11,325.0	11,803.9	11,450.0	43.6	40.7	100.88	397.6	2,632.3	3,689.7	3,608.0	81.74	45.138		
11,500.0	11,354.5	11,839.8	11,450.0	43.7	40.9	99.59	433.2	2,627.7	3,698.9	3,616.9	81.99	45.112		
11,550.0	11,380.3	11,853.9	11,450.0	43.9	40.9	98.40	447.2	2,626.1	3,709.4	3,627.3	82.17	45.142		
11,600.0	11,402.2	11,868.6	11,450.0	44.0	40.9	97.11	461.8	2,624.6	3,721.1	3,638.7	82.35	45.185		
11,650.0	11,420.2	11,900.0	11,450.0	44.1	41.0	95.64	493.1	2,621.6	3,733.8	3,651.2	82.58	45.212		
11,700.0	11,434.0	11,900.0	11,450.0	44.3	41.0	94.25	493.1	2,621.6	3,747.2	3,664.5	82.72	45.300		
11,750.0	11,443.6	11,900.0	11,450.0	44.5	41.0	92.76	493.1	2,621.6	3,761.5	3,678.7	82.85	45.400		
11,800.0	11,448.9	11,931.1	11,450.0	44.6	41.2	91.14	524.1	2,619.2	3,776.2	3,693.1	83.11	45.436		
11,835.6	11,450.0	11,942.5	11,450.0	44.8	41.2	90.00	535.4	2,618.5	3,787.1	3,703.8	83.25	45.489		
11,900.0	11,450.0	11,963.0	11,450.0	45.1	41.3	90.00	555.9	2,617.3	3,806.6	3,723.0	83.52	45.576		
12,000.0	11,450.0	12,000.0	11,450.0	45.5	41.4	90.00	592.9	2,615.7	3,835.4	3,751.4	84.00	45.659		
12,100.0	11,450.0	12,026.9	11,450.0	46.1	41.5	90.00	619.7	2,615.0	3,862.4	3,777.9	84.49	45.716		
12,200.0	11,450.0	12,079.6	11,450.0	46.6	41.8	90.00	672.4	2,614.4	3,887.7	3,802.5	85.15	45.655		
12,300.0	11,450.0	12,177.1	11,450.0	47.3	42.2	90.00	769.9	2,613.6	3,909.9	3,823.7	86.15	45.382		
12,400.0	11,450.0	12,275.3	11,450.0	47.9	42.8	90.00	868.1	2,612.9	3,928.7	3,841.4	87.27	45.019		
12,500.0	11,450.0	12,374.1	11,450.0	48.6	43.3	90.00	966.9	2,612.1	3,944.0	3,855.5	88.49	44.571		
12,600.0	11,450.0	12,473.4	11,450.0	49.3	44.0	90.00	1,066.2	2,611.3	3,955.9	3,866.1	89.81	44.046		
12,700.0	11,450.0	12,573.0	11,450.0	50.0	44.7	90.00	1,165.8	2,610.5	3,964.3	3,873.1	91.23	43.453		
12,800.0	11,450.0	12,672.9	11,450.0	50.8	45.4	90.00	1,265.7	2,609.7	3,969.3	3,876.5	92.74	42.799		
12,892.5	11,450.0	12,765.4	11,450.0	51.5	46.1	90.00	1,358.2	2,608.9	3,970.7	3,876.5	94.21	42.147		
12,900.0	11,450.0	12,772.9	11,450.0	51.5	46.2	90.00	1,365.7	2,608.9	3,970.7	3,876.4	94.33	42.093		
13,000.0	11,450.0	12,872.9	11,450.0	52.3	47.0	90.00	1,465.7	2,608.1	3,970.7	3,874.7	96.01	41.359		
13,100.0	11,450.0	12,972.9	11,450.0	53.2	47.9	90.00	1,565.7	2,607.3	3,970.7	3,872.9	97.76	40.615		
13,200.0	11,450.0	13,072.9	11,450.0	54.0	48.8	90.00	1,665.7	2,606.4	3,970.6	3,871.0	99.60	39.866		
13,300.0	11,450.0	13,172.9	11,450.0	54.9	49.8	90.00	1,765.7	2,605.6	3,970.6	3,869.1	101.51	39.114		
13,400.0	11,450.0	13,272.9	11,450.0	55.9	50.8	90.00	1,865.7	2,604.8	3,970.6	3,867.1	103.50	38.365		
13,500.0	11,450.0	13,372.9	11,450.0	56.8	51.8	90.00	1,965.7	2,604.0	3,970.5	3,865.0	105.55	37.619		
13,600.0	11,450.0	13,472.9	11,450.0	57.8	52.9	90.00	2,065.7	2,603.2	3,970.5	3,862.8	107.66	36.880		
13,700.0	11,450.0	13,572.9	11,450.0	58.8	54.0	90.00	2,165.7	2,602.4	3,970.5	3,860.6	109.83	36.151		
13,800.0	11,450.0	13,672.9	11,450.0	59.9	55.1	90.00	2,265.7	2,601.6	3,970.4	3,858.4	112.06	35.431		
13,888.8	11,450.0	13,761.7	11,450.0	60.9	56.1	90.00	2,354.5	2,600.9	3,970.4	3,856.3	114.08	34.803		

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 #135H
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 #135H	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	11,450.0	13,772.9	11,450.0	61.0	56.2	90.00	2,365.7	2,600.8	3,970.4	3,856.1	114.34	34.724		
14,000.0	11,450.0	13,872.9	11,450.0	62.1	57.4	90.00	2,465.7	2,600.0	3,970.4	3,853.7	116.67	34.030		
14,100.0	11,450.0	13,972.9	11,450.0	63.2	58.6	90.00	2,565.7	2,599.2	3,970.3	3,851.3	119.05	33.350		
14,200.0	11,450.0	14,072.9	11,450.0	64.4	59.8	90.00	2,665.7	2,598.4	3,970.3	3,848.8	121.47	32.685		
14,300.0	11,450.0	14,172.9	11,450.0	65.6	61.0	90.00	2,765.7	2,597.6	3,970.3	3,846.3	123.93	32.035		
14,400.0	11,450.0	14,272.9	11,450.0	66.8	62.3	90.00	2,865.7	2,596.8	3,970.2	3,843.8	126.44	31.401		
14,500.0	11,450.0	14,372.9	11,450.0	68.0	63.6	90.00	2,965.6	2,596.0	3,970.2	3,841.2	128.98	30.783		
14,600.0	11,450.0	14,472.9	11,450.0	69.2	64.8	90.00	3,065.6	2,595.2	3,970.2	3,838.6	131.55	30.180		
14,700.0	11,450.0	14,572.9	11,450.0	70.5	66.2	90.00	3,165.6	2,594.4	3,970.1	3,836.0	134.15	29.594		
14,800.0	11,450.0	14,672.9	11,450.0	71.7	67.5	90.00	3,265.6	2,593.6	3,970.1	3,833.3	136.79	29.023		
14,900.0	11,450.0	14,772.9	11,450.0	73.0	68.8	90.00	3,365.6	2,592.8	3,970.1	3,830.6	139.46	28.468		
15,000.0	11,450.0	14,872.9	11,450.0	74.3	70.2	90.00	3,465.6	2,592.0	3,970.0	3,827.9	142.15	27.928		
15,100.0	11,450.0	14,972.9	11,450.0	75.7	71.5	90.00	3,565.6	2,591.2	3,970.0	3,825.1	144.87	27.404		
15,200.0	11,450.0	15,072.9	11,450.0	77.0	72.9	90.00	3,665.6	2,590.4	3,970.0	3,822.4	147.61	26.895		
15,236.3	11,450.0	15,109.2	11,450.0	77.5	73.4	90.00	3,701.9	2,590.1	3,970.0	3,821.3	148.61	26.714		
15,300.0	11,450.0	15,172.9	11,450.0	78.3	74.3	90.00	3,765.6	2,589.6	3,969.2	3,818.9	150.37	26.396		
15,400.0	11,450.0	15,272.8	11,450.0	79.6	75.7	90.00	3,865.5	2,588.8	3,965.2	3,812.1	153.15	25.892		
15,500.0	11,450.0	15,372.5	11,450.0	80.9	77.1	90.00	3,965.2	2,588.0	3,957.7	3,801.8	155.92	25.383		
15,600.0	11,450.0	15,471.9	11,450.0	82.2	78.5	90.00	4,064.6	2,587.2	3,946.8	3,788.1	158.69	24.871		
15,700.0	11,450.0	15,570.8	11,450.0	83.5	79.9	90.00	4,163.6	2,586.4	3,932.4	3,770.9	161.46	24.356		
15,800.0	11,450.0	15,669.2	11,450.0	84.8	81.3	90.00	4,262.0	2,585.6	3,914.5	3,750.3	164.21	23.838		
15,900.0	11,450.0	15,766.9	11,450.0	86.0	82.7	90.00	4,359.7	2,584.8	3,893.2	3,726.3	166.95	23.319		
15,966.5	11,450.0	15,831.4	11,450.0	86.8	83.7	90.00	4,424.2	2,584.3	3,877.2	3,708.4	168.76	22.974		
16,000.0	11,450.0	15,863.9	11,450.0	87.2	84.1	90.00	4,456.7	2,584.1	3,868.9	3,699.2	169.68	22.801		
16,100.0	11,450.0	15,961.4	11,450.0	88.5	85.6	90.00	4,554.1	2,583.3	3,846.5	3,674.0	172.44	22.306		
16,200.0	11,450.0	16,059.5	11,450.0	89.7	87.0	90.00	4,652.3	2,582.5	3,827.5	3,652.2	175.25	21.840		
16,300.0	11,450.0	16,158.3	11,450.0	91.1	88.5	90.00	4,751.0	2,581.7	3,811.9	3,633.8	178.11	21.402		
16,400.0	11,450.0	16,257.6	11,450.0	92.5	89.9	90.00	4,850.3	2,580.9	3,799.8	3,618.8	181.00	20.993		
16,500.0	11,450.0	16,357.2	11,450.0	93.9	91.4	90.00	4,949.9	2,580.1	3,791.2	3,607.3	183.93	20.612		
16,600.0	11,450.0	16,457.1	11,450.0	95.3	92.9	90.00	5,049.8	2,579.3	3,786.0	3,599.2	186.89	20.258		
16,697.6	11,450.0	16,554.6	11,450.0	96.7	94.3	90.00	5,147.4	2,578.5	3,784.4	3,594.6	189.80	19.939		
16,700.0	11,450.0	16,557.0	11,450.0	96.8	94.4	90.00	5,149.8	2,578.5	3,784.4	3,594.5	189.87	19.932		
16,800.0	11,450.0	16,657.0	11,450.0	98.2	95.9	90.00	5,249.7	2,577.7	3,786.2	3,593.3	192.87	19.631		
16,900.0	11,450.0	16,756.9	11,450.0	99.7	97.4	90.00	5,349.6	2,576.9	3,791.5	3,595.6	195.89	19.355		
17,000.0	11,450.0	16,856.5	11,450.0	101.3	98.9	90.00	5,449.2	2,576.1	3,800.3	3,601.4	198.92	19.105		
17,100.0	11,450.0	16,955.7	11,450.0	102.8	100.4	90.00	5,548.4	2,575.3	3,812.6	3,610.6	201.95	18.879		
17,200.0	11,450.0	17,054.5	11,450.0	104.4	101.9	90.00	5,647.2	2,574.5	3,828.3	3,623.3	204.99	18.675		
17,300.0	11,450.0	17,152.6	11,450.0	106.0	103.4	90.00	5,745.3	2,573.7	3,847.5	3,639.5	208.03	18.495		
17,400.0	11,450.0	17,250.0	11,450.0	107.5	104.9	90.00	5,842.7	2,572.9	3,870.1	3,659.0	211.06	18.336		
17,426.1	11,450.0	17,275.3	11,450.0	108.0	105.3	90.00	5,868.0	2,572.7	3,876.5	3,664.7	211.85	18.298		
17,500.0	11,450.0	17,347.1	11,450.0	109.1	106.4	90.00	5,939.8	2,572.2	3,894.2	3,680.1	214.09	18.189		
17,600.0	11,450.0	17,444.8	11,450.0	110.7	107.9	90.00	6,037.5	2,571.4	3,915.1	3,698.0	217.15	18.030		
17,700.0	11,450.0	17,543.3	11,450.0	112.3	109.4	90.00	6,136.0	2,570.6	3,932.6	3,712.4	220.22	17.858		
17,800.0	11,450.0	17,642.3	11,450.0	113.9	110.9	90.00	6,235.0	2,569.8	3,946.7	3,723.4	223.31	17.673		
17,900.0	11,450.0	17,741.7	11,450.0	115.5	112.4	90.00	6,334.4	2,569.0	3,957.3	3,730.9	226.42	17.478		
18,000.0	11,450.0	17,841.5	11,450.0	117.0	114.0	90.00	6,434.1	2,568.2	3,964.5	3,734.9	229.52	17.273		
18,100.0	11,450.0	17,941.4	11,450.0	118.6	115.5	90.00	6,534.1	2,567.4	3,968.1	3,735.5	232.63	17.057		
18,155.7	11,450.0	18,002.9	11,450.0	119.4	116.5	90.00	6,589.8	2,566.9	3,968.6	3,734.2	234.45	16.927		
18,200.0	11,450.0	18,041.4	11,450.0	120.1	117.1	90.00	6,634.1	2,566.6	3,968.6	3,732.9	235.74	16.835		
18,300.0	11,450.0	18,141.4	11,450.0	121.7	118.7	90.00	6,734.1	2,565.8	3,968.6	3,729.7	238.85	16.615		
18,400.0	11,450.0	18,241.4	11,450.0	123.2	120.2	90.00	6,834.0	2,565.0	3,968.6	3,726.6	241.97	16.401		
18,500.0	11,450.0	18,341.4	11,450.0	124.7	121.8	90.00	6,934.0	2,564.2	3,968.5	3,723.4	245.09	16.192		

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 #135H
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 #135H	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		
18,600.0	11,450.0	18,441.4	11,450.0	126.3	123.3	90.00	7,034.0	2,563.4	3,968.5	3,720.3	248.21	15.988		
18,700.0	11,450.0	18,541.4	11,450.0	127.8	124.9	90.00	7,134.0	2,562.6	3,968.4	3,717.1	251.34	15.789		
18,800.0	11,450.0	18,641.4	11,450.0	129.4	126.5	90.00	7,234.0	2,561.8	3,968.4	3,713.9	254.48	15.594		
18,900.0	11,450.0	18,741.4	11,450.0	130.9	128.0	90.00	7,334.0	2,561.0	3,968.4	3,710.7	257.62	15.404		
19,000.0	11,450.0	18,841.4	11,450.0	132.5	129.6	90.00	7,434.0	2,560.2	3,968.3	3,707.6	260.77	15.218		
19,100.0	11,450.0	18,941.4	11,450.0	134.0	131.2	90.00	7,534.0	2,559.4	3,968.3	3,704.4	263.91	15.036		
19,200.0	11,450.0	19,041.4	11,450.0	135.6	132.8	90.00	7,634.0	2,558.6	3,968.2	3,701.2	267.07	14.859		
19,300.0	11,450.0	19,141.4	11,450.0	137.2	134.4	90.00	7,734.0	2,557.8	3,968.2	3,698.0	270.22	14.685		
19,400.0	11,450.0	19,241.4	11,450.0	138.7	135.9	90.00	7,834.0	2,556.9	3,968.2	3,694.8	273.39	14.515		
19,500.0	11,450.0	19,341.4	11,450.0	140.3	137.5	90.00	7,934.0	2,556.1	3,968.1	3,691.6	276.55	14.349		
19,600.0	11,450.0	19,441.4	11,450.0	141.9	139.1	90.00	8,034.0	2,555.3	3,968.1	3,688.4	279.72	14.186		
19,700.0	11,450.0	19,541.4	11,450.0	143.4	140.7	90.00	8,134.0	2,554.5	3,968.1	3,685.2	282.89	14.027		
19,800.0	11,450.0	19,641.4	11,450.0	145.0	142.3	90.00	8,234.0	2,553.7	3,968.0	3,682.0	286.06	13.871		
19,900.0	11,450.0	19,741.4	11,450.0	146.6	143.9	90.00	8,334.0	2,552.9	3,968.0	3,678.7	289.24	13.719		
20,000.0	11,450.0	19,841.4	11,450.0	148.2	145.5	90.00	8,434.0	2,552.1	3,967.9	3,675.5	292.42	13.569		
20,100.0	11,450.0	19,941.4	11,450.0	149.7	147.1	90.00	8,534.0	2,551.3	3,967.9	3,672.3	295.60	13.423		
20,200.0	11,450.0	20,041.4	11,450.0	151.3	148.7	90.00	8,634.0	2,550.5	3,967.9	3,669.1	298.79	13.280		
20,300.0	11,450.0	20,141.4	11,450.0	152.9	150.2	90.00	8,734.0	2,549.7	3,967.8	3,665.8	301.98	13.139		
20,400.0	11,450.0	20,241.4	11,450.0	154.5	151.8	90.00	8,834.0	2,548.9	3,967.8	3,662.6	305.17	13.002		
20,500.0	11,450.0	20,341.4	11,450.0	156.1	153.4	90.00	8,934.0	2,548.1	3,967.7	3,659.4	308.37	12.867		
20,600.0	11,450.0	20,441.4	11,450.0	157.6	155.0	90.00	9,034.0	2,547.3	3,967.7	3,656.1	311.56	12.735		
20,700.0	11,450.0	20,541.4	11,450.0	159.2	156.6	90.00	9,134.0	2,546.5	3,967.7	3,652.9	314.76	12.605		
20,800.0	11,450.0	20,641.4	11,450.0	160.8	158.2	90.00	9,234.0	2,545.7	3,967.6	3,649.7	317.97	12.478		
20,900.0	11,450.0	20,741.4	11,450.0	162.4	159.8	90.00	9,334.0	2,544.9	3,967.6	3,646.4	321.17	12.354		
21,000.0	11,450.0	20,841.4	11,450.0	164.0	161.5	90.00	9,434.0	2,544.1	3,967.6	3,643.2	324.38	12.231		
21,100.0	11,450.0	20,941.4	11,450.0	165.6	163.1	90.00	9,534.0	2,543.3	3,967.5	3,639.9	327.58	12.111		
21,200.0	11,450.0	21,041.4	11,450.0	167.2	164.7	90.00	9,634.0	2,542.5	3,967.5	3,636.7	330.80	11.994		
21,300.0	11,450.0	21,141.4	11,450.0	168.8	166.3	90.00	9,734.0	2,541.7	3,967.4	3,633.4	334.01	11.878		
21,400.0	11,450.0	21,241.4	11,450.0	170.4	167.9	90.00	9,834.0	2,540.9	3,967.4	3,630.2	337.22	11.765		
21,500.0	11,450.0	21,341.4	11,450.0	172.0	169.5	90.00	9,933.9	2,540.1	3,967.4	3,626.9	340.44	11.654		
21,600.0	11,450.0	21,441.4	11,450.0	173.6	171.1	90.00	10,033.9	2,539.3	3,967.3	3,623.7	343.66	11.544		
21,700.0	11,450.0	21,541.4	11,450.0	175.2	172.7	90.00	10,133.9	2,538.5	3,967.3	3,620.4	346.88	11.437		
21,757.9	11,450.0	21,599.3	11,450.0	176.1	173.6	90.00	10,191.8	2,538.0	3,967.3	3,618.5	348.74	11.376 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 #135H
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 #135H	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: 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	13.7	13.7	0.0	0.0	-13.04	5,145.0	-1,191.3	5,281.1					
100.0	100.0	94.2	94.2	0.1	0.2	91.02	5,145.0	-1,191.9	5,281.3	5,281.1	0.28	N/A		
200.0	200.0	174.8	174.8	0.5	0.3	91.01	5,145.2	-1,193.3	5,282.0	5,281.2	0.76	6,962.115		
300.0	300.0	266.4	266.4	0.8	0.6	90.99	5,145.6	-1,195.5	5,282.9	5,281.5	1.40	3,779.760		
400.0	400.0	362.9	362.8	1.2	0.9	90.99	5,146.1	-1,197.6	5,283.9	5,281.8	2.10	2,511.987		
500.0	500.0	460.4	460.3	1.6	1.2	90.98	5,146.7	-1,199.2	5,285.0	5,282.2	2.81	1,879.063		
600.0	600.0	558.1	558.0	1.9	1.6	90.99	5,147.5	-1,200.7	5,286.1	5,282.6	3.52	1,500.621		
700.0	699.9	656.1	656.0	2.3	2.0	90.99	5,148.3	-1,202.0	5,287.3	5,283.0	4.23	1,248.769		
800.0	799.9	754.1	754.0	2.6	2.3	91.01	5,149.2	-1,203.5	5,288.5	5,283.5	4.95	1,069.275		
900.0	899.9	846.8	846.6	3.0	2.6	91.02	5,150.0	-1,204.9	5,289.8	5,284.2	5.64	938.011		
1,000.0	999.8	943.6	943.4	3.4	3.0	91.04	5,151.1	-1,206.4	5,291.2	5,284.9	6.35	833.676		
1,100.0	1,099.8	1,131.3	1,131.2	3.7	3.6	91.10	5,152.0	-1,207.2	5,291.9	5,284.5	7.35	720.011		
1,200.0	1,199.7	1,359.3	1,359.1	4.1	4.4	91.20	5,148.6	-1,206.3	5,290.4	5,281.9	8.48	624.036		
1,300.0	1,299.6	1,539.4	1,539.0	4.5	5.0	91.23	5,141.4	-1,209.8	5,286.9	5,277.5	9.47	558.534		
1,400.0	1,399.5	1,682.1	1,681.3	4.8	5.5	91.22	5,133.2	-1,215.8	5,282.4	5,272.1	10.34	511.107		
1,500.0	1,499.4	1,779.5	1,778.4	5.2	5.9	91.21	5,127.1	-1,220.9	5,277.5	5,266.4	11.05	477.538		
1,600.0	1,599.3	1,874.3	1,872.8	5.6	6.2	91.20	5,121.1	-1,226.2	5,272.7	5,260.9	11.76	448.331		
1,700.0	1,699.1	1,977.0	1,975.2	5.9	6.6	91.19	5,114.5	-1,232.3	5,267.9	5,255.4	12.50	421.330		
1,800.0	1,798.9	2,080.2	2,078.0	6.3	7.0	91.18	5,107.8	-1,238.9	5,263.1	5,249.8	13.25	397.258		
1,900.0	1,898.8	2,068.0	2,065.8	6.7	6.9	91.19	5,108.6	-1,238.1	5,259.4	5,245.8	13.58	387.310		
2,000.0	1,998.6	2,153.5	2,151.0	7.0	7.3	91.19	5,104.0	-1,243.5	5,255.9	5,241.6	14.26	368.468		
2,100.0	2,098.3	2,194.0	2,191.4	7.4	7.4	91.19	5,102.6	-1,246.0	5,254.0	5,239.2	14.79	355.348		
2,200.0	2,198.1	2,257.0	2,254.3	7.8	7.6	91.19	5,101.4	-1,249.9	5,253.4	5,238.0	15.39	341.353		
2,231.2	2,229.2	2,257.0	2,254.3	7.9	7.6	91.19	5,101.4	-1,249.9	5,253.3	5,237.8	15.51	338.784		
2,300.0	2,297.8	2,292.5	2,289.8	8.1	7.8	91.20	5,101.0	-1,252.0	5,253.6	5,237.7	15.89	330.574		
2,400.0	2,397.5	2,373.1	2,370.2	8.5	8.1	91.22	5,100.5	-1,256.7	5,254.4	5,237.9	16.56	317.275		
2,500.0	2,497.2	2,453.6	2,450.5	8.9	8.4	91.24	5,100.3	-1,261.1	5,255.6	5,238.4	17.23	305.023		
2,600.0	2,596.8	2,533.0	2,529.8	9.3	8.6	91.26	5,100.5	-1,265.3	5,257.2	5,239.3	17.90	293.775		
2,700.0	2,696.4	2,612.4	2,609.1	9.7	8.9	91.29	5,101.1	-1,269.3	5,259.2	5,240.7	18.56	283.340		
2,800.0	2,796.0	2,800.0	2,948.0	10.0	9.6	91.41	5,095.0	-1,288.3	5,258.3	5,238.7	19.63	267.855		
2,900.0	2,895.6	3,116.4	3,112.1	10.4	10.8	91.49	5,087.4	-1,295.7	5,254.9	5,233.7	21.17	248.272		
3,000.0	2,995.1	3,199.2	3,194.8	10.8	11.1	91.54	5,083.7	-1,298.6	5,251.5	5,229.6	21.85	240.316		
3,100.0	3,094.6	3,325.8	3,321.1	11.2	11.6	91.62	5,077.7	-1,303.8	5,248.0	5,225.3	22.70	231.212		
3,200.0	3,194.1	3,433.7	3,428.8	11.6	12.0	91.67	5,071.7	-1,309.7	5,244.1	5,220.7	23.48	223.323		
3,300.0	3,293.5	3,521.1	3,515.9	12.0	12.3	91.71	5,066.9	-1,315.3	5,240.4	5,216.2	24.20	216.551		
3,400.0	3,392.9	3,602.8	3,597.1	12.4	12.6	91.74	5,062.5	-1,321.0	5,236.9	5,212.0	24.90	210.347		
3,500.0	3,492.2	3,672.3	3,666.5	12.7	12.9	91.78	5,059.2	-1,325.4	5,234.0	5,208.4	25.55	204.847		
3,600.0	3,591.6	3,741.8	3,735.8	13.1	13.1	91.83	5,056.5	-1,328.9	5,231.6	5,205.4	26.21	199.638		
3,700.0	3,690.8	3,817.8	3,811.8	13.5	13.4	91.90	5,054.1	-1,331.9	5,229.8	5,202.9	26.88	194.548		
3,800.0	3,790.1	3,897.9	3,891.7	13.9	13.7	91.97	5,052.0	-1,334.6	5,228.4	5,200.8	27.57	189.627		
3,900.0	3,889.3	3,977.2	3,971.0	14.3	14.0	92.05	5,050.4	-1,337.0	5,227.4	5,199.1	28.26	184.977		
4,000.0	3,988.4	4,054.4	4,048.2	14.7	14.2	92.15	5,049.2	-1,338.6	5,226.8	5,197.9	28.94	180.620		
4,071.1	4,058.9	4,109.1	4,102.9	15.0	14.4	92.22	5,048.7	-1,339.4	5,226.7	5,197.3	29.42	177.650		
4,100.0	4,087.5	4,131.4	4,125.2	15.2	14.5	92.25	5,048.5	-1,339.5	5,226.7	5,197.1	29.62	176.474		
4,200.0	4,186.6	4,232.6	4,226.4	15.6	14.9	92.39	5,048.1	-1,339.9	5,226.9	5,196.5	30.37	172.090		
4,300.0	4,285.6	4,339.0	4,332.7	16.0	15.2	92.56	5,047.6	-1,339.6	5,227.0	5,195.9	31.15	167.821		
4,400.0	4,384.6	4,420.2	4,413.9	16.4	15.5	92.69	5,047.4	-1,338.9	5,227.3	5,195.4	31.82	164.265		
4,500.0	4,483.5	4,502.0	4,495.8	16.8	15.8	92.83	5,047.6	-1,337.6	5,227.9	5,195.4	32.50	160.846		
4,600.0	4,582.4	4,588.0	4,581.7	17.2	16.0	92.99	5,048.2	-1,335.7	5,228.9	5,195.7	33.20	157.512		
4,700.0	4,681.2	4,675.5	4,669.2	17.6	16.3	93.16	5,048.9	-1,333.7	5,230.2	5,196.3	33.90	154.294		
4,800.0	4,780.0	4,766.3	4,760.0	18.1	16.6	93.34	5,049.9	-1,331.6	5,231.7	5,197.1	34.61	151.150		
4,900.0	4,878.7	4,859.7	4,853.4	18.5	16.9	93.52	5,051.0	-1,329.8	5,233.5	5,198.1	35.34	148.085		

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 #135H
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 #135H	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: 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	4,977.4	4,963.6	4,957.3	18.9	17.3	93.72	5,052.1	-1,328.3	5,235.3	5,199.2	36.11	144.987		
5,100.0	5,076.0	5,064.4	5,058.0	19.3	17.6	93.91	5,053.0	-1,327.2	5,237.1	5,200.3	36.87	142.039		
5,180.6	5,155.5	5,144.9	5,138.6	19.7	17.9	94.07	5,053.7	-1,326.1	5,238.6	5,201.1	37.49	139.750		
5,200.0	5,174.6	5,164.2	5,157.8	19.8	17.9	94.11	5,053.9	-1,325.9	5,239.0	5,201.4	37.63	139.211		
5,300.0	5,273.2	5,263.4	5,257.0	20.2	18.3	94.30	5,054.8	-1,324.6	5,240.9	5,202.5	38.40	136.497		
5,400.0	5,371.7	5,355.5	5,349.1	20.6	18.6	94.49	5,055.6	-1,323.5	5,242.9	5,203.8	39.14	133.965		
5,500.0	5,470.2	5,446.3	5,439.9	21.1	18.9	94.67	5,056.5	-1,322.7	5,245.1	5,205.3	39.87	131.544		
5,600.0	5,568.8	5,545.1	5,538.7	21.5	19.2	94.86	5,057.5	-1,322.2	5,247.5	5,206.9	40.64	129.113		
5,700.0	5,667.3	5,646.8	5,640.4	22.0	19.5	95.05	5,058.4	-1,321.9	5,249.9	5,208.4	41.42	126.737		
5,755.0	5,721.5	5,708.0	5,701.6	22.2	19.8	95.16	5,058.9	-1,321.8	5,251.1	5,209.3	41.87	125.410		
5,800.0	5,765.9	5,759.1	5,752.7	22.4	19.9	95.26	5,059.3	-1,321.7	5,252.1	5,209.9	42.24	124.333		
5,900.0	5,864.5	5,872.6	5,866.2	22.8	20.3	95.48	5,059.8	-1,321.3	5,254.2	5,211.1	43.06	122.006		
6,000.0	5,963.1	5,967.3	5,960.9	23.3	20.6	95.65	5,060.3	-1,320.9	5,256.1	5,212.3	43.82	119.952		
6,100.0	6,061.9	6,066.0	6,059.6	23.7	21.0	95.83	5,060.7	-1,320.4	5,258.1	5,213.6	44.58	117.935		
6,200.0	6,160.6	6,165.4	6,159.0	24.1	21.3	96.02	5,061.2	-1,319.6	5,260.1	5,214.8	45.35	115.986		
6,300.0	6,259.4	6,282.6	6,276.1	24.6	21.7	96.23	5,061.6	-1,318.4	5,262.1	5,215.9	46.18	113.949		
6,400.0	6,358.3	6,423.4	6,416.9	25.0	22.2	96.47	5,061.3	-1,317.1	5,263.4	5,216.3	47.09	111.781		
6,500.0	6,457.2	6,534.0	6,527.6	25.4	22.6	96.64	5,060.2	-1,317.9	5,264.2	5,216.3	47.90	109.905		
6,600.0	6,556.2	6,636.9	6,630.4	25.8	22.9	96.77	5,058.6	-1,321.0	5,264.8	5,216.1	48.68	108.149		
6,700.0	6,655.2	6,724.7	6,718.1	26.3	23.2	96.87	5,057.4	-1,323.9	5,265.5	5,216.0	49.41	106.561		
6,800.0	6,754.2	6,818.1	6,811.4	26.7	23.6	96.98	5,056.3	-1,326.8	5,266.3	5,216.2	50.16	104.986		
6,900.0	6,853.3	6,926.0	6,919.3	27.1	24.0	97.10	5,055.0	-1,330.0	5,267.2	5,216.2	50.96	103.355		
7,000.0	6,952.4	7,067.4	7,060.7	27.5	24.5	97.25	5,052.8	-1,333.8	5,267.6	5,215.7	51.88	101.541		
7,100.0	7,051.6	7,227.2	7,220.3	27.9	25.0	97.42	5,048.5	-1,337.9	5,266.9	5,214.0	52.85	99.663		
7,200.0	7,150.8	7,370.7	7,363.7	28.3	25.5	97.59	5,043.6	-1,339.2	5,265.2	5,211.4	53.75	97.954		
7,300.0	7,250.1	7,418.2	7,411.2	28.7	25.7	97.65	5,042.1	-1,339.2	5,263.6	5,209.3	54.33	96.881		
7,400.0	7,349.4	7,475.2	7,468.2	29.1	25.9	97.72	5,040.8	-1,339.0	5,262.9	5,207.9	54.94	95.799		
7,447.9	7,397.0	7,502.4	7,495.4	29.3	26.0	97.76	5,040.4	-1,338.8	5,262.8	5,207.6	55.22	95.299		
7,500.0	7,448.8	7,543.0	7,536.0	29.6	26.1	97.81	5,039.9	-1,338.5	5,262.9	5,207.3	55.57	94.701		
7,600.0	7,548.1	7,620.3	7,613.3	30.0	26.4	97.91	5,039.2	-1,337.8	5,263.4	5,207.2	56.24	93.594		
7,700.0	7,647.6	7,715.9	7,708.9	30.4	26.7	98.03	5,038.5	-1,336.6	5,264.1	5,207.1	56.96	92.416		
7,800.0	7,747.0	7,819.8	7,812.8	30.7	27.1	98.17	5,037.8	-1,335.1	5,264.7	5,207.0	57.71	91.226		
7,900.0	7,846.5	7,925.8	7,918.8	31.1	27.5	98.30	5,036.9	-1,333.6	5,265.1	5,206.7	58.46	90.057		
8,000.0	7,946.0	8,040.4	8,033.3	31.5	27.9	98.44	5,035.7	-1,331.9	5,265.4	5,206.1	59.25	88.870		
8,100.0	8,045.5	8,154.2	8,147.1	31.9	28.2	98.57	5,034.1	-1,330.3	5,265.3	5,205.3	60.03	87.716		
8,200.0	8,145.1	8,266.8	8,259.7	32.3	28.6	98.70	5,032.3	-1,328.6	5,265.0	5,204.2	60.80	86.595		
8,300.0	8,244.7	8,379.3	8,372.2	32.7	29.0	98.82	5,030.3	-1,326.7	5,264.3	5,202.8	61.57	85.501		
8,400.0	8,344.4	8,491.8	8,484.6	33.1	29.4	98.94	5,028.0	-1,324.8	5,263.4	5,201.1	62.34	84.434		
8,500.0	8,444.0	8,596.2	8,588.9	33.5	29.8	99.05	5,025.6	-1,322.9	5,262.3	5,199.2	63.08	83.426		
8,600.0	8,543.7	8,694.9	8,687.7	33.8	30.1	99.15	5,023.3	-1,321.2	5,261.1	5,197.3	63.80	82.467		
8,700.0	8,643.4	8,776.2	8,768.9	34.2	30.4	99.22	5,021.6	-1,319.9	5,260.0	5,195.6	64.45	81.609		
8,800.0	8,743.2	8,857.6	8,850.3	34.6	30.7	99.29	5,020.2	-1,318.9	5,259.3	5,194.2	65.11	80.776		
8,883.1	8,826.1	8,900.7	8,893.3	34.9	30.8	99.33	5,019.6	-1,318.5	5,259.1	5,193.6	65.57	80.210		
8,900.0	8,843.0	8,909.1	8,901.8	35.0	30.9	99.34	5,019.5	-1,318.5	5,259.2	5,193.5	65.66	80.099		
9,000.0	8,942.7	8,958.9	8,951.6	35.3	31.0	99.37	5,019.4	-1,318.4	5,259.9	5,193.7	66.19	79.463		
9,100.0	9,042.5	9,008.8	9,001.5	35.7	31.2	99.41	5,019.7	-1,318.7	5,261.5	5,194.8	66.72	78.859		
9,200.0	9,142.4	9,073.7	9,066.3	36.1	31.4	99.44	5,020.7	-1,319.5	5,264.1	5,196.8	67.30	78.220		
9,300.0	9,242.2	9,221.0	9,213.6	36.4	32.0	99.51	5,022.5	-1,321.6	5,266.3	5,198.1	68.19	77.233		
9,400.0	9,342.1	9,298.8	9,291.4	36.8	32.2	99.55	5,023.1	-1,322.7	5,268.2	5,199.3	68.81	76.559		
9,500.0	9,442.0	9,366.3	9,358.9	37.1	32.5	99.58	5,024.1	-1,323.7	5,270.6	5,201.2	69.39	75.952		
9,600.0	9,541.9	9,435.6	9,428.1	37.5	32.7	99.61	5,025.6	-1,324.7	5,273.5	5,203.6	69.98	75.361		
9,700.0	9,641.8	9,522.8	9,515.4	37.9	33.0	99.64	5,027.7	-1,326.5	5,276.8	5,206.2	70.63	74.711		

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 #135H
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 #135H	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: 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		
9,800.0	9,741.7	9,610.2	9,602.6	38.2	33.3	99.65	5,030.0	-1,329.2	5,280.3	5,209.1	71.28	74.079		
9,900.0	9,841.6	9,733.0	9,725.3	38.6	33.7	99.67	5,033.1	-1,332.6	5,283.7	5,211.6	72.07	73.314		
10,000.0	9,941.6	9,842.0	9,834.4	38.9	34.1	99.71	5,035.6	-1,333.6	5,286.6	5,213.8	72.80	72.618		
10,100.0	10,041.5	9,928.7	9,921.0	39.3	34.4	99.74	5,037.7	-1,333.9	5,289.6	5,216.1	73.44	72.026		
10,200.0	10,141.5	10,021.2	10,013.5	39.6	34.7	99.77	5,040.2	-1,334.2	5,292.7	5,218.6	74.10	71.426		
10,300.0	10,241.5	10,132.0	10,124.2	39.9	35.1	99.80	5,043.2	-1,334.5	5,295.7	5,220.9	74.83	70.769		
10,400.0	10,341.5	10,239.8	10,232.0	40.3	35.5	99.83	5,045.8	-1,334.7	5,298.5	5,223.0	75.55	70.133		
10,500.0	10,441.4	10,345.1	10,337.3	40.6	35.8	99.84	5,048.2	-1,335.4	5,301.1	5,224.9	76.26	69.517		
10,600.0	10,541.4	10,447.1	10,439.3	41.0	36.2	99.85	5,050.4	-1,336.4	5,303.6	5,226.6	76.95	68.922		
10,700.0	10,641.4	10,547.9	10,540.0	41.3	36.5	99.86	5,052.6	-1,337.1	5,306.0	5,228.4	77.64	68.343		
10,800.0	10,741.4	10,648.5	10,616.6	41.6	37.5	99.85	5,053.4	-1,339.7	5,306.1	5,227.1	78.98	67.183		
10,900.0	10,841.4	10,756.3	10,748.4	42.0	38.0	99.84	5,051.5	-1,341.5	5,304.7	5,225.0	79.78	66.496		
10,935.6	10,877.0	10,785.4	10,777.5	42.1	38.1	-4.24	5,051.0	-1,341.9	5,304.2	5,224.2	79.99	66.308		
10,950.0	10,891.4	10,798.7	10,790.7	42.1	38.1	17.35	5,050.8	-1,342.1	5,303.8	5,223.7	80.09	66.226		
11,000.0	10,941.3	11,044.6	11,036.7	42.3	38.3	17.48	5,050.0	-1,342.7	5,299.7	5,219.3	80.41	65.908		
11,050.0	10,990.7	11,090.1	11,082.1	42.4	38.4	17.74	5,049.3	-1,343.3	5,291.6	5,210.9	80.74	65.540		
11,100.0	11,039.2	11,135.1	11,127.2	42.6	38.6	18.16	5,048.6	-1,343.9	5,279.5	5,198.4	81.07	65.126		
11,150.0	11,086.5	11,189.6	11,181.6	42.8	38.8	18.76	5,047.8	-1,344.6	5,263.3	5,181.9	81.42	64.640		
11,200.0	11,132.1	11,242.2	11,234.2	42.9	39.0	19.55	5,047.0	-1,345.3	5,243.2	5,161.5	81.77	64.118		
11,250.0	11,175.9	11,292.4	11,284.3	43.1	39.2	20.58	5,046.1	-1,345.9	5,219.4	5,137.3	82.11	63.565		
11,300.0	11,217.3	11,339.8	11,331.8	43.2	39.3	21.88	5,045.2	-1,346.4	5,192.1	5,109.7	82.44	62.984		
11,350.0	11,256.2	11,376.5	11,368.5	43.3	39.5	23.49	5,044.5	-1,346.9	5,161.5	5,078.7	82.72	62.399		
11,400.0	11,292.2	11,412.4	11,404.4	43.5	39.6	25.54	5,043.8	-1,347.2	5,127.8	5,044.8	82.99	61.789		
11,450.0	11,325.0	11,445.1	11,437.0	43.6	39.7	28.12	5,043.1	-1,347.5	5,091.3	5,008.1	83.24	61.162		
11,500.0	11,354.5	11,474.2	11,466.2	43.7	39.8	31.42	5,042.6	-1,347.8	5,052.4	4,968.9	83.48	60.522		
11,550.0	11,380.3	11,492.5	11,484.4	43.9	39.9	35.58	5,042.2	-1,347.9	5,011.2	4,927.5	83.67	59.890		
11,600.0	11,402.2	11,506.9	11,498.8	44.0	39.9	40.97	5,042.0	-1,348.0	4,968.2	4,884.4	83.85	59.252		
11,650.0	11,420.2	11,518.7	11,510.6	44.1	40.0	48.00	5,041.8	-1,348.1	4,923.7	4,839.7	84.01	58.609		
11,700.0	11,434.0	11,527.7	11,519.6	44.3	40.0	57.13	5,041.7	-1,348.2	4,878.1	4,793.9	84.16	57.963		
11,750.0	11,443.6	11,533.9	11,525.8	44.5	40.0	68.62	5,041.6	-1,348.2	4,831.5	4,747.2	84.29	57.318		
11,800.0	11,448.9	11,537.1	11,529.1	44.6	40.0	82.13	5,041.5	-1,348.3	4,784.5	4,700.1	84.42	56.677		
11,835.6	11,450.0	11,537.6	11,529.6	44.8	40.0	92.28	5,041.5	-1,348.3	4,750.9	4,666.4	84.50	56.226		
11,900.0	11,450.0	11,537.2	11,529.1	45.1	40.0	92.42	5,041.5	-1,348.3	4,689.9	4,605.3	84.64	55.411		
12,000.0	11,450.0	11,536.5	11,528.4	45.5	40.0	92.67	5,041.5	-1,348.3	4,594.5	4,509.7	84.85	54.148		
12,100.0	11,450.0	11,535.7	11,527.6	46.1	40.0	92.98	5,041.6	-1,348.2	4,498.3	4,413.3	85.06	52.887		
12,200.0	11,450.0	11,534.9	11,526.8	46.6	40.0	93.38	5,041.6	-1,348.2	4,401.4	4,316.1	85.25	51.631		
12,300.0	11,450.0	11,534.1	11,526.0	47.3	40.0	93.90	5,041.6	-1,348.2	4,303.8	4,218.3	85.42	50.382		
12,400.0	11,450.0	11,533.2	11,525.2	47.9	40.0	94.62	5,041.6	-1,348.2	4,205.5	4,119.9	85.58	49.141		
12,500.0	11,450.0	11,532.3	11,524.3	48.6	40.0	95.67	5,041.6	-1,348.2	4,106.8	4,021.0	85.72	47.910		
12,600.0	11,450.0	11,531.4	11,523.3	49.3	40.0	97.36	5,041.6	-1,348.2	4,007.5	3,921.7	85.83	46.689		
12,700.0	11,450.0	11,530.4	11,522.4	50.0	40.0	100.52	5,041.6	-1,348.2	3,908.0	3,822.1	85.93	45.481		
12,800.0	11,450.0	11,529.4	11,521.4	50.8	40.0	108.37	5,041.6	-1,348.2	3,808.2	3,722.2	85.99	44.286		
12,892.5	11,450.0	11,528.5	11,520.4	51.5	40.0	141.72	5,041.7	-1,348.2	3,715.7	3,629.7	86.02	43.194		
12,900.0	11,450.0	11,528.4	11,520.3	51.5	40.0	141.68	5,041.7	-1,348.2	3,708.2	3,622.2	86.03	43.106		
13,000.0	11,450.0	11,527.3	11,519.3	52.3	40.0	141.12	5,041.7	-1,348.2	3,608.3	3,522.2	86.05	41.933		
13,100.0	11,450.0	11,526.3	11,518.2	53.2	40.0	140.53	5,041.7	-1,348.2	3,508.3	3,422.2	86.07	40.760		
13,200.0	11,450.0	11,525.2	11,517.1	54.0	40.0	139.92	5,041.7	-1,348.2	3,408.3	3,322.2	86.10	39.586		
13,300.0	11,450.0	11,524.1	11,516.0	54.9	40.0	139.28	5,041.7	-1,348.2	3,308.3	3,222.2	86.13	38.413		
13,400.0	11,450.0	11,523.0	11,514.9	55.9	40.0	138.62	5,041.7	-1,348.2	3,208.3	3,122.2	86.15	37.239		
13,500.0	11,450.0	11,521.8	11,513.8	56.8	40.0	137.93	5,041.8	-1,348.2	3,108.3	3,022.2	86.19	36.066		
13,600.0	11,450.0	11,520.7	11,512.6	57.8	40.0	137.21	5,041.8	-1,348.1	3,008.4	2,922.1	86.22	34.892		
13,700.0	11,450.0	11,519.5	11,511.4	58.8	40.0	136.46	5,041.8	-1,348.1	2,908.4	2,822.1	86.25	33.719		

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 #135H
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 #135H	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: 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		
13,800.0	11,450.0	11,518.3	11,510.2	59.9	40.0	135.68	5,041.8	-1,348.1	2,808.4	2,722.1	86.29	32.546		
13,888.8	11,450.0	11,517.2	11,509.2	60.9	40.0	134.96	5,041.8	-1,348.1	2,719.6	2,633.3	86.32	31.505		
13,900.0	11,450.0	11,517.1	11,509.0	61.0	40.0	134.86	5,041.8	-1,348.1	2,708.4	2,622.1	86.33	31.373		
14,000.0	11,450.0	11,515.9	11,507.8	62.1	40.0	134.01	5,041.8	-1,348.1	2,608.5	2,522.1	86.37	30.201		
14,100.0	11,450.0	11,514.6	11,506.6	63.2	39.9	133.11	5,041.9	-1,348.1	2,508.5	2,422.1	86.41	29.029		
14,200.0	11,450.0	11,513.4	11,505.3	64.4	39.9	132.18	5,041.9	-1,348.1	2,408.5	2,322.1	86.46	27.857		
14,300.0	11,450.0	11,512.1	11,504.0	65.6	39.9	131.20	5,041.9	-1,348.1	2,308.5	2,222.0	86.51	26.685		
14,400.0	11,450.0	11,510.8	11,502.7	66.8	39.9	130.17	5,041.9	-1,348.1	2,208.6	2,122.0	86.56	25.514		
14,500.0	11,450.0	11,509.5	11,501.4	68.0	39.9	129.10	5,042.0	-1,348.1	2,108.6	2,022.0	86.62	24.343		
14,600.0	11,450.0	11,508.1	11,500.0	69.2	39.9	127.98	5,042.0	-1,348.1	2,008.6	1,922.0	86.68	23.173		
14,700.0	11,450.0	11,506.7	11,498.7	70.5	39.9	126.80	5,042.0	-1,348.0	1,908.7	1,821.9	86.75	22.003		
14,800.0	11,450.0	11,505.3	11,497.3	71.7	39.9	125.56	5,042.0	-1,348.0	1,808.7	1,721.9	86.82	20.834		
14,900.0	11,450.0	11,503.9	11,495.9	73.0	39.9	124.26	5,042.0	-1,348.0	1,708.8	1,621.9	86.89	19.665		
15,000.0	11,450.0	11,502.5	11,494.4	74.3	39.9	122.90	5,042.1	-1,348.0	1,608.8	1,521.8	86.98	18.497		
15,100.0	11,450.0	11,501.0	11,493.0	75.7	39.9	121.47	5,042.1	-1,348.0	1,508.9	1,421.8	87.07	17.329		
15,200.0	11,450.0	11,499.5	11,491.5	77.0	39.9	119.98	5,042.1	-1,348.0	1,408.9	1,321.7	87.17	16.163		
15,236.3	11,450.0	11,499.0	11,490.9	77.5	39.9	119.42	5,042.1	-1,348.0	1,372.6	1,285.4	87.21	15.739		
15,300.0	11,450.0	11,498.0	11,490.0	78.3	39.9	151.35	5,042.1	-1,348.0	1,309.0	1,221.7	87.27	15.000		
15,400.0	11,450.0	11,496.4	11,488.4	79.6	39.9	-124.15	5,042.2	-1,348.0	1,209.0	1,121.7	87.27	13.853		
15,500.0	11,450.0	11,494.8	11,486.8	80.9	39.9	-105.34	5,042.2	-1,348.0	1,109.1	1,021.9	87.17	12.724		
15,600.0	11,450.0	11,493.2	11,485.1	82.2	39.9	-99.43	5,042.2	-1,347.9	1,009.5	922.6	86.92	11.615		
15,700.0	11,450.0	11,492.6	11,484.6	83.5	39.9	-97.05	5,042.2	-1,347.9	910.4	823.9	86.50	10.525		
15,800.0	11,450.0	11,490.6	11,482.6	84.8	39.9	-95.17	5,042.3	-1,347.9	812.1	726.2	85.87	9.458		
15,900.0	11,450.0	11,488.6	11,480.5	86.0	39.9	-93.90	5,042.3	-1,347.9	715.1	630.1	85.02	8.412		
15,966.5	11,450.0	11,487.2	11,479.1	86.8	39.9	-93.26	5,042.3	-1,347.9	651.7	567.4	84.35	7.726		
16,000.0	11,450.0	11,486.5	11,478.4	87.2	39.8	-93.18	5,042.3	-1,347.9	620.1	536.1	84.02	7.380		
16,100.0	11,450.0	11,484.4	11,476.4	88.5	39.8	-92.86	5,042.4	-1,347.9	526.1	442.9	83.22	6.322		
16,200.0	11,450.0	11,482.4	11,474.3	89.7	39.8	-92.44	5,042.4	-1,347.9	433.3	350.3	83.06	5.217		
16,300.0	11,450.0	11,480.4	11,472.3	91.1	39.8	-91.90	5,042.5	-1,347.8	342.9	258.3	84.55	4.056		
16,400.0	11,450.0	11,478.3	11,470.3	92.5	39.8	-91.24	5,042.5	-1,347.8	257.4	167.1	90.32	2.850		
16,500.0	11,450.0	11,476.4	11,468.3	93.9	39.8	-90.50	5,042.5	-1,347.8	184.0	78.1	105.91	1.737		
16,600.0	11,450.0	11,474.4	11,466.3	95.3	39.8	-89.71	5,042.6	-1,347.8	143.1	12.6	130.43	1.097 Level 2		
16,620.5	11,450.0	11,474.0	11,465.9	95.6	39.8	-89.55	5,042.6	-1,347.8	141.6	7.9	133.72	1.059 Level 2, CC, ES, SF		
16,700.0	11,450.0	11,472.4	11,464.4	96.8	39.8	-88.93	5,042.6	-1,347.8	161.4	28.6	132.87	1.215 Level 2		
16,800.0	11,450.0	11,470.5	11,462.5	98.2	39.8	-88.22	5,042.7	-1,347.8	225.1	106.0	119.03	1.891		
16,900.0	11,450.0	11,468.7	11,460.6	99.7	39.8	-87.61	5,042.7	-1,347.7	307.0	198.6	108.31	2.834		
17,000.0	11,450.0	11,466.8	11,458.8	101.3	39.8	-87.13	5,042.7	-1,347.7	395.8	294.4	101.48	3.901		
17,100.0	11,450.0	11,465.0	11,456.9	102.8	39.8	-86.78	5,042.8	-1,347.7	487.9	390.9	96.97	5.031		
17,200.0	11,450.0	11,463.2	11,455.2	104.4	39.8	-86.56	5,042.8	-1,347.7	581.4	487.6	93.82	6.197		
17,300.0	11,450.0	11,461.5	11,453.5	106.0	39.8	-86.43	5,042.8	-1,347.7	675.8	584.3	91.50	7.386		
17,400.0	11,450.0	12,608.5	12,160.7	107.5	43.5	-175.49	5,770.5	-1,342.8	696.4	627.2	69.16	10.068		
17,426.1	11,450.0	12,635.2	12,162.2	108.0	43.7	-175.95	5,797.2	-1,344.0	697.4	628.1	69.36	10.055		
17,500.0	11,450.0	12,710.6	12,166.1	109.1	44.0	-177.28	5,872.4	-1,347.4	700.4	630.4	70.02	10.004		
17,600.0	11,450.0	12,840.4	12,170.6	110.7	44.7	-179.16	6,001.9	-1,353.3	703.6	632.4	71.20	9.882		
17,700.0	11,450.0	12,945.6	12,170.4	112.3	45.3	-179.66	6,107.0	-1,358.2	703.3	630.9	72.47	9.705		
17,800.0	11,450.0	13,050.4	12,169.6	113.9	46.0	-178.81	6,211.7	-1,363.2	702.8	629.0	73.79	9.523		
17,900.0	11,450.0	13,150.4	12,168.6	115.5	46.7	-178.31	6,311.6	-1,368.3	701.9	626.8	75.05	9.352		
18,000.0	11,450.0	13,252.6	12,167.2	117.0	47.5	-178.14	6,413.7	-1,374.1	700.6	624.3	76.26	9.187		
18,100.0	11,450.0	13,347.8	12,166.0	118.6	48.2	-178.12	6,508.7	-1,377.8	699.4	622.0	77.36	9.041		
18,155.7	11,450.0	13,399.9	12,165.7	119.4	48.6	-178.14	6,560.8	-1,379.0	699.1	621.1	77.96	8.967		
18,200.0	11,450.0	13,444.4	12,165.6	120.1	49.0	-178.16	6,605.3	-1,379.6	698.9	620.5	78.47	8.907		
18,300.0	11,450.0	13,549.2	12,164.7	121.7	49.9	-178.20	6,710.1	-1,380.9	698.1	618.4	79.70	8.758		

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 #135H
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 #135H	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: 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	
18,400.0	11,450.0	13,650.3	12,163.5	123.2	50.8	178.15	6,811.2	-1,381.0	696.9	615.9	80.94	8.610	
18,500.0	11,450.0	13,751.5	12,162.1	124.7	51.8	178.05	6,912.3	-1,380.6	695.5	613.3	82.22	8.460	
18,600.0	11,450.0	13,846.9	12,160.8	126.3	52.7	177.96	7,007.8	-1,380.3	694.2	610.8	83.43	8.320	
18,641.3	11,450.0	13,882.8	12,160.6	126.9	53.1	177.94	7,043.7	-1,380.3	694.0	610.1	83.89	8.273	
18,700.0	11,450.0	13,934.0	12,160.9	127.8	53.6	177.94	7,094.9	-1,380.7	694.3	609.8	84.53	8.214	
18,800.0	11,450.0	14,031.7	12,162.7	129.4	54.6	177.91	7,192.6	-1,381.1	696.2	610.4	85.79	8.115	
18,900.0	11,450.0	14,141.6	12,162.6	130.9	55.8	177.73	7,302.4	-1,379.7	696.1	608.8	87.28	7.976	
18,900.2	11,450.0	14,141.8	12,162.6	130.9	55.8	177.73	7,302.6	-1,379.7	696.1	608.8	87.28	7.975	
19,000.0	11,450.0	14,233.5	12,163.1	132.5	56.8	177.50	7,394.3	-1,377.6	696.8	608.2	88.56	7.868	
19,100.0	11,450.0	14,325.4	12,164.4	134.0	57.8	177.23	7,486.2	-1,374.9	698.4	608.5	89.89	7.770	
19,200.0	11,450.0	14,441.3	12,166.8	135.6	59.1	176.90	7,602.0	-1,371.6	700.8	609.2	91.61	7.650	
19,300.0	11,450.0	14,556.3	12,164.9	137.2	60.5	176.64	7,716.9	-1,369.5	699.2	605.9	93.32	7.493	
19,400.0	11,450.0	14,654.0	12,162.8	138.7	61.6	176.41	7,814.6	-1,367.5	697.2	602.5	94.76	7.358	
19,500.0	11,450.0	14,754.2	12,160.8	140.3	62.9	176.05	7,914.7	-1,364.1	695.5	599.2	96.34	7.220	
19,600.0	11,450.0	14,857.6	12,158.4	141.9	64.1	175.58	8,018.0	-1,359.4	693.6	595.5	98.06	7.072	
19,700.0	11,450.0	14,957.6	12,155.4	143.4	65.4	175.02	8,117.7	-1,353.6	691.1	591.3	99.83	6.922	
19,769.5	11,450.0	15,012.1	12,154.4	144.5	66.1	174.72	8,172.1	-1,350.4	690.3	589.6	100.75	6.852	
19,800.0	11,450.0	15,036.0	12,154.4	145.0	66.4	174.60	8,196.1	-1,349.1	690.5	589.3	101.15	6.827	
19,900.0	11,450.0	15,125.9	12,155.4	146.6	67.5	174.16	8,285.8	-1,344.4	692.2	589.5	102.70	6.740	
20,000.0	11,450.0	15,216.4	12,157.7	148.2	68.7	173.77	8,376.2	-1,340.0	695.3	591.1	104.25	6.670	
20,100.0	11,450.0	15,329.0	12,160.9	149.7	70.1	173.54	8,488.7	-1,337.8	698.5	592.3	106.12	6.582	
20,200.0	11,450.0	15,431.8	12,162.7	151.3	71.5	173.52	8,591.5	-1,338.0	700.3	592.6	107.65	6.506	
20,300.0	11,450.0	15,529.9	12,164.3	152.9	72.8	173.48	8,689.6	-1,338.2	701.9	592.9	109.09	6.435	
20,400.0	11,450.0	15,635.1	12,166.6	154.5	74.3	173.49	8,794.7	-1,338.8	704.2	593.6	110.64	6.365	
20,500.0	11,450.0	15,753.1	12,165.5	156.1	75.9	173.68	8,912.7	-1,342.2	702.8	590.5	112.29	6.259	
20,600.0	11,450.0	15,847.0	12,165.1	157.6	77.2	173.93	9,006.5	-1,346.0	702.0	588.6	113.41	6.190	
20,700.0	11,450.0	15,948.7	12,164.9	159.2	78.6	174.25	9,108.1	-1,350.8	701.5	586.8	114.63	6.119	
20,800.0	11,450.0	16,059.1	12,163.8	160.8	80.2	174.62	9,218.4	-1,356.2	700.1	584.1	115.99	6.036	
20,900.0	11,450.0	16,156.9	12,161.9	162.4	81.6	174.84	9,316.1	-1,360.0	697.8	580.6	117.24	5.952	
20,974.2	11,450.0	16,217.7	12,161.3	163.6	82.4	174.98	9,376.8	-1,362.1	697.0	579.0	117.97	5.909	
21,000.0	11,450.0	16,238.0	12,161.5	164.0	82.7	175.02	9,397.1	-1,362.8	697.1	578.9	118.20	5.898	
21,100.0	11,450.0	16,316.0	12,163.5	165.6	83.8	175.19	9,475.0	-1,365.2	699.5	580.4	119.10	5.873	
21,200.0	11,450.0	16,402.8	12,168.2	167.2	85.1	175.37	9,561.7	-1,367.8	704.7	584.6	120.16	5.865	
21,300.0	11,450.0	16,498.0	12,174.2	168.8	86.5	175.63	9,656.6	-1,371.2	710.7	589.4	121.35	5.857	
21,400.0	11,450.0	16,588.4	12,180.9	170.4	87.8	175.96	9,746.7	-1,375.5	717.8	595.4	122.39	5.865	
21,500.0	11,450.0	16,677.0	12,188.6	172.0	89.1	176.31	9,834.8	-1,380.1	726.3	602.9	123.39	5.886	
21,600.0	11,450.0	16,781.9	12,199.4	173.6	90.6	176.99	9,938.7	-1,388.9	736.2	611.6	124.61	5.908	
21,700.0	11,450.0	16,897.0	12,207.7	175.2	92.3	177.63	10,053.3	-1,397.6	743.0	616.9	126.12	5.891	
21,757.9	11,450.0	16,956.7	12,211.5	176.1	93.2	177.92	10,107.2	-1,401.6	746.9	620.1	126.81	5.890	

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 #135H
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 #135H	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: 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	-98.42	-32.6	-220.0	222.4					
100.0	100.0	100.7	100.7	0.1	0.1	5.65	-32.5	-219.9	222.1	221.8	0.26	841.142		
200.0	200.0	200.5	200.5	0.5	0.4	5.67	-32.5	-219.5	221.2	220.3	0.90	244.749		
300.0	300.0	300.3	300.3	0.8	0.8	5.66	-32.5	-219.4	220.3	218.7	1.62	136.137		
400.0	400.0	400.2	400.2	1.2	1.1	5.67	-32.6	-219.2	219.0	216.7	2.33	93.851		
500.0	500.0	499.9	499.9	1.6	1.5	5.64	-32.9	-219.2	217.5	214.5	3.05	71.427		
600.0	600.0	599.7	599.7	1.9	1.8	5.61	-33.2	-219.2	215.8	212.0	3.75	57.516		
700.0	699.9	698.8	698.8	2.3	2.2	5.66	-33.2	-219.5	214.0	209.5	4.45	48.087		
800.0	799.9	798.2	798.1	2.6	2.5	5.76	-33.2	-220.2	212.2	207.0	5.15	41.225		
900.0	899.9	897.0	897.0	3.0	2.8	5.91	-33.1	-221.3	210.5	204.6	5.85	35.996		
1,000.0	999.8	995.5	995.4	3.4	3.2	6.10	-33.0	-223.0	209.1	202.5	6.55	31.925		
1,100.0	1,099.8	1,094.8	1,094.8	3.7	3.5	6.37	-32.7	-225.3	207.9	200.7	7.26	28.653		
1,200.0	1,199.7	1,194.5	1,194.4	4.1	3.9	6.54	-32.8	-227.8	206.6	198.7	7.97	25.937		
1,300.0	1,299.6	1,294.3	1,294.1	4.5	4.2	6.61	-33.4	-230.3	205.2	196.5	8.68	23.638		
1,400.0	1,399.5	1,394.1	1,393.9	4.8	4.6	6.67	-34.0	-233.0	203.4	194.0	9.39	21.660		
1,500.0	1,499.4	1,497.0	1,496.8	5.2	5.0	6.59	-35.2	-235.1	200.9	190.8	10.11	19.859		
1,600.0	1,599.3	1,600.6	1,600.4	5.6	5.3	6.07	-37.6	-235.1	196.1	185.3	10.84	18.100		
1,700.0	1,699.1	1,704.0	1,703.7	5.9	5.7	5.32	-40.4	-233.1	189.2	177.7	11.55	16.384		
1,800.0	1,798.9	1,807.1	1,806.7	6.3	6.0	4.57	-42.7	-229.2	180.1	167.9	12.26	14.696		
1,900.0	1,898.8	1,901.8	1,901.4	6.7	6.4	4.55	-42.8	-226.8	171.5	158.6	12.96	13.239		
2,000.0	1,998.6	1,998.7	1,998.3	7.0	6.7	5.64	-40.2	-226.8	164.7	151.0	13.66	12.058		
2,100.0	2,098.3	2,099.9	2,099.4	7.4	7.1	7.23	-36.5	-227.0	157.7	143.3	14.36	10.980		
2,200.0	2,198.1	2,200.1	2,199.5	7.8	7.4	8.90	-32.9	-226.4	149.7	134.6	15.07	9.935		
2,300.0	2,297.8	2,298.5	2,297.9	8.1	7.7	10.35	-30.4	-226.1	141.9	126.1	15.78	8.995		
2,400.0	2,397.5	2,397.6	2,397.0	8.5	8.1	11.52	-29.1	-226.5	134.6	118.1	16.48	8.165		
2,500.0	2,497.2	2,497.6	2,496.9	8.9	8.4	12.63	-28.3	-226.8	127.0	109.8	17.20	7.386		
2,600.0	2,596.8	2,597.7	2,597.0	9.3	8.8	13.81	-27.7	-226.8	118.9	101.0	17.91	6.639		
2,700.0	2,696.4	2,697.8	2,697.1	9.7	9.1	15.33	-26.9	-226.4	110.0	91.4	18.62	5.910		
2,800.0	2,796.0	2,797.9	2,797.3	10.0	9.5	17.34	-25.8	-225.5	100.5	81.1	19.33	5.196		
2,900.0	2,895.6	2,898.0	2,897.3	10.4	9.8	19.98	-24.6	-223.8	90.0	70.0	20.05	4.489		
3,000.0	2,995.1	2,995.8	2,995.1	10.8	10.2	23.44	-23.2	-222.3	79.7	58.9	20.78	3.834		
3,100.0	3,094.6	3,093.0	3,092.3	11.2	10.5	27.83	-21.3	-223.6	72.3	50.8	21.51	3.360		
3,200.0	3,194.1	3,193.4	3,192.6	11.6	10.9	33.34	-19.1	-226.3	66.5	44.3	22.26	2.990		
3,300.0	3,293.5	3,294.3	3,293.5	12.0	11.2	40.81	-17.1	-226.7	59.1	36.1	23.02	2.568		
3,400.0	3,392.9	3,394.2	3,393.4	12.4	11.6	51.49	-15.4	-225.1	50.9	27.1	23.81	2.139		
3,500.0	3,492.2	3,493.7	3,492.8	12.7	11.9	66.96	-14.1	-222.1	43.9	19.2	24.62	1.782		
3,600.0	3,591.6	3,592.5	3,591.5	13.1	12.3	86.68	-13.1	-219.0	40.6	15.2	25.40	1.599		
3,611.0	3,602.5	3,603.3	3,602.4	13.2	12.3	88.91	-13.0	-218.7	40.6	15.1	25.48	1.593 CC, ES, SF		
3,700.0	3,690.8	3,691.5	3,690.5	13.5	12.6	106.10	-12.2	-216.8	42.5	16.4	26.09	1.630		
3,800.0	3,790.1	3,790.8	3,789.8	13.9	13.0	121.61	-11.7	-215.7	48.4	21.6	26.73	1.810		
3,900.0	3,889.3	3,890.3	3,889.3	14.3	13.3	132.74	-11.4	-215.4	56.4	29.0	27.37	2.061		
4,000.0	3,988.4	3,989.5	3,988.6	14.7	13.7	140.97	-11.4	-215.5	65.9	37.9	28.02	2.351		
4,100.0	4,087.5	4,088.9	4,087.9	15.2	14.0	147.31	-11.7	-215.6	76.4	47.7	28.68	2.664		
4,200.0	4,186.6	4,188.2	4,187.2	15.6	14.3	152.45	-12.5	-215.7	87.7	58.3	29.36	2.987		
4,300.0	4,285.6	4,287.4	4,286.4	16.0	14.7	156.76	-13.8	-215.6	99.5	69.5	30.04	3.314		
4,400.0	4,384.6	4,386.3	4,385.3	16.4	15.0	160.50	-15.6	-215.1	112.2	81.5	30.72	3.651		
4,500.0	4,483.5	4,485.1	4,484.1	16.8	15.4	163.78	-17.9	-214.3	125.6	94.2	31.41	3.999		
4,600.0	4,582.4	4,584.0	4,582.9	17.2	15.7	166.54	-20.3	-213.4	139.7	107.6	32.11	4.350		
4,700.0	4,681.2	4,682.7	4,681.6	17.6	16.1	168.82	-22.8	-212.6	154.3	121.5	32.81	4.703		
4,800.0	4,780.0	4,781.3	4,780.2	18.1	16.4	170.47	-24.5	-211.9	169.5	136.0	33.51	5.057		
4,900.0	4,878.7	4,880.2	4,879.0	18.5	16.7	171.68	-25.7	-211.6	185.1	150.9	34.22	5.408		
5,000.0	4,977.4	4,979.0	4,977.9	18.9	17.1	172.72	-27.0	-211.3	201.0	166.0	34.93	5.754		

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 #135H
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 #135H	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: 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		
5,100.0	5,076.0	5,077.4	5,076.3	19.3	17.4	173.61	-28.3	-211.0	217.2	181.6	35.64	6.095		
5,180.6	5,155.5	5,156.6	5,155.4	19.7	17.7	174.22	-29.2	-210.7	230.7	194.5	36.21	6.372		
5,200.0	5,174.6	5,175.6	5,174.4	19.8	17.8	174.35	-29.3	-210.6	234.0	197.7	36.35	6.438		
5,300.0	5,273.2	5,272.5	5,271.4	20.2	18.1	175.21	-31.2	-209.6	251.3	214.2	37.04	6.784		
5,400.0	5,371.7	5,369.1	5,367.8	20.6	18.5	176.44	-35.0	-207.2	269.3	231.6	37.73	7.137		
5,500.0	5,470.2	5,467.5	5,466.0	21.1	18.8	177.95	-40.7	-204.0	287.7	249.2	38.45	7.483		
5,600.0	5,568.8	5,565.8	5,563.9	21.5	19.1	179.63	-48.2	-200.4	306.2	267.0	39.16	7.818		
5,700.0	5,667.3	5,664.0	5,661.7	22.0	19.5	-178.77	-56.4	-196.8	324.8	284.9	39.88	8.145		
5,755.0	5,721.5	5,718.0	5,715.5	22.2	19.7	-177.97	-60.8	-194.8	335.1	294.8	40.27	8.320		
5,800.0	5,765.9	5,762.2	5,759.6	22.4	19.8	-177.36	-64.4	-193.2	343.5	302.9	40.60	8.461		
5,900.0	5,864.5	5,860.7	5,857.6	22.8	20.2	-176.12	-72.4	-189.8	362.0	320.7	41.32	8.760		
6,000.0	5,963.1	5,958.6	5,955.2	23.3	20.5	-175.03	-80.1	-186.6	380.2	338.2	42.05	9.043		
6,100.0	6,061.9	6,054.2	6,050.5	23.7	20.9	-174.04	-87.8	-183.0	398.6	355.9	42.74	9.325		
6,200.0	6,160.6	6,150.5	6,146.3	24.1	21.2	-173.11	-95.5	-178.9	417.4	373.9	43.45	9.606		
6,300.0	6,259.4	6,249.2	6,244.6	24.6	21.6	-172.26	-103.2	-174.6	436.0	391.8	44.18	9.868		
6,400.0	6,358.3	6,346.9	6,341.9	25.0	21.9	-171.52	-110.6	-170.5	454.2	409.3	44.90	10.116		
6,500.0	6,457.2	6,441.9	6,436.5	25.4	22.3	-170.79	-118.2	-165.9	472.7	427.1	45.60	10.368		
6,600.0	6,556.2	6,538.7	6,532.9	25.8	22.6	-170.04	-126.4	-160.7	491.6	445.3	46.31	10.614		
6,700.0	6,655.2	6,639.6	6,633.3	26.3	23.0	-169.32	-134.8	-155.6	509.9	462.8	47.08	10.831		
6,800.0	6,754.2	6,740.0	6,733.3	26.7	23.4	-168.71	-142.7	-151.1	527.4	479.6	47.83	11.026		
6,900.0	6,853.3	6,839.7	6,832.6	27.1	23.7	-168.22	-149.8	-146.9	544.4	495.8	48.58	11.207		
7,000.0	6,952.4	6,934.8	6,927.5	27.5	24.1	-167.84	-155.9	-142.9	561.1	511.9	49.27	11.388		
7,100.0	7,051.6	7,026.1	7,018.4	27.9	24.4	-167.51	-161.5	-138.0	578.6	528.7	49.92	11.592		
7,200.0	7,150.8	7,122.4	7,114.3	28.3	24.8	-167.19	-167.3	-132.0	596.9	546.3	50.62	11.791		
7,300.0	7,250.1	7,224.3	7,215.9	28.7	25.2	-166.88	-173.2	-125.9	614.5	563.1	51.39	11.956		
7,400.0	7,349.4	7,321.5	7,312.8	29.1	25.5	-166.60	-178.8	-120.4	631.4	579.3	52.11	12.118		
7,500.0	7,448.8	7,415.9	7,406.8	29.6	25.9	-166.28	-184.9	-114.6	648.6	595.9	52.79	12.288		
7,600.0	7,548.1	7,513.1	7,503.6	30.0	26.2	-165.91	-191.8	-108.1	666.1	612.6	53.51	12.448		
7,700.0	7,647.6	7,612.0	7,602.0	30.4	26.6	-165.53	-198.8	-101.5	683.2	628.9	54.24	12.594		
7,800.0	7,747.0	7,713.6	7,703.1	30.7	27.0	-165.17	-206.0	-94.9	699.8	644.7	55.01	12.720		
7,900.0	7,846.5	7,816.3	7,805.4	31.1	27.3	-164.82	-213.1	-88.9	715.5	659.7	55.79	12.825		
8,000.0	7,946.0	7,919.4	7,908.2	31.5	27.7	-164.51	-219.9	-83.4	730.4	673.9	56.57	12.912		
8,100.0	8,045.5	8,022.8	8,011.2	31.9	28.1	-164.23	-226.3	-78.5	744.4	687.1	57.35	12.981		
8,200.0	8,145.1	8,122.1	8,110.3	32.3	28.5	-164.03	-231.6	-74.0	757.9	699.8	58.08	13.049		
8,300.0	8,244.7	8,223.2	8,211.2	32.7	28.8	-163.91	-236.0	-69.6	770.9	712.1	58.82	13.105		
8,400.0	8,344.4	8,331.3	8,319.1	33.1	29.2	-163.88	-239.1	-65.6	782.8	723.2	59.62	13.129		
8,500.0	8,444.0	8,437.5	8,425.3	33.5	29.6	-163.96	-240.6	-62.8	793.4	733.0	60.40	13.136		
8,600.0	8,543.7	8,540.6	8,528.4	33.8	30.0	-164.09	-241.1	-60.6	803.1	741.9	61.13	13.136		
8,700.0	8,643.4	8,641.8	8,629.5	34.2	30.3	-164.25	-241.0	-58.8	812.1	750.2	61.85	13.129		
8,800.0	8,743.2	8,741.4	8,729.2	34.6	30.7	-164.39	-241.2	-57.1	820.7	758.1	62.56	13.118		
8,900.0	8,843.0	8,841.4	8,829.1	35.0	31.0	-164.50	-241.6	-55.4	829.0	765.7	63.27	13.102		
9,000.0	8,942.7	8,941.4	8,929.1	35.3	31.4	-164.59	-242.0	-53.8	836.9	773.0	63.99	13.080		
9,100.0	9,042.5	9,046.3	9,034.0	35.7	31.8	-164.70	-242.3	-52.3	844.3	779.6	64.73	13.043		
9,200.0	9,142.4	9,152.5	9,140.2	36.1	32.1	-164.82	-242.2	-51.7	850.6	785.1	65.48	12.990		
9,300.0	9,242.2	9,253.5	9,241.2	36.4	32.5	-164.93	-242.1	-51.5	856.2	790.0	66.19	12.935		
9,400.0	9,342.1	9,354.5	9,342.2	36.8	32.8	-165.01	-242.2	-51.4	861.3	794.4	66.90	12.873		
9,500.0	9,442.0	9,452.7	9,440.4	37.1	33.2	-165.08	-242.5	-51.3	866.1	798.5	67.60	12.812		
9,600.0	9,541.9	9,551.9	9,539.6	37.5	33.5	-165.12	-243.1	-51.1	870.7	802.4	68.31	12.748		
9,700.0	9,641.8	9,653.6	9,641.3	37.9	33.9	-165.16	-243.6	-50.9	875.0	806.0	69.03	12.676		
9,800.0	9,741.7	9,755.6	9,743.3	38.2	34.2	-165.19	-244.1	-51.0	878.7	809.0	69.75	12.599		
9,900.0	9,841.6	9,858.1	9,845.8	38.6	34.6	-165.21	-244.8	-51.3	881.8	811.4	70.47	12.514		
10,000.0	9,941.6	9,960.9	9,948.5	38.9	35.0	-165.21	-245.7	-52.0	884.4	813.2	71.18	12.424		

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 #135H
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 #135H	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: 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		
10,100.0	10,041.5	10,063.8	10,051.4	39.3	35.3	-165.24	-246.1	-53.0	886.2	814.3	71.90	12.326		
10,200.0	10,141.5	10,159.3	10,147.0	39.6	35.6	-165.28	-246.1	-53.9	887.7	815.2	72.57	12.233		
10,300.0	10,241.5	10,251.4	10,239.1	39.9	36.0	-165.29	-246.4	-54.1	889.7	816.5	73.22	12.151		
10,400.0	10,341.5	10,345.0	10,332.7	40.3	36.3	-165.29	-246.9	-53.5	892.3	818.4	73.88	12.077		
10,500.0	10,441.4	10,439.5	10,427.2	40.6	36.6	-165.31	-247.0	-52.3	895.1	820.5	74.55	12.007		
10,600.0	10,541.4	10,541.1	10,528.7	41.0	37.0	-165.34	-246.9	-50.6	898.0	822.7	75.26	11.931		
10,700.0	10,641.4	10,646.7	10,634.4	41.3	37.3	-165.32	-247.4	-49.4	900.0	824.0	76.01	11.841		
10,800.0	10,741.4	10,749.6	10,737.2	41.6	37.7	-165.32	-247.6	-48.8	901.2	824.4	76.72	11.746		
10,900.0	10,841.4	10,852.0	10,839.6	42.0	38.1	-165.44	-245.9	-48.5	901.8	824.3	77.43	11.646		
10,935.6	10,877.0	10,886.1	10,873.7	42.1	38.2	90.44	-245.1	-48.4	901.9	824.2	77.66	11.613		
10,950.0	10,891.4	10,900.0	10,887.6	42.1	38.2	112.00	-244.7	-48.3	902.0	824.3	77.76	11.601		
11,000.0	10,941.3	10,948.1	10,935.7	42.3	38.4	111.99	-243.7	-48.0	903.6	825.5	78.08	11.572		
11,050.0	10,990.7	10,995.8	10,983.4	42.4	38.5	112.06	-242.8	-47.7	906.9	828.5	78.40	11.567		
11,100.0	11,039.2	11,042.9	11,030.4	42.6	38.7	112.20	-242.1	-47.3	912.0	833.3	78.73	11.584		
11,150.0	11,086.5	11,091.4	11,079.0	42.8	38.9	112.44	-241.5	-46.8	918.9	839.9	79.06	11.622		
11,200.0	11,132.1	11,138.4	11,125.9	42.9	39.0	112.69	-240.9	-46.4	927.7	848.3	79.39	11.685		
11,250.0	11,175.9	11,183.3	11,170.8	43.1	39.2	112.90	-240.5	-46.1	938.5	858.8	79.71	11.775		
11,300.0	11,217.3	11,225.8	11,213.4	43.2	39.3	113.02	-240.2	-45.9	951.5	871.5	80.01	11.892		
11,350.0	11,256.2	11,265.3	11,252.9	43.3	39.5	112.96	-240.0	-45.7	966.8	886.5	80.29	12.041		
11,400.0	11,292.2	11,301.9	11,289.4	43.5	39.6	112.67	-239.8	-45.6	984.5	904.0	80.56	12.222		
11,450.0	11,325.0	11,335.2	11,322.7	43.6	39.7	112.08	-239.7	-45.5	1,004.7	923.9	80.80	12.435		
11,500.0	11,354.5	11,365.0	11,352.6	43.7	39.8	111.12	-239.6	-45.4	1,027.5	946.5	81.02	12.682		
11,550.0	11,380.3	11,391.1	11,378.7	43.9	39.9	109.71	-239.5	-45.3	1,052.7	971.5	81.21	12.963		
11,600.0	11,402.2	11,413.4	11,400.9	44.0	40.0	107.79	-239.5	-45.3	1,080.3	999.0	81.37	13.277		
11,650.0	11,420.2	11,432.2	11,419.8	44.1	40.0	105.31	-239.4	-45.2	1,110.2	1,028.7	81.51	13.621		
11,700.0	11,434.0	11,446.7	11,434.3	44.3	40.1	102.17	-239.4	-45.2	1,142.2	1,060.5	81.62	13.994		
11,750.0	11,443.6	11,456.8	11,444.4	44.5	40.1	98.32	-239.4	-45.2	1,175.9	1,094.2	81.70	14.393		
11,800.0	11,448.9	11,462.4	11,449.9	44.6	40.1	93.75	-239.4	-45.2	1,211.2	1,129.4	81.75	14.815		
11,835.6	11,450.0	11,463.6	11,451.1	44.8	40.1	90.08	-239.4	-45.2	1,237.0	1,155.2	81.77	15.128		
11,900.0	11,450.0	11,463.6	11,451.2	45.1	40.1	90.08	-239.4	-45.2	1,284.5	1,202.7	81.79	15.705		
12,000.0	11,450.0	12,639.7	12,124.9	45.5	43.5	121.15	485.8	-52.9	1,346.1	1,268.0	78.11	17.233		
12,100.0	11,450.0	12,741.7	12,123.7	46.1	43.9	120.24	587.8	-55.1	1,369.6	1,290.3	79.29	17.272		
12,200.0	11,450.0	12,863.8	12,120.8	46.6	44.5	119.35	709.7	-59.4	1,388.4	1,307.7	80.70	17.204		
12,300.0	11,450.0	12,932.8	12,119.4	47.3	44.8	118.87	778.6	-62.0	1,404.6	1,322.8	81.73	17.185		
12,400.0	11,450.0	13,006.8	12,117.2	47.9	45.3	118.36	852.6	-62.2	1,420.1	1,337.3	82.85	17.141		
12,500.0	11,450.0	13,108.1	12,115.0	48.6	45.9	117.84	953.9	-62.2	1,433.3	1,349.1	84.26	17.010		
12,600.0	11,450.0	13,212.2	12,115.7	49.3	46.6	117.57	1,057.9	-64.4	1,443.0	1,357.4	85.68	16.843		
12,700.0	11,450.0	13,310.9	12,117.8	50.0	47.3	117.47	1,156.6	-67.3	1,449.6	1,362.6	87.05	16.652		
12,800.0	11,450.0	13,432.3	12,119.2	50.8	48.2	117.43	1,277.9	-70.9	1,452.6	1,363.8	88.76	16.365		
12,892.5	11,450.0	13,524.0	12,119.5	51.5	49.0	117.49	1,369.5	-75.0	1,451.1	1,361.0	90.14	16.099		
12,900.0	11,450.0	13,540.7	12,120.0	51.5	49.1	117.52	1,386.1	-76.0	1,450.8	1,360.4	90.36	16.055		
12,998.1	11,450.0	13,596.4	12,121.1	52.3	49.6	117.58	1,441.8	-77.9	1,449.3	1,358.0	91.29	15.876		
13,000.0	11,450.0	13,597.5	12,121.1	52.3	49.6	117.58	1,442.9	-78.0	1,449.3	1,358.0	91.31	15.872		
13,100.0	11,450.0	13,697.1	12,121.0	53.2	50.5	117.57	1,542.5	-78.0	1,449.9	1,357.0	92.96	15.598		
13,200.0	11,450.0	13,814.6	12,117.5	54.0	51.6	117.42	1,659.9	-77.8	1,449.4	1,354.4	95.02	15.253		
13,300.0	11,450.0	13,921.9	12,114.9	54.9	52.6	117.34	1,767.2	-78.9	1,448.1	1,351.1	96.99	14.931		
13,400.0	11,450.0	14,017.3	12,113.5	55.9	53.6	117.31	1,862.6	-80.8	1,446.3	1,347.5	98.78	14.642		
13,462.6	11,450.0	14,061.1	12,112.8	56.5	54.0	117.28	1,906.3	-81.1	1,445.9	1,346.2	99.67	14.507		
13,500.0	11,450.0	14,088.0	12,112.2	56.8	54.3	117.25	1,933.3	-80.8	1,446.0	1,345.8	100.22	14.429		
13,600.0	11,450.0	14,162.2	12,109.7	57.8	55.1	117.12	2,007.4	-78.7	1,447.7	1,345.9	101.79	14.222		
13,700.0	11,450.0	14,239.7	12,107.3	58.8	55.9	116.96	2,084.7	-75.3	1,451.0	1,347.5	103.46	14.025		
13,800.0	11,450.0	14,321.6	12,109.5	59.9	56.8	116.98	2,166.6	-72.6	1,455.7	1,350.6	105.12	13.848		

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 #135H
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 #135H	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: 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		
13,888.8	11,450.0	14,416.3	12,113.4	60.9	57.9	117.05	2,261.2	-69.5	1,460.6	1,353.6	107.03	13.648		
13,900.0	11,450.0	14,432.9	12,114.0	61.0	58.1	117.06	2,277.7	-69.0	1,461.2	1,353.8	107.36	13.610		
14,000.0	11,450.0	14,587.1	12,115.5	62.1	59.8	117.05	2,431.9	-66.8	1,463.5	1,352.9	110.55	13.238		
14,100.0	11,450.0	14,682.6	12,115.2	63.2	61.0	117.02	2,527.4	-66.5	1,464.3	1,351.7	112.66	12.998		
14,200.0	11,450.0	14,770.4	12,117.9	64.4	62.0	117.11	2,615.1	-66.9	1,465.9	1,351.4	114.57	12.795		
14,300.0	11,450.0	14,883.6	12,124.2	65.6	63.4	117.34	2,728.2	-68.7	1,467.8	1,350.9	116.93	12.553		
14,400.0	11,450.0	15,019.2	12,124.2	66.8	65.1	117.35	2,863.7	-70.2	1,467.4	1,347.5	119.93	12.236		
14,500.0	11,450.0	15,119.5	12,121.5	68.0	66.4	117.27	2,964.0	-71.3	1,466.0	1,343.7	122.33	11.984		
14,600.0	11,450.0	15,215.4	12,120.8	69.2	67.6	117.26	3,059.9	-73.0	1,464.7	1,340.1	124.61	11.754		
14,700.0	11,450.0	15,331.9	12,123.9	70.5	69.1	117.43	3,176.3	-77.5	1,463.2	1,335.9	127.21	11.502		
14,800.0	11,450.0	15,472.7	12,123.2	71.7	71.0	117.50	3,316.9	-83.7	1,459.8	1,329.4	130.39	11.196		
14,900.0	11,450.0	15,561.4	12,121.8	73.0	72.2	117.53	3,405.4	-88.8	1,454.7	1,322.1	132.60	10.971		
15,000.0	11,450.0	15,628.9	12,120.7	74.3	73.1	117.53	3,472.8	-91.2	1,451.5	1,317.1	134.41	10.800		
15,078.9	11,450.0	15,678.6	12,120.0	75.4	73.8	117.50	3,522.6	-91.8	1,450.7	1,315.0	135.75	10.687		
15,100.0	11,450.0	15,692.3	12,119.8	75.7	73.9	117.49	3,536.3	-91.7	1,450.8	1,314.7	136.11	10.659		
15,200.0	11,450.0	15,784.6	12,118.6	77.0	75.2	117.42	3,628.6	-91.0	1,451.6	1,313.1	138.49	10.481		
15,236.3	11,450.0	15,818.8	12,118.1	77.5	75.7	117.40	3,662.8	-90.6	1,452.0	1,312.6	139.38	10.417		
15,300.0	11,450.0	15,879.0	12,117.3	78.3	76.5	117.36	3,722.9	-89.8	1,452.2	1,311.2	140.93	10.304		
15,400.0	11,450.0	15,978.1	12,116.4	79.6	77.9	117.37	3,822.0	-88.4	1,450.1	1,306.7	143.44	10.110		
15,500.0	11,450.0	16,074.7	12,115.9	80.9	79.2	117.50	3,918.6	-87.1	1,445.1	1,299.3	145.81	9.911		
15,600.0	11,450.0	16,190.9	12,115.7	82.2	80.8	117.78	4,034.8	-86.5	1,436.5	1,287.9	148.58	9.668		
15,700.0	11,450.0	16,306.9	12,118.3	83.5	82.5	118.33	4,150.8	-88.7	1,423.9	1,272.7	151.14	9.421		
15,800.0	11,450.0	16,412.1	12,119.8	84.8	84.0	118.96	4,255.9	-91.6	1,407.0	1,253.7	153.38	9.174		
15,900.0	11,450.0	16,509.1	12,118.6	86.0	85.4	119.54	4,352.8	-92.9	1,387.4	1,231.9	155.47	8.924		
15,966.5	11,450.0	16,574.6	12,117.8	86.8	86.3	120.01	4,418.4	-93.8	1,372.6	1,215.8	156.82	8.753		
16,000.0	11,450.0	16,607.5	12,117.5	87.2	86.8	120.10	4,451.2	-94.3	1,365.0	1,207.5	157.49	8.667		
16,100.0	11,450.0	16,704.1	12,117.0	88.5	88.2	120.36	4,547.8	-96.1	1,344.4	1,184.9	159.47	8.430		
16,200.0	11,450.0	16,800.9	12,117.4	89.7	89.6	120.63	4,644.6	-98.3	1,326.8	1,165.4	161.47	8.217		
16,300.0	11,450.0	16,888.3	12,119.1	91.1	90.9	120.89	4,731.9	-100.7	1,312.7	1,149.5	163.26	8.040		
16,400.0	11,450.0	16,993.0	12,123.4	92.5	92.4	121.29	4,836.5	-104.3	1,302.2	1,136.8	165.40	7.873		
16,500.0	11,450.0	17,094.7	12,123.1	93.9	93.9	121.42	4,938.2	-105.9	1,294.1	1,126.3	167.80	7.712		
16,600.0	11,450.0	17,198.0	12,118.9	95.3	95.5	121.29	5,041.4	-105.2	1,288.8	1,118.2	170.60	7.555		
16,700.0	11,450.0	17,291.9	12,113.8	96.8	96.9	121.06	5,135.2	-103.7	1,286.6	1,113.2	173.36	7.421		
16,712.6	11,450.0	17,303.7	12,113.2	96.9	97.0	121.02	5,146.9	-103.5	1,286.6	1,112.8	173.72	7.406		
16,800.0	11,450.0	17,374.3	12,110.9	98.2	98.1	120.89	5,217.5	-102.5	1,288.3	1,112.4	175.85	7.326		
16,900.0	11,450.0	17,471.2	12,110.4	99.7	99.5	120.77	5,314.4	-101.8	1,293.9	1,115.3	178.68	7.242		
17,000.0	11,450.0	17,572.9	12,110.0	101.3	101.1	120.61	5,416.1	-101.2	1,302.5	1,120.7	181.73	7.167		
17,100.0	11,450.0	17,665.9	12,111.7	102.8	102.5	120.53	5,509.0	-101.7	1,314.2	1,129.6	184.55	7.121		
17,200.0	11,450.0	17,782.7	12,114.4	104.4	104.2	120.39	5,625.8	-103.3	1,328.5	1,140.5	188.01	7.066		
17,300.0	11,450.0	17,876.4	12,117.3	106.0	105.6	120.30	5,719.5	-105.2	1,345.5	1,154.6	190.98	7.045		
17,400.0	11,450.0	18,004.4	12,118.3	107.5	107.6	119.95	5,847.3	-108.1	1,364.3	1,169.3	194.95	6.998		
17,426.1	11,450.0	18,035.7	12,117.6	108.0	108.1	119.82	5,878.7	-108.7	1,369.4	1,173.4	196.00	6.987		
17,500.0	11,450.0	18,113.2	12,115.4	109.1	109.3	119.23	5,956.1	-110.4	1,382.9	1,184.3	198.70	6.960		
17,600.0	11,450.0	18,219.1	12,112.4	110.7	110.9	118.56	6,061.9	-113.2	1,398.5	1,196.2	202.28	6.913		
17,700.0	11,450.0	18,327.1	12,109.9	112.3	112.5	118.05	6,169.8	-117.2	1,410.3	1,204.6	205.77	6.854		
17,800.0	11,450.0	18,396.7	12,108.8	113.9	113.6	117.77	6,239.4	-119.6	1,419.8	1,211.5	208.29	6.816		
17,900.0	11,450.0	18,471.7	12,107.0	115.5	114.8	117.47	6,314.4	-119.9	1,428.4	1,217.6	210.87	6.774		
18,000.0	11,450.0	18,568.2	12,104.0	117.0	116.3	117.15	6,410.8	-118.9	1,435.0	1,221.0	213.98	6.706		
18,100.0	11,450.0	18,679.0	12,100.9	118.6	118.0	116.91	6,521.6	-118.5	1,438.0	1,220.6	217.37	6.615		
18,155.7	11,450.0	18,731.8	12,099.6	119.4	118.8	116.85	6,574.4	-118.7	1,438.0	1,219.1	218.95	6.568		
18,179.4	11,450.0	18,748.9	12,099.4	119.8	119.0	116.84	6,591.4	-118.8	1,438.0	1,218.5	219.47	6.552		
18,200.0	11,450.0	18,763.7	12,099.3	120.1	119.3	116.84	6,606.3	-118.8	1,438.0	1,218.1	219.91	6.539		

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 #135H
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 #135H	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: 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		
18,300.0	11,450.0	18,846.3	12,100.5	121.7	120.6	116.87	6,688.8	-118.9	1,439.3	1,217.0	222.23	6.476		
18,400.0	11,450.0	18,969.4	12,101.8	123.2	122.5	116.90	6,812.0	-118.9	1,440.5	1,214.8	225.67	6.383		
18,500.0	11,450.0	19,080.8	12,100.7	124.7	124.2	116.87	6,923.3	-119.9	1,439.8	1,211.0	228.87	6.291		
18,600.0	11,450.0	19,195.8	12,100.7	126.3	126.0	116.89	7,038.3	-122.4	1,438.6	1,206.5	232.05	6.199		
18,700.0	11,450.0	19,279.1	12,099.5	127.8	127.3	116.86	7,121.6	-123.6	1,437.4	1,202.9	234.56	6.128		
18,800.0	11,450.0	19,381.6	12,095.3	129.4	128.9	116.69	7,223.9	-123.1	1,436.7	1,198.9	237.74	6.043		
18,900.0	11,450.0	19,478.4	12,090.6	130.9	130.4	116.49	7,320.7	-122.3	1,435.9	1,195.0	240.83	5.962		
18,931.6	11,450.0	19,501.4	12,089.5	131.4	130.8	116.45	7,343.6	-122.1	1,435.8	1,194.2	241.58	5.943		
19,000.0	11,450.0	19,551.1	12,087.3	132.5	131.5	116.35	7,393.3	-121.0	1,436.2	1,193.0	243.20	5.906		
19,100.0	11,450.0	19,632.7	12,085.3	134.0	132.8	116.22	7,474.8	-118.8	1,438.2	1,192.5	245.73	5.853		
19,200.0	11,450.0	19,738.0	12,086.7	135.6	134.5	116.23	7,580.1	-117.2	1,440.8	1,192.0	248.76	5.792		
19,300.0	11,450.0	19,860.8	12,089.0	137.2	136.4	116.30	7,702.9	-117.3	1,442.3	1,190.1	252.22	5.719		
19,400.0	11,450.0	19,989.6	12,089.7	138.7	138.4	116.34	7,831.6	-119.2	1,441.9	1,186.1	255.80	5.637		
19,500.0	11,450.0	20,108.6	12,087.5	140.3	140.3	116.29	7,950.6	-121.8	1,439.8	1,180.6	259.23	5.554		
19,600.0	11,450.0	20,183.0	12,086.0	141.9	141.5	116.25	8,024.9	-123.3	1,437.8	1,176.2	261.59	5.496		
19,638.1	11,450.0	20,208.2	12,085.8	142.5	141.9	116.25	8,050.1	-123.6	1,437.6	1,175.2	262.38	5.479		
19,700.0	11,450.0	20,259.3	12,085.6	143.4	142.7	116.23	8,101.3	-123.6	1,437.9	1,174.0	263.91	5.448		
19,800.0	11,450.0	20,343.8	12,084.4	145.0	144.0	116.16	8,185.7	-122.6	1,439.0	1,172.6	266.49	5.400		
19,900.0	11,450.0	20,419.3	12,084.4	146.6	145.2	116.12	8,261.2	-120.8	1,441.8	1,173.1	268.72	5.366		
20,000.0	11,450.0	20,519.2	12,083.9	148.2	146.8	116.03	8,361.0	-117.4	1,445.3	1,173.5	271.78	5.318		
20,100.0	11,450.0	20,608.0	12,081.4	149.7	148.2	115.86	8,449.8	-113.2	1,449.1	1,174.5	274.61	5.277		
20,200.0	11,450.0	20,676.8	12,081.0	151.3	149.3	115.77	8,518.4	-109.4	1,454.5	1,177.9	276.57	5.259		
20,300.0	11,450.0	20,827.9	12,084.8	152.9	151.7	115.80	8,669.3	-104.7	1,459.0	1,177.8	281.20	5.189		
20,400.0	11,450.0	20,400.0	12,086.3	154.5	144.9	115.83	8,799.2	-103.9	1,460.7	1,183.9	276.80	5.277		
20,500.0	11,450.0	21,088.3	12,086.6	156.1	155.8	115.86	8,929.8	-106.4	1,459.5	1,170.8	288.67	5.056		
20,600.0	11,450.0	21,172.2	12,085.7	157.6	157.1	115.83	9,013.6	-107.2	1,458.9	1,167.6	291.26	5.009		
20,607.6	11,450.0	21,178.4	12,085.6	157.8	157.2	115.83	9,019.8	-107.2	1,458.9	1,167.4	291.46	5.005		
20,700.0	11,450.0	21,253.9	12,086.1	159.2	158.4	115.84	9,095.2	-107.6	1,459.4	1,165.7	293.69	4.969		
20,800.0	11,450.0	21,348.6	12,088.3	160.8	160.0	115.91	9,190.0	-107.9	1,460.8	1,164.4	296.36	4.929		
20,900.0	11,450.0	21,449.3	12,089.4	162.4	161.6	115.93	9,290.7	-107.5	1,462.3	1,163.0	299.30	4.886		
21,000.0	11,450.0	21,542.0	12,089.2	164.0	163.0	115.89	9,383.3	-106.4	1,464.0	1,161.9	302.09	4.846		
21,100.0	11,450.0	21,645.3	12,088.7	165.6	164.7	115.83	9,486.6	-104.8	1,465.9	1,160.6	305.25	4.802		
21,200.0	11,450.0	21,733.5	12,089.0	167.2	166.1	115.81	9,574.8	-103.5	1,468.0	1,160.1	307.89	4.768		
21,300.0	11,450.0	21,907.5	12,084.6	168.8	168.9	115.65	9,748.7	-104.5	1,466.4	1,153.2	313.11	4.683		
21,400.0	11,450.0	22,006.3	12,081.6	170.4	170.5	115.57	9,847.4	-106.5	1,463.9	1,147.7	316.21	4.629		
21,500.0	11,450.0	22,110.4	12,080.5	172.0	172.1	115.57	9,951.5	-109.7	1,461.4	1,142.1	319.27	4.577		
21,600.0	11,450.0	22,206.4	12,081.2	173.6	173.7	115.65	10,047.4	-113.5	1,458.8	1,136.8	322.02	4.530		
21,700.0	11,450.0	22,310.8	12,083.1	175.2	175.4	115.78	10,151.7	-118.3	1,456.2	1,131.3	324.83	4.483		
21,757.8	11,450.0	22,329.0	12,083.5	176.1	175.7	115.81	10,169.9	-119.1	1,455.1	1,129.6	325.55	4.470		
21,757.9	11,450.0	22,329.0	12,083.5	176.1	175.7	115.81	10,169.9	-119.1	1,455.1	1,129.6	325.55	4.470		

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 #135H
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 #135H	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 #203H - Sidetrack - Sidetrack		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				
0.0	0.0	0.0	0.0	0.0	0.0	90.12	-4.6	2,233.2	2,233.3							
100.0	100.0	90.6	90.6	0.1	0.1	-165.82	-4.5	2,233.4	2,233.6	2,233.3	0.27	8,130.560				
200.0	200.0	181.2	181.2	0.5	0.3	-165.83	-4.4	2,234.0	2,234.7	2,234.0	0.77	2,892.440				
300.0	300.0	273.3	273.3	0.8	0.5	-165.83	-4.2	2,235.0	2,236.6	2,235.2	1.38	1,617.216				
400.0	400.0	371.3	371.3	1.2	0.9	-165.84	-4.3	2,236.2	2,239.0	2,236.9	2.09	1,070.288				
500.0	500.0	482.4	482.3	1.6	1.3	-165.84	-4.6	2,237.4	2,241.5	2,238.7	2.85	787.464				
600.0	600.0	603.6	603.5	1.9	1.7	-165.84	-4.9	2,237.8	2,243.6	2,239.9	3.63	618.619				
700.0	699.9	716.2	716.2	2.3	2.1	-165.84	-5.5	2,237.3	2,245.2	2,240.8	4.37	513.755				
800.0	799.9	823.6	823.6	2.6	2.5	-165.84	-6.2	2,236.3	2,246.7	2,241.6	5.10	440.682				
900.0	899.9	921.4	921.4	3.0	2.8	-165.84	-6.9	2,235.3	2,248.3	2,242.5	5.80	387.890				
1,000.0	999.8	1,016.5	1,016.5	3.4	3.1	-165.85	-7.4	2,234.4	2,250.4	2,244.0	6.49	347.000				
1,100.0	1,099.8	1,336.9	1,336.3	3.7	4.2	-165.97	-5.1	2,220.4	2,252.1	2,244.2	7.96	282.988				
1,200.0	1,199.7	1,436.9	1,435.7	4.1	4.6	-166.04	-3.6	2,209.6	2,245.1	2,236.4	8.67	259.084				
1,300.0	1,299.6	1,530.7	1,529.1	4.5	4.9	-166.09	-2.7	2,200.0	2,238.8	2,229.4	9.35	239.323				
1,400.0	1,399.5	1,626.0	1,623.8	4.8	5.3	-166.14	-2.0	2,190.3	2,232.9	2,222.8	10.05	222.147				
1,500.0	1,499.4	1,711.5	1,708.9	5.2	5.6	-166.17	-1.9	2,181.9	2,227.7	2,217.0	10.72	207.869				
1,600.0	1,599.3	1,800.2	1,797.2	5.6	5.9	-166.15	-3.5	2,173.9	2,223.6	2,212.2	11.40	195.135				
1,700.0	1,699.1	1,891.4	1,888.0	5.9	6.3	-166.14	-5.4	2,165.9	2,220.1	2,208.0	12.08	183.735				
1,800.0	1,798.9	1,978.9	1,975.2	6.3	6.6	-166.12	-7.4	2,158.7	2,217.5	2,204.7	12.76	173.785				
1,900.0	1,898.8	2,086.9	2,082.9	6.7	7.0	-166.10	-9.9	2,150.2	2,215.5	2,202.0	13.51	164.020				
2,000.0	1,998.6	2,197.2	2,192.7	7.0	7.4	-166.05	-13.5	2,140.6	2,213.0	2,198.7	14.26	155.139				
2,100.0	2,098.3	2,290.8	2,285.9	7.4	7.8	-166.01	-16.8	2,132.5	2,210.9	2,195.9	14.97	147.726				
2,200.0	2,198.1	2,377.8	2,372.6	7.8	8.1	-165.96	-20.2	2,125.3	2,209.5	2,193.9	15.65	141.218				
2,282.6	2,280.5	2,447.0	2,441.5	8.1	8.4	-165.92	-22.8	2,120.1	2,209.1	2,193.0	16.20	136.378 CC				
2,300.0	2,297.8	2,461.4	2,455.8	8.1	8.4	-165.92	-23.3	2,119.0	2,209.2	2,192.9	16.31	135.414				
2,400.0	2,397.5	2,545.6	2,539.7	8.5	8.7	-165.88	-26.5	2,113.3	2,209.9	2,192.9	16.98	130.115				
2,500.0	2,497.2	2,686.5	2,680.2	8.9	9.3	-165.81	-31.7	2,103.8	2,211.2	2,193.3	17.85	123.867				
2,552.8	2,549.8	2,736.3	2,729.8	9.1	9.5	-165.79	-33.6	2,099.6	2,211.0	2,192.8	18.23	121.318				
2,600.0	2,596.8	2,775.1	2,768.5	9.3	9.6	-165.77	-35.2	2,096.5	2,211.2	2,192.6	18.54	119.262 ES				
2,700.0	2,696.4	2,855.8	2,848.9	9.7	9.9	-165.72	-38.7	2,090.6	2,212.3	2,193.1	19.20	115.211				
2,800.0	2,796.0	2,930.2	2,923.0	10.0	10.2	-165.67	-42.4	2,085.8	2,214.7	2,194.8	19.84	111.629				
2,900.0	2,895.6	3,076.6	3,069.0	10.4	10.5	-165.56	-50.0	2,076.5	2,217.6	2,197.2	20.46	108.407				
3,000.0	2,995.1	3,172.0	3,163.9	10.8	10.5	-165.43	-57.0	2,069.3	2,219.5	2,198.6	20.85	106.472				
3,100.0	3,094.6	3,269.1	3,260.2	11.2	10.6	-165.27	-65.6	2,061.9	2,221.7	2,200.4	21.25	104.538				
3,200.0	3,194.1	3,355.3	3,345.8	11.6	10.7	-165.10	-74.3	2,055.7	2,224.6	2,202.9	21.67	102.654				
3,300.0	3,293.5	3,445.5	3,435.3	12.0	10.7	-164.92	-83.8	2,049.6	2,228.3	2,206.2	22.10	100.817				
3,400.0	3,392.9	3,525.4	3,514.5	12.4	10.8	-164.75	-92.2	2,044.7	2,233.0	2,210.5	22.54	99.077				
3,500.0	3,492.2	3,630.4	3,618.9	12.7	10.9	-164.56	-102.5	2,038.9	2,238.7	2,215.6	23.01	97.310				
3,600.0	3,591.6	3,752.7	3,740.6	13.1	11.1	-164.43	-111.3	2,031.2	2,243.8	2,220.3	23.50	95.484				
3,700.0	3,690.8	3,883.5	3,870.9	13.5	11.3	-164.37	-117.6	2,021.7	2,248.3	2,224.2	24.01	93.629				
3,800.0	3,790.1	4,081.9	4,067.8	13.9	11.6	-164.19	-130.4	2,000.9	2,249.7	2,225.1	24.61	91.412				
3,874.6	3,864.1	4,154.3	4,139.5	14.2	11.7	-164.12	-135.5	1,991.6	2,249.4	2,224.4	25.00	89.973				
3,900.0	3,889.3	4,173.3	4,158.2	14.3	11.8	-164.11	-136.6	1,989.3	2,249.4	2,224.3	25.13	89.514				
4,000.0	3,988.4	4,244.7	4,229.1	14.7	11.9	-164.08	-139.9	1,981.1	2,250.5	2,224.9	25.63	87.812				
4,100.0	4,087.5	4,315.6	4,299.6	15.2	12.1	-164.09	-141.7	1,973.9	2,253.4	2,227.2	26.12	86.254				
4,200.0	4,186.6	4,415.5	4,399.0	15.6	12.3	-164.14	-143.3	1,964.7	2,257.3	2,230.6	26.66	84.681				
4,300.0	4,285.6	4,560.3	4,543.0	16.0	12.6	-164.21	-145.4	1,948.8	2,259.6	2,232.4	27.26	82.904				
4,400.0	4,384.6	4,641.4	4,623.5	16.4	12.7	-164.26	-146.4	1,939.8	2,262.3	2,234.5	27.79	81.421				
4,500.0	4,483.5	4,735.4	4,717.0	16.8	13.0	-164.32	-147.2	1,930.2	2,266.2	2,237.9	28.34	79.975				
4,600.0	4,582.4	4,829.1	4,810.3	17.2	13.2	-164.38	-148.4	1,920.5	2,270.3	2,241.4	28.90	78.568				
4,700.0	4,681.2	4,912.9	4,893.6	17.6	13.4	-164.41	-150.4	1,912.3	2,275.3	2,245.9	29.45	77.267				
4,800.0	4,780.0	5,024.5	5,004.7	18.1	13.7	-164.43	-153.8	1,901.9	2,281.2	2,251.1	30.06	75.890				

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 #135H
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 #135H	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: 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		
4,900.0	4,878.7	5,129.9	5,109.5	18.5	13.9	-164.44	-157.4	1,891.0	2,286.4	2,255.7	30.67	74.549		
5,000.0	4,977.4	5,206.3	5,185.4	18.9	14.1	-164.46	-159.9	1,883.6	2,292.4	2,261.2	31.23	73.409		
5,100.0	5,076.0	5,293.9	5,272.7	19.3	14.4	-164.48	-162.5	1,876.0	2,299.8	2,268.0	31.81	72.296		
5,180.6	5,155.5	5,384.9	5,363.3	19.7	14.6	-164.51	-165.1	1,868.0	2,305.9	2,273.6	32.33	71.326		
5,200.0	5,174.6	5,408.1	5,386.4	19.8	14.7	-164.52	-165.8	1,865.8	2,307.3	2,274.8	32.46	71.088		
5,300.0	5,273.2	5,542.0	5,519.5	20.2	15.0	-164.54	-170.7	1,852.2	2,313.6	2,280.4	33.16	69.776		
5,400.0	5,371.7	5,609.2	5,586.3	20.6	15.2	-164.55	-173.3	1,845.5	2,320.1	2,286.4	33.72	68.810		
5,500.0	5,470.2	5,690.7	5,667.4	21.1	15.5	-164.57	-175.8	1,838.3	2,327.7	2,293.4	34.30	67.854		
5,600.0	5,568.8	5,772.8	5,749.2	21.5	15.7	-164.63	-177.1	1,831.6	2,336.0	2,301.2	34.89	66.955		
5,700.0	5,667.3	5,864.2	5,840.4	22.0	16.0	-164.70	-178.1	1,824.8	2,345.0	2,309.5	35.50	66.060		
5,755.0	5,721.5	5,919.5	5,895.6	22.2	16.1	-164.74	-178.7	1,820.6	2,350.0	2,314.2	35.85	65.555		
5,800.0	5,765.9	5,964.7	5,940.6	22.4	16.2	-164.78	-179.2	1,817.3	2,354.1	2,317.9	36.13	65.146		
5,900.0	5,864.5	6,062.4	6,038.1	22.8	16.5	-164.87	-180.1	1,810.0	2,362.8	2,326.0	36.77	64.264		
6,000.0	5,963.1	6,159.8	6,135.2	23.3	16.8	-164.94	-181.4	1,802.9	2,371.4	2,334.0	37.40	63.401		
6,100.0	6,061.9	6,258.6	6,233.8	23.7	17.1	-165.02	-182.3	1,795.7	2,379.7	2,341.6	38.04	62.549		
6,200.0	6,160.6	6,363.1	6,338.0	24.1	17.4	-165.09	-183.6	1,788.1	2,387.6	2,348.9	38.71	61.682		
6,300.0	6,259.4	6,454.7	6,429.3	24.6	17.7	-165.15	-184.6	1,781.4	2,395.2	2,355.9	39.33	60.893		
6,400.0	6,358.3	6,555.5	6,529.8	25.0	18.0	-165.23	-185.4	1,774.2	2,402.7	2,362.7	39.99	60.082		
6,500.0	6,457.2	6,659.4	6,633.4	25.4	18.3	-165.30	-186.3	1,766.7	2,409.8	2,369.1	40.66	59.268		
6,600.0	6,556.2	6,747.5	6,721.3	25.8	18.5	-165.35	-187.3	1,760.5	2,416.7	2,375.4	41.28	58.540		
6,700.0	6,655.2	6,859.4	6,832.9	26.3	18.9	-165.43	-188.3	1,752.6	2,423.2	2,381.3	41.98	57.723		
6,800.0	6,754.2	6,951.4	6,924.7	26.7	19.2	-165.49	-189.1	1,746.0	2,429.4	2,386.8	42.62	57.003		
6,900.0	6,853.3	7,035.6	7,008.7	27.1	19.4	-165.54	-189.6	1,740.3	2,435.7	2,392.5	43.23	56.342		
7,000.0	6,952.4	7,120.4	7,093.4	27.5	19.7	-165.59	-190.3	1,735.2	2,442.4	2,398.5	43.85	55.704		
7,100.0	7,051.6	7,208.6	7,281.0	27.9	20.3	-165.72	-191.1	1,720.7	2,447.0	2,402.2	44.79	54.627		
7,200.0	7,150.8	7,399.3	7,371.2	28.3	20.6	-165.79	-190.8	1,712.3	2,449.8	2,404.4	45.44	53.917		
7,300.0	7,250.1	7,509.0	7,480.5	28.7	20.9	-165.87	-190.5	1,702.3	2,452.4	2,406.3	46.14	53.156		
7,400.0	7,349.4	7,590.1	7,561.3	29.1	21.2	-165.94	-189.8	1,695.0	2,454.9	2,408.1	46.75	52.510		
7,500.0	7,448.8	7,682.5	7,653.4	29.6	21.5	-166.02	-189.1	1,687.2	2,457.6	2,410.2	47.40	51.849		
7,600.0	7,548.1	7,782.6	7,753.1	30.0	21.8	-166.10	-188.7	1,678.9	2,460.1	2,412.0	48.07	51.174		
7,700.0	7,647.6	7,867.6	7,837.9	30.4	22.1	-166.15	-188.4	1,672.0	2,462.5	2,413.8	48.70	50.566		
7,800.0	7,747.0	7,971.3	7,941.2	30.7	22.5	-166.23	-188.0	1,664.0	2,464.9	2,415.6	49.39	49.911		
7,900.0	7,846.5	8,064.4	8,034.1	31.1	22.8	-166.29	-187.7	1,656.8	2,467.1	2,417.0	50.04	49.301		
8,000.0	7,946.0	8,174.5	8,143.8	31.5	23.1	-166.35	-187.8	1,648.1	2,468.7	2,418.0	50.75	48.641		
8,100.0	8,045.5	8,267.7	8,236.7	31.9	23.4	-166.40	-187.8	1,640.8	2,470.1	2,418.7	51.41	48.046		
8,200.0	8,145.1	8,368.1	8,336.8	32.3	23.8	-166.44	-188.0	1,633.0	2,471.2	2,419.2	52.09	47.438		
8,300.0	8,244.7	8,460.9	8,429.3	32.7	24.1	-166.49	-188.2	1,626.0	2,472.3	2,419.5	52.75	46.865		
8,400.0	8,344.4	8,563.1	8,531.3	33.1	24.4	-166.52	-188.9	1,618.3	2,473.1	2,419.6	53.44	46.273		
8,500.0	8,444.0	8,667.0	8,634.8	33.5	24.8	-166.55	-189.8	1,610.3	2,473.3	2,419.2	54.14	45.680		
8,600.0	8,543.7	8,759.9	8,727.5	33.8	25.1	-166.57	-190.5	1,603.3	2,473.3	2,418.5	54.81	45.129		
8,700.0	8,643.4	8,843.6	8,811.0	34.2	25.4	-166.59	-191.3	1,597.3	2,473.5	2,418.1	55.43	44.620		
8,800.0	8,743.2	8,927.5	8,894.7	34.6	25.7	-166.61	-192.0	1,592.0	2,474.2	2,418.1	56.06	44.135		
8,900.0	8,843.0	9,059.8	9,026.7	35.0	26.1	-166.63	-193.0	1,582.7	2,473.7	2,416.8	56.87	43.499		
9,000.0	8,942.7	9,143.9	9,110.5	35.3	26.4	-166.64	-194.2	1,576.6	2,472.9	2,415.4	57.50	43.007		
9,100.0	9,042.5	9,231.2	9,231.2	35.7	26.3	-166.64	-196.0	1,568.0	2,471.8	2,414.0	57.72	42.823		
9,200.0	9,142.4	9,327.4	9,338.3	36.1	27.2	-166.64	-197.4	1,559.1	2,469.1	2,410.1	58.98	41.861		
9,300.0	9,242.2	9,445.9	9,411.6	36.4	27.5	-166.64	-198.6	1,553.6	2,467.1	2,407.5	59.58	41.408		
9,400.0	9,342.1	9,601.8	9,567.0	36.8	28.0	-166.65	-200.1	1,541.3	2,464.3	2,403.8	60.47	40.755		
9,500.0	9,442.0	9,678.4	9,643.3	37.1	28.3	-166.67	-199.9	1,534.7	2,460.4	2,399.3	61.08	40.284		
9,600.0	9,541.9	9,748.1	9,712.8	37.5	28.5	-166.69	-199.8	1,529.4	2,457.3	2,395.6	61.66	39.854		
9,700.0	9,641.8	9,909.2	9,873.4	37.9	29.1	-166.71	-200.6	1,516.3	2,453.3	2,390.7	62.56	39.217		
9,800.0	9,741.7	10,008.1	9,971.7	38.2	29.5	-166.70	-201.9	1,506.7	2,447.4	2,384.1	63.25	38.695		

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 #135H
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 #135H	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: 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		
9,900.0	9,841.6	10,090.3	10,053.7	38.6	29.8	-166.68	-203.3	1,499.3	2,441.8	2,377.9	63.88	38.223		
10,000.0	9,941.6	10,168.9	10,132.0	38.9	30.0	-166.67	-204.5	1,492.8	2,436.7	2,372.2	64.50	37.775		
10,100.0	10,041.5	10,234.0	10,196.9	39.3	30.3	-166.66	-205.5	1,488.1	2,432.3	2,367.2	65.07	37.381		
10,200.0	10,141.5	10,311.8	10,274.6	39.6	30.5	-166.63	-206.9	1,483.3	2,428.7	2,363.0	65.67	36.983		
10,300.0	10,241.5	10,464.3	10,426.6	39.9	31.1	-166.58	-209.9	1,473.0	2,424.0	2,357.5	66.57	36.414		
10,400.0	10,341.5	10,547.0	10,509.1	40.3	31.4	-166.56	-211.2	1,467.0	2,418.6	2,351.4	67.20	35.992		
10,500.0	10,441.4	10,650.8	10,612.6	40.6	31.7	-166.53	-213.0	1,460.1	2,413.5	2,345.6	67.91	35.541		
10,600.0	10,541.4	10,767.5	10,729.0	41.0	32.2	-166.48	-215.4	1,451.0	2,406.8	2,338.2	68.66	35.053		
10,700.0	10,641.4	10,861.6	10,822.8	41.3	32.5	-166.42	-218.1	1,443.9	2,400.1	2,330.8	69.34	34.614		
10,800.0	10,741.4	10,952.9	10,913.8	41.6	32.8	-166.35	-220.9	1,437.1	2,393.3	2,323.3	70.01	34.187		
10,900.0	10,841.4	11,018.9	10,979.6	42.0	33.1	-166.31	-222.7	1,432.6	2,386.9	2,316.3	70.57	33.823		
10,935.6	10,877.0	11,037.1	10,997.7	42.1	33.1	89.64	-223.1	1,431.7	2,385.0	2,314.2	70.74	33.714		
10,950.0	10,891.4	11,044.4	11,005.1	42.1	33.2	111.28	-223.2	1,431.3	2,384.3	2,313.5	70.81	33.673		
11,000.0	10,941.3	11,083.0	11,043.6	42.3	33.3	111.45	-223.7	1,429.8	2,383.5	2,312.4	71.10	33.525		
11,001.8	10,943.1	11,083.0	11,043.6	42.3	33.3	111.45	-223.7	1,429.8	2,383.5	2,312.4	71.10	33.523		
11,050.0	10,990.7	11,104.4	11,065.0	42.4	33.4	111.44	-223.9	1,429.1	2,384.7	2,313.4	71.31	33.442		
11,100.0	11,039.2	11,148.1	11,108.7	42.6	33.5	111.41	-224.4	1,427.8	2,387.6	2,316.0	71.62	33.340		
11,150.0	11,086.5	11,192.1	11,152.6	42.8	33.6	111.30	-224.9	1,426.5	2,392.4	2,320.4	71.92	33.262		
11,200.0	11,132.1	11,237.3	11,197.8	42.9	33.8	111.11	-225.5	1,425.3	2,398.8	2,326.6	72.24	33.207		
11,250.0	11,175.9	11,280.5	11,241.0	43.1	33.9	110.82	-226.0	1,424.1	2,407.0	2,334.5	72.54	33.180		
11,300.0	11,217.3	11,310.9	11,271.4	43.2	34.0	110.25	-226.5	1,423.3	2,417.1	2,344.4	72.79	33.209		
11,350.0	11,256.2	11,340.9	11,301.4	43.3	34.1	109.53	-227.1	1,422.7	2,429.2	2,356.2	73.02	33.265		
11,400.0	11,292.2	11,367.0	11,327.5	43.5	34.2	108.58	-227.6	1,422.2	2,443.2	2,369.9	73.24	33.357		
11,450.0	11,325.0	11,389.8	11,350.3	43.6	34.3	107.40	-228.2	1,421.9	2,459.0	2,385.6	73.44	33.482		
11,500.0	11,354.5	11,409.0	11,369.5	43.7	34.4	105.95	-228.6	1,421.7	2,476.8	2,403.2	73.62	33.641		
11,550.0	11,380.3	11,426.7	11,387.1	43.9	34.4	104.28	-229.1	1,421.6	2,496.4	2,422.6	73.80	33.827		
11,600.0	11,402.2	11,444.5	11,404.9	44.0	34.5	102.40	-229.5	1,421.5	2,517.5	2,443.6	73.97	34.034		
11,650.0	11,420.2	11,458.8	11,419.3	44.1	34.5	100.23	-229.9	1,421.4	2,540.3	2,466.1	74.13	34.268		
11,700.0	11,434.0	11,469.6	11,430.0	44.3	34.5	97.78	-230.1	1,421.4	2,564.4	2,490.1	74.27	34.527		
11,750.0	11,443.6	11,476.7	11,437.1	44.5	34.6	95.04	-230.3	1,421.4	2,589.7	2,515.3	74.39	34.810		
11,800.0	11,448.9	11,480.1	11,440.6	44.6	34.6	92.04	-230.4	1,421.4	2,616.0	2,541.5	74.50	35.114		
11,835.6	11,450.0	11,480.4	11,440.8	44.8	34.6	89.76	-230.4	1,421.4	2,635.2	2,560.7	74.56	35.341		
11,900.0	11,450.0	11,479.1	11,439.5	45.1	34.6	89.73	-230.4	1,421.4	2,670.3	2,595.6	74.68	35.758		
12,000.0	11,450.0	12,690.4	12,105.9	45.5	37.2	104.54	592.3	1,399.8	2,701.6	2,623.0	78.59	34.377		
12,100.0	11,450.0	12,782.9	12,106.3	46.1	37.7	104.30	684.8	1,394.9	2,725.5	2,645.9	79.58	34.249		
12,200.0	11,450.0	12,891.6	12,107.1	46.6	38.4	104.10	793.2	1,388.6	2,745.9	2,665.1	80.82	33.974		
12,300.0	11,450.0	12,986.1	12,108.7	47.3	39.0	103.96	887.6	1,382.9	2,762.8	2,680.7	82.05	33.671		
12,400.0	11,450.0	13,066.0	12,109.4	47.9	39.6	103.85	967.3	1,378.5	2,776.8	2,693.5	83.21	33.369		
12,500.0	11,450.0	13,178.0	12,109.7	48.6	40.5	103.74	1,079.2	1,373.3	2,788.1	2,703.3	84.82	32.871		
12,600.0	11,450.0	13,333.4	12,109.5	49.3	41.8	103.66	1,234.2	1,363.2	2,794.1	2,707.0	87.10	32.078		
12,700.0	11,450.0	13,478.8	12,109.6	50.0	43.2	103.65	1,379.1	1,351.3	2,795.1	2,705.7	89.42	31.258		
12,800.0	11,450.0	13,537.9	12,109.5	50.8	43.8	103.67	1,438.0	1,346.2	2,792.4	2,701.8	90.62	30.814		
12,892.5	11,450.0	13,593.0	12,110.3	51.5	44.3	103.72	1,493.0	1,342.6	2,788.7	2,696.9	91.75	30.395		
12,900.0	11,450.0	13,593.0	12,110.3	51.5	44.3	103.72	1,493.0	1,342.6	2,788.3	2,696.5	91.77	30.382		
13,000.0	11,450.0	13,632.5	12,111.0	52.3	44.7	103.74	1,532.4	1,340.7	2,784.6	2,691.9	92.71	30.035		
13,100.0	11,450.0	13,688.0	12,111.7	53.2	45.3	103.76	1,587.9	1,339.0	2,782.7	2,688.8	93.91	29.632		
13,200.0	11,450.0	13,810.7	12,110.6	54.0	46.6	103.74	1,710.6	1,336.8	2,781.5	2,685.3	96.24	28.901		
13,300.0	11,450.0	13,928.1	12,109.5	54.9	47.9	103.74	1,827.9	1,332.7	2,778.5	2,679.9	98.58	28.186		
13,400.0	11,450.0	13,400.0	12,109.7	55.9	42.0	103.76	1,946.3	1,328.1	2,775.6	2,681.9	93.67	29.631		
13,500.0	11,450.0	14,115.7	12,110.7	56.8	50.0	103.79	2,015.4	1,324.9	2,772.4	2,669.8	102.62	27.015		
13,600.0	11,450.0	14,160.0	12,112.0	57.8	50.5	103.82	2,059.6	1,323.7	2,771.2	2,667.4	103.80	26.697		
13,614.9	11,450.0	14,169.8	12,112.3	58.0	50.7	103.83	2,069.5	1,323.6	2,771.2	2,667.2	104.04	26.636		

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 #135H
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 #135H	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: 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		
13,700.0	11,450.0	14,241.9	12,114.4	58.8	51.5	103.87	2,141.5	1,322.7	2,771.4	2,665.7	105.69	26.222		
13,800.0	11,450.0	14,301.9	12,115.2	59.9	52.2	103.88	2,201.4	1,322.7	2,772.6	2,665.4	107.19	25.865		
13,888.8	11,450.0	14,358.7	12,114.6	60.9	52.9	103.86	2,258.3	1,324.0	2,774.9	2,666.2	108.61	25.548		
13,900.0	11,450.0	14,371.8	12,114.2	61.0	53.1	103.85	2,271.4	1,324.4	2,775.2	2,666.3	108.91	25.481		
14,000.0	11,450.0	14,583.1	12,109.1	62.1	55.7	103.74	2,482.5	1,325.9	2,776.0	2,662.4	113.53	24.452		
14,100.0	11,450.0	14,717.1	12,108.8	63.2	57.4	103.74	2,616.5	1,323.3	2,774.9	2,658.3	116.64	23.790		
14,200.0	11,450.0	14,785.2	12,109.6	64.4	58.3	103.76	2,684.5	1,321.4	2,773.2	2,654.7	118.47	23.409		
14,260.8	11,450.0	14,816.0	12,110.2	65.1	58.7	103.77	2,715.3	1,320.7	2,772.8	2,653.4	119.36	23.230		
14,300.0	11,450.0	14,816.0	12,110.2	65.6	58.7	103.77	2,715.3	1,320.7	2,773.1	2,653.5	119.51	23.203		
14,400.0	11,450.0	14,873.8	12,111.6	66.8	59.4	103.80	2,773.0	1,320.7	2,774.7	2,653.6	121.11	22.910		
14,500.0	11,450.0	14,911.0	12,112.8	68.0	59.9	103.82	2,810.3	1,321.6	2,778.7	2,656.5	122.25	22.731		
14,600.0	11,450.0	14,963.6	12,113.5	69.2	60.6	103.82	2,862.7	1,324.3	2,784.8	2,661.1	123.71	22.511		
14,700.0	11,450.0	15,032.6	12,111.0	70.5	61.5	103.74	2,931.5	1,330.0	2,792.5	2,666.9	125.56	22.239		
14,800.0	11,450.0	15,132.3	12,106.3	71.7	62.8	103.60	3,030.8	1,338.1	2,800.0	2,671.9	128.17	21.846		
14,900.0	11,450.0	14,900.0	12,081.3	73.0	59.4	103.00	3,352.6	1,358.2	2,807.3	2,678.8	128.42	21.859		
15,000.0	11,450.0	15,584.9	12,085.1	74.3	68.9	103.08	3,481.1	1,355.1	2,806.2	2,666.8	139.42	20.127		
15,100.0	11,450.0	15,660.3	12,089.3	75.7	70.0	103.17	3,556.3	1,353.1	2,805.7	2,664.1	141.58	19.817		
15,200.0	11,450.0	15,815.2	12,093.7	77.0	72.2	103.27	3,711.1	1,349.8	2,805.2	2,659.7	145.53	19.276		
15,236.3	11,450.0	15,908.1	12,096.5	77.5	73.6	103.34	3,803.8	1,345.5	2,804.1	2,656.3	147.75	18.978		
15,300.0	11,450.0	16,018.3	12,100.9	78.3	75.2	103.48	3,913.7	1,338.0	2,800.2	2,649.7	150.49	18.608		
15,400.0	11,450.0	16,095.5	12,103.9	79.6	76.4	103.63	3,990.7	1,332.3	2,790.8	2,638.0	152.77	18.268		
15,500.0	11,450.0	16,170.5	12,107.6	80.9	77.5	103.80	4,065.4	1,327.6	2,779.3	2,624.4	154.98	17.934		
15,600.0	11,450.0	16,264.2	12,109.8	82.2	78.9	103.99	4,158.9	1,322.4	2,764.7	2,607.1	157.59	17.543		
15,700.0	11,450.0	16,344.0	12,111.6	83.5	80.1	104.19	4,238.6	1,318.6	2,747.4	2,587.5	159.89	17.183		
15,800.0	11,450.0	16,452.2	12,114.6	84.8	81.7	104.48	4,346.7	1,312.8	2,726.3	2,563.5	162.80	16.747		
15,900.0	11,450.0	16,517.0	12,116.7	86.0	82.7	104.74	4,411.3	1,310.1	2,703.1	2,538.4	164.73	16.410		
15,966.5	11,450.0	16,553.9	12,117.3	86.8	83.2	104.89	4,448.2	1,309.1	2,686.6	2,520.7	165.85	16.198		
16,000.0	11,450.0	16,581.8	12,116.8	87.2	83.6	104.88	4,476.1	1,308.6	2,678.2	2,511.5	166.64	16.071		
16,100.0	11,450.0	16,656.6	12,113.1	88.5	84.8	104.77	4,550.8	1,308.4	2,655.8	2,486.9	168.83	15.730		
16,200.0	11,450.0	16,728.0	12,111.7	89.7	85.8	104.72	4,622.2	1,308.4	2,637.6	2,466.7	170.95	15.430		
16,300.0	11,450.0	16,803.2	12,113.1	91.1	86.9	104.74	4,697.3	1,308.4	2,623.8	2,450.6	173.14	15.154		
16,400.0	11,450.0	16,915.9	12,119.1	92.5	88.6	104.90	4,809.9	1,307.1	2,613.0	2,436.8	176.23	14.827		
16,500.0	11,450.0	16,967.6	12,121.7	93.9	89.4	104.94	4,861.5	1,307.1	2,606.7	2,428.9	177.86	14.656		
16,600.0	11,450.0	17,134.3	12,126.0	95.3	91.9	105.05	5,028.2	1,308.5	2,604.4	2,422.0	182.38	14.280		
16,700.0	11,450.0	17,267.5	12,126.2	96.8	94.0	105.06	5,161.4	1,306.7	2,602.2	2,416.1	186.10	13.983		
16,734.1	11,450.0	17,311.9	12,126.4	97.3	94.6	105.07	5,205.7	1,305.8	2,602.1	2,414.7	187.35	13.889		
16,800.0	11,450.0	17,393.5	12,125.4	98.2	95.9	105.04	5,287.3	1,304.1	2,602.6	2,412.9	189.68	13.721		
16,900.0	11,450.0	17,501.4	12,125.7	99.7	97.6	105.04	5,395.2	1,300.9	2,605.7	2,412.9	192.85	13.512		
17,000.0	11,450.0	17,586.7	12,127.0	101.3	98.9	105.08	5,480.4	1,298.0	2,612.1	2,416.6	195.50	13.361		
17,100.0	11,450.0	17,651.0	12,128.4	102.8	99.9	105.12	5,544.7	1,296.6	2,623.1	2,425.5	197.67	13.270		
17,200.0	11,450.0	17,715.8	12,128.4	104.4	100.9	105.15	5,609.4	1,296.4	2,638.8	2,438.9	199.86	13.203		
17,300.0	11,450.0	17,864.3	12,124.0	106.0	103.2	104.98	5,757.9	1,296.7	2,657.6	2,453.4	204.20	13.014		
17,400.0	11,450.0	17,940.8	12,123.2	107.5	104.3	104.98	5,834.4	1,296.0	2,679.0	2,472.3	206.75	12.958		
17,426.1	11,450.0	17,979.6	12,122.9	108.0	104.9	104.95	5,873.2	1,295.6	2,685.2	2,477.3	207.88	12.917		
17,500.0	11,450.0	18,050.0	12,122.3	109.1	106.0	104.76	5,943.6	1,294.5	2,701.7	2,491.6	210.11	12.858		
17,600.0	11,450.0	18,101.6	12,121.5	110.7	106.8	104.57	5,995.1	1,294.5	2,722.3	2,510.3	212.02	12.840		
17,700.0	11,450.0	18,243.0	12,119.9	112.3	109.0	104.32	6,136.5	1,294.7	2,740.0	2,523.8	216.20	12.674		
17,800.0	11,450.0	18,358.2	12,119.3	113.9	110.8	104.16	6,251.7	1,293.3	2,753.1	2,533.5	219.69	12.532		
17,900.0	11,450.0	18,510.7	12,120.4	115.5	113.2	104.07	6,404.1	1,288.7	2,761.4	2,537.4	224.03	12.326		
18,000.0	11,450.0	18,594.0	12,121.2	117.0	114.5	104.05	6,487.3	1,285.5	2,765.7	2,539.0	226.71	12.199		
18,100.0	11,450.0	18,652.6	12,121.5	118.6	115.5	104.04	6,545.9	1,284.0	2,767.7	2,538.9	228.76	12.098		
18,155.7	11,450.0	18,689.0	12,122.1	119.4	116.0	104.05	6,582.3	1,283.5	2,768.0	2,538.0	229.97	12.036		

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 #135H
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 #135H	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: 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		
18,159.6	11,450.0	18,689.0	12,122.1	119.5	116.0	104.05	6,582.3	1,283.5	2,768.0	2,538.0	229.99	12.035		
18,200.0	11,450.0	18,689.0	12,122.1	120.1	116.0	104.05	6,582.3	1,283.5	2,768.3	2,538.1	230.17	12.027		
18,300.0	11,450.0	18,754.5	12,121.4	121.7	117.1	104.03	6,647.8	1,284.1	2,769.9	2,537.6	232.30	11.924		
18,400.0	11,450.0	18,833.5	12,116.9	123.2	118.3	103.92	6,726.6	1,287.5	2,773.4	2,538.5	234.83	11.810		
18,500.0	11,450.0	18,925.5	12,115.1	124.7	119.7	103.87	6,818.5	1,290.4	2,776.8	2,539.1	237.69	11.682		
18,600.0	11,450.0	19,001.2	12,116.5	126.3	120.9	103.88	6,894.2	1,292.8	2,781.0	2,540.9	240.04	11.585		
18,700.0	11,450.0	19,310.7	12,110.8	127.8	125.8	103.74	7,203.4	1,295.6	2,782.9	2,534.2	248.70	11.190		
18,800.0	11,450.0	19,417.9	12,105.2	129.4	127.5	103.64	7,310.4	1,292.4	2,779.4	2,527.4	252.03	11.028		
18,900.0	11,450.0	19,507.9	12,103.1	130.9	128.9	103.61	7,400.3	1,289.6	2,776.5	2,521.6	254.91	10.892		
19,000.0	11,450.0	19,599.5	12,101.3	132.5	130.4	103.58	7,491.9	1,286.8	2,773.9	2,516.0	257.83	10.758		
19,100.0	11,450.0	19,673.5	12,100.2	134.0	131.6	103.57	7,565.9	1,284.8	2,771.7	2,511.4	260.31	10.648		
19,200.0	11,450.0	19,741.3	12,101.0	135.6	132.6	103.59	7,633.7	1,283.5	2,770.8	2,508.2	262.59	10.552		
19,274.4	11,450.0	19,804.8	12,102.7	136.8	133.6	103.62	7,697.2	1,282.5	2,770.6	2,506.1	264.59	10.471		
19,300.0	11,450.0	19,828.3	12,103.4	137.2	134.0	103.64	7,720.6	1,282.1	2,770.7	2,505.3	265.32	10.443		
19,400.0	11,450.0	19,957.4	12,106.3	138.7	136.1	103.70	7,849.7	1,280.1	2,770.4	2,501.3	269.12	10.294		
19,500.0	11,450.0	20,065.2	12,107.5	140.3	137.8	103.74	7,957.4	1,277.3	2,768.9	2,496.5	272.40	10.165		
19,600.0	11,450.0	20,187.1	12,106.3	141.9	139.8	103.72	8,079.3	1,275.0	2,767.7	2,491.6	276.07	10.025		
19,700.0	11,450.0	20,249.1	12,105.2	143.4	140.7	103.70	8,141.3	1,273.8	2,766.2	2,488.0	278.25	9.941		
19,739.6	11,450.0	20,270.4	12,104.8	144.1	141.1	103.69	8,162.6	1,273.7	2,766.1	2,487.0	279.02	9.914		
19,800.0	11,450.0	20,313.6	12,104.0	145.0	141.8	103.67	8,205.7	1,273.8	2,766.3	2,485.9	280.46	9.864		
19,900.0	11,450.0	20,423.4	12,100.5	146.6	143.5	103.60	8,315.5	1,274.3	2,766.8	2,482.9	283.90	9.746		
20,000.0	11,450.0	20,544.4	12,097.7	148.2	145.5	103.54	8,436.5	1,274.0	2,766.8	2,479.2	287.61	9.620		
20,100.0	11,450.0	20,647.6	12,094.5	149.7	147.1	103.47	8,539.6	1,273.2	2,766.1	2,475.2	290.87	9.510		
20,163.5	11,450.0	20,694.2	12,092.9	150.7	147.9	103.44	8,586.2	1,273.1	2,765.8	2,473.4	292.44	9.458		
20,200.0	11,450.0	20,715.8	12,092.2	151.3	148.2	103.43	8,607.8	1,273.1	2,765.9	2,472.7	293.20	9.434		
20,300.0	11,450.0	20,777.2	12,090.5	152.9	149.2	103.39	8,669.1	1,273.9	2,767.2	2,471.9	295.30	9.371		
20,400.0	11,450.0	20,853.5	12,090.0	154.5	150.4	103.37	8,745.4	1,275.3	2,769.5	2,471.8	297.77	9.301		
20,500.0	11,450.0	20,968.7	12,091.0	156.1	152.2	103.37	8,860.6	1,277.2	2,772.1	2,470.8	301.33	9.200		
20,600.0	11,450.0	21,084.3	12,090.1	157.6	154.1	103.34	8,976.2	1,278.8	2,774.1	2,469.1	304.92	9.098		
20,700.0	11,450.0	21,193.2	12,091.5	159.2	155.8	103.37	9,085.0	1,279.4	2,775.6	2,467.3	308.28	9.003		
20,800.0	11,450.0	21,313.9	12,092.6	160.8	157.8	103.38	9,205.7	1,279.5	2,776.6	2,464.7	311.97	8.900		
20,900.0	11,450.0	21,450.9	12,090.7	162.4	160.0	103.34	9,342.8	1,278.7	2,776.5	2,460.4	316.11	8.783		
21,000.0	11,450.0	21,553.8	12,087.2	164.0	161.6	103.27	9,445.6	1,278.0	2,775.8	2,456.4	319.40	8.691		
21,100.0	11,450.0	21,683.8	12,086.2	165.6	163.7	103.26	9,575.6	1,275.6	2,774.6	2,451.3	323.30	8.582		
21,200.0	11,450.0	21,808.1	12,084.7	167.2	165.7	103.24	9,699.8	1,271.9	2,772.2	2,445.1	327.05	8.476		
21,300.0	11,450.0	21,912.0	12,083.3	168.8	167.4	103.23	9,803.6	1,268.4	2,769.3	2,439.0	330.32	8.384		
21,400.0	11,450.0	22,030.2	12,081.2	170.4	169.3	103.20	9,921.7	1,264.1	2,766.1	2,432.2	333.92	8.284		
21,500.0	11,450.0	22,158.6	12,076.6	172.0	171.4	103.13	10,050.0	1,258.8	2,762.1	2,424.3	337.78	8.177		
21,600.0	11,450.0	22,257.8	12,072.1	173.6	173.0	103.05	10,148.9	1,254.4	2,757.4	2,416.4	341.00	8.086		
21,700.0	11,450.0	22,292.0	12,070.4	175.2	173.6	103.02	10,183.0	1,252.9	2,753.6	2,410.9	342.70	8.035		
21,757.9	11,450.0	22,292.0	12,070.4	176.1	173.6	103.02	10,183.0	1,252.9	2,752.9	2,409.9	343.07	8.024 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 #135H
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 #135H	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: 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	90.12	-4.6	2,233.2	2,233.3					
100.0	100.0	90.6	90.6	0.1	0.1	-165.82	-4.5	2,233.4	2,233.6	2,233.3	0.27	8,130.551		
200.0	200.0	181.2	181.2	0.5	0.3	-165.83	-4.4	2,234.0	2,234.7	2,234.0	0.77	2,892.438		
300.0	300.0	273.3	273.3	0.8	0.5	-165.83	-4.2	2,235.0	2,236.6	2,235.2	1.38	1,617.215		
400.0	400.0	371.3	371.3	1.2	0.9	-165.84	-4.3	2,236.2	2,239.0	2,236.9	2.09	1,070.287		
500.0	500.0	482.4	482.3	1.6	1.3	-165.84	-4.6	2,237.4	2,241.5	2,238.7	2.85	787.464		
600.0	600.0	603.6	603.5	1.9	1.7	-165.84	-4.9	2,237.8	2,243.6	2,239.9	3.63	618.619		
700.0	699.9	716.2	716.2	2.3	2.1	-165.84	-5.5	2,237.3	2,245.2	2,240.8	4.37	513.756		
800.0	799.9	823.6	823.6	2.6	2.5	-165.84	-6.2	2,236.3	2,246.7	2,241.6	5.10	440.682		
900.0	899.9	921.4	921.4	3.0	2.8	-165.84	-6.9	2,235.3	2,248.3	2,242.5	5.80	387.890		
1,000.0	999.8	1,016.5	1,016.5	3.4	3.1	-165.85	-7.4	2,234.4	2,250.4	2,244.0	6.49	347.000		
1,100.0	1,099.8	1,336.9	1,336.3	3.7	4.2	-165.97	-5.1	2,220.4	2,252.1	2,244.2	7.96	282.988		
1,200.0	1,199.7	1,436.9	1,435.7	4.1	4.6	-166.04	-3.6	2,209.6	2,245.1	2,236.4	8.67	259.084		
1,300.0	1,299.6	1,530.7	1,529.1	4.5	4.9	-166.09	-2.7	2,200.0	2,238.8	2,229.4	9.35	239.323		
1,400.0	1,399.5	1,626.0	1,623.8	4.8	5.3	-166.14	-2.0	2,190.3	2,232.9	2,222.8	10.05	222.146		
1,500.0	1,499.4	1,711.5	1,708.9	5.2	5.6	-166.17	-1.9	2,181.9	2,227.7	2,217.0	10.72	207.869		
1,600.0	1,599.3	1,800.2	1,797.2	5.6	6.0	-166.15	-3.5	2,173.9	2,223.6	2,212.2	11.40	195.135		
1,700.0	1,699.1	1,891.4	1,888.0	5.9	6.3	-166.14	-5.4	2,165.9	2,220.1	2,208.0	12.08	183.735		
1,800.0	1,798.9	1,978.9	1,975.2	6.3	6.6	-166.12	-7.4	2,158.7	2,217.5	2,204.7	12.76	173.785		
1,900.0	1,898.8	2,086.9	2,082.9	6.7	7.0	-166.10	-9.9	2,150.2	2,215.5	2,202.0	13.51	164.020		
2,000.0	1,998.6	2,197.2	2,192.7	7.0	7.4	-166.05	-13.5	2,140.6	2,213.0	2,198.7	14.26	155.139		
2,100.0	2,098.3	2,290.8	2,285.9	7.4	7.8	-166.01	-16.8	2,132.5	2,210.9	2,195.9	14.97	147.725		
2,200.0	2,198.1	2,377.8	2,372.6	7.8	8.1	-165.96	-20.2	2,125.3	2,209.5	2,193.9	15.65	141.218		
2,282.6	2,280.5	2,447.0	2,441.5	8.1	8.4	-165.92	-22.8	2,120.1	2,209.1	2,193.0	16.20	136.378 CC		
2,300.0	2,297.8	2,461.4	2,455.8	8.1	8.4	-165.92	-23.3	2,119.0	2,209.2	2,192.9	16.31	135.414		
2,400.0	2,397.5	2,545.6	2,539.7	8.5	8.7	-165.88	-26.5	2,113.3	2,209.9	2,192.9	16.98	130.115		
2,500.0	2,497.2	2,686.5	2,680.2	8.9	9.3	-165.81	-31.7	2,103.8	2,211.2	2,193.3	17.85	123.866		
2,552.8	2,549.8	2,736.3	2,729.8	9.1	9.5	-165.79	-33.6	2,099.6	2,211.0	2,192.8	18.23	121.317		
2,600.0	2,596.8	2,775.1	2,768.5	9.3	9.6	-165.77	-35.2	2,096.5	2,211.2	2,192.6	18.54	119.261 ES		
2,700.0	2,696.4	2,855.8	2,848.9	9.7	9.9	-165.72	-38.7	2,090.6	2,212.3	2,193.1	19.20	115.210		
2,800.0	2,796.0	2,930.2	2,923.0	10.0	10.2	-165.67	-42.4	2,085.8	2,214.7	2,194.8	19.84	111.628		
2,900.0	2,895.6	3,010.1	3,002.7	10.4	10.5	-165.62	-46.1	2,081.7	2,218.6	2,198.1	20.49	108.253		
3,000.0	2,995.1	3,134.8	3,127.2	10.8	11.0	-165.61	-49.1	2,075.3	2,223.0	2,201.7	21.31	104.315		
3,100.0	3,094.6	3,229.6	3,221.9	11.2	11.3	-165.64	-50.3	2,069.5	2,226.6	2,204.6	22.02	101.126		
3,200.0	3,194.1	3,318.9	3,311.0	11.6	11.6	-165.69	-50.5	2,064.7	2,231.3	2,208.6	22.70	98.283		
3,300.0	3,293.5	3,489.5	3,481.2	12.0	12.3	-165.92	-46.0	2,053.1	2,234.8	2,211.1	23.66	94.452		
3,400.0	3,392.9	3,641.2	3,632.1	12.4	12.8	-166.17	-40.3	2,039.2	2,236.6	2,212.0	24.54	91.134		
3,500.0	3,492.2	3,722.8	3,713.2	12.7	13.1	-166.24	-39.7	2,030.9	2,237.4	2,212.1	25.21	88.740		
3,600.0	3,591.6	3,796.7	3,786.9	13.1	13.4	-166.27	-40.8	2,024.0	2,239.4	2,213.5	25.86	86.600		
3,700.0	3,690.8	3,937.7	3,927.1	13.5	14.0	-166.24	-45.8	2,010.9	2,241.9	2,215.2	26.72	83.889		
3,800.0	3,790.1	4,047.6	4,036.1	13.9	14.4	-166.12	-53.7	1,999.0	2,243.0	2,215.5	27.50	81.577		
3,900.0	3,889.3	4,132.1	4,119.8	14.3	14.7	-166.01	-60.8	1,990.0	2,244.5	2,216.4	28.19	79.629		
4,000.0	3,988.4	4,204.1	4,191.3	14.7	15.0	-165.93	-65.9	1,983.1	2,247.5	2,218.7	28.84	77.940		
4,100.0	4,087.5	4,301.2	4,287.8	15.2	15.4	-165.90	-70.3	1,974.4	2,251.5	2,221.9	29.57	76.154		
4,200.0	4,186.6	4,382.6	4,369.0	15.6	15.7	-165.91	-72.4	1,967.5	2,256.3	2,226.0	30.24	74.617		
4,300.0	4,285.6	4,528.1	4,513.8	16.0	16.3	-165.96	-75.3	1,954.0	2,260.5	2,229.3	31.12	72.629		
4,400.0	4,384.6	4,624.6	4,609.8	16.4	16.6	-166.00	-77.1	1,944.2	2,264.3	2,232.4	31.85	71.093		
4,500.0	4,483.5	4,712.0	4,696.8	16.8	17.0	-166.03	-78.8	1,935.8	2,268.8	2,236.2	32.55	69.711		
4,600.0	4,582.4	4,797.5	4,781.9	17.2	17.3	-166.07	-80.4	1,928.0	2,274.2	2,241.0	33.23	68.430		
4,700.0	4,681.2	4,884.7	4,868.8	17.6	17.6	-166.10	-82.3	1,920.6	2,280.6	2,246.7	33.93	67.220		
4,800.0	4,780.0	5,023.0	5,006.5	18.1	18.2	-166.16	-85.1	1,908.9	2,287.6	2,252.8	34.79	65.747		
4,900.0	4,878.7	5,164.5	5,147.1	18.5	18.7	-166.23	-87.7	1,893.2	2,291.8	2,256.1	35.66	64.263		

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 #135H
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 #135H	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: 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		
5,000.0	4,977.4	5,262.0	5,243.9	18.9	19.1	-166.28	-89.5	1,881.8	2,295.9	2,259.5	36.40	63.081		
5,100.0	5,076.0	5,354.4	5,335.7	19.3	19.5	-166.32	-91.2	1,871.2	2,300.6	2,263.5	37.12	61.985		
5,180.6	5,155.5	5,424.7	5,405.6	19.7	19.8	-166.36	-92.4	1,863.5	2,304.9	2,267.2	37.68	61.168		
5,200.0	5,174.6	5,440.8	5,421.6	19.8	19.8	-166.37	-92.7	1,861.7	2,306.0	2,268.2	37.82	60.982		
5,300.0	5,273.2	5,524.0	5,504.4	20.2	20.2	-166.42	-94.1	1,853.1	2,312.3	2,273.8	38.50	60.055		
5,400.0	5,371.7	5,619.9	5,599.7	20.6	20.5	-166.48	-95.6	1,843.6	2,318.9	2,279.7	39.23	59.111		
5,500.0	5,470.2	5,707.3	5,686.7	21.1	20.9	-166.54	-96.9	1,835.3	2,325.9	2,286.0	39.93	58.253		
5,600.0	5,568.8	5,797.9	5,776.9	21.5	21.2	-166.60	-98.0	1,827.1	2,333.4	2,292.8	40.64	57.423		
5,700.0	5,667.3	5,889.9	5,868.6	22.0	21.6	-166.67	-98.9	1,819.0	2,341.2	2,299.9	41.35	56.625		
5,755.0	5,721.5	5,941.6	5,920.2	22.2	21.8	-166.71	-99.4	1,814.6	2,345.7	2,303.9	41.74	56.196		
5,800.0	5,765.9	5,984.2	5,962.6	22.4	21.9	-166.74	-99.8	1,811.0	2,349.3	2,307.2	42.06	55.850		
5,900.0	5,864.5	6,071.9	6,049.9	22.8	22.3	-166.81	-100.6	1,803.9	2,357.5	2,314.7	42.76	55.136		
6,000.0	5,963.1	6,167.2	6,145.0	23.3	22.6	-166.89	-101.3	1,796.5	2,365.7	2,322.2	43.48	54.412		
6,100.0	6,061.9	6,260.9	6,238.4	23.7	23.0	-166.97	-101.8	1,789.4	2,373.8	2,329.6	44.19	53.718		
6,200.0	6,160.6	6,358.2	6,335.9	24.1	23.7	-167.09	-103.5	1,773.0	2,379.7	2,334.5	45.20	52.651		
6,300.0	6,259.4	6,453.0	6,431.1	24.6	24.1	-167.15	-104.7	1,762.3	2,383.9	2,338.0	45.94	51.896		
6,400.0	6,358.3	6,548.5	6,526.4	25.0	24.4	-167.21	-105.4	1,752.8	2,388.2	2,341.5	46.65	51.198		
6,500.0	6,457.2	6,643.1	6,621.2	25.4	24.8	-167.26	-106.7	1,743.2	2,392.4	2,345.0	47.37	50.508		
6,600.0	6,556.2	6,737.7	6,715.8	25.8	25.2	-167.28	-109.2	1,733.6	2,396.5	2,348.4	48.10	49.827		
6,700.0	6,655.2	6,832.3	6,810.4	26.3	25.5	-167.30	-111.6	1,724.8	2,400.4	2,351.6	48.80	49.186		
6,800.0	6,754.2	6,926.9	6,904.5	26.7	25.9	-167.32	-113.8	1,716.4	2,404.5	2,355.0	49.51	48.567		
6,900.0	6,853.3	7,021.5	7,000.0	27.1	26.2	-167.34	-115.9	1,708.1	2,408.7	2,358.4	50.22	47.962		
7,000.0	6,952.4	7,116.1	7,094.8	27.5	26.6	-167.36	-117.8	1,699.9	2,412.7	2,361.8	50.94	47.366		
7,100.0	7,051.6	7,210.7	7,190.1	27.9	27.0	-167.38	-119.9	1,692.2	2,416.7	2,365.1	51.64	46.797		
7,200.0	7,150.8	7,305.3	7,285.1	28.3	27.3	-167.39	-121.9	1,685.4	2,420.9	2,368.5	52.32	46.266		
7,300.0	7,250.1	7,400.0	7,380.1	28.7	27.8	-167.41	-125.0	1,675.6	2,424.9	2,371.7	53.15	45.622		
7,400.0	7,349.4	7,494.4	7,474.4	29.1	28.2	-167.41	-127.7	1,666.7	2,427.6	2,373.7	53.90	45.042		
7,500.0	7,448.8	7,589.4	7,569.4	29.6	28.5	-167.42	-129.8	1,659.6	2,430.3	2,375.7	54.57	44.534		
7,600.0	7,548.1	7,684.4	7,664.4	30.0	28.8	-167.42	-132.0	1,652.4	2,433.2	2,378.0	55.27	44.022		
7,700.0	7,647.6	7,779.4	7,759.4	30.4	29.2	-167.43	-134.2	1,645.1	2,436.1	2,380.1	55.99	43.510		
7,800.0	7,747.0	7,874.4	7,854.4	30.7	29.5	-167.44	-136.2	1,638.5	2,438.9	2,382.2	56.68	43.028		
7,900.0	7,846.5	7,969.4	7,949.4	31.1	30.0	-167.43	-139.2	1,630.0	2,441.4	2,383.9	57.47	42.479		
8,000.0	7,946.0	8,064.4	8,044.4	31.5	30.3	-167.42	-141.7	1,623.5	2,443.4	2,385.3	58.16	42.015		
8,100.0	8,045.5	8,159.4	8,139.4	31.9	31.0	-167.45	-145.1	1,607.3	2,444.7	2,385.5	59.21	41.290		
8,200.0	8,145.1	8,258.9	8,238.9	32.3	31.5	-167.48	-146.3	1,594.4	2,442.2	2,382.2	59.98	40.718		
8,300.0	8,244.7	8,358.4	8,338.4	32.7	31.8	-167.49	-147.2	1,585.7	2,439.7	2,379.1	60.64	40.232		
8,400.0	8,344.4	8,457.9	8,437.9	33.1	32.1	-167.51	-148.3	1,577.1	2,437.7	2,376.4	61.32	39.755		
8,500.0	8,444.0	8,557.4	8,537.4	33.5	32.5	-167.52	-149.4	1,569.2	2,436.1	2,374.1	61.99	39.300		
8,600.0	8,543.7	8,656.9	8,636.9	33.8	32.8	-167.53	-150.6	1,561.9	2,434.8	2,372.2	62.65	38.863		
8,700.0	8,643.4	8,756.6	8,736.6	34.2	33.1	-167.54	-151.9	1,555.2	2,433.9	2,370.6	63.31	38.445		
8,800.0	8,743.2	8,856.4	8,836.4	34.6	33.6	-167.52	-154.9	1,544.4	2,433.1	2,368.9	64.16	37.920		
8,900.0	8,843.0	8,956.2	8,936.2	35.0	33.9	-167.50	-157.2	1,537.6	2,430.9	2,366.1	64.81	37.509		
9,000.0	8,942.7	9,055.9	9,035.9	35.3	34.3	-167.47	-159.8	1,529.4	2,429.1	2,363.6	65.54	37.061		
9,100.0	9,042.5	9,159.7	9,139.7	35.7	34.6	-167.48	-160.8	1,523.3	2,427.2	2,361.0	66.18	36.678		
9,200.0	9,142.4	9,259.6	9,239.6	36.1	35.1	-167.48	-162.8	1,512.5	2,425.4	2,358.4	67.05	36.173		
9,300.0	9,242.2	9,359.4	9,339.4	36.4	35.4	-167.46	-164.6	1,506.9	2,422.6	2,354.9	67.66	35.806		
9,400.0	9,342.1	9,459.3	9,439.3	36.8	35.9	-167.43	-167.3	1,496.3	2,419.3	2,350.8	68.49	35.325		
9,500.0	9,442.0	9,559.2	9,539.2	37.1	36.2	-167.43	-168.4	1,489.8	2,415.6	2,346.5	69.13	34.945		
9,600.0	9,541.9	9,659.1	9,639.1	37.5	36.6	-167.41	-170.5	1,479.3	2,411.5	2,341.5	69.93	34.483		
9,700.0	9,641.8	9,759.0	9,739.0	37.9	37.0	-167.37	-173.3	1,470.0	2,406.5	2,335.9	70.67	34.053		
9,800.0	9,741.7	9,858.9	9,838.9	38.2	37.4	-167.33	-176.0	1,461.9	2,401.3	2,329.9	71.36	33.651		
9,900.0	9,841.6	9,958.8	9,938.8	38.6	37.8	-167.28	-178.9	1,453.8	2,396.4	2,324.3	72.07	33.250		

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 #135H
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 #135H	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: 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		
10,000.0	9,941.6	10,189.1	10,150.3	38.9	38.2	-167.23	-182.1	1,444.6	2,390.6	2,317.8	72.81	32.834		
10,100.0	10,041.5	10,302.5	10,263.2	39.3	38.6	-167.17	-185.4	1,434.9	2,384.8	2,311.2	73.58	32.412		
10,200.0	10,141.5	10,385.3	10,345.6	39.6	38.9	-167.12	-187.7	1,427.3	2,378.1	2,303.9	74.24	32.034		
10,300.0	10,241.5	10,469.6	10,429.7	39.9	39.3	-167.08	-190.0	1,420.6	2,372.3	2,297.4	74.90	31.672		
10,400.0	10,341.5	10,604.3	10,563.9	40.3	39.8	-167.03	-192.9	1,409.2	2,365.8	2,290.0	75.75	31.233		
10,500.0	10,441.4	10,711.2	10,670.2	40.6	40.2	-166.97	-195.7	1,399.0	2,357.7	2,281.2	76.49	30.824		
10,600.0	10,541.4	10,788.8	10,747.5	41.0	40.5	-166.91	-198.1	1,391.9	2,349.7	2,272.6	77.13	30.463		
10,700.0	10,641.4	10,850.4	10,808.8	41.3	40.7	-166.86	-200.4	1,387.0	2,342.7	2,264.9	77.71	30.147		
10,800.0	10,741.4	10,915.9	10,874.1	41.6	41.0	-166.80	-203.0	1,383.0	2,336.9	2,258.7	78.28	29.853		
10,900.0	10,841.4	10,989.0	10,947.1	42.0	41.2	-166.73	-205.9	1,379.0	2,331.9	2,253.0	78.88	29.563		
10,935.6	10,877.0	11,019.4	10,977.4	42.1	41.4	89.24	-207.0	1,377.6	2,330.2	2,251.1	79.10	29.458		
10,950.0	10,891.4	11,027.9	10,985.9	42.1	41.4	110.87	-207.3	1,377.3	2,329.7	2,250.5	79.17	29.425		
10,989.4	10,930.7	11,051.0	11,009.0	42.3	41.5	110.98	-207.9	1,376.4	2,329.0	2,249.7	79.37	29.345		
11,000.0	10,941.3	11,057.2	11,015.2	42.3	41.5	110.99	-208.0	1,376.2	2,329.1	2,249.7	79.42	29.326		
11,050.0	10,990.7	11,087.6	11,045.6	42.4	41.6	110.98	-208.6	1,375.4	2,330.5	2,250.9	79.67	29.253		
11,100.0	11,039.2	11,133.3	11,091.2	42.6	41.8	110.95	-209.2	1,374.3	2,333.8	2,253.8	79.99	29.175		
11,150.0	11,086.5	11,177.8	11,135.7	42.8	41.9	110.83	-209.8	1,373.4	2,338.7	2,258.4	80.31	29.121		
11,200.0	11,132.1	11,211.6	11,169.5	42.9	42.0	110.52	-210.2	1,372.7	2,345.5	2,264.9	80.57	29.110 SF		
11,250.0	11,175.9	11,244.0	11,201.9	43.1	42.1	110.06	-210.4	1,372.3	2,354.2	2,273.3	80.82	29.128		
11,300.0	11,217.3	11,275.4	11,233.3	43.2	42.3	109.45	-210.5	1,372.0	2,364.8	2,283.7	81.07	29.171		
11,350.0	11,256.2	11,310.3	11,268.2	43.3	42.4	108.75	-210.6	1,371.8	2,377.2	2,295.9	81.33	29.230		
11,400.0	11,292.2	11,342.4	11,300.3	43.5	42.5	107.88	-210.8	1,371.7	2,391.4	2,309.9	81.57	29.316		
11,450.0	11,325.0	11,371.0	11,328.9	43.6	42.6	106.78	-211.0	1,371.6	2,407.5	2,325.7	81.80	29.430		
11,500.0	11,354.5	11,394.1	11,352.0	43.7	42.6	105.41	-211.2	1,371.6	2,425.3	2,343.3	82.00	29.576		
11,550.0	11,380.3	11,416.8	11,374.7	43.9	42.7	103.84	-211.5	1,371.6	2,444.8	2,362.6	82.20	29.742		
11,600.0	11,402.2	11,438.2	11,396.1	44.0	42.8	102.06	-211.7	1,371.6	2,465.9	2,383.5	82.39	29.928		
11,650.0	11,420.2	11,455.6	11,413.5	44.1	42.8	99.99	-212.0	1,371.6	2,488.5	2,405.9	82.57	30.138		
11,700.0	11,434.0	11,468.8	11,426.7	44.3	42.9	97.62	-212.1	1,371.6	2,512.4	2,429.7	82.72	30.372		
11,750.0	11,443.6	11,468.0	11,425.9	44.5	42.9	94.71	-212.1	1,371.6	2,537.6	2,454.8	82.80	30.648		
11,800.0	11,448.9	11,468.0	11,425.9	44.6	42.9	91.64	-212.1	1,371.6	2,563.8	2,480.9	82.88	30.934		
11,835.6	11,450.0	11,468.0	11,425.9	44.8	42.9	89.36	-212.1	1,371.6	2,582.9	2,500.0	82.94	31.142		
11,900.0	11,450.0	11,468.0	11,425.9	45.1	42.9	89.37	-212.1	1,371.6	2,617.9	2,534.8	83.06	31.518		
12,000.0	11,450.0	11,468.0	11,425.9	45.5	42.9	89.39	-212.1	1,371.6	2,671.9	2,588.7	83.26	32.092		
12,100.0	11,450.0	11,468.0	11,425.9	46.1	42.9	89.40	-212.1	1,371.6	2,725.7	2,642.2	83.47	32.654		
12,200.0	11,450.0	11,468.0	11,425.9	46.6	42.9	89.41	-212.1	1,371.6	2,779.1	2,695.4	83.70	33.204		
12,300.0	11,450.0	11,468.0	11,425.9	47.3	42.9	89.43	-212.1	1,371.6	2,832.2	2,748.2	83.93	33.742		
12,400.0	11,450.0	11,468.0	11,425.9	47.9	42.9	89.44	-212.1	1,371.6	2,884.8	2,800.6	84.18	34.270		
12,500.0	11,450.0	11,468.0	11,425.9	48.6	42.9	89.45	-212.1	1,371.6	2,937.0	2,852.5	84.43	34.788		
12,600.0	11,450.0	11,473.6	11,431.5	49.3	42.9	89.59	-212.2	1,371.6	2,988.6	2,903.9	84.71	35.283		
12,700.0	11,450.0	11,472.3	11,430.2	50.0	42.9	89.57	-212.2	1,371.6	3,039.8	2,954.8	84.95	35.784		
12,800.0	11,450.0	11,471.0	11,428.9	50.8	42.9	89.55	-212.2	1,371.6	3,090.4	3,005.2	85.19	36.276		
12,892.5	11,450.0	11,469.8	11,427.8	51.5	42.9	89.53	-212.1	1,371.6	3,136.6	3,051.2	85.41	36.723		
12,900.0	11,450.0	11,469.8	11,427.7	51.5	42.9	89.53	-212.1	1,371.6	3,140.4	3,054.9	85.43	36.760		
13,000.0	11,450.0	11,468.5	11,426.4	52.3	42.9	89.50	-212.1	1,371.6	3,191.4	3,105.8	85.67	37.252		
13,100.0	11,450.0	11,467.2	11,425.1	53.2	42.9	89.48	-212.1	1,371.6	3,244.8	3,158.9	85.91	37.769		
13,200.0	11,450.0	11,465.9	11,423.9	54.0	42.9	89.45	-212.1	1,371.6	3,300.3	3,214.2	86.15	38.309		
13,300.0	11,450.0	11,464.7	11,422.6	54.9	42.9	89.42	-212.1	1,371.6	3,357.9	3,271.5	86.38	38.872		
13,400.0	11,450.0	11,463.4	11,421.3	55.9	42.9	89.40	-212.1	1,371.6	3,417.4	3,330.8	86.61	39.455		
13,500.0	11,450.0	11,462.1	11,420.1	56.8	42.9	89.37	-212.0	1,371.6	3,478.8	3,392.0	86.84	40.059		
13,600.0	11,450.0	11,460.9	11,418.8	57.8	42.9	89.34	-212.0	1,371.6	3,542.0	3,454.9	87.06	40.683		
13,700.0	11,450.0	11,459.6	11,417.5	58.8	42.9	89.32	-212.0	1,371.6	3,606.8	3,519.5	87.28	41.325		
13,800.0	11,450.0	11,458.3	11,416.2	59.9	42.9	89.29	-212.0	1,371.6	3,673.2	3,585.7	87.49	41.984		

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 #135H
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 #135H	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: 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		
13,888.8	11,450.0	11,457.2	11,415.1	60.9	42.9	89.27	-212.0	1,371.6	3,733.4	3,645.7	87.67	42.584		
13,900.0	11,450.0	11,457.1	11,415.0	61.0	42.8	89.26	-212.0	1,371.6	3,741.1	3,653.4	87.69	42.660		
14,000.0	11,450.0	11,455.8	11,413.7	62.1	42.8	89.24	-212.0	1,371.6	3,810.4	3,722.5	87.89	43.352		
14,100.0	11,450.0	11,454.5	11,412.4	63.2	42.8	89.21	-211.9	1,371.6	3,881.0	3,792.9	88.09	44.059		
14,200.0	11,450.0	11,453.3	11,411.2	64.4	42.8	89.18	-211.9	1,371.6	3,952.9	3,864.7	88.27	44.781		
14,300.0	11,450.0	11,452.0	11,409.9	65.6	42.8	89.16	-211.9	1,371.6	4,026.0	3,937.6	88.45	45.515		
14,400.0	11,450.0	11,450.7	11,408.6	66.8	42.8	89.13	-211.9	1,371.6	4,100.3	4,011.7	88.63	46.263		
14,500.0	11,450.0	11,449.5	11,407.4	68.0	42.8	89.10	-211.9	1,371.6	4,175.6	4,086.8	88.80	47.022		
14,600.0	11,450.0	11,448.2	11,406.1	69.2	42.8	89.08	-211.9	1,371.6	4,252.0	4,163.0	88.97	47.793		
14,700.0	11,450.0	11,446.9	11,404.8	70.5	42.8	89.05	-211.8	1,371.6	4,329.3	4,240.1	89.13	48.575		
14,800.0	11,450.0	11,445.7	11,403.6	71.7	42.8	89.02	-211.8	1,371.6	4,407.5	4,318.2	89.28	49.367		
14,900.0	11,450.0	11,444.4	11,402.3	73.0	42.8	89.00	-211.8	1,371.6	4,486.5	4,397.1	89.43	50.168		
15,000.0	11,450.0	11,443.1	11,401.0	74.3	42.8	88.97	-211.8	1,371.6	4,566.4	4,476.9	89.58	50.979		
15,100.0	11,450.0	11,441.9	11,399.8	75.7	42.8	88.94	-211.8	1,371.6	4,647.1	4,557.4	89.72	51.798		
15,200.0	11,450.0	11,440.6	11,398.5	77.0	42.8	88.92	-211.8	1,371.6	4,728.5	4,638.7	89.85	52.625		
15,236.3	11,450.0	11,440.1	11,398.0	77.5	42.8	88.91	-211.8	1,371.6	4,758.3	4,668.4	89.90	52.927		
15,300.0	11,450.0	11,439.3	11,397.2	78.3	42.8	88.92	-211.7	1,371.6	4,810.2	4,720.3	89.99	53.455		
15,400.0	11,450.0	11,438.1	11,396.0	79.6	42.8	88.95	-211.7	1,371.6	4,890.8	4,800.6	90.12	54.272		
15,500.0	11,450.0	11,436.8	11,394.7	80.9	42.8	88.97	-211.7	1,371.6	4,969.9	4,879.7	90.24	55.073		
15,600.0	11,450.0	11,435.5	11,393.5	82.2	42.8	88.99	-211.7	1,371.6	5,047.7	4,957.3	90.37	55.858		
15,700.0	11,450.0	11,434.3	11,392.2	83.5	42.8	89.01	-211.7	1,371.6	5,124.0	5,033.5	90.49	56.627		
15,800.0	11,450.0	11,433.1	11,391.0	84.8	42.8	89.03	-211.7	1,371.6	5,198.9	5,108.3	90.61	57.379		
15,900.0	11,450.0	11,431.8	11,389.8	86.0	42.8	89.05	-211.7	1,371.6	5,272.3	5,181.6	90.72	58.114		
15,966.5	11,450.0	11,431.0	11,388.9	86.8	42.8	89.06	-211.6	1,371.6	5,320.3	5,229.5	90.80	58.594		
16,000.0	11,450.0	11,430.6	11,388.5	87.2	42.8	89.04	-211.6	1,371.6	5,344.5	5,253.7	90.84	58.835		
16,100.0	11,450.0	11,429.4	11,387.3	88.5	42.8	88.98	-211.6	1,371.6	5,418.9	5,327.9	90.96	59.576		
16,200.0	11,450.0	11,428.2	11,386.1	89.7	42.8	88.92	-211.6	1,371.6	5,496.3	5,405.2	91.08	60.349		
16,300.0	11,450.0	11,426.9	11,384.8	91.1	42.8	88.84	-211.6	1,371.6	5,576.6	5,485.4	91.19	61.153		
16,400.0	11,450.0	11,425.7	11,383.6	92.5	42.7	88.76	-211.6	1,371.6	5,659.5	5,568.2	91.30	61.986		
16,500.0	11,450.0	11,424.4	11,382.3	93.9	42.7	88.66	-211.6	1,371.6	5,744.7	5,653.3	91.41	62.846		
16,600.0	11,450.0	11,423.2	11,381.1	95.3	42.7	88.54	-211.5	1,371.6	5,832.2	5,740.7	91.51	63.731		
16,700.0	11,450.0	11,421.9	11,379.8	96.8	42.7	88.41	-211.5	1,371.6	5,921.7	5,830.1	91.61	64.639		
16,800.0	11,450.0	11,420.6	11,378.5	98.2	42.7	88.25	-211.5	1,371.6	6,013.0	5,921.3	91.71	65.568		
16,900.0	11,450.0	11,419.3	11,377.3	99.7	42.7	88.06	-211.5	1,371.6	6,105.8	6,014.1	91.79	66.517		
17,000.0	11,450.0	11,418.1	11,376.0	101.3	42.7	87.81	-211.5	1,371.6	6,200.2	6,108.3	91.88	67.482		
17,100.0	11,450.0	11,416.8	11,374.7	102.8	42.7	87.51	-211.5	1,371.6	6,295.7	6,203.8	91.96	68.462		
17,200.0	11,450.0	11,415.5	11,373.4	104.4	42.7	87.11	-211.4	1,371.6	6,392.4	6,300.3	92.03	69.456		
17,300.0	11,450.0	11,414.3	11,372.2	106.0	42.7	86.57	-211.4	1,371.6	6,489.9	6,397.8	92.11	70.461		
17,400.0	11,450.0	11,413.0	11,370.9	107.5	42.7	85.79	-211.4	1,371.6	6,588.3	6,496.1	92.17	71.476		
17,426.1	11,450.0	11,412.7	11,370.6	108.0	42.7	85.53	-211.4	1,371.6	6,614.0	6,521.8	92.19	71.742		
17,500.0	11,450.0	11,411.8	11,369.7	109.1	42.7	86.12	-211.4	1,371.6	6,686.9	6,594.7	92.24	72.494		
17,600.0	11,450.0	11,410.5	11,368.4	110.7	42.7	86.70	-211.4	1,371.6	6,785.0	6,692.7	92.31	73.502		
17,700.0	11,450.0	11,409.2	11,367.1	112.3	42.7	87.12	-211.4	1,371.6	6,882.5	6,790.1	92.38	74.499		
17,800.0	11,450.0	11,408.0	11,365.9	113.9	42.7	87.44	-211.4	1,371.6	6,979.1	6,886.7	92.46	75.484		
17,900.0	11,450.0	11,406.7	11,364.6	115.5	42.7	87.69	-211.3	1,371.6	7,075.0	6,982.5	92.54	76.456		
18,000.0	11,450.0	11,405.4	11,363.3	117.0	42.7	87.89	-211.3	1,371.6	7,169.9	7,077.3	92.62	77.414		
18,100.0	11,450.0	11,404.1	11,362.0	118.6	42.7	88.05	-211.3	1,371.6	7,263.9	7,171.2	92.70	78.359		
18,155.7	11,450.0	11,404.6	11,361.3	119.4	42.7	88.13	-211.3	1,371.6	7,315.8	7,223.0	92.75	78.876		
18,200.0	11,450.0	11,405.1	11,360.8	120.1	42.7	88.12	-211.3	1,371.6	7,356.9	7,264.1	92.79	79.284		
18,300.0	11,450.0	11,406.4	11,359.5	121.7	42.7	88.09	-211.3	1,371.6	7,449.9	7,357.0	92.89	80.205		
18,400.0	11,450.0	11,407.7	11,358.2	123.2	42.7	88.07	-211.3	1,371.6	7,543.1	7,450.1	92.98	81.127		
18,500.0	11,450.0	11,409.0	11,357.0	124.7	42.7	88.04	-211.2	1,371.6	7,636.4	7,543.3	93.07	82.049		

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 #135H
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 #135H	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: 220-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
18,600.0	11,450.0	11,410.2	11,355.7	126.3	42.7	88.01	-211.2	1,371.6	7,729.9	7,636.7	93.16	82.971	
18,700.0	11,450.0	11,404.0	11,361.9	127.8	42.7	88.14	-211.3	1,371.6	7,823.6	7,730.3	93.23	83.915	
18,800.0	11,450.0	11,404.0	11,361.9	129.4	42.7	88.14	-211.3	1,371.6	7,917.4	7,824.1	93.32	84.841	
18,900.0	11,450.0	11,404.0	11,361.9	130.9	42.7	88.14	-211.3	1,371.6	8,011.4	7,918.0	93.41	85.767	
19,000.0	11,450.0	11,404.0	11,361.9	132.5	42.7	88.14	-211.3	1,371.6	8,105.5	8,012.0	93.50	86.693	
19,100.0	11,450.0	11,404.0	11,361.9	134.0	42.7	88.14	-211.3	1,371.6	8,199.8	8,106.2	93.58	87.619	
19,200.0	11,450.0	11,404.0	11,361.9	135.6	42.7	88.14	-211.3	1,371.6	8,294.2	8,200.5	93.67	88.545	
19,300.0	11,450.0	11,404.0	11,361.9	137.2	42.7	88.14	-211.3	1,371.6	8,388.7	8,294.9	93.76	89.470	
19,400.0	11,450.0	11,404.0	11,361.9	138.7	42.7	88.14	-211.3	1,371.6	8,483.3	8,389.5	93.85	90.395	
19,500.0	11,450.0	11,404.0	11,361.9	140.3	42.7	88.14	-211.3	1,371.6	8,578.1	8,484.2	93.94	91.319	
19,600.0	11,450.0	11,404.0	11,361.9	141.9	42.7	88.14	-211.3	1,371.6	8,673.0	8,579.0	94.02	92.243	
19,700.0	11,450.0	11,404.0	11,361.9	143.4	42.7	88.14	-211.3	1,371.6	8,768.0	8,673.9	94.11	93.167	
19,800.0	11,450.0	11,404.0	11,361.9	145.0	42.7	88.14	-211.3	1,371.6	8,863.1	8,768.9	94.20	94.089	
19,900.0	11,450.0	11,404.0	11,361.9	146.6	42.7	88.14	-211.3	1,371.6	8,958.3	8,864.0	94.29	95.011	
20,000.0	11,450.0	11,404.0	11,361.9	148.2	42.7	88.14	-211.3	1,371.6	9,053.6	8,959.3	94.38	95.932	
20,100.0	11,450.0	11,394.1	11,352.0	149.7	42.6	87.93	-211.2	1,371.6	9,149.0	9,054.6	94.43	96.885	
20,200.0	11,450.0	11,393.6	11,351.6	151.3	42.6	87.93	-211.2	1,371.6	9,244.5	9,150.0	94.52	97.806	
20,300.0	11,450.0	11,393.2	11,351.1	152.9	42.6	87.92	-211.2	1,371.6	9,340.2	9,245.6	94.61	98.726	
20,400.0	11,450.0	11,392.8	11,350.7	154.5	42.6	87.91	-211.2	1,371.6	9,435.9	9,341.2	94.69	99.645	
20,500.0	11,450.0	11,392.4	11,350.3	156.1	42.6	87.90	-211.2	1,371.6	9,531.6	9,436.9	94.78	100.563	
20,600.0	11,450.0	11,391.9	11,349.9	157.6	42.6	87.89	-211.2	1,371.6	9,627.5	9,532.7	94.87	101.480	
20,700.0	11,450.0	11,391.5	11,349.4	159.2	42.6	87.88	-211.2	1,371.6	9,723.5	9,628.5	94.96	102.396	
20,800.0	11,450.0	11,391.1	11,349.0	160.8	42.6	87.87	-211.1	1,371.6	9,819.5	9,724.5	95.05	103.311	
20,900.0	11,450.0	11,390.7	11,348.6	162.4	42.6	87.86	-211.1	1,371.6	9,915.6	9,820.5	95.14	104.225	

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 #135H
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 #135H	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: 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	89.35	25.5	2,233.0	2,233.2					
100.0	100.0	87.3	87.3	0.1	0.1	-166.58	25.2	2,233.3	2,233.6	2,233.3	0.27	8,190.641		
200.0	200.0	174.6	174.6	0.5	0.3	-166.56	24.4	2,234.0	2,234.9	2,234.2	0.77	2,919.646		
300.0	300.0	266.6	266.5	0.8	0.5	-166.53	23.0	2,235.3	2,237.1	2,235.8	1.36	1,641.781		
400.0	400.0	365.7	365.6	1.2	0.9	-166.50	21.6	2,236.8	2,239.8	2,237.7	2.08	1,078.691		
500.0	500.0	468.1	468.1	1.6	1.2	-166.48	20.3	2,238.4	2,242.7	2,239.9	2.80	800.340		
600.0	600.0	579.6	579.5	1.9	1.6	-166.46	19.3	2,239.7	2,245.7	2,242.1	3.56	630.825		
700.0	699.9	698.6	698.5	2.3	2.1	-166.46	18.8	2,240.3	2,248.2	2,243.9	4.34	518.012		
800.0	799.9	805.6	805.5	2.6	2.4	-166.48	18.8	2,240.2	2,250.5	2,245.5	5.06	444.829		
900.0	899.9	912.8	912.7	3.0	2.8	-166.50	19.1	2,239.7	2,252.8	2,247.0	5.78	390.065		
1,000.0	999.8	1,003.8	1,003.7	3.4	3.1	-166.52	19.3	2,239.3	2,255.4	2,248.9	6.44	349.961		
1,100.0	1,099.8	1,089.6	1,089.6	3.7	3.4	-166.54	19.5	2,239.4	2,258.9	2,251.8	7.10	318.136		
1,200.0	1,199.7	1,177.4	1,177.3	4.1	3.7	-166.57	19.8	2,240.1	2,263.3	2,255.6	7.76	291.529		
1,300.0	1,299.6	1,267.6	1,267.5	4.5	4.0	-166.60	20.4	2,241.1	2,268.5	2,260.0	8.44	268.818		
1,400.0	1,399.5	1,345.0	1,344.9	4.8	4.3	-166.63	20.7	2,242.6	2,274.7	2,265.7	9.07	250.828		
1,500.0	1,499.4	1,407.5	1,407.3	5.2	4.5	-166.64	20.7	2,244.7	2,282.7	2,273.0	9.65	236.653		
1,600.0	1,599.3	1,472.3	1,472.1	5.6	4.7	-166.65	20.5	2,247.8	2,292.4	2,282.2	10.23	224.116		
1,700.0	1,699.1	1,537.9	1,537.6	5.9	5.0	-166.65	20.0	2,251.9	2,304.0	2,293.2	10.81	213.086		
1,800.0	1,798.9	1,616.1	1,615.6	6.3	5.3	-166.64	18.8	2,257.8	2,317.0	2,305.6	11.44	202.489		
1,900.0	1,898.8	1,754.0	1,753.0	6.7	5.8	-166.57	14.5	2,268.0	2,330.4	2,318.1	12.31	189.364		
2,000.0	1,998.6	1,929.4	1,928.1	7.0	6.4	-166.47	8.2	2,275.7	2,340.8	2,327.5	13.31	175.821		
2,100.0	2,098.3	2,027.4	2,026.0	7.4	6.7	-166.43	5.0	2,278.6	2,350.2	2,336.2	14.02	167.575		
2,200.0	2,198.1	2,099.0	2,097.5	7.8	7.0	-166.38	1.9	2,281.1	2,360.7	2,346.0	14.64	161.287		
2,300.0	2,297.8	2,172.2	2,170.5	8.1	7.3	-166.31	-2.0	2,284.6	2,372.6	2,357.3	15.25	155.538		
2,400.0	2,397.5	2,253.8	2,251.8	8.5	7.6	-166.21	-7.0	2,289.4	2,385.9	2,370.0	15.90	150.018		
2,500.0	2,497.2	2,358.8	2,356.4	8.9	8.0	-166.09	-13.8	2,295.8	2,399.8	2,383.1	16.65	144.132		
2,600.0	2,596.8	2,488.2	2,485.4	9.3	8.4	-165.97	-21.2	2,302.7	2,413.2	2,395.7	17.50	137.935		
2,700.0	2,696.4	2,583.0	2,579.9	9.7	8.8	-165.90	-25.7	2,307.2	2,426.4	2,408.2	18.20	133.321		
2,800.0	2,796.0	2,688.7	2,685.4	10.0	9.2	-165.84	-30.4	2,312.2	2,439.9	2,420.9	18.95	128.761		
2,900.0	2,895.6	2,789.8	2,786.3	10.4	9.6	-165.79	-34.7	2,316.6	2,453.3	2,433.6	19.68	124.662		
3,000.0	2,895.1	2,874.4	2,870.8	10.8	9.9	-165.73	-38.9	2,320.6	2,467.4	2,447.1	20.34	121.280		
3,100.0	3,094.6	2,953.9	2,950.0	11.2	10.2	-165.67	-43.3	2,324.9	2,482.5	2,461.5	20.99	118.281		
3,200.0	3,194.1	3,032.4	3,028.2	11.6	10.5	-165.61	-47.6	2,329.8	2,498.8	2,477.1	21.63	115.541		
3,300.0	3,293.5	3,121.2	3,116.7	12.0	10.8	-165.56	-51.8	2,335.8	2,515.9	2,493.6	22.31	112.784		
3,400.0	3,392.9	3,241.8	3,237.0	12.4	11.3	-165.55	-55.1	2,343.8	2,533.1	2,510.0	23.12	109.557		
3,500.0	3,492.2	3,320.0	3,315.1	12.7	11.5	-165.58	-55.7	2,348.6	2,550.3	2,526.6	23.75	107.387		
3,600.0	3,591.6	3,385.1	3,380.0	13.1	11.8	-165.62	-55.4	2,353.4	2,569.0	2,544.6	24.31	105.656		
3,700.0	3,690.8	3,444.3	3,439.0	13.5	12.0	-165.67	-54.6	2,358.7	2,589.5	2,564.7	24.85	104.214		
3,800.0	3,790.1	3,510.0	3,504.3	13.9	12.2	-165.73	-53.3	2,365.6	2,611.7	2,586.3	25.40	102.805		
3,900.0	3,889.3	3,616.5	3,610.1	14.3	12.6	-165.82	-52.3	2,377.2	2,634.8	2,608.6	26.15	100.740		
4,000.0	3,988.4	3,780.8	3,773.7	14.7	13.3	-165.87	-54.9	2,392.3	2,656.3	2,629.1	27.18	97.730		
4,100.0	4,087.5	3,906.5	3,899.0	15.2	13.7	-165.86	-58.6	2,401.8	2,676.7	2,648.7	28.03	95.507		
4,200.0	4,186.6	4,037.2	4,029.4	15.6	14.2	-165.90	-61.0	2,410.2	2,696.3	2,667.4	28.89	93.330		
4,300.0	4,285.6	4,164.2	4,156.2	16.0	14.7	-165.92	-63.7	2,417.0	2,715.0	2,685.3	29.73	91.310		
4,400.0	4,384.6	4,265.6	4,257.5	16.4	15.1	-165.95	-65.7	2,421.7	2,733.5	2,703.0	30.47	89.715		
4,500.0	4,483.5	4,375.3	4,367.0	16.8	15.5	-166.01	-66.3	2,426.6	2,752.1	2,720.8	31.24	88.107		
4,600.0	4,582.4	4,459.6	4,451.3	17.2	15.8	-166.06	-66.5	2,430.5	2,771.1	2,739.2	31.89	86.885		
4,700.0	4,681.2	4,584.1	4,575.7	17.6	16.2	-166.13	-67.2	2,435.8	2,790.2	2,757.5	32.72	85.262		
4,800.0	4,780.0	4,709.0	4,700.4	18.1	16.7	-166.15	-70.2	2,439.9	2,808.5	2,774.9	33.56	83.690		
4,900.0	4,878.7	4,814.9	4,806.2	18.5	17.1	-166.15	-74.0	2,442.7	2,826.6	2,792.3	34.31	82.373		
5,000.0	4,977.4	4,919.4	4,910.6	18.9	17.4	-166.15	-77.6	2,445.3	2,844.8	2,809.7	35.06	81.129		
5,100.0	5,076.0	5,014.7	5,005.8	19.3	17.8	-166.15	-80.9	2,447.6	2,863.2	2,827.4	35.78	80.029		

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 #135H
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 #135H	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: 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		
5,180.6	5,155.5	5,095.0	5,086.1	19.7	18.1	-166.16	-83.6	2,449.6	2,878.4	2,842.0	36.37	79.147		
5,200.0	5,174.6	5,114.4	5,105.4	19.8	18.1	-166.16	-84.2	2,450.1	2,882.0	2,845.5	36.51	78.940		
5,300.0	5,273.2	5,212.5	5,203.5	20.2	18.5	-166.17	-87.5	2,452.5	2,900.9	2,863.7	37.23	77.908		
5,400.0	5,371.7	5,318.2	5,309.1	20.6	18.9	-166.19	-90.9	2,454.9	2,919.6	2,881.7	37.99	76.850		
5,500.0	5,470.2	5,419.6	5,410.4	21.1	19.2	-166.21	-94.1	2,457.0	2,938.1	2,899.4	38.73	75.861		
5,600.0	5,568.8	5,519.0	5,509.7	21.5	19.6	-166.23	-97.1	2,459.1	2,956.7	2,917.3	39.46	74.927		
5,700.0	5,667.3	5,618.9	5,609.6	22.0	19.9	-166.25	-100.1	2,461.1	2,975.1	2,934.9	40.20	74.017		
5,755.0	5,721.5	5,671.8	5,662.4	22.2	20.1	-166.26	-101.7	2,462.1	2,985.3	2,944.7	40.59	73.548		
5,800.0	5,765.9	5,716.9	5,707.6	22.4	20.3	-166.27	-103.1	2,463.0	2,993.6	2,952.6	40.92	73.155		
5,900.0	5,864.5	5,825.3	5,815.8	22.8	20.7	-166.29	-106.5	2,465.0	3,011.6	2,969.9	41.69	72.238		
6,000.0	5,963.1	5,891.3	5,881.8	23.3	20.9	-166.31	-108.5	2,466.4	3,029.5	2,987.2	42.28	71.655		
6,100.0	6,061.9	5,953.0	5,943.4	23.7	21.2	-166.34	-110.1	2,468.4	3,048.3	3,005.5	42.84	71.153		
6,200.0	6,160.6	6,029.0	6,019.3	24.1	21.4	-166.36	-111.9	2,471.8	3,067.9	3,024.4	43.47	70.581		
6,300.0	6,259.4	6,131.0	6,121.2	24.6	21.8	-166.39	-114.6	2,476.6	3,087.4	3,043.2	44.21	69.834		
6,400.0	6,358.3	6,224.8	6,214.8	25.0	22.2	-166.42	-116.9	2,480.9	3,106.6	3,061.7	44.92	69.164		
6,500.0	6,457.2	6,328.3	6,318.3	25.4	22.5	-166.44	-119.5	2,485.6	3,125.3	3,079.7	45.67	68.438		
6,600.0	6,556.2	6,420.4	6,410.2	25.8	22.9	-166.46	-121.8	2,489.8	3,143.9	3,097.5	46.36	67.809		
6,700.0	6,655.2	6,531.0	6,520.7	26.3	23.3	-166.50	-123.9	2,494.7	3,161.9	3,114.8	47.15	67.068		
6,800.0	6,754.2	6,636.9	6,626.4	26.7	23.7	-166.54	-125.5	2,499.1	3,179.4	3,131.5	47.90	66.370		
6,900.0	6,853.3	6,742.3	6,731.7	27.1	24.1	-166.57	-127.2	2,503.3	3,196.3	3,147.7	48.66	65.688		
7,000.0	6,952.4	6,842.2	6,831.6	27.5	24.4	-166.61	-128.8	2,507.0	3,212.8	3,163.4	49.39	65.050		
7,100.0	7,051.6	6,951.5	6,940.8	27.9	24.8	-166.64	-130.4	2,511.1	3,228.8	3,178.7	50.16	64.370		
7,200.0	7,150.8	7,056.2	7,045.4	28.3	25.2	-166.68	-131.9	2,514.6	3,244.2	3,193.3	50.91	63.723		
7,300.0	7,250.1	7,166.8	7,155.9	28.7	25.6	-166.71	-133.6	2,518.0	3,259.1	3,207.4	51.69	63.053		
7,400.0	7,349.4	7,267.8	7,257.0	29.1	26.0	-166.73	-135.1	2,520.9	3,273.4	3,221.0	52.42	62.444		
7,500.0	7,448.8	7,370.5	7,359.6	29.6	26.3	-166.76	-136.7	2,523.8	3,287.3	3,234.2	53.16	61.837		
7,600.0	7,548.1	7,482.5	7,471.6	30.0	26.7	-166.78	-138.7	2,526.6	3,300.6	3,246.6	53.94	61.187		
7,700.0	7,647.6	7,580.7	7,569.7	30.4	27.1	-166.80	-140.4	2,528.9	3,313.4	3,258.8	54.66	60.617		
7,800.0	7,747.0	7,689.1	7,678.0	30.7	27.5	-166.81	-142.5	2,531.4	3,325.9	3,270.5	55.43	60.006		
7,900.0	7,846.5	7,788.9	7,777.8	31.1	27.8	-166.82	-144.7	2,533.4	3,337.7	3,281.6	56.15	59.442		
8,000.0	7,946.0	7,900.6	7,889.4	31.5	28.2	-166.82	-147.0	2,535.7	3,349.3	3,292.4	56.93	58.833		
8,100.0	8,045.5	7,994.9	7,983.6	31.9	28.6	-166.83	-149.1	2,537.3	3,360.2	3,302.6	57.63	58.309		
8,200.0	8,145.1	8,106.5	8,095.2	32.3	29.0	-166.83	-151.7	2,539.3	3,370.9	3,312.5	58.40	57.716		
8,300.0	8,244.7	8,187.2	8,175.9	32.7	29.3	-166.82	-153.7	2,540.8	3,381.2	3,322.2	59.04	57.267		
8,400.0	8,344.4	8,288.3	8,277.0	33.1	29.6	-166.82	-155.8	2,542.9	3,391.6	3,331.8	59.77	56.741		
8,500.0	8,444.0	8,359.6	8,348.2	33.5	29.9	-166.84	-156.5	2,544.6	3,401.9	3,341.5	60.36	56.357		
8,600.0	8,543.7	8,450.9	8,439.5	33.8	30.2	-166.87	-156.3	2,547.4	3,412.6	3,351.6	61.04	55.908		
8,700.0	8,643.4	8,562.2	8,550.8	34.2	30.6	-166.92	-156.0	2,550.6	3,422.8	3,361.0	61.81	55.380		
8,800.0	8,743.2	8,675.2	8,663.7	34.6	31.0	-166.96	-155.6	2,553.4	3,432.3	3,369.8	62.58	54.849		
8,900.0	8,843.0	8,793.4	8,781.9	35.0	31.4	-166.99	-155.6	2,555.9	3,441.1	3,377.8	63.37	54.299		
9,000.0	8,942.7	8,924.3	8,912.7	35.3	31.9	-167.00	-157.1	2,557.6	3,448.7	3,384.5	64.22	53.698		
9,100.0	9,042.5	9,015.7	9,004.1	35.7	32.2	-166.99	-159.1	2,558.4	3,455.7	3,390.8	64.91	53.242		
9,200.0	9,142.4	9,083.2	9,071.6	36.1	32.5	-166.97	-161.2	2,559.5	3,462.9	3,397.4	65.48	52.883		
9,300.0	9,242.2	9,141.3	9,129.6	36.4	32.7	-166.95	-163.3	2,561.0	3,470.9	3,404.9	66.01	52.583		
9,400.0	9,342.1	9,238.3	9,226.5	36.8	33.0	-166.91	-167.3	2,564.3	3,479.3	3,412.6	66.72	52.150		
9,500.0	9,442.0	9,311.0	9,299.1	37.1	33.3	-166.87	-170.5	2,567.0	3,487.8	3,420.5	67.31	51.817		
9,600.0	9,541.9	9,387.3	9,375.2	37.5	33.6	-166.83	-173.8	2,570.5	3,496.7	3,428.7	67.91	51.486		
9,700.0	9,641.8	9,472.2	9,459.9	37.9	33.9	-166.80	-176.5	2,574.8	3,505.8	3,437.2	68.56	51.135		
9,800.0	9,741.7	9,577.6	9,565.2	38.2	34.3	-166.78	-179.2	2,580.3	3,514.8	3,445.5	69.31	50.713		
9,900.0	9,841.6	9,696.7	9,684.1	38.6	34.7	-166.76	-181.6	2,586.0	3,523.0	3,452.9	70.12	50.242		
10,000.0	9,941.6	9,803.3	9,790.6	38.9	35.1	-166.73	-184.5	2,590.7	3,530.5	3,459.7	70.87	49.816		
10,100.0	10,041.5	9,917.3	9,904.5	39.3	35.5	-166.69	-187.3	2,595.3	3,537.3	3,465.7	71.66	49.364		

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 #135H
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 #135H	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: 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	10,141.5	10,002.7	9,989.8	39.6	35.8	-166.68	-188.8	2,598.8	3,544.0	3,471.7	72.30	49.016		
10,300.0	10,241.5	10,111.4	10,098.3	39.9	36.2	-166.66	-190.5	2,603.4	3,550.4	3,477.3	73.06	48.596		
10,400.0	10,341.5	10,234.5	10,221.4	40.3	36.7	-166.65	-192.1	2,607.9	3,555.8	3,481.9	73.88	48.128		
10,500.0	10,441.4	10,334.9	10,321.7	40.6	37.0	-166.63	-193.6	2,611.3	3,560.7	3,486.1	74.60	47.733		
10,600.0	10,541.4	10,430.5	10,417.2	41.0	37.4	-166.62	-194.6	2,614.5	3,565.4	3,490.1	75.29	47.357		
10,700.0	10,641.4	10,531.1	10,517.8	41.3	37.8	-166.61	-195.6	2,618.1	3,569.8	3,493.8	76.00	46.970		
10,800.0	10,741.4	10,618.4	10,605.0	41.6	38.1	-166.60	-196.7	2,621.2	3,574.0	3,497.3	76.65	46.626		
10,900.0	10,841.4	10,710.9	10,697.4	42.0	38.4	-166.59	-197.5	2,624.9	3,578.2	3,500.9	77.32	46.275		
10,935.6	10,877.0	10,747.4	10,733.9	42.1	38.5	89.36	-197.9	2,626.4	3,579.7	3,502.1	77.58	46.143		
10,950.0	10,891.4	10,766.8	10,753.3	42.1	38.6	110.89	-198.1	2,627.1	3,580.3	3,502.6	77.70	45.395		
11,000.0	10,941.3	10,835.7	10,822.2	42.3	38.9	110.69	-199.2	2,629.6	3,583.3	3,505.2	78.14	45.860		
11,050.0	10,990.7	10,894.3	10,880.7	42.4	39.1	110.44	-200.4	2,631.5	3,587.7	3,509.2	78.52	45.692		
11,100.0	11,039.2	10,950.6	10,937.0	42.6	39.3	110.11	-201.4	2,633.2	3,593.5	3,514.6	78.89	45.552		
11,150.0	11,086.5	10,995.9	10,982.2	42.8	39.4	109.65	-202.2	2,634.5	3,600.8	3,521.6	79.20	45.465		
11,200.0	11,132.1	11,043.5	11,029.8	42.9	39.6	109.11	-202.8	2,635.9	3,609.6	3,530.1	79.52	45.395		
11,250.0	11,175.9	11,246.6	11,232.8	43.1	40.3	109.71	-203.4	2,638.0	3,619.9	3,539.4	80.45	44.995		
11,300.0	11,217.3	11,307.1	11,293.3	43.2	40.5	109.27	-203.2	2,636.9	3,629.8	3,549.0	80.78	44.934		
11,350.0	11,256.2	11,353.7	11,340.0	43.3	40.7	108.61	-202.7	2,635.9	3,641.1	3,560.1	81.06	44.921		
11,400.0	11,292.2	11,380.0	11,366.2	43.5	40.7	107.60	-201.8	2,635.3	3,654.1	3,572.8	81.26	44.968		
11,450.0	11,325.0	11,403.2	11,389.4	43.6	40.8	106.39	-200.4	2,634.9	3,668.7	3,587.2	81.44	45.045		
11,500.0	11,354.5	11,426.0	11,412.1	43.7	40.9	105.01	-198.3	2,634.6	3,684.9	3,603.3	81.62	45.146		
11,550.0	11,380.3	11,457.7	11,443.5	43.9	41.0	103.58	-194.2	2,634.4	3,702.6	3,620.8	81.82	45.250		
11,600.0	11,402.2	11,510.4	11,495.1	44.0	41.1	102.27	-183.7	2,634.0	3,721.4	3,639.3	82.09	45.332		
11,650.0	11,420.2	11,534.8	11,518.7	44.1	41.2	100.46	-177.3	2,633.9	3,741.4	3,659.1	82.26	45.482		
11,700.0	11,434.0	11,553.5	11,536.5	44.3	41.3	98.42	-171.8	2,633.9	3,762.4	3,680.0	82.41	45.656		
11,750.0	11,443.6	11,571.1	11,553.1	44.5	41.3	96.24	-166.1	2,634.0	3,784.5	3,701.9	82.55	45.846		
11,800.0	11,448.9	11,587.3	11,568.4	44.6	41.3	93.91	-160.3	2,634.1	3,807.4	3,724.7	82.68	46.049		
11,835.6	11,450.0	11,598.0	11,578.3	44.8	41.4	92.19	-156.4	2,634.3	3,824.1	3,741.3	82.77	46.201		
11,900.0	11,450.0	11,611.0	11,590.2	45.1	41.4	92.36	-151.3	2,634.5	3,854.4	3,771.5	82.92	46.484		
12,000.0	11,450.0	11,634.3	11,611.4	45.5	41.5	92.66	-141.5	2,635.0	3,900.4	3,817.2	83.18	46.889		
12,100.0	11,450.0	12,232.9	12,033.1	46.1	42.8	99.07	270.7	2,640.4	3,940.2	3,855.2	85.06	46.324		
12,200.0	11,450.0	12,356.4	12,091.9	46.6	43.3	99.78	379.2	2,638.3	3,972.4	3,886.5	85.83	46.282		
12,300.0	11,450.0	12,433.6	12,118.0	47.3	43.6	100.01	451.8	2,639.0	4,001.7	3,915.1	86.54	46.243		
12,400.0	11,450.0	12,815.4	12,135.8	47.9	45.3	99.97	830.9	2,648.8	4,023.3	3,934.3	89.09	45.163		
12,500.0	11,450.0	12,943.6	12,131.0	48.6	46.1	99.80	959.0	2,649.1	4,038.9	3,948.4	90.50	44.629		
12,600.0	11,450.0	13,036.6	12,128.0	49.3	46.7	99.69	1,051.9	2,649.2	4,050.9	3,959.1	91.77	44.143		
12,700.0	11,450.0	13,124.2	12,125.8	50.0	47.3	99.61	1,139.4	2,649.3	4,059.7	3,966.6	93.07	43.621		
12,800.0	11,450.0	13,315.9	12,122.7	50.8	48.7	99.53	1,331.1	2,647.6	4,064.4	3,969.0	95.38	42.614		
12,892.5	11,450.0	13,404.3	12,119.3	51.5	49.4	99.48	1,419.5	2,646.0	4,064.3	3,967.5	96.83	41.974		
12,900.0	11,450.0	13,410.9	12,119.0	51.5	49.5	99.48	1,426.0	2,645.9	4,064.2	3,967.2	96.94	41.924		
13,000.0	11,450.0	13,470.7	12,116.4	52.3	50.0	99.44	1,485.8	2,645.2	4,063.1	3,964.9	98.22	41.367		
13,047.4	11,450.0	13,497.0	12,115.5	52.7	50.2	99.43	1,512.1	2,645.1	4,063.0	3,964.2	98.82	41.115		
13,100.0	11,450.0	13,517.0	12,115.0	53.2	50.4	99.42	1,532.1	2,645.1	4,063.2	3,963.8	99.39	40.881		
13,200.0	11,450.0	13,567.2	12,114.2	54.0	50.8	99.41	1,582.2	2,645.5	4,064.5	3,963.8	100.64	40.387		
13,300.0	11,450.0	13,612.0	12,114.1	54.9	51.2	99.40	1,627.0	2,646.4	4,067.2	3,965.4	101.85	39.934		
13,400.0	11,450.0	13,723.5	12,114.7	55.9	52.2	99.40	1,738.5	2,649.1	4,070.4	3,966.6	103.86	39.192		
13,500.0	11,450.0	13,811.8	12,114.9	56.8	53.1	99.40	1,826.8	2,651.3	4,073.7	3,968.0	105.67	38.551		
13,600.0	11,450.0	13,899.5	12,116.0	57.8	53.9	99.41	1,914.4	2,653.6	4,077.2	3,969.7	107.52	37.920		
13,700.0	11,450.0	14,128.7	12,121.2	58.8	56.3	99.47	2,143.6	2,656.4	4,079.9	3,968.7	111.24	36.676		
13,800.0	11,450.0	14,219.5	12,121.8	59.9	57.3	99.48	2,234.3	2,655.9	4,080.3	3,967.0	113.29	36.015		
13,888.8	11,450.0	14,274.0	12,120.5	60.9	57.9	99.46	2,288.8	2,656.4	4,081.3	3,966.5	114.80	35.551		
13,900.0	11,450.0	14,286.5	12,120.1	61.0	58.0	99.45	2,301.3	2,656.5	4,081.5	3,966.4	115.07	35.469		

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 #135H
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 #135H	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: 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		
14,000.0	11,450.0	14,391.4	12,116.5	62.1	59.2	99.40	2,406.1	2,657.9	4,082.9	3,965.5	117.42	34.773		
14,100.0	11,450.0	14,480.7	12,115.2	63.2	60.2	99.37	2,495.4	2,658.8	4,084.5	3,964.9	119.58	34.157		
14,200.0	11,450.0	14,660.1	12,113.7	64.4	62.3	99.35	2,674.8	2,659.9	4,086.1	3,963.1	123.07	33.203		
14,300.0	11,450.0	15,047.5	12,115.4	65.6	67.1	99.41	3,061.1	2,638.8	4,079.3	3,949.7	129.57	31.485		
14,400.0	11,450.0	15,114.0	12,117.0	66.8	68.0	99.45	3,127.4	2,632.9	4,071.9	3,940.3	131.61	30.940		
14,500.0	11,450.0	15,157.9	12,119.2	68.0	68.5	99.49	3,171.0	2,629.3	4,065.9	3,932.5	133.34	30.493		
14,600.0	11,450.0	15,207.0	12,121.4	69.2	69.2	99.52	3,220.0	2,626.9	4,061.9	3,926.7	135.14	30.056		
14,700.0	11,450.0	15,207.0	12,121.4	70.5	69.2	99.52	3,220.0	2,626.9	4,059.3	3,923.1	136.22	29.800		
14,755.5	11,450.0	15,207.0	12,121.4	71.2	69.2	99.52	3,220.0	2,626.9	4,058.9	3,922.1	136.79	29.672		
14,800.0	11,450.0	15,207.0	12,121.4	71.7	69.2	99.52	3,220.0	2,626.9	4,059.1	3,921.9	137.24	29.576		
14,900.0	11,450.0	15,252.1	12,122.7	73.0	69.8	99.54	3,265.1	2,626.4	4,060.2	3,921.3	138.96	29.219		
15,000.0	11,450.0	15,300.0	12,123.2	74.3	70.4	99.54	3,313.0	2,628.3	4,064.1	3,923.4	140.72	28.882		
15,100.0	11,450.0	15,468.5	12,126.3	75.7	72.6	99.57	3,481.3	2,631.4	4,067.0	3,922.6	144.48	28.149		
15,200.0	11,450.0	15,517.5	12,125.3	77.0	73.3	99.56	3,530.4	2,632.5	4,069.7	3,923.4	146.31	27.816		
15,236.3	11,450.0	15,533.0	12,124.9	77.5	73.5	99.55	3,545.8	2,633.0	4,071.0	3,924.0	146.93	27.707		
15,300.0	11,450.0	15,560.1	12,124.3	78.3	73.8	99.53	3,572.9	2,634.0	4,073.0	3,925.0	148.01	27.518		
15,400.0	11,450.0	15,605.7	12,123.2	79.6	74.4	99.51	3,618.5	2,636.4	4,074.5	3,924.7	149.75	27.208		
15,500.0	11,450.0	15,655.5	12,122.9	80.9	75.1	99.51	3,668.1	2,639.4	4,073.8	3,922.2	151.53	26.883		
15,600.0	11,450.0	16,059.4	12,120.5	82.2	80.7	99.57	4,071.7	2,650.0	4,065.4	3,905.8	159.53	25.484		
15,700.0	11,450.0	16,260.5	12,121.0	83.5	83.5	99.71	4,272.7	2,645.5	4,049.8	3,885.9	163.90	24.709		
15,800.0	11,450.0	16,307.7	12,123.5	84.8	84.2	99.83	4,319.8	2,643.7	4,030.2	3,864.4	165.76	24.313		
15,900.0	11,450.0	16,388.9	12,134.0	86.0	85.3	100.11	4,400.3	2,640.5	4,008.2	3,840.1	168.12	23.841		
15,966.5	11,450.0	16,458.2	12,143.5	86.8	86.3	100.36	4,468.8	2,637.5	3,991.7	3,821.8	169.92	23.491		
16,000.0	11,450.0	16,486.6	12,146.8	87.2	86.7	100.40	4,497.0	2,636.4	3,983.2	3,812.5	170.73	23.330		
16,100.0	11,450.0	16,546.9	12,152.1	88.5	87.6	100.43	4,557.0	2,634.5	3,960.5	3,787.7	172.78	22.923		
16,200.0	11,450.0	16,589.0	12,154.2	89.7	88.2	100.42	4,599.1	2,634.1	3,942.4	3,767.9	174.55	22.586		
16,300.0	11,450.0	16,657.4	12,155.1	91.1	89.2	100.41	4,667.5	2,634.8	3,929.1	3,752.3	176.80	22.223		
16,400.0	11,450.0	16,400.0	12,152.0	92.5	85.4	100.41	4,960.2	2,632.0	3,916.8	3,741.9	174.88	22.397		
16,500.0	11,450.0	17,030.7	12,150.9	93.9	94.7	100.38	5,040.6	2,629.1	3,905.4	3,720.0	185.47	21.057		
16,600.0	11,450.0	17,088.0	12,150.4	95.3	95.5	100.36	5,097.9	2,628.2	3,899.1	3,711.4	187.67	20.776		
16,700.0	11,450.0	17,227.0	12,151.6	96.8	97.6	100.38	5,236.9	2,624.2	3,895.5	3,704.2	191.24	20.370		
16,745.3	11,450.0	17,249.4	12,151.8	97.4	97.9	100.38	5,259.2	2,623.5	3,895.0	3,702.8	192.19	20.266		
16,800.0	11,450.0	17,276.0	12,152.0	98.2	98.3	100.38	5,285.8	2,622.9	3,895.7	3,702.3	193.34	20.149		
16,900.0	11,450.0	17,316.0	12,152.4	99.7	98.9	100.40	5,325.8	2,622.5	3,900.8	3,705.5	195.28	19.976		
17,000.0	11,450.0	17,371.0	12,153.0	101.3	99.7	100.43	5,380.8	2,622.9	3,910.9	3,713.4	197.46	19.806		
17,100.0	11,450.0	17,585.5	12,149.7	102.8	102.9	100.36	5,595.2	2,622.2	3,923.1	3,720.6	202.49	19.374		
17,200.0	11,450.0	17,625.5	12,149.5	104.4	103.5	100.39	5,635.3	2,621.8	3,938.1	3,733.6	204.48	19.259		
17,300.0	11,450.0	17,652.0	12,149.6	106.0	103.9	100.45	5,661.8	2,621.7	3,958.1	3,751.9	206.18	19.197		
17,400.0	11,450.0	17,697.0	12,149.8	107.5	104.6	100.52	5,706.7	2,622.4	3,982.8	3,774.6	208.18	19.132		
17,426.1	11,450.0	17,705.7	12,149.8	108.0	104.7	100.54	5,715.4	2,622.7	3,990.1	3,781.4	208.63	19.125		
17,500.0	11,450.0	17,745.0	12,149.8	109.1	105.3	100.43	5,754.7	2,624.3	4,010.7	3,800.5	210.20	19.080		
17,600.0	11,450.0	18,093.5	12,145.9	110.7	110.6	100.09	6,102.9	2,626.8	4,032.2	3,814.3	217.90	18.504		
17,700.0	11,450.0	18,121.0	12,146.2	112.3	111.0	100.03	6,130.4	2,626.2	4,048.6	3,828.9	219.69	18.429		
17,800.0	11,450.0	18,181.7	12,146.7	113.9	112.0	99.96	6,191.1	2,625.8	4,062.8	3,840.7	222.03	18.298		
17,900.0	11,450.0	18,216.0	12,146.9	115.5	112.5	99.91	6,225.4	2,626.0	4,075.0	3,851.2	223.84	18.205		
18,000.0	11,450.0	18,274.1	12,147.3	117.0	113.4	99.87	6,283.5	2,627.2	4,085.1	3,859.0	226.07	18.070		
18,100.0	11,450.0	18,327.1	12,148.0	118.6	114.2	99.84	6,336.5	2,629.0	4,093.0	3,864.8	228.17	17.938		
18,155.7	11,450.0	18,364.1	12,148.3	119.4	114.7	99.83	6,373.4	2,630.5	4,096.3	3,866.8	229.47	17.851		
18,200.0	11,450.0	18,403.0	12,148.5	120.1	115.3	99.83	6,412.3	2,632.4	4,098.7	3,868.0	230.71	17.766		
18,300.0	11,450.0	18,611.5	12,157.5	121.7	118.5	99.94	6,620.5	2,637.1	4,102.1	3,866.2	235.90	17.389		
18,400.0	11,450.0	18,910.6	12,150.2	123.2	123.1	99.83	6,919.3	2,638.4	4,103.7	3,861.0	242.72	16.907		
18,500.0	11,450.0	18,991.1	12,146.3	124.7	124.4	99.77	6,999.7	2,637.1	4,102.0	3,856.5	245.49	16.710		

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 #135H
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 #135H	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: 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	
18,600.0	11,450.0	19,167.3	12,140.2	126.3	127.1	99.70	7,175.7	2,632.5	4,099.7	3,849.8	249.93	16.404	
18,700.0	11,450.0	19,215.1	12,140.2	127.8	127.9	99.70	7,223.5	2,630.8	4,096.9	3,844.8	252.12	16.250	
18,800.0	11,450.0	19,282.6	12,139.9	129.4	128.9	99.70	7,290.9	2,629.2	4,095.2	3,840.6	254.65	16.082	
18,900.0	11,450.0	19,346.0	12,138.5	130.9	129.9	99.68	7,354.3	2,628.1	4,094.0	3,836.9	257.09	15.924	
18,970.2	11,450.0	19,394.9	12,137.1	132.0	130.7	99.66	7,403.2	2,627.7	4,093.7	3,834.8	258.88	15.813	
19,000.0	11,450.0	19,409.4	12,136.8	132.5	130.9	99.66	7,417.7	2,627.6	4,093.7	3,834.2	259.52	15.774	
19,100.0	11,450.0	19,459.4	12,135.9	134.0	131.7	99.64	7,467.7	2,627.9	4,094.7	3,833.0	261.67	15.648	
19,200.0	11,450.0	19,511.8	12,135.1	135.6	132.5	99.63	7,520.1	2,628.8	4,096.9	3,833.1	263.83	15.528	
19,300.0	11,450.0	19,822.5	12,141.9	137.2	137.4	99.73	7,830.5	2,625.3	4,096.5	3,825.6	270.85	15.124	
19,400.0	11,450.0	19,982.9	12,144.3	138.7	139.9	99.77	7,990.7	2,618.2	4,093.0	3,818.1	274.98	14.885	
19,500.0	11,450.0	20,044.9	12,143.7	140.3	140.9	99.77	8,052.6	2,615.6	4,089.5	3,812.1	277.47	14.739	
19,600.0	11,450.0	20,101.0	12,142.5	141.9	141.8	99.76	8,108.7	2,614.1	4,087.2	3,807.4	279.84	14.606	
19,700.0	11,450.0	20,224.3	12,141.0	143.4	143.8	99.74	8,231.9	2,610.6	4,085.0	3,801.6	283.39	14.415	
19,800.0	11,450.0	20,291.0	12,140.9	145.0	144.8	99.74	8,298.6	2,608.8	4,083.0	3,797.1	285.93	14.280	
19,900.0	11,450.0	20,335.8	12,140.7	146.6	145.5	99.74	8,343.4	2,608.2	4,082.1	3,794.1	288.05	14.171	
19,920.9	11,450.0	20,346.2	12,140.6	146.9	145.7	99.74	8,353.8	2,608.1	4,082.1	3,793.6	288.51	14.149	
20,000.0	11,450.0	20,386.0	12,140.2	148.2	146.3	99.73	8,393.6	2,608.1	4,082.5	3,792.3	290.24	14.066	
20,100.0	11,450.0	20,478.7	12,138.0	149.7	147.8	99.70	8,486.3	2,608.7	4,083.6	3,790.3	293.26	13.925	
20,200.0	11,450.0	20,678.9	12,135.0	151.3	151.0	99.66	8,686.5	2,607.1	4,083.0	3,784.7	298.32	13.687	
20,300.0	11,450.0	20,763.0	12,134.1	152.9	152.3	99.65	8,770.5	2,605.5	4,081.8	3,780.6	301.18	13.552	
20,384.5	11,450.0	20,809.9	12,133.6	154.2	153.0	99.64	8,817.4	2,604.9	4,081.3	3,778.2	303.14	13.463	
20,400.0	11,450.0	20,817.3	12,133.6	154.5	153.2	99.64	8,824.8	2,604.9	4,081.3	3,777.9	303.48	13.448	
20,500.0	11,450.0	20,880.3	12,133.5	156.1	154.2	99.64	8,887.8	2,605.0	4,082.1	3,776.2	305.91	13.344	
20,600.0	11,450.0	21,185.2	12,134.1	157.6	159.0	99.66	9,192.5	2,597.4	4,079.9	3,767.1	312.76	13.045	
20,700.0	11,450.0	21,234.0	12,133.0	159.2	159.8	99.65	9,241.3	2,595.6	4,076.7	3,761.6	315.07	12.939	
20,800.0	11,450.0	21,329.0	12,131.3	160.8	161.3	99.63	9,336.2	2,592.2	4,073.6	3,755.5	318.16	12.804	
20,900.0	11,450.0	21,381.9	12,130.7	162.4	162.2	99.63	9,389.1	2,590.5	4,071.3	3,750.9	320.50	12.703	
20,998.3	11,450.0	21,424.0	12,129.3	164.0	162.8	99.61	9,431.1	2,590.3	4,070.8	3,748.2	322.57	12.620	
21,000.0	11,450.0	21,424.0	12,129.3	164.0	162.8	99.61	9,431.1	2,590.3	4,070.8	3,748.2	322.59	12.619	
21,100.0	11,450.0	21,472.2	12,127.6	165.6	163.6	99.58	9,479.3	2,590.6	4,071.6	3,746.8	324.76	12.537	
21,200.0	11,450.0	21,532.2	12,126.2	167.2	164.6	99.56	9,539.3	2,591.5	4,073.4	3,746.3	327.12	12.452	
21,300.0	11,450.0	21,593.6	12,124.9	168.8	165.5	99.54	9,600.6	2,593.0	4,076.1	3,746.7	329.48	12.371	
21,400.0	11,450.0	21,787.0	12,124.0	170.4	168.6	99.52	9,794.0	2,595.0	4,077.5	3,742.9	334.60	12.186	
21,500.0	11,450.0	21,960.1	12,119.9	172.0	171.4	99.46	9,967.1	2,594.2	4,077.2	3,738.0	339.22	12.019	
21,600.0	11,450.0	22,139.5	12,115.8	173.6	174.3	99.41	10,146.4	2,590.7	4,075.9	3,732.0	343.86	11.854	
21,700.0	11,450.0	22,191.0	12,113.6	175.2	175.1	99.38	10,197.8	2,589.2	4,073.4	3,727.2	346.21	11.766	
21,757.9	11,450.0	22,191.0	12,113.6	176.1	175.1	99.38	10,197.8	2,589.2	4,072.9	3,725.9	346.98	11.738 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 #135H
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 #135H	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	-90.74	-1.4	-110.2	110.2					
100.0	100.0	101.0	101.0	0.1	0.1	13.35	-1.4	-110.2	110.0	109.7	0.26	421.794		
200.0	200.0	201.0	201.0	0.5	0.5	13.41	-1.4	-110.2	109.5	108.5	0.98	112.081		
300.0	300.0	301.0	301.0	0.8	0.8	13.51	-1.4	-110.2	108.7	107.0	1.69	64.173		
400.0	400.0	401.0	401.0	1.2	1.2	13.65	-1.4	-110.2	107.6	105.2	2.41	44.624		
500.0	500.0	501.0	501.0	1.6	1.6	13.84	-1.4	-110.2	106.2	103.0	3.13	33.934		
600.0	600.0	601.0	601.0	1.9	1.9	14.08	-1.4	-110.2	104.4	100.6	3.85	27.148		
700.0	699.9	700.9	700.9	2.3	2.3	14.37	-1.4	-110.2	102.3	97.8	4.56	22.425		
800.0	799.9	800.9	800.9	2.6	2.6	14.73	-1.4	-110.2	99.9	94.7	5.28	18.926		
900.0	899.9	900.9	900.9	3.0	3.0	15.15	-1.4	-110.2	97.2	91.2	6.00	16.211		
1,000.0	999.8	1,000.8	1,000.8	3.4	3.4	15.65	-1.4	-110.2	94.2	87.5	6.72	14.029		
1,100.0	1,099.8	1,100.8	1,100.8	3.7	3.7	16.24	-1.4	-110.2	90.9	83.5	7.43	12.227		
1,200.0	1,199.7	1,200.7	1,200.7	4.1	4.1	16.93	-1.4	-110.2	87.3	79.1	8.15	10.705		
1,300.0	1,299.6	1,300.6	1,300.6	4.5	4.4	17.76	-1.4	-110.2	83.3	74.5	8.87	9.395		
1,400.0	1,399.5	1,400.5	1,400.5	4.8	4.8	18.74	-1.4	-110.2	79.1	69.5	9.59	8.250		
1,500.0	1,499.4	1,500.4	1,500.4	5.2	5.1	19.93	-1.4	-110.2	74.6	64.3	10.31	7.237		
1,600.0	1,599.3	1,599.1	1,599.1	5.6	5.5	21.12	-1.6	-111.0	70.6	59.6	11.01	6.415		
1,700.0	1,699.1	1,697.9	1,697.9	5.9	5.8	22.09	-2.1	-113.5	68.1	56.3	11.71	5.812		
1,800.0	1,798.9	1,796.8	1,796.7	6.3	6.2	22.75	-2.9	-117.7	66.8	54.4	12.41	5.385		
1,844.1	1,843.0	1,840.5	1,840.3	6.4	6.3	22.93	-3.3	-120.1	66.7	54.0	12.71	5.245 CC		
1,900.0	1,898.8	1,895.7	1,895.4	6.7	6.5	23.04	-4.0	-123.6	66.9	53.8	13.10	5.105 ES		
2,000.0	1,998.6	1,994.6	1,994.0	7.0	6.9	22.94	-5.4	-131.1	68.3	54.5	13.80	4.950		
2,100.0	2,098.3	2,093.5	2,092.4	7.4	7.2	22.49	-7.2	-140.3	71.0	56.5	14.49	4.901		
2,200.0	2,198.1	2,192.2	2,190.5	7.8	7.6	21.74	-9.2	-151.2	75.1	59.9	15.18	4.946		
2,300.0	2,297.8	2,309.4	2,288.1	8.1	8.0	20.79	-11.6	-163.6	80.4	64.5	15.93	5.052		
2,400.0	2,397.5	2,409.6	2,387.0	8.5	8.4	19.82	-14.2	-177.3	86.5	69.9	16.64	5.200		
2,500.0	2,497.2	2,490.3	2,485.8	8.9	8.7	19.04	-16.8	-190.9	92.3	75.0	17.29	5.341		
2,600.0	2,596.8	2,609.9	2,584.7	9.3	9.1	18.42	-19.4	-204.6	97.8	79.8	18.08	5.412		
2,700.0	2,696.4	2,690.0	2,683.6	9.7	9.4	17.92	-22.0	-218.2	103.0	84.3	18.72	5.502		
2,800.0	2,796.0	2,789.8	2,782.5	10.0	9.8	17.52	-24.6	-231.9	107.9	88.5	19.45	5.549		
2,900.0	2,895.6	2,889.7	2,881.4	10.4	10.2	17.20	-27.3	-245.5	112.5	92.3	20.17	5.577		
3,000.0	2,995.1	2,989.6	2,980.3	10.8	10.6	16.96	-29.9	-259.2	116.8	95.9	20.89	5.588		
3,100.0	3,094.6	3,089.6	3,079.3	11.2	11.0	16.78	-32.5	-272.9	120.7	99.1	21.62	5.583		
3,200.0	3,194.1	3,189.5	3,178.2	11.6	11.4	16.65	-35.1	-286.5	124.3	102.0	22.35	5.564		
3,300.0	3,293.5	3,289.4	3,277.2	12.0	11.8	16.57	-37.7	-300.2	127.7	104.6	23.08	5.532		
3,400.0	3,392.9	3,389.4	3,376.2	12.4	12.2	16.54	-40.3	-313.9	130.7	106.9	23.81	5.488		
3,500.0	3,492.2	3,489.4	3,475.2	12.7	12.6	16.55	-42.9	-327.5	133.4	108.8	24.55	5.434		
3,600.0	3,591.6	3,589.3	3,574.2	13.1	13.0	16.60	-45.5	-341.2	135.8	110.5	25.28	5.370		
3,700.0	3,690.8	3,689.3	3,673.2	13.5	13.4	16.69	-48.1	-354.9	137.8	111.8	26.02	5.297		
3,800.0	3,790.1	3,789.3	3,772.2	13.9	13.8	16.81	-50.7	-368.5	139.6	112.8	26.76	5.216		
3,900.0	3,889.3	3,889.3	3,871.2	14.3	14.2	16.97	-53.3	-382.2	141.0	113.5	27.50	5.128		
4,000.0	3,988.4	3,989.3	3,970.2	14.7	14.7	17.17	-55.9	-395.9	142.1	113.9	28.24	5.033		
4,100.0	4,087.5	4,089.3	4,069.3	15.2	15.1	17.40	-58.5	-409.5	142.9	113.9	28.98	4.931		
4,200.0	4,186.6	4,189.3	4,168.3	15.6	15.5	17.67	-61.2	-423.2	143.4	113.7	29.73	4.824		
4,300.0	4,285.6	4,289.3	4,267.3	16.0	15.9	17.98	-63.8	-436.9	143.6	113.1	30.47	4.712		
4,400.0	4,384.6	4,389.3	4,366.3	16.4	16.3	18.33	-66.4	-450.5	143.5	112.2	31.23	4.595		
4,500.0	4,483.5	4,489.3	4,465.4	16.8	16.7	18.72	-69.0	-464.2	143.0	111.1	31.98	4.473		
4,600.0	4,582.4	4,589.2	4,564.4	17.2	17.1	19.16	-71.6	-477.9	142.3	109.6	32.73	4.347		
4,700.0	4,681.2	4,689.2	4,663.4	17.6	17.5	19.64	-74.2	-491.6	141.3	107.8	33.49	4.218		
4,800.0	4,780.0	4,789.2	4,762.4	18.1	18.0	20.18	-76.8	-505.2	139.9	105.7	34.26	4.085		
4,900.0	4,878.7	4,889.2	4,861.4	18.5	18.4	20.78	-79.4	-518.9	138.3	103.3	35.02	3.949		
5,000.0	4,977.4	4,989.2	4,960.4	18.9	18.8	21.45	-82.0	-532.6	136.4	100.6	35.79	3.810		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,089.1	5,059.4	19.3	19.2	22.19	-84.6	-546.2	134.2	97.6	36.57	3.669		
5,180.6	5,155.5	5,169.7	5,139.2	19.7	19.5	22.84	-86.7	-557.2	132.2	95.0	37.20	3.553		
5,200.0	5,174.6	5,189.1	5,158.4	19.8	19.6	23.00	-87.2	-559.9	131.7	94.3	37.35	3.525		
5,300.0	5,273.2	5,289.0	5,257.3	20.2	20.0	23.87	-89.8	-573.5	129.1	91.0	38.14	3.385		
5,400.0	5,371.7	5,389.0	5,356.3	20.6	20.4	24.77	-92.4	-587.2	126.6	87.7	38.94	3.252		
5,500.0	5,470.2	5,488.9	5,455.3	21.1	20.9	25.70	-95.1	-600.9	124.1	84.4	39.73	3.124		
5,600.0	5,568.8	5,588.9	5,554.3	21.5	21.3	26.68	-97.7	-614.5	121.7	81.1	40.54	3.001		
5,700.0	5,667.3	5,688.8	5,653.2	22.0	21.7	27.69	-100.3	-628.2	119.2	77.9	41.35	2.884		
5,755.0	5,721.5	5,743.8	5,707.6	22.2	21.9	28.27	-101.7	-635.7	117.9	76.1	41.80	2.821		
5,800.0	5,765.9	5,788.8	5,752.2	22.4	22.1	28.74	-102.9	-641.9	116.9	74.7	42.17	2.772		
5,900.0	5,864.5	5,888.7	5,851.2	22.8	22.5	29.76	-105.5	-655.5	114.8	71.8	42.99	2.671		
6,000.0	5,963.1	5,988.7	5,950.2	23.3	22.9	30.73	-108.1	-669.2	113.1	69.3	43.81	2.581		
6,100.0	6,061.9	6,088.7	6,049.2	23.7	23.4	31.64	-110.7	-682.9	111.6	67.0	44.63	2.501		
6,200.0	6,160.6	6,188.6	6,148.2	24.1	23.8	32.49	-113.3	-696.5	110.5	65.1	45.46	2.431		
6,300.0	6,259.4	6,288.6	6,247.2	24.6	24.2	33.26	-115.9	-710.2	109.7	63.4	46.28	2.370		
6,400.0	6,358.3	6,388.6	6,346.2	25.0	24.6	33.94	-118.5	-723.9	109.1	62.1	47.09	2.318		
6,500.0	6,457.2	6,488.6	6,445.2	25.4	25.0	34.53	-121.1	-737.5	108.9	61.0	47.91	2.273		
6,537.5	6,494.3	6,526.1	6,482.4	25.6	25.2	34.73	-122.1	-742.7	108.9	60.7	48.21	2.258		
6,600.0	6,556.2	6,588.6	6,544.3	25.8	25.5	35.02	-123.7	-751.2	108.9	60.2	48.72	2.236		
6,700.0	6,655.2	6,688.6	6,643.3	26.3	25.9	35.42	-126.4	-764.9	109.2	59.7	49.52	2.203		
6,800.0	6,754.2	6,788.6	6,742.3	26.7	26.3	35.71	-129.0	-778.5	109.8	59.5	50.32	2.186		
6,900.0	6,853.3	6,888.6	6,841.3	27.1	26.7	35.90	-131.6	-792.2	110.7	59.6	51.10	2.166		
7,000.0	6,952.4	6,988.6	6,940.4	27.5	27.1	35.99	-134.2	-805.9	111.8	59.9	51.88	2.155		
7,100.0	7,051.6	7,088.6	7,039.4	27.9	27.6	35.97	-136.8	-819.6	113.2	60.5	52.66	2.150 SF		
7,200.0	7,150.8	7,188.6	7,138.4	28.3	28.0	35.86	-139.4	-833.2	114.8	61.4	53.42	2.150		
7,300.0	7,250.1	7,288.5	7,237.4	28.7	28.4	35.66	-142.0	-846.9	116.8	62.6	54.18	2.155		
7,400.0	7,349.4	7,388.5	7,336.4	29.1	28.8	35.38	-144.6	-860.6	119.0	64.0	54.92	2.166		
7,500.0	7,448.8	7,488.5	7,435.4	29.6	29.2	35.01	-147.2	-874.2	121.4	65.8	55.66	2.182		
7,600.0	7,548.1	7,588.4	7,534.4	30.0	29.7	34.58	-149.8	-887.9	124.2	67.8	56.39	2.202		
7,700.0	7,647.6	7,688.4	7,633.4	30.4	30.1	34.08	-152.4	-901.6	127.2	70.1	57.11	2.227		
7,800.0	7,747.0	7,788.3	7,732.3	30.7	30.5	33.52	-155.0	-915.2	130.5	72.7	57.83	2.256		
7,900.0	7,846.5	7,888.3	7,831.3	31.1	30.9	32.92	-157.6	-928.9	134.1	75.5	58.54	2.290		
8,000.0	7,946.0	7,988.2	7,930.2	31.5	31.3	32.27	-160.3	-942.5	138.0	78.7	59.24	2.329		
8,100.0	8,045.5	8,088.1	8,029.1	31.9	31.8	31.59	-162.9	-956.2	142.1	82.2	59.94	2.371		
8,200.0	8,145.1	8,187.9	8,128.0	32.3	32.2	30.88	-165.5	-969.8	146.6	86.0	60.64	2.418		
8,300.0	8,244.7	8,287.8	8,226.9	32.7	32.6	30.16	-168.1	-983.5	151.4	90.1	61.33	2.469		
8,400.0	8,344.4	8,387.7	8,325.8	33.1	33.0	29.42	-170.7	-997.2	156.5	94.5	62.01	2.524		
8,500.0	8,444.0	8,487.5	8,424.7	33.5	33.4	28.67	-173.3	-1,010.8	161.9	99.2	62.70	2.583		
8,600.0	8,543.7	8,587.3	8,523.5	33.8	33.9	27.91	-175.9	-1,024.4	167.7	104.3	63.38	2.645		
8,700.0	8,643.4	8,687.1	8,622.3	34.2	34.3	27.16	-178.5	-1,038.1	173.7	109.6	64.06	2.711		
8,800.0	8,743.2	8,786.9	8,721.1	34.6	34.7	26.41	-181.1	-1,051.7	180.1	115.3	64.74	2.781		
8,900.0	8,843.0	8,886.6	8,819.9	35.0	35.1	25.67	-183.7	-1,065.4	186.8	121.3	65.42	2.855		
9,000.0	8,942.7	8,986.3	8,918.7	35.3	35.5	24.94	-186.3	-1,079.0	193.8	127.7	66.10	2.932		
9,100.0	9,042.5	9,086.0	9,017.4	35.7	36.0	24.22	-188.9	-1,092.6	201.1	134.4	66.78	3.012		
9,200.0	9,142.4	9,185.7	9,116.1	36.1	36.4	23.52	-191.5	-1,106.2	208.8	141.4	67.46	3.095		
9,300.0	9,242.2	9,285.4	9,214.8	36.4	36.8	22.84	-194.1	-1,119.9	216.8	148.7	68.14	3.182		
9,400.0	9,342.1	9,385.0	9,313.4	36.8	37.2	22.17	-196.7	-1,133.5	225.2	156.4	68.83	3.272		
9,500.0	9,442.0	9,484.6	9,412.0	37.1	37.6	21.52	-199.3	-1,147.1	233.9	164.4	69.51	3.365		
9,600.0	9,541.9	9,584.1	9,510.6	37.5	38.1	20.89	-201.9	-1,160.7	242.9	172.7	70.19	3.460		
9,700.0	9,641.8	9,683.6	9,609.2	37.9	38.5	20.28	-204.5	-1,174.3	252.2	181.4	70.88	3.559		
9,800.0	9,741.7	9,783.1	9,707.7	38.2	38.9	19.69	-207.1	-1,187.9	261.9	190.4	71.56	3.660		
9,900.0	9,841.6	9,882.6	9,806.2	38.6	39.3	19.12	-209.7	-1,201.5	272.0	199.7	72.25	3.764		

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 #135H
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 #135H	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		
10,000.0	9,941.6	9,982.0	9,904.7	38.9	39.7	18.57	-212.3	-1,215.1	282.3	209.4	72.93	3.871		
10,100.0	10,041.5	10,081.4	10,003.1	39.3	40.2	18.03	-214.9	-1,228.7	293.0	219.4	73.62	3.980		
10,200.0	10,141.5	10,180.8	10,101.5	39.6	40.6	17.52	-217.4	-1,242.3	304.0	229.7	74.31	4.092		
10,300.0	10,241.5	10,280.1	10,199.8	39.9	41.0	17.03	-220.0	-1,255.9	315.4	240.4	75.00	4.206		
10,400.0	10,341.5	10,379.4	10,298.1	40.3	41.4	16.55	-222.6	-1,269.4	327.1	251.4	75.69	4.322		
10,500.0	10,441.4	10,478.6	10,396.4	40.6	41.8	16.09	-225.2	-1,283.0	339.2	262.8	76.38	4.440		
10,600.0	10,541.4	10,577.8	10,494.6	41.0	42.2	15.65	-227.8	-1,296.6	351.5	274.5	77.07	4.561		
10,700.0	10,641.4	10,676.9	10,592.8	41.3	42.7	15.23	-230.4	-1,310.1	364.2	286.5	77.77	4.684		
10,800.0	10,741.4	10,783.8	10,698.8	41.6	43.1	14.82	-233.0	-1,323.9	376.5	298.0	78.53	4.795		
10,900.0	10,841.4	10,884.1	10,808.5	42.0	43.5	14.49	-235.2	-1,335.2	386.5	307.2	79.27	4.875		
10,935.6	10,877.0	10,933.5	10,847.7	42.1	43.7	-89.67	-235.8	-1,338.4	389.4	309.9	79.52	4.897		
10,950.0	10,891.4	10,949.5	10,863.6	42.1	43.8	-68.05	-236.0	-1,339.6	390.4	310.8	79.61	4.904		
11,000.0	10,941.3	11,004.8	10,918.9	42.3	44.0	-68.48	-236.7	-1,343.3	392.5	312.6	79.91	4.911		
11,050.0	10,990.7	11,059.8	10,973.7	42.4	44.2	-69.74	-237.3	-1,346.2	392.3	312.2	80.16	4.894		
11,100.0	11,039.2	11,113.8	11,027.7	42.6	44.3	-71.78	-237.7	-1,348.3	390.2	309.9	80.36	4.856		
11,150.0	11,086.5	11,166.5	11,080.4	42.8	44.5	-74.57	-237.9	-1,349.6	386.6	306.1	80.53	4.801		
11,200.0	11,132.1	11,217.3	11,131.2	42.9	44.7	-78.02	-238.0	-1,350.2	382.0	301.3	80.69	4.734		
11,250.0	11,175.9	11,263.0	11,176.9	43.1	44.8	-81.78	-238.1	-1,350.2	377.3	296.4	80.91	4.663		
11,300.0	11,217.3	11,304.5	11,218.3	43.2	45.0	-85.66	-238.1	-1,350.2	373.6	292.4	81.23	4.599		
11,350.0	11,256.2	11,343.3	11,257.2	43.3	45.1	-89.58	-238.1	-1,350.2	372.0	290.3	81.67	4.555		
11,355.5	11,260.3	11,347.5	11,261.3	43.4	45.1	-90.00	-238.1	-1,350.2	372.0	290.3	81.72	4.552		
11,400.0	11,292.2	11,379.3	11,293.2	43.5	45.2	-93.29	-238.1	-1,350.2	373.3	291.0	82.24	4.539		
11,450.0	11,325.0	11,412.2	11,326.0	43.6	45.3	-96.57	-238.1	-1,350.2	378.3	295.3	82.97	4.559		
11,500.0	11,354.5	11,441.6	11,355.5	43.7	45.4	-99.21	-238.1	-1,350.2	387.6	303.8	83.84	4.623		
11,550.0	11,380.3	11,467.4	11,381.3	43.9	45.4	-101.05	-238.1	-1,350.2	401.8	317.0	84.80	4.738		
11,600.0	11,402.2	11,510.7	11,403.2	44.0	45.6	-101.94	-238.1	-1,350.2	420.8	335.0	85.85	4.902		
11,650.0	11,420.2	11,507.3	11,421.2	44.1	45.6	-101.77	-238.1	-1,350.2	444.6	357.9	86.71	5.127		
11,700.0	11,434.0	11,521.1	11,435.0	44.3	45.6	-100.41	-238.1	-1,350.2	472.6	385.0	87.56	5.397		
11,750.0	11,443.6	11,530.7	11,444.6	44.5	45.6	-97.76	-238.1	-1,350.2	504.3	416.0	88.29	5.712		
11,800.0	11,448.9	11,536.0	11,449.9	44.6	45.7	-93.72	-238.1	-1,350.2	539.1	450.2	88.90	6.065		
11,835.6	11,450.0	11,537.1	11,451.0	44.8	45.7	-90.00	-238.1	-1,350.2	565.4	476.2	89.26	6.334		
11,900.0	11,450.0	11,537.1	11,451.0	45.1	45.7	-90.00	-238.1	-1,350.2	615.8	526.0	89.79	6.859		
12,000.0	11,450.0	12,622.7	12,094.0	45.5	47.4	-168.54	450.0	-1,354.5	657.6	621.7	35.89	18.323		
12,100.0	11,450.0	12,718.4	12,093.7	46.1	47.6	-170.83	545.7	-1,355.2	651.9	616.1	35.78	18.217		
12,200.0	11,450.0	12,815.0	12,093.5	46.6	47.8	-172.91	642.3	-1,355.8	647.8	611.7	36.12	17.937		
12,300.0	11,450.0	12,912.5	12,093.2	47.3	48.2	-174.78	739.8	-1,356.5	645.1	608.3	36.79	17.535		
12,400.0	11,450.0	13,010.7	12,093.0	47.9	48.6	-176.39	838.0	-1,357.1	643.4	605.7	37.70	17.067		
12,500.0	11,450.0	13,109.5	12,092.7	48.6	49.1	-177.72	936.7	-1,357.8	642.3	603.6	38.74	16.579		
12,600.0	11,450.0	13,208.7	12,092.5	49.3	49.6	-178.78	1,036.0	-1,358.5	641.7	601.8	39.84	16.105		
12,700.0	11,450.0	13,308.4	12,092.2	50.0	50.2	-179.53	1,135.6	-1,359.2	641.3	600.3	40.94	15.663		
12,800.0	11,450.0	13,408.2	12,092.0	50.8	50.8	-179.97	1,235.5	-1,359.8	641.0	599.0	41.99	15.265		
12,892.5	11,450.0	13,500.7	12,091.7	51.5	51.5	179.89	1,328.0	-1,360.5	640.8	597.9	42.90	14.938		
12,900.0	11,450.0	13,508.2	12,091.7	51.5	51.5	179.89	1,335.5	-1,360.5	640.7	597.8	42.97	14.913		
13,000.0	11,450.0	13,608.2	12,091.5	52.3	52.3	179.88	1,435.5	-1,361.2	640.5	596.6	43.92	14.582		
13,100.0	11,450.0	13,708.2	12,091.2	53.2	53.1	179.87	1,535.5	-1,361.9	640.2	595.3	44.91	14.254		
13,200.0	11,450.0	13,808.2	12,090.9	54.0	53.9	179.86	1,635.5	-1,362.6	640.0	594.0	45.94	13.931		
13,300.0	11,450.0	13,908.2	12,090.7	54.9	54.8	179.86	1,735.5	-1,363.2	639.7	592.7	46.99	13.613		
13,400.0	11,450.0	14,008.2	12,090.4	55.9	55.7	179.85	1,835.5	-1,363.9	639.4	591.4	48.08	13.301		
13,500.0	11,450.0	14,108.2	12,090.2	56.8	56.6	179.84	1,935.5	-1,364.6	639.2	590.0	49.19	12.996		
13,600.0	11,450.0	14,208.2	12,089.9	57.8	57.6	179.83	2,035.5	-1,365.3	638.9	588.6	50.32	12.698		
13,700.0	11,450.0	14,308.2	12,089.7	58.8	58.6	179.82	2,135.5	-1,365.9	638.7	587.2	51.48	12.407		
13,800.0	11,450.0	14,408.2	12,089.4	59.9	59.7	179.82	2,235.5	-1,366.6	638.4	585.8	52.65	12.125		

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 #135H
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 #135H	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		
13,888.8	11,450.0	14,503.0	12,089.2	60.9	60.7	179.81	2,324.3	-1,367.2	638.2	584.4	53.75	11.873		
13,900.0	11,450.0	14,508.2	12,089.2	61.0	60.7	179.81	2,335.5	-1,367.3	638.2	584.3	53.85	11.850		
14,000.0	11,450.0	14,608.2	12,088.9	62.1	61.8	179.80	2,435.5	-1,368.0	637.9	582.8	55.07	11.584		
14,100.0	11,450.0	14,708.2	12,088.6	63.2	62.9	179.79	2,535.4	-1,368.7	637.6	581.3	56.30	11.325		
14,200.0	11,450.0	14,808.2	12,088.4	64.4	64.1	179.78	2,635.4	-1,369.3	637.4	579.8	57.55	11.074		
14,300.0	11,450.0	14,908.2	12,088.1	65.6	65.2	179.77	2,735.4	-1,370.0	637.1	578.3	58.82	10.832		
14,400.0	11,450.0	15,008.2	12,087.9	66.8	66.4	179.77	2,835.4	-1,370.7	636.9	576.8	60.10	10.596		
14,500.0	11,450.0	15,108.2	12,087.6	68.0	67.6	179.76	2,935.4	-1,371.4	636.6	575.2	61.40	10.369		
14,600.0	11,450.0	15,208.2	12,087.4	69.2	68.9	179.75	3,035.4	-1,372.1	636.3	573.6	62.70	10.149		
14,700.0	11,450.0	15,308.2	12,087.1	70.5	70.1	179.74	3,135.4	-1,372.7	636.1	572.1	64.02	9.935		
14,800.0	11,450.0	15,408.2	12,086.8	71.7	71.4	179.73	3,235.4	-1,373.4	635.8	570.5	65.35	9.729		
14,900.0	11,450.0	15,508.2	12,086.6	73.0	72.6	179.72	3,335.4	-1,374.1	635.6	568.9	66.69	9.530		
15,000.0	11,450.0	15,608.2	12,086.3	74.3	73.9	179.72	3,435.4	-1,374.8	635.3	567.3	68.04	9.337		
15,100.0	11,450.0	15,708.2	12,086.1	75.7	75.2	179.71	3,535.4	-1,375.4	635.1	565.7	69.40	9.150		
15,200.0	11,450.0	15,808.2	12,085.8	77.0	76.5	179.70	3,635.4	-1,376.1	634.8	564.0	70.77	8.970		
15,236.3	11,450.0	15,844.5	12,085.7	77.5	77.0	179.70	3,671.7	-1,376.4	634.7	563.4	71.27	8.905		
15,300.0	11,450.0	15,908.2	12,085.6	78.3	77.9	179.76	3,735.4	-1,376.8	634.5	562.4	72.12	8.798		
15,400.0	11,450.0	16,008.1	12,085.3	79.6	79.2	-179.89	3,835.3	-1,377.5	634.3	560.9	73.36	8.646		
15,500.0	11,450.0	16,107.9	12,085.1	80.9	80.6	-179.22	3,935.0	-1,378.2	634.1	559.6	74.50	8.511		
15,559.4	11,450.0	16,166.9	12,084.9	81.7	81.4	-178.68	3,994.1	-1,378.6	634.0	558.9	75.16	8.436		
15,600.0	11,450.0	16,207.3	12,084.8	82.2	81.9	-178.25	4,034.4	-1,378.8	634.1	558.5	75.60	8.387		
15,700.0	11,450.0	16,306.2	12,084.5	83.5	83.3	-176.97	4,133.4	-1,379.5	634.4	557.7	76.73	8.268		
15,800.0	11,450.0	16,404.6	12,084.3	84.8	84.6	-175.42	4,231.8	-1,380.2	635.3	557.3	78.01	8.144		
15,900.0	11,450.0	16,502.4	12,084.0	86.0	86.0	-173.60	4,329.5	-1,380.8	637.1	557.6	79.56	8.008		
15,966.5	11,450.0	16,566.9	12,083.9	86.8	86.9	-172.25	4,394.1	-1,381.3	639.0	558.2	80.83	7.906		
16,000.0	11,450.0	16,600.6	12,083.8	87.2	87.4	-171.52	4,426.6	-1,381.5	640.1	558.6	81.55	7.849		
16,100.0	11,450.0	16,696.9	12,083.5	88.5	88.7	-169.53	4,524.0	-1,382.2	643.6	559.7	83.86	7.674		
16,200.0	11,450.0	16,804.9	12,083.3	89.7	90.3	-167.85	4,622.2	-1,382.8	647.1	560.7	86.42	7.488		
16,300.0	11,450.0	16,906.1	12,083.0	91.1	91.7	-166.46	4,721.0	-1,383.5	650.3	561.4	88.95	7.312		
16,400.0	11,450.0	16,993.1	12,082.8	92.5	93.0	-165.39	4,820.3	-1,384.2	653.0	561.8	91.27	7.155		
16,500.0	11,450.0	17,092.8	12,082.5	93.9	94.4	-164.63	4,919.9	-1,384.8	655.0	561.5	93.53	7.003		
16,600.0	11,450.0	17,105.7	12,082.5	95.3	94.6	-164.43	4,932.9	-1,384.9	661.8	565.9	95.91	6.900		
16,700.0	11,450.0	17,105.7	12,082.5	96.8	94.6	-164.02	4,932.9	-1,384.9	682.4	584.5	97.88	6.971		
16,800.0	11,450.0	17,105.7	12,082.5	98.2	94.6	-163.35	4,932.9	-1,384.9	715.5	616.4	99.15	7.216		
16,900.0	11,450.0	17,105.7	12,082.5	99.7	94.6	-162.41	4,932.9	-1,384.9	759.6	659.9	99.71	7.618		
17,000.0	11,450.0	17,105.7	12,082.5	101.3	94.6	-161.21	4,932.9	-1,384.9	812.8	713.1	99.66	8.155		
17,100.0	11,450.0	17,105.7	12,082.5	102.8	94.6	-159.77	4,932.9	-1,384.9	873.4	774.2	99.18	8.806		
17,200.0	11,450.0	17,105.7	12,082.5	104.4	94.6	-158.11	4,932.9	-1,384.9	939.8	841.4	98.41	9.550		
17,300.0	11,450.0	17,105.7	12,082.5	106.0	94.6	-156.25	4,932.9	-1,384.9	1,010.9	913.4	97.49	10.369		
17,400.0	11,450.0	17,105.7	12,082.5	107.5	94.6	-154.20	4,932.9	-1,384.9	1,085.7	989.2	96.51	11.249		
17,426.1	11,450.0	17,105.7	12,082.5	108.0	94.6	-153.64	4,932.9	-1,384.9	1,105.7	1,009.5	96.26	11.488		
17,500.0	11,450.0	17,105.7	12,082.5	109.1	94.6	-155.34	4,932.9	-1,384.9	1,163.9	1,068.3	95.62	12.172		
17,600.0	11,450.0	17,105.7	12,082.5	110.7	94.6	-157.98	4,932.9	-1,384.9	1,245.9	1,150.9	95.01	13.114		
17,700.0	11,450.0	17,105.7	12,082.5	112.3	94.6	-161.03	4,932.9	-1,384.9	1,331.1	1,236.5	94.61	14.069		
17,800.0	11,450.0	17,105.7	12,082.5	113.9	94.6	-164.51	4,932.9	-1,384.9	1,418.7	1,324.4	94.39	15.031		
17,900.0	11,450.0	17,105.7	12,082.5	115.5	94.6	-168.43	4,932.9	-1,384.9	1,508.3	1,414.0	94.29	15.996		
18,000.0	11,450.0	17,105.7	12,082.5	117.0	94.6	-172.79	4,932.9	-1,384.9	1,599.4	1,505.1	94.31	16.960		
18,100.0	11,450.0	17,105.7	12,082.5	118.6	94.6	-177.57	4,932.9	-1,384.9	1,691.7	1,597.3	94.41	17.919		
18,155.7	11,450.0	17,105.7	12,082.5	119.4	94.6	-179.62	4,932.9	-1,384.9	1,743.5	1,649.0	94.50	18.449		
18,200.0	11,450.0	17,105.7	12,082.5	120.1	94.6	-179.62	4,932.9	-1,384.9	1,784.9	1,690.3	94.59	18.870		
18,300.0	11,450.0	17,105.7	12,082.5	121.7	94.6	-179.62	4,932.9	-1,384.9	1,878.7	1,784.0	94.76	19.826		
18,400.0	11,450.0	17,105.7	12,082.5	123.2	94.6	-179.62	4,932.9	-1,384.9	1,973.2	1,878.3	94.93	20.786		

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 #135H
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 #135H	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		
18,500.0	11,450.0	17,105.7	12,082.5	124.7	94.6	179.62	4,932.9	-1,384.9	2,068.2	1,973.1	95.08	21.752		
18,600.0	11,450.0	17,105.7	12,082.5	126.3	94.6	179.62	4,932.9	-1,384.9	2,163.6	2,068.4	95.23	22.721		
18,700.0	11,450.0	17,105.7	12,082.5	127.8	94.6	179.62	4,932.9	-1,384.9	2,259.5	2,164.1	95.37	23.693		
18,800.0	11,450.0	17,105.7	12,082.5	129.4	94.6	179.62	4,932.9	-1,384.9	2,355.7	2,260.2	95.50	24.667		
18,900.0	11,450.0	17,105.7	12,082.5	130.9	94.6	179.62	4,932.9	-1,384.9	2,452.1	2,356.5	95.62	25.643		
19,000.0	11,450.0	17,105.7	12,082.5	132.5	94.6	179.62	4,932.9	-1,384.9	2,548.9	2,453.2	95.75	26.621		
19,100.0	11,450.0	17,105.7	12,082.5	134.0	94.6	179.62	4,932.9	-1,384.9	2,645.9	2,550.0	95.86	27.601		
19,200.0	11,450.0	17,105.7	12,082.5	135.6	94.6	179.62	4,932.9	-1,384.9	2,743.1	2,647.1	95.98	28.580		
19,300.0	11,450.0	17,105.7	12,082.5	137.2	94.6	179.62	4,932.9	-1,384.9	2,840.5	2,744.4	96.09	29.561		
19,400.0	11,450.0	17,105.7	12,082.5	138.7	94.6	179.62	4,932.9	-1,384.9	2,938.1	2,841.9	96.20	30.542		
19,500.0	11,450.0	17,105.7	12,082.5	140.3	94.6	179.62	4,932.9	-1,384.9	3,035.8	2,939.5	96.31	31.523		
19,600.0	11,450.0	17,105.7	12,082.5	141.9	94.6	179.62	4,932.9	-1,384.9	3,133.7	3,037.3	96.41	32.504		
19,700.0	11,450.0	17,105.7	12,082.5	143.4	94.6	179.62	4,932.9	-1,384.9	3,231.7	3,135.2	96.51	33.485		
19,800.0	11,450.0	17,105.7	12,082.5	145.0	94.6	179.62	4,932.9	-1,384.9	3,329.9	3,233.2	96.62	34.465		
19,900.0	11,450.0	17,105.7	12,082.5	146.6	94.6	179.62	4,932.9	-1,384.9	3,428.1	3,331.4	96.72	35.445		
20,000.0	11,450.0	17,105.7	12,082.5	148.2	94.6	179.62	4,932.9	-1,384.9	3,526.4	3,429.6	96.82	36.424		
20,100.0	11,450.0	17,105.7	12,082.5	149.7	94.6	179.62	4,932.9	-1,384.9	3,624.9	3,528.0	96.92	37.402		
20,200.0	11,450.0	17,105.7	12,082.5	151.3	94.6	179.62	4,932.9	-1,384.9	3,723.4	3,626.4	97.01	38.380		
20,300.0	11,450.0	17,105.7	12,082.5	152.9	94.6	179.62	4,932.9	-1,384.9	3,822.0	3,724.9	97.11	39.357		
20,400.0	11,450.0	17,105.7	12,082.5	154.5	94.6	179.62	4,932.9	-1,384.9	3,920.6	3,823.4	97.21	40.332		
20,500.0	11,450.0	17,105.7	12,082.5	156.1	94.6	179.62	4,932.9	-1,384.9	4,019.4	3,922.1	97.30	41.307		
20,600.0	11,450.0	17,105.7	12,082.5	157.6	94.6	179.62	4,932.9	-1,384.9	4,118.1	4,020.7	97.40	42.280		
20,700.0	11,450.0	17,105.7	12,082.5	159.2	94.6	179.62	4,932.9	-1,384.9	4,217.0	4,119.5	97.50	43.252		
20,800.0	11,450.0	17,105.7	12,082.5	160.8	94.6	179.62	4,932.9	-1,384.9	4,315.9	4,218.3	97.59	44.223		
20,900.0	11,450.0	17,105.7	12,082.5	162.4	94.6	179.62	4,932.9	-1,384.9	4,414.8	4,317.1	97.69	45.192		
21,000.0	11,450.0	17,105.7	12,082.5	164.0	94.6	179.62	4,932.9	-1,384.9	4,513.8	4,416.0	97.79	46.160		
21,100.0	11,450.0	17,105.7	12,082.5	165.6	94.6	179.62	4,932.9	-1,384.9	4,612.9	4,515.0	97.88	47.127		
21,200.0	11,450.0	17,105.7	12,082.5	167.2	94.6	179.62	4,932.9	-1,384.9	4,711.9	4,614.0	97.98	48.092		
21,300.0	11,450.0	17,105.7	12,082.5	168.8	94.6	179.62	4,932.9	-1,384.9	4,811.1	4,713.0	98.07	49.056		
21,400.0	11,450.0	17,105.7	12,082.5	170.4	94.6	179.62	4,932.9	-1,384.9	4,910.2	4,812.0	98.17	50.017		
21,500.0	11,450.0	17,105.7	12,082.5	172.0	94.6	179.62	4,932.9	-1,384.9	5,009.4	4,911.1	98.27	50.978		
21,600.0	11,450.0	17,105.7	12,082.5	173.6	94.6	179.62	4,932.9	-1,384.9	5,108.6	5,010.3	98.36	51.936		
21,700.0	11,450.0	17,105.7	12,082.5	175.2	94.6	179.62	4,932.9	-1,384.9	5,207.9	5,109.4	98.46	52.893		
21,757.9	11,450.0	17,105.7	12,082.5	176.1	94.6	179.62	4,932.9	-1,384.9	5,265.3	5,166.8	98.52	53.446		

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 #135H
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 #135H	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	0.0	0.0	0.0	0.0	-90.75	-1.0	-80.1	80.1					
100.0	100.0	100.0	100.0	0.1	0.1	13.34	-1.0	-80.1	79.9	79.7	0.26	310.667		
200.0	200.0	200.0	200.0	0.5	0.5	13.43	-1.0	-80.1	79.4	78.5	0.97	81.582		
300.0	300.0	300.0	300.0	0.8	0.8	13.57	-1.0	-80.1	78.6	76.9	1.69	46.507		
400.0	400.0	400.0	400.0	1.2	1.2	13.77	-1.0	-80.1	77.5	75.1	2.41	32.190		
500.0	500.0	500.0	500.0	1.6	1.6	14.03	-1.0	-80.1	76.1	72.9	3.13	24.341		
600.0	600.0	600.0	600.0	1.9	1.9	14.37	-1.0	-80.1	74.3	70.5	3.84	19.340		
700.0	699.9	700.1	699.9	2.3	2.3	14.79	-1.0	-80.1	72.2	67.7	4.56	15.842		
800.0	799.9	800.1	799.9	2.6	2.6	15.31	-1.0	-80.1	69.9	64.6	5.28	13.236		
900.0	899.9	900.1	899.9	3.0	3.0	15.95	-1.0	-80.1	67.2	61.2	6.00	11.201		
1,000.0	999.8	1,000.2	999.8	3.4	3.4	16.71	-1.0	-80.1	64.2	57.4	6.71	9.556		
1,100.0	1,099.8	1,100.2	1,099.8	3.7	3.7	17.65	-1.0	-80.1	60.9	53.4	7.43	8.188		
1,200.0	1,199.7	1,200.3	1,199.7	4.1	4.1	18.80	-1.0	-80.1	57.3	49.1	8.15	7.024		
1,300.0	1,299.6	1,300.4	1,299.6	4.5	4.4	20.23	-1.0	-80.1	53.4	44.5	8.87	6.017		
1,400.0	1,399.5	1,400.5	1,399.5	4.8	4.8	22.02	-1.0	-80.1	49.2	39.6	9.59	5.133		
1,500.0	1,499.4	1,500.6	1,499.4	5.2	5.1	24.32	-1.0	-80.1	44.8	34.5	10.31	4.348		
1,600.0	1,599.3	1,600.7	1,599.3	5.6	5.5	27.31	-1.0	-80.1	40.2	29.2	11.03	3.647		
1,700.0	1,699.1	1,700.9	1,699.1	5.9	5.9	31.35	-1.0	-80.1	35.5	23.7	11.76	3.019		
1,800.0	1,798.9	1,801.1	1,798.9	6.3	6.2	36.95	-1.0	-80.1	30.7	18.2	12.48	2.460		
1,900.0	1,898.8	1,901.2	1,898.8	6.7	6.6	45.01	-1.0	-80.1	26.1	12.9	13.22	1.975		
2,000.0	1,998.6	2,001.4	1,998.6	7.0	6.9	56.89	-1.0	-80.1	22.0	8.1	13.96	1.579		
2,100.0	2,098.3	2,101.7	2,098.3	7.4	7.3	73.99	-1.0	-80.1	19.2	4.5	14.70	1.306 Level 3		
2,175.4	2,173.5	2,173.5	2,173.5	7.7	7.6	90.00	-1.0	-80.1	18.4	3.2	15.24	1.210 Level 2, CC		
2,200.0	2,198.1	2,201.9	2,198.1	7.8	7.7	95.47	-1.0	-80.1	18.5	3.1	15.43	1.201 Level 2, ES, SF		
2,300.0	2,297.8	2,302.2	2,297.8	8.1	8.0	116.39	-1.0	-80.1	20.6	4.5	16.13	1.277 Level 3		
2,400.0	2,397.5	2,402.5	2,397.5	8.5	8.4	132.43	-1.0	-80.1	25.0	8.2	16.83	1.487 Level 3		
2,500.0	2,497.2	2,502.8	2,497.2	8.9	8.7	143.46	-1.0	-80.1	31.0	13.5	17.53	1.771		
2,600.0	2,596.8	2,603.2	2,596.8	9.3	9.1	150.98	-1.0	-80.1	38.1	19.9	18.24	2.090		
2,700.0	2,696.4	2,703.6	2,696.4	9.7	9.5	156.25	-1.0	-80.1	45.9	27.0	18.95	2.425		
2,800.0	2,796.0	2,804.0	2,796.0	10.0	9.8	160.09	-1.0	-80.1	54.4	34.7	19.67	2.764		
2,900.0	2,895.6	2,904.4	2,895.6	10.4	10.2	162.98	-1.0	-80.1	63.3	42.9	20.38	3.103		
3,000.0	2,995.1	3,004.9	2,995.1	10.8	10.5	165.21	-1.0	-80.1	72.6	51.5	21.10	3.440		
3,100.0	3,094.6	3,105.4	3,094.6	11.2	10.9	166.99	-1.0	-80.1	82.3	60.5	21.82	3.773		
3,200.0	3,194.1	3,205.9	3,194.1	11.6	11.3	168.43	-1.0	-80.1	92.5	69.9	22.55	4.101		
3,300.0	3,293.5	3,306.5	3,293.5	12.0	11.6	169.62	-1.0	-80.1	103.0	79.7	23.27	4.425		
3,400.0	3,392.9	3,407.1	3,392.9	12.4	12.0	170.62	-1.0	-80.1	113.8	89.8	23.99	4.744		
3,500.0	3,492.2	3,507.8	3,492.2	12.7	12.3	171.46	-1.0	-80.1	125.0	100.3	24.71	5.059		
3,600.0	3,591.6	3,608.4	3,591.6	13.1	12.7	172.18	-1.0	-80.1	136.6	111.1	25.44	5.369		
3,700.0	3,690.8	3,709.2	3,690.8	13.5	13.1	172.81	-1.0	-80.1	148.5	122.3	26.16	5.675		
3,800.0	3,790.1	3,809.9	3,790.1	13.9	13.4	173.36	-1.0	-80.1	160.7	133.8	26.88	5.977		
3,900.0	3,889.3	3,889.3	3,889.3	14.3	13.7	173.84	-1.0	-80.1	173.3	145.7	27.53	6.293		
4,000.0	3,988.4	3,988.4	3,988.4	14.7	14.1	174.27	-1.0	-80.1	186.2	157.9	28.25	6.590		
4,100.0	4,087.5	4,087.5	4,087.5	15.2	14.4	174.65	-1.0	-80.1	199.4	170.4	28.97	6.883		
4,200.0	4,186.6	4,186.6	4,186.6	15.6	14.8	174.98	-1.0	-80.1	213.0	183.3	29.69	7.174		
4,300.0	4,285.6	4,285.6	4,285.6	16.0	15.1	175.29	-1.0	-80.1	226.9	196.5	30.41	7.461		
4,400.0	4,384.6	4,384.6	4,384.6	16.4	15.5	175.57	-1.0	-80.1	241.1	210.0	31.13	7.746		
4,500.0	4,483.5	4,483.5	4,483.5	16.8	15.8	175.82	-1.0	-80.1	255.7	223.9	31.85	8.029		
4,600.0	4,582.4	4,582.4	4,582.4	17.2	16.2	176.05	-1.0	-80.1	270.6	238.0	32.57	8.309		
4,700.0	4,681.2	4,681.2	4,681.2	17.6	16.6	176.26	-1.0	-80.1	285.8	252.5	33.29	8.586		
4,800.0	4,780.0	4,780.0	4,780.0	18.1	16.9	176.45	-1.0	-80.1	301.4	267.4	34.01	8.862		
4,900.0	4,878.7	4,878.7	4,878.7	18.5	17.3	176.62	-1.0	-80.1	317.3	282.5	34.73	9.135		
5,000.0	4,977.4	4,977.4	4,977.4	18.9	17.6	176.79	-1.0	-80.1	333.5	298.0	35.45	9.407		

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 #135H
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 #135H	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		
5,100.0	5,076.0	5,076.0	5,076.0	19.3	18.0	176.94	-1.0	-80.1	350.0	313.8	36.17	9.677		
5,180.6	5,155.5	5,155.5	5,155.5	19.7	18.3	177.05	-1.0	-80.1	363.6	326.8	36.75	9.893		
5,200.0	5,174.6	5,174.6	5,174.6	19.8	18.3	177.08	-1.0	-80.1	366.9	330.0	36.89	9.945		
5,300.0	5,273.2	5,273.2	5,273.2	20.2	18.7	177.21	-1.0	-80.1	383.8	346.2	37.61	10.205		
5,400.0	5,371.7	5,371.7	5,371.7	20.6	19.0	177.32	-1.0	-80.1	400.8	362.5	38.33	10.456		
5,500.0	5,470.2	5,470.2	5,470.2	21.1	19.4	177.43	-1.0	-80.1	417.8	378.7	39.05	10.697		
5,600.0	5,568.8	5,568.8	5,568.8	21.5	19.7	177.53	-1.0	-80.1	434.7	394.9	39.78	10.930		
5,700.0	5,667.3	5,667.3	5,667.3	22.0	20.1	177.63	-1.0	-80.1	451.7	411.2	40.50	11.154		
5,755.0	5,721.5	5,721.5	5,721.5	22.2	20.3	177.67	-1.0	-80.1	461.0	420.1	40.89	11.274		
5,800.0	5,765.9	5,765.9	5,765.9	22.4	20.4	177.71	-1.0	-80.1	468.6	427.4	41.22	11.369		
5,900.0	5,864.5	5,864.5	5,864.5	22.8	20.8	177.79	-1.0	-80.1	485.3	443.4	41.94	11.571		
6,000.0	5,963.1	5,963.1	5,963.1	23.3	21.1	177.86	-1.0	-80.1	501.6	459.0	42.66	11.758		
6,100.0	6,061.9	6,061.9	6,061.9	23.7	21.5	177.93	-1.0	-80.1	517.7	474.3	43.39	11.931		
6,200.0	6,160.6	6,160.6	6,160.6	24.1	21.9	177.99	-1.0	-80.1	533.3	489.2	44.11	12.092		
6,300.0	6,259.4	6,259.4	6,259.4	24.6	22.2	178.05	-1.0	-80.1	548.7	503.9	44.83	12.240		
6,400.0	6,358.3	6,358.3	6,358.3	25.0	22.6	178.10	-1.0	-80.1	563.7	518.2	45.55	12.376		
6,500.0	6,457.2	6,457.2	6,457.2	25.4	22.9	178.15	-1.0	-80.1	578.5	532.2	46.28	12.500		
6,600.0	6,556.2	6,556.2	6,556.2	25.8	23.3	178.20	-1.0	-80.1	592.9	545.9	47.00	12.614		
6,700.0	6,655.2	6,655.2	6,655.2	26.3	23.6	178.24	-1.0	-80.1	606.9	559.2	47.72	12.718		
6,800.0	6,754.2	6,754.2	6,754.2	26.7	24.0	178.28	-1.0	-80.1	620.7	572.2	48.44	12.812		
6,900.0	6,853.3	6,853.3	6,853.3	27.1	24.3	178.32	-1.0	-80.1	634.1	584.9	49.17	12.897		
7,000.0	6,952.4	6,952.4	6,952.4	27.5	24.7	178.35	-1.0	-80.1	647.2	597.3	49.89	12.972		
7,100.0	7,051.6	7,051.6	7,051.6	27.9	25.1	178.39	-1.1	-80.4	659.7	609.0	50.65	13.024		
7,200.0	7,150.8	7,150.8	7,150.8	28.3	25.4	178.42	-1.7	-82.5	670.1	618.7	51.43	13.029		
7,300.0	7,250.1	7,250.1	7,250.1	28.7	25.8	178.45	-2.9	-86.8	678.3	626.1	52.19	12.996		
7,400.0	7,349.4	7,349.4	7,349.4	29.1	26.2	178.48	-4.7	-93.3	684.1	631.2	52.93	12.925		
7,500.0	7,448.8	7,448.8	7,448.8	29.6	26.6	178.51	-7.1	-102.0	687.7	634.0	53.65	12.817		
7,600.0	7,548.1	7,548.1	7,548.1	30.0	27.0	178.54	-10.1	-112.8	688.9	634.6	54.36	12.674		
7,700.0	7,647.6	7,647.6	7,647.6	30.4	27.4	178.56	-13.7	-125.8	687.9	632.8	55.04	12.497		
7,800.0	7,747.0	7,747.0	7,747.0	30.7	27.8	178.59	-17.9	-140.9	684.5	628.8	55.70	12.288		
7,900.0	7,846.5	7,846.5	7,846.5	31.1	28.2	178.61	-22.7	-158.2	678.8	622.5	56.34	12.047		
8,000.0	7,946.0	7,946.0	7,946.0	31.5	28.6	178.63	-28.0	-177.5	670.8	613.9	56.96	11.776		
8,100.0	8,045.5	8,045.5	8,045.5	31.9	29.0	178.66	-34.0	-198.8	660.5	603.0	57.56	11.476		
8,200.0	8,145.1	8,145.1	8,145.1	32.3	29.3	178.68	-39.3	-218.2	649.1	590.8	58.27	11.141		
8,300.0	8,244.7	8,244.7	8,244.7	32.7	29.7	178.70	-44.8	-237.8	637.3	578.4	58.97	10.809		
8,400.0	8,344.4	8,344.4	8,344.4	33.1	30.1	178.72	-50.2	-257.4	625.2	565.6	59.67	10.479		
8,500.0	8,444.0	8,444.0	8,444.0	33.5	30.4	178.74	-55.6	-277.0	612.8	552.5	60.37	10.152		
8,600.0	8,543.7	8,543.7	8,543.7	33.8	30.8	178.76	-61.1	-296.6	600.1	539.0	61.07	9.827		
8,700.0	8,643.4	8,643.4	8,643.4	34.2	31.2	178.78	-66.5	-316.2	587.0	525.2	61.77	9.503		
8,800.0	8,743.2	8,743.2	8,743.2	34.6	31.6	178.81	-71.9	-335.8	573.6	511.1	62.47	9.182		
8,900.0	8,843.0	8,843.0	8,843.0	35.0	31.9	178.83	-77.3	-355.3	559.9	496.7	63.17	8.863		
9,000.0	8,942.7	8,942.7	8,942.7	35.3	32.3	178.85	-82.8	-374.9	545.8	482.0	63.87	8.546		
9,100.0	9,042.5	9,042.5	9,042.5	35.7	32.7	178.88	-88.2	-394.4	531.4	466.9	64.57	8.230		
9,200.0	9,142.4	9,142.4	9,142.4	36.1	33.1	178.90	-93.6	-414.0	516.7	451.5	65.28	7.916		
9,300.0	9,242.2	9,242.2	9,242.2	36.4	33.5	178.92	-99.0	-433.5	501.7	435.7	65.98	7.604		
9,400.0	9,342.1	9,342.1	9,342.1	36.8	33.9	178.95	-104.4	-453.0	486.4	419.7	66.68	7.294		
9,500.0	9,442.0	9,442.0	9,442.0	37.1	34.3	178.98	-109.8	-472.5	470.7	403.3	67.38	6.985		
9,600.0	9,541.9	9,541.9	9,541.9	37.5	34.7	179.00	-115.2	-492.0	454.7	386.6	68.08	6.678		
9,700.0	9,641.8	9,641.8	9,641.8	37.9	35.1	179.03	-120.6	-511.5	438.3	369.6	68.79	6.372		
9,800.0	9,741.7	9,741.7	9,741.7	38.2	35.5	179.06	-126.0	-531.0	421.7	352.2	69.49	6.068		
9,900.0	9,841.6	9,841.6	9,841.6	38.6	35.9	179.10	-131.4	-550.4	404.7	334.5	70.19	5.766		
10,000.0	9,941.6	9,941.6	9,941.6	38.9	36.3	179.13	-136.8	-569.9	387.4	316.5	70.89	5.465		

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 #135H
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 #135H	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		
10,100.0	10,041.5	10,167.8	10,117.3	39.3	36.7	179.17	-142.2	-589.3	369.8	298.2	71.59	5.165		
10,200.0	10,141.5	10,266.2	10,213.6	39.6	37.1	179.21	-147.6	-608.8	351.8	279.5	72.29	4.866		
10,300.0	10,241.5	10,364.5	10,309.8	39.9	37.5	179.25	-153.0	-628.2	333.5	260.5	73.00	4.569		
10,400.0	10,341.5	10,462.8	10,406.0	40.3	38.0	179.30	-158.3	-647.6	314.9	241.2	73.70	4.273		
10,500.0	10,441.4	10,561.0	10,502.1	40.6	38.4	179.35	-163.7	-667.0	296.0	221.6	74.40	3.979		
10,600.0	10,541.4	10,659.1	10,598.1	41.0	38.8	179.41	-169.1	-686.3	276.8	201.7	75.10	3.685		
10,700.0	10,641.4	10,757.2	10,694.1	41.3	39.2	179.48	-174.4	-705.7	257.2	181.4	75.80	3.393		
10,800.0	10,741.4	10,855.2	10,790.1	41.6	39.6	179.56	-179.8	-725.1	237.3	160.8	76.50	3.102		
10,900.0	10,841.4	10,953.1	10,885.9	42.0	40.0	179.65	-185.2	-744.4	217.1	139.9	77.20	2.812		
10,935.6	10,877.0	10,987.9	10,920.0	42.1	40.2	75.63	-187.1	-751.3	209.8	132.4	77.45	2.709		
10,950.0	10,891.4	11,002.0	10,933.8	42.1	40.3	97.57	-187.9	-754.1	206.9	129.3	77.54	2.668		
11,000.0	10,941.3	11,050.9	10,981.7	42.3	40.5	99.62	-190.5	-763.7	197.1	119.2	77.89	2.531		
11,050.0	10,990.7	11,100.6	11,029.1	42.4	40.7	102.96	-193.2	-773.3	188.3	110.0	78.27	2.406		
11,100.0	11,039.2	11,147.2	11,075.9	42.6	40.9	107.57	-195.8	-782.7	181.1	102.4	78.69	2.301		
11,150.0	11,086.5	11,193.8	11,121.5	42.8	41.1	113.26	-198.3	-791.9	176.4	97.2	79.21	2.227		
11,183.8	11,117.5	11,224.5	11,151.5	42.9	41.2	117.52	-200.0	-798.0	175.4	95.7	79.65	2.202		
11,200.0	11,132.1	11,238.9	11,165.7	42.9	41.3	119.63	-200.8	-800.9	175.6	95.8	79.88	2.199		
11,250.0	11,175.9	11,282.3	11,208.1	43.1	41.5	126.17	-203.2	-809.4	180.0	99.3	80.70	2.231		
11,300.0	11,217.3	11,323.5	11,248.4	43.2	41.6	132.36	-205.4	-817.6	190.6	109.0	81.61	2.335		
11,350.0	11,256.2	11,362.2	11,286.3	43.3	41.8	137.82	-207.6	-825.2	207.6	125.1	82.50	2.516		
11,400.0	11,292.2	11,401.8	11,321.6	43.5	42.0	142.33	-209.5	-832.3	230.9	147.6	83.31	2.771		
11,450.0	11,325.0	11,431.1	11,353.8	43.6	42.1	145.83	-211.3	-838.8	259.8	175.9	83.96	3.095		
11,500.0	11,354.5	11,460.8	11,382.9	43.7	42.2	148.30	-213.0	-844.7	293.6	209.1	84.48	3.475		
11,550.0	11,380.3	11,487.0	11,408.5	43.9	42.4	149.74	-214.4	-849.8	331.3	246.5	84.88	3.904		
11,600.0	11,402.2	11,509.5	11,430.5	44.0	42.5	150.05	-215.6	-854.3	372.5	287.3	85.19	4.372		
11,650.0	11,420.2	11,527.9	11,448.5	44.1	42.5	148.95	-216.6	-857.9	416.3	330.9	85.43	4.873		
11,700.0	11,434.0	11,541.9	11,462.3	44.3	42.6	145.76	-217.4	-860.7	462.3	376.7	85.60	5.401		
11,750.0	11,443.6	11,552.0	11,472.1	44.5	42.6	139.15	-217.9	-862.6	509.8	424.1	85.72	5.948		
11,800.0	11,448.9	11,558.0	11,478.0	44.6	42.7	125.79	-218.2	-863.7	558.5	472.7	85.79	6.510		
11,835.6	11,450.0	11,559.7	11,479.7	44.8	42.7	108.80	-218.3	-864.0	593.5	507.7	85.82	6.916		
11,900.0	11,450.0	11,560.9	11,480.8	45.1	42.7	106.99	-218.4	-864.3	657.2	571.3	85.86	7.654		
12,000.0	11,450.0	11,562.1	11,482.0	45.5	42.7	104.38	-218.5	-864.5	755.8	669.9	85.90	8.798		
12,100.0	11,450.0	11,562.7	11,482.6	46.1	42.7	102.08	-218.5	-864.6	854.2	768.3	85.94	9.939		
12,200.0	11,450.0	11,562.6	11,482.6	46.6	42.7	100.07	-218.5	-864.6	952.4	866.4	85.97	11.078		
12,300.0	11,450.0	11,561.9	11,481.9	47.3	42.7	98.33	-218.4	-864.5	1,050.3	964.3	86.00	12.213		
12,400.0	11,450.0	11,560.5	11,480.5	47.9	42.7	96.82	-218.4	-864.2	1,147.9	1,061.9	86.02	13.345		
12,500.0	11,450.0	11,558.5	11,478.5	48.6	42.7	95.50	-218.3	-863.8	1,245.2	1,159.2	86.03	14.474		
12,600.0	11,450.0	11,555.8	11,475.9	49.3	42.7	94.35	-218.1	-863.3	1,342.1	1,256.1	86.04	15.599		
12,700.0	11,450.0	11,552.4	11,472.6	50.0	42.6	93.33	-217.9	-862.7	1,438.6	1,352.5	86.04	16.720		
12,800.0	11,450.0	11,548.4	11,468.6	50.8	42.6	92.43	-217.7	-861.9	1,534.6	1,448.6	86.04	17.836		
12,892.5	11,450.0	11,544.0	11,464.3	51.5	42.6	91.68	-217.5	-861.0	1,623.1	1,537.0	86.04	18.865		
12,900.0	11,450.0	11,543.6	11,463.9	51.5	42.6	91.64	-217.5	-861.0	1,630.2	1,544.2	86.03	18.948		
13,000.0	11,450.0	11,538.5	11,458.9	52.3	42.6	91.05	-217.2	-860.0	1,725.8	1,639.8	86.03	20.062		
13,100.0	11,450.0	14,879.0	13,200.0	53.2	57.1	179.84	1,533.9	-1,358.4	1,750.0	1,702.1	47.93	36.509		
13,200.0	11,450.0	14,979.0	13,200.0	54.0	57.9	179.84	1,633.9	-1,359.2	1,750.0	1,701.1	48.91	35.778		
13,300.0	11,450.0	15,079.0	13,200.0	54.9	58.7	179.84	1,733.9	-1,360.0	1,750.0	1,700.1	49.92	35.055		
13,400.0	11,450.0	15,179.0	13,200.0	55.9	59.6	179.84	1,833.9	-1,360.7	1,750.0	1,699.0	50.96	34.341		
13,500.0	11,450.0	15,279.0	13,200.0	56.8	60.4	179.84	1,933.8	-1,361.5	1,750.0	1,698.0	52.02	33.638		
13,600.0	11,450.0	15,379.0	13,200.0	57.8	61.4	179.84	2,033.8	-1,362.3	1,750.0	1,696.9	53.11	32.949		
13,700.0	11,450.0	15,479.0	13,200.0	58.8	62.3	179.84	2,133.8	-1,363.1	1,750.0	1,695.8	54.22	32.273		
13,800.0	11,450.0	15,579.0	13,200.0	59.9	63.3	179.84	2,233.8	-1,363.8	1,750.0	1,694.6	55.36	31.611		
13,888.8	11,450.0	15,667.8	13,200.0	60.9	64.2	179.84	2,322.6	-1,364.5	1,750.0	1,693.6	56.38	31.037		

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 #135H
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 #135H	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	11,450.0	15,679.0	13,200.0	61.0	64.3	179.84	2,333.8	-1,364.6	1,750.0	1,693.5	56.51	30.965		
14,000.0	11,450.0	15,779.0	13,200.0	62.1	65.3	179.84	2,433.8	-1,365.4	1,750.0	1,692.3	57.69	30.335		
14,100.0	11,450.0	15,879.0	13,200.0	63.2	66.4	179.84	2,533.8	-1,366.1	1,750.0	1,691.1	58.88	29.720		
14,200.0	11,450.0	15,979.0	13,200.0	64.4	67.5	179.84	2,633.8	-1,366.9	1,750.0	1,689.9	60.09	29.122		
14,300.0	11,450.0	16,079.0	13,200.0	65.6	68.6	179.84	2,733.8	-1,367.7	1,750.0	1,688.6	61.32	28.540		
14,400.0	11,450.0	16,179.0	13,200.0	66.8	69.7	179.84	2,833.8	-1,368.5	1,750.0	1,687.4	62.56	27.973		
14,500.0	11,450.0	16,279.0	13,200.0	68.0	70.9	179.84	2,933.8	-1,369.2	1,750.0	1,686.1	63.81	27.423		
14,600.0	11,450.0	16,379.0	13,200.0	69.2	72.0	179.84	3,033.8	-1,370.0	1,750.0	1,684.9	65.08	26.888		
14,700.0	11,450.0	16,479.0	13,200.0	70.5	73.2	179.84	3,133.8	-1,370.8	1,750.0	1,683.6	66.36	26.369		
14,800.0	11,450.0	16,579.0	13,200.0	71.7	74.4	179.84	3,233.8	-1,371.5	1,750.0	1,682.3	67.66	25.865		
14,900.0	11,450.0	16,679.0	13,200.0	73.0	75.6	179.84	3,333.8	-1,372.3	1,749.9	1,681.0	68.96	25.375		
15,000.0	11,450.0	16,779.0	13,200.0	74.3	76.9	179.84	3,433.8	-1,373.1	1,749.9	1,679.7	70.28	24.900		
15,100.0	11,450.0	16,879.0	13,200.0	75.7	78.1	179.84	3,533.8	-1,373.9	1,749.9	1,678.3	71.60	24.439		
15,200.0	11,450.0	16,979.0	13,200.0	77.0	79.4	179.84	3,633.8	-1,374.6	1,749.9	1,677.0	72.94	23.992		
15,236.3	11,450.0	17,015.3	13,200.0	77.5	79.9	179.84	3,670.1	-1,374.9	1,749.9	1,676.5	73.43	23.833		
15,300.0	11,450.0	17,079.0	13,200.0	78.3	80.7	179.87	3,733.8	-1,375.4	1,749.9	1,675.7	74.28	23.560		
15,400.0	11,450.0	17,179.0	13,200.0	79.6	82.0	180.00	3,833.7	-1,376.2	1,749.9	1,674.3	75.59	23.152		
15,410.2	11,450.0	17,189.1	13,200.0	79.8	82.1	-179.98	3,843.9	-1,376.3	1,749.9	1,674.2	75.72	23.111		
15,500.0	11,450.0	17,278.6	13,200.0	80.9	83.3	-179.76	3,933.4	-1,377.0	1,749.9	1,673.1	76.87	22.766		
15,600.0	11,450.0	17,378.0	13,200.0	82.2	84.6	-179.41	4,032.8	-1,377.7	1,750.0	1,671.9	78.13	22.400		
15,700.0	11,450.0	17,477.0	13,200.0	83.5	85.9	-178.94	4,131.8	-1,378.5	1,750.2	1,670.9	79.37	22.050		
15,800.0	11,450.0	17,575.4	13,200.0	84.8	87.3	-178.38	4,230.1	-1,379.2	1,750.7	1,670.0	80.62	21.714		
15,900.0	11,450.0	17,673.1	13,200.0	86.0	88.6	-177.71	4,327.9	-1,380.0	1,751.4	1,669.5	81.89	21.388		
15,966.5	11,450.0	17,737.6	13,200.0	86.8	89.5	-177.22	4,392.4	-1,380.5	1,752.1	1,669.4	82.75	21.175		
16,000.0	11,450.0	17,770.1	13,200.0	87.2	89.9	-176.95	4,424.9	-1,380.7	1,752.6	1,669.4	83.19	21.067		
16,100.0	11,450.0	17,867.6	13,200.0	88.5	91.3	-176.21	4,522.3	-1,381.5	1,753.9	1,669.4	84.56	20.741		
16,200.0	11,450.0	17,965.7	13,200.0	89.7	92.6	-175.58	4,620.5	-1,382.3	1,755.3	1,669.3	85.99	20.413		
16,300.0	11,450.0	18,064.5	13,200.0	91.1	94.0	-175.05	4,719.3	-1,383.0	1,756.6	1,669.1	87.46	20.085		
16,400.0	11,450.0	18,163.8	13,200.0	92.5	95.4	-174.64	4,818.5	-1,383.8	1,757.7	1,668.7	88.94	19.762		
16,500.0	11,450.0	18,263.4	13,200.0	93.9	96.8	-174.35	4,918.1	-1,384.6	1,758.5	1,668.1	90.44	19.445		
16,600.0	11,450.0	18,363.3	13,200.0	95.3	98.2	-174.17	5,018.0	-1,385.3	1,759.0	1,667.1	91.92	19.136		
16,700.0	11,450.0	18,463.2	13,200.0	96.8	99.6	-174.12	5,118.0	-1,386.1	1,759.2	1,665.8	93.39	18.837		
16,800.0	11,450.0	18,563.2	13,200.0	98.2	101.1	-174.18	5,218.0	-1,386.9	1,759.0	1,664.2	94.84	18.547		
16,900.0	11,450.0	18,663.1	13,200.0	99.7	102.5	-174.36	5,317.8	-1,387.6	1,758.5	1,662.2	96.27	18.266		
17,000.0	11,450.0	18,762.7	13,200.0	101.3	103.9	-174.67	5,417.4	-1,388.4	1,757.6	1,660.0	97.67	17.995		
17,100.0	11,450.0	18,861.9	13,200.0	102.8	105.4	-175.08	5,516.6	-1,389.2	1,756.5	1,657.5	99.06	17.731		
17,200.0	11,450.0	18,960.7	13,200.0	104.4	106.8	-175.62	5,615.4	-1,389.9	1,755.2	1,654.8	100.45	17.474		
17,300.0	11,450.0	19,058.8	13,200.0	106.0	108.3	-176.26	5,713.5	-1,390.7	1,753.8	1,652.0	101.84	17.221		
17,400.0	11,450.0	19,156.2	13,200.0	107.5	109.7	-177.00	5,810.9	-1,391.5	1,752.5	1,649.2	103.27	16.970		
17,426.1	11,450.0	19,181.5	13,200.0	108.0	110.1	-177.21	5,836.2	-1,391.7	1,752.1	1,648.5	103.65	16.905		
17,500.0	11,450.0	19,253.2	13,200.0	109.1	111.1	-177.76	5,908.0	-1,392.2	1,751.3	1,646.6	104.75	16.720		
17,600.0	11,450.0	19,351.0	13,200.0	110.7	112.6	-178.42	6,005.7	-1,393.0	1,750.6	1,644.4	106.27	16.473		
17,700.0	11,450.0	19,449.5	13,200.0	112.3	114.0	-178.97	6,104.2	-1,393.7	1,750.2	1,642.4	107.83	16.231		
17,800.0	11,450.0	19,548.4	13,200.0	113.9	115.5	-179.43	6,203.2	-1,394.5	1,750.0	1,640.6	109.40	15.996		
17,900.0	11,450.0	19,647.9	13,200.0	115.5	117.0	-179.77	6,302.6	-1,395.3	1,750.0	1,639.0	110.97	15.770		
17,990.1	11,450.0	19,737.7	13,200.0	116.9	118.3	-179.99	6,392.4	-1,395.9	1,749.9	1,637.6	112.36	15.574		
18,000.0	11,450.0	19,747.6	13,200.0	117.0	118.5	180.00	6,402.3	-1,396.0	1,749.9	1,637.4	112.51	15.553		
18,100.0	11,450.0	19,847.5	13,200.0	118.6	120.0	179.87	6,502.2	-1,396.8	1,749.9	1,635.9	114.03	15.347		
18,155.7	11,450.0	19,903.3	13,200.0	119.4	120.8	179.86	6,558.0	-1,397.2	1,749.9	1,635.1	114.86	15.236		
18,200.0	11,450.0	19,947.5	13,200.0	120.1	121.5	179.86	6,602.2	-1,397.6	1,749.9	1,634.4	115.51	15.149		
18,300.0	11,450.0	20,047.5	13,200.0	121.7	123.0	179.86	6,702.2	-1,398.3	1,749.9	1,633.0	117.00	14.957		
18,400.0	11,450.0	20,147.5	13,200.0	123.2	124.5	179.86	6,802.2	-1,399.1	1,750.0	1,631.5	118.48	14.770		

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 #135H
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 #135H	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		
18,500.0	11,450.0	20,247.5	13,200.0	124.7	126.0	179.86	6,902.2	-1,399.9	1,750.0	1,630.0	119.97	14.587		
18,600.0	11,450.0	20,347.5	13,200.0	126.3	127.6	179.86	7,002.2	-1,400.7	1,750.0	1,628.5	121.46	14.408		
18,700.0	11,450.0	20,447.5	13,200.0	127.8	129.1	179.86	7,102.2	-1,401.4	1,750.0	1,627.0	122.95	14.233		
18,800.0	11,450.0	20,547.5	13,200.0	129.4	130.6	179.86	7,202.2	-1,402.2	1,750.0	1,625.5	124.44	14.063		
18,900.0	11,450.0	20,647.5	13,200.0	130.9	132.1	179.86	7,302.2	-1,403.0	1,750.0	1,624.0	125.94	13.896		
19,000.0	11,450.0	20,747.5	13,200.0	132.5	133.7	179.86	7,402.2	-1,403.7	1,750.0	1,622.5	127.43	13.732		
19,100.0	11,450.0	20,847.5	13,200.0	134.0	135.2	179.86	7,502.2	-1,404.5	1,750.0	1,621.0	128.93	13.573		
19,200.0	11,450.0	20,947.5	13,200.0	135.6	136.8	179.86	7,602.2	-1,405.3	1,750.0	1,619.5	130.43	13.417		
19,300.0	11,450.0	21,047.5	13,200.0	137.2	138.3	179.86	7,702.2	-1,406.1	1,750.0	1,618.0	131.93	13.264		
19,400.0	11,450.0	21,147.5	13,200.0	138.7	139.8	179.86	7,802.2	-1,406.8	1,750.0	1,616.5	133.44	13.115		
19,500.0	11,450.0	21,247.5	13,200.0	140.3	141.4	179.86	7,902.2	-1,407.6	1,750.0	1,615.0	134.94	12.968		
19,600.0	11,450.0	21,347.5	13,200.0	141.9	142.9	179.86	8,002.2	-1,408.4	1,750.0	1,613.5	136.45	12.825		
19,700.0	11,450.0	21,447.5	13,200.0	143.4	144.5	179.86	8,102.2	-1,409.2	1,750.0	1,612.0	137.95	12.685		
19,800.0	11,450.0	21,547.5	13,200.0	145.0	146.0	179.86	8,202.2	-1,409.9	1,750.0	1,610.5	139.46	12.548		
19,900.0	11,450.0	21,647.5	13,200.0	146.6	147.6	179.86	8,302.2	-1,410.7	1,750.0	1,609.0	140.97	12.414		
20,000.0	11,450.0	21,747.5	13,200.0	148.2	149.2	179.86	8,402.2	-1,411.5	1,750.0	1,607.5	142.48	12.282		
20,100.0	11,450.0	21,847.5	13,200.0	149.7	150.7	179.86	8,502.2	-1,412.2	1,750.0	1,606.0	144.00	12.153		
20,200.0	11,450.0	21,947.5	13,200.0	151.3	152.3	179.86	8,602.2	-1,413.0	1,750.0	1,604.5	145.51	12.026		
20,300.0	11,450.0	22,047.5	13,200.0	152.9	153.9	179.86	8,702.2	-1,413.8	1,750.0	1,603.0	147.03	11.903		
20,400.0	11,450.0	22,147.5	13,200.0	154.5	155.4	179.86	8,802.2	-1,414.6	1,750.0	1,601.4	148.54	11.781		
20,500.0	11,450.0	22,247.5	13,200.0	156.1	157.0	179.86	8,902.2	-1,415.3	1,750.0	1,599.9	150.06	11.662		
20,600.0	11,450.0	22,347.5	13,200.0	157.6	158.6	179.86	9,002.2	-1,416.1	1,750.0	1,598.4	151.58	11.545		
20,700.0	11,450.0	22,447.5	13,200.0	159.2	160.1	179.86	9,102.2	-1,416.9	1,750.0	1,596.9	153.10	11.431		
20,800.0	11,450.0	22,547.5	13,200.0	160.8	161.7	179.86	9,202.2	-1,417.7	1,750.0	1,595.4	154.62	11.318		
20,900.0	11,450.0	22,647.5	13,200.0	162.4	163.3	179.86	9,302.2	-1,418.4	1,750.0	1,593.9	156.14	11.208		
21,000.0	11,450.0	22,747.5	13,200.0	164.0	164.9	179.87	9,402.2	-1,419.2	1,750.0	1,592.3	157.66	11.100		
21,100.0	11,450.0	22,847.5	13,200.0	165.6	166.4	179.87	9,502.1	-1,420.0	1,750.0	1,590.8	159.18	10.994		
21,200.0	11,450.0	22,947.5	13,200.0	167.2	168.0	179.87	9,602.1	-1,420.7	1,750.0	1,589.3	160.71	10.889		
21,300.0	11,450.0	23,047.5	13,200.0	168.8	169.6	179.87	9,702.1	-1,421.5	1,750.0	1,587.8	162.23	10.787		
21,400.0	11,450.0	23,147.5	13,200.0	170.4	171.2	179.87	9,802.1	-1,422.3	1,750.0	1,586.2	163.76	10.686		
21,500.0	11,450.0	23,247.5	13,200.0	172.0	172.8	179.87	9,902.1	-1,423.1	1,750.0	1,584.7	165.29	10.588		
21,600.0	11,450.0	23,347.5	13,200.0	173.6	174.4	179.87	10,002.1	-1,423.8	1,750.0	1,583.2	166.81	10.491		
21,700.0	11,450.0	23,447.5	13,200.0	175.2	176.0	179.87	10,102.1	-1,424.6	1,750.0	1,581.7	168.34	10.396		
21,757.9	11,450.0	23,505.4	13,200.0	176.1	176.9	179.87	10,160.0	-1,425.0	1,750.0	1,580.8	169.23	10.341		

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 #135H
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 #135H	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

Reference Depths are relative to KB @ 3818.5usft (Original Well Elev)

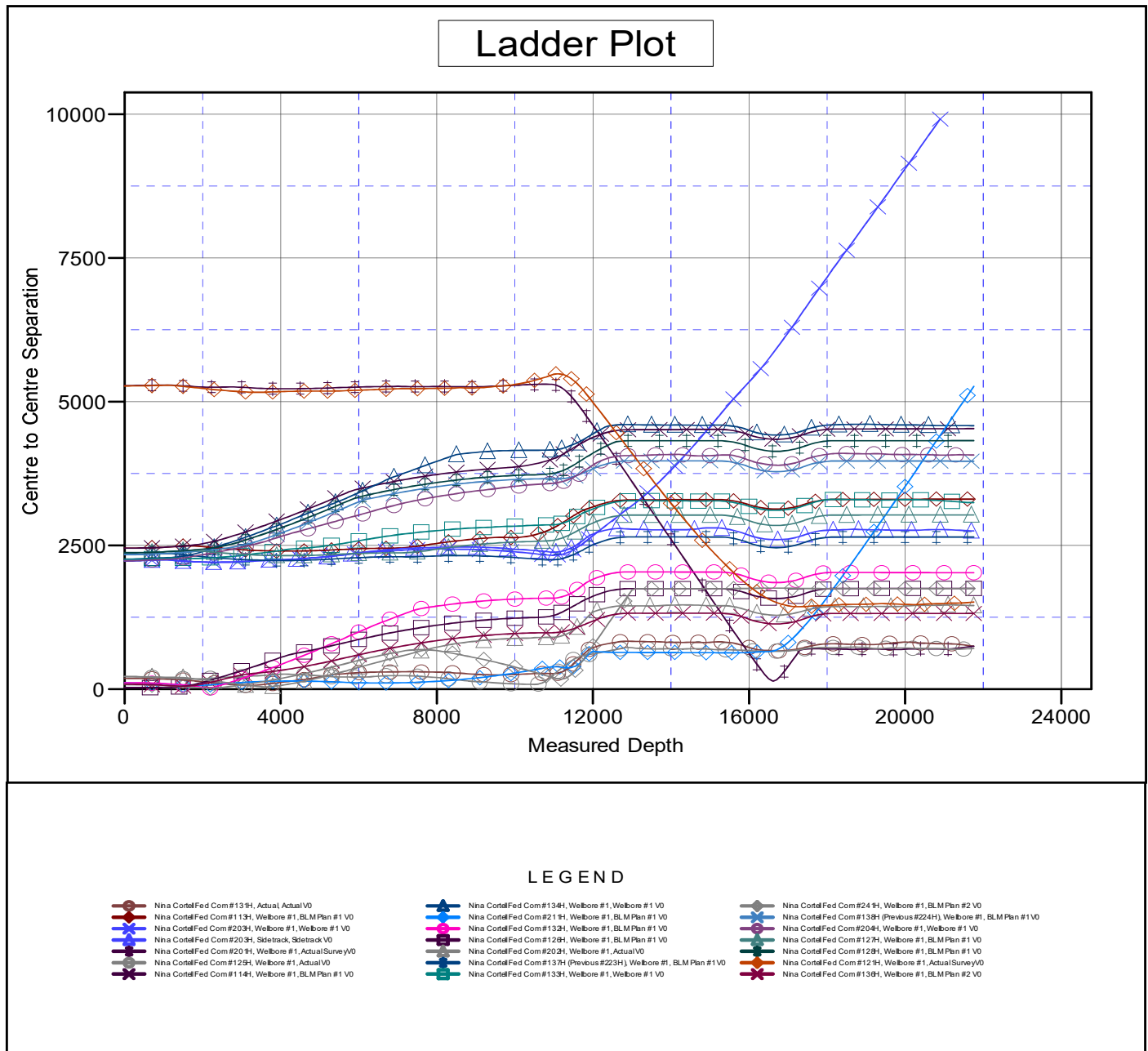
Coordinates are relative to: Nina Cortell Fed Com #135H

Offset Depths are relative to Offset Datum

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

Central Meridian is 104° 20' 0.000 W

Grid Convergence at Surface is: 0.36°



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

Anticollision Report

Company: Matador Production Company
Project: Antelope Ridge
Reference Site: Nina Cortell
Site Error: 0.0 usft
Reference Well: Nina Cortell Fed Com #135H
Well Error: 0.0 usft
Reference Wellbore: Wellbore #1
Reference Design: BLM Plan #2

Local Co-ordinate Reference: Well Nina Cortell Fed Com #135H
TVD Reference: KB @ 3818.5usft (Original Well Elev)
MD Reference: KB @ 3818.5usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3818.5usft (Original Well Elev)

Offset Depths are relative to Offset Datum

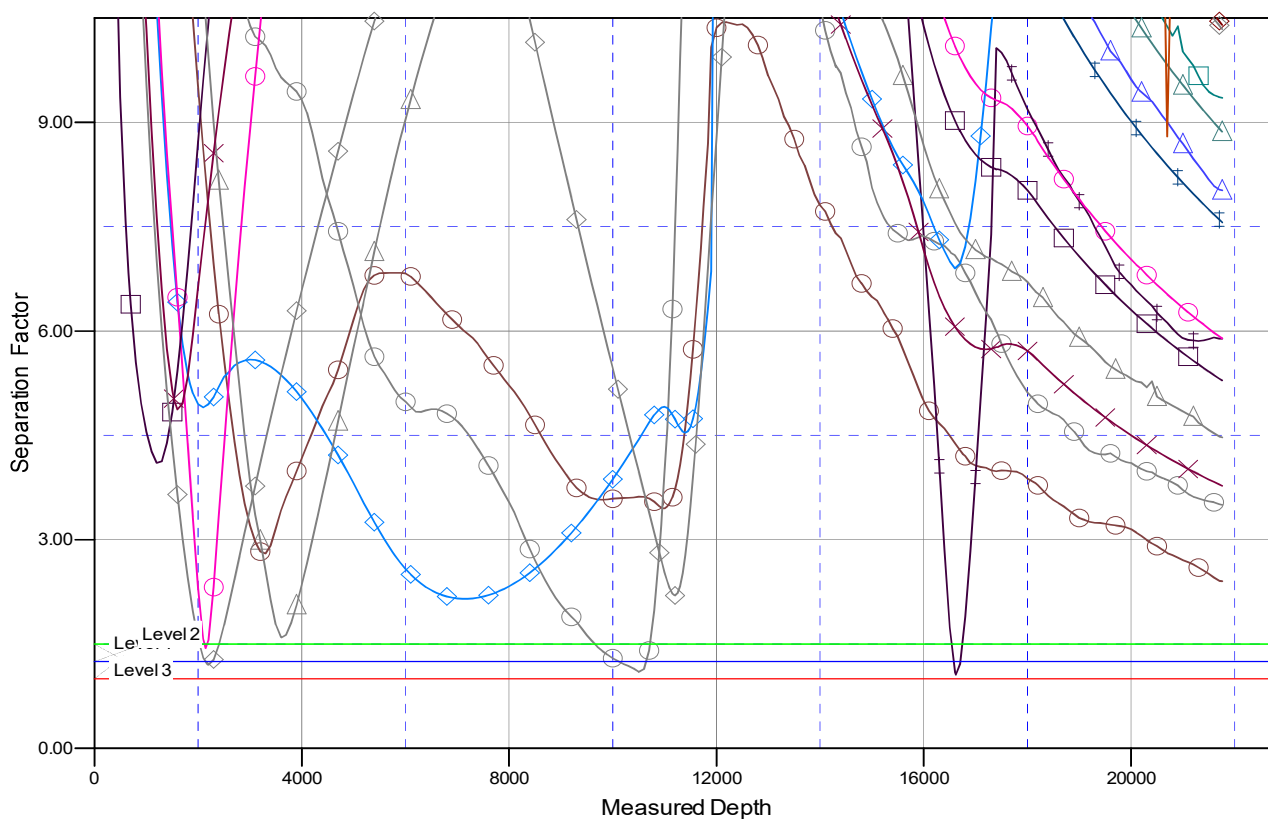
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Nina Cortell Fed Com #135H

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

Grid Convergence at Surface is: 0.36°

Separation Factor Plot



LEGEND

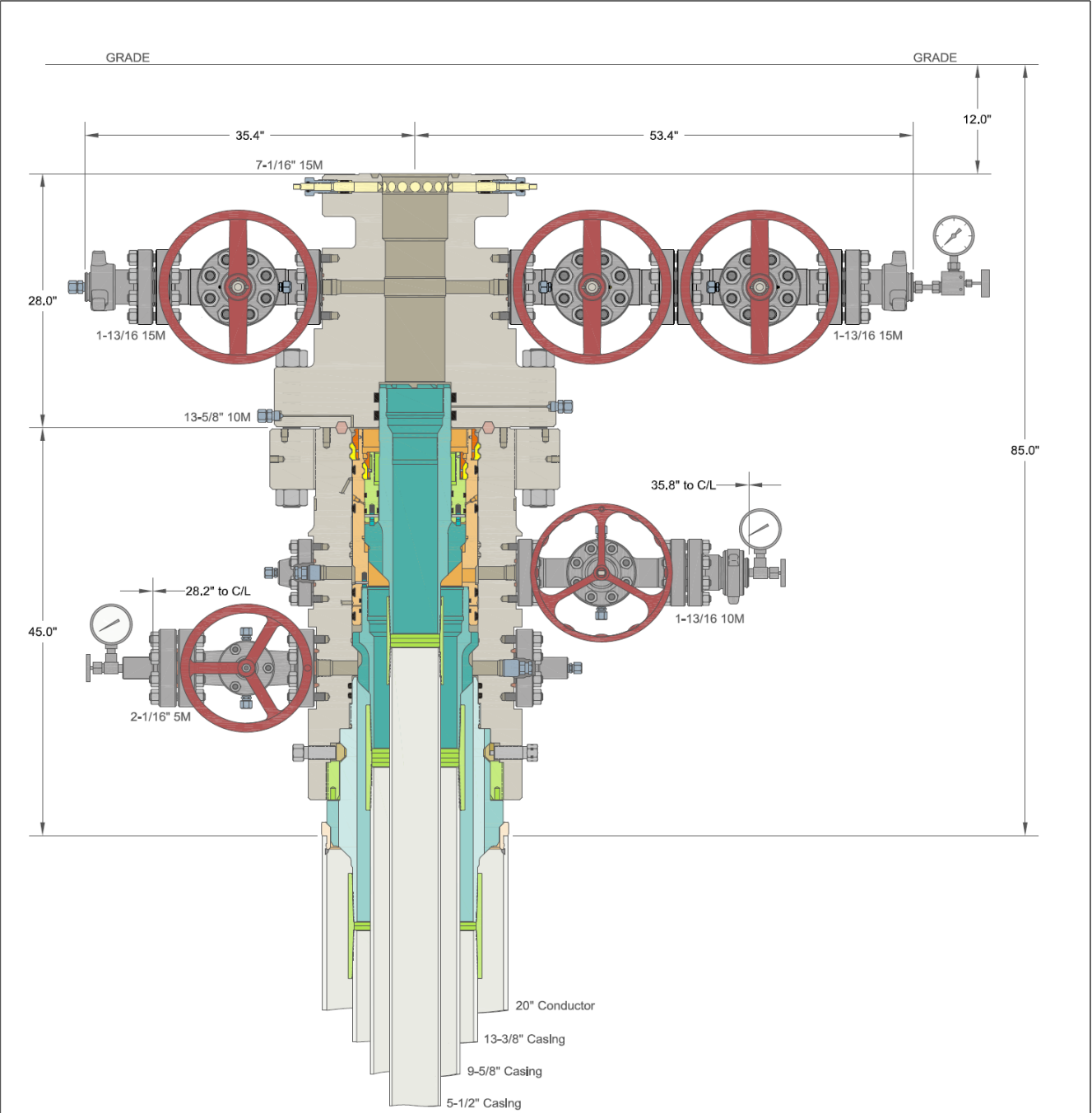
Nina Cortell Fed Com #131H, Actual/Actual V0
 Nina Cortell Fed Com #131H, Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #203H, Wellbore #1, Wellbore #1 V0
 Nina Cortell Fed Com #203H, Sidetrack, Sidetrack V0
 Nina Cortell Fed Com #201H, Wellbore #1, Actual/Survey V0
 Nina Cortell Fed Com #123H, Wellbore #1, Actual V0
 Nina Cortell Fed Com #123H, Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #124H, Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #241H, Wellbore #1, BLM Plan #2 V0
 Nina Cortell Fed Com #138H (Previous #224H), Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #204H, Wellbore #1, Wellbore #1 V0
 Nina Cortell Fed Com #127H, Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #128H, Wellbore #1, BLM Plan #1 V0
 Nina Cortell Fed Com #128H, Wellbore #1, Actual/Survey V0
 Nina Cortell Fed Com #121H, Wellbore #1, Actual V0
 Nina Cortell Fed Com #133H, Wellbore #1, Wellbore #1 V0
 Nina Cortell Fed Com #135H, Wellbore #1, BLM Plan #2 V0

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

3-String Wellhead Diagram

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10

Township/Range: 22S 32E
Elevation Above Sea Level: 3,790"



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC		MATADOR PRODUCTION COMPANY NEW MEXICO	
13-3/8" x 9-5/8" x 5-1/2" MBU-3T Wellhead System With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers		DRAWN	DLE
		APPRV	11OCT21
		DRAWING NO.	HBE0000605

Modified BOP Testing Procedure for Batch Drilling

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10

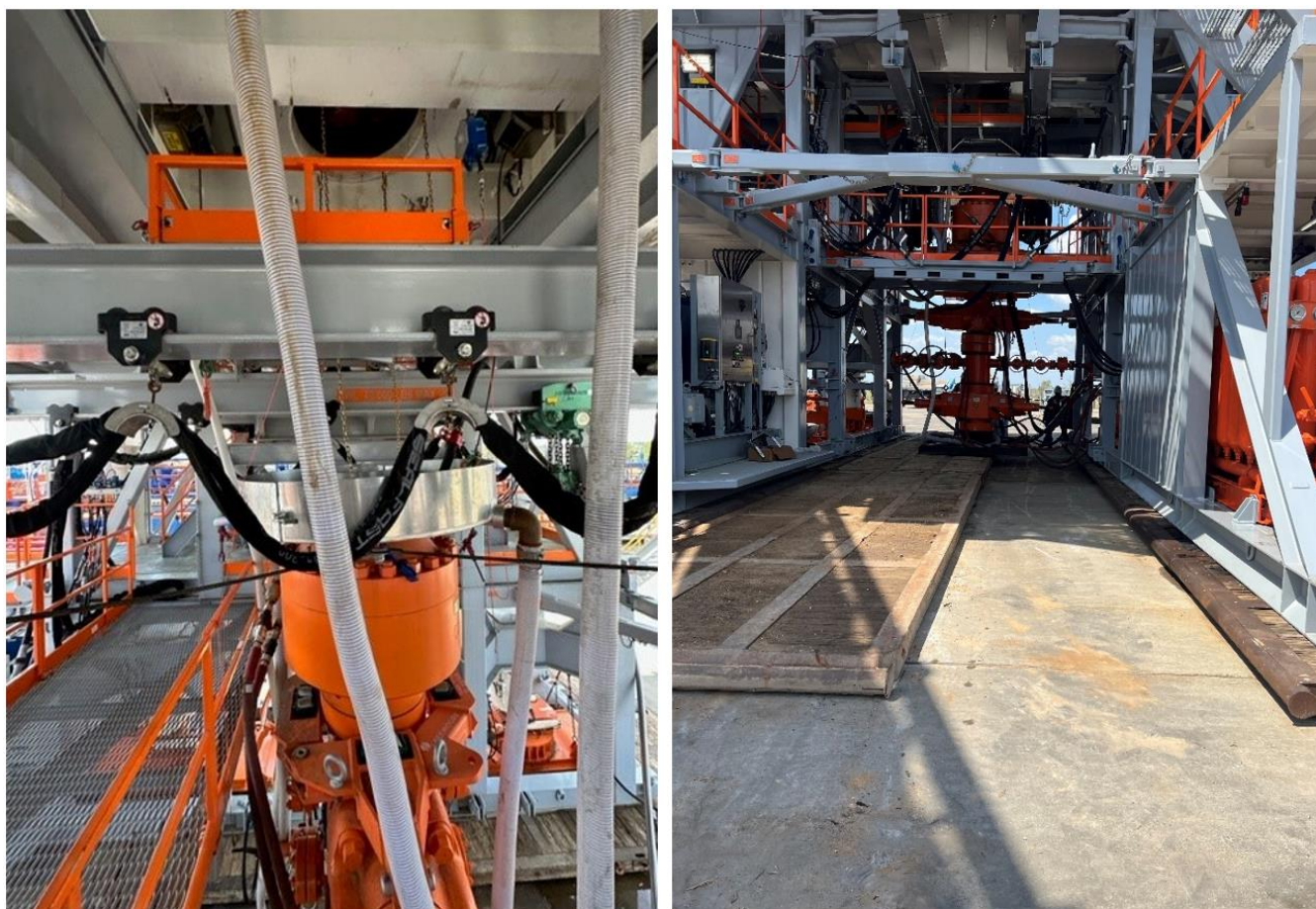
Township/Range: 22S 32E
Elevation Above Sea Level: 3,790"

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

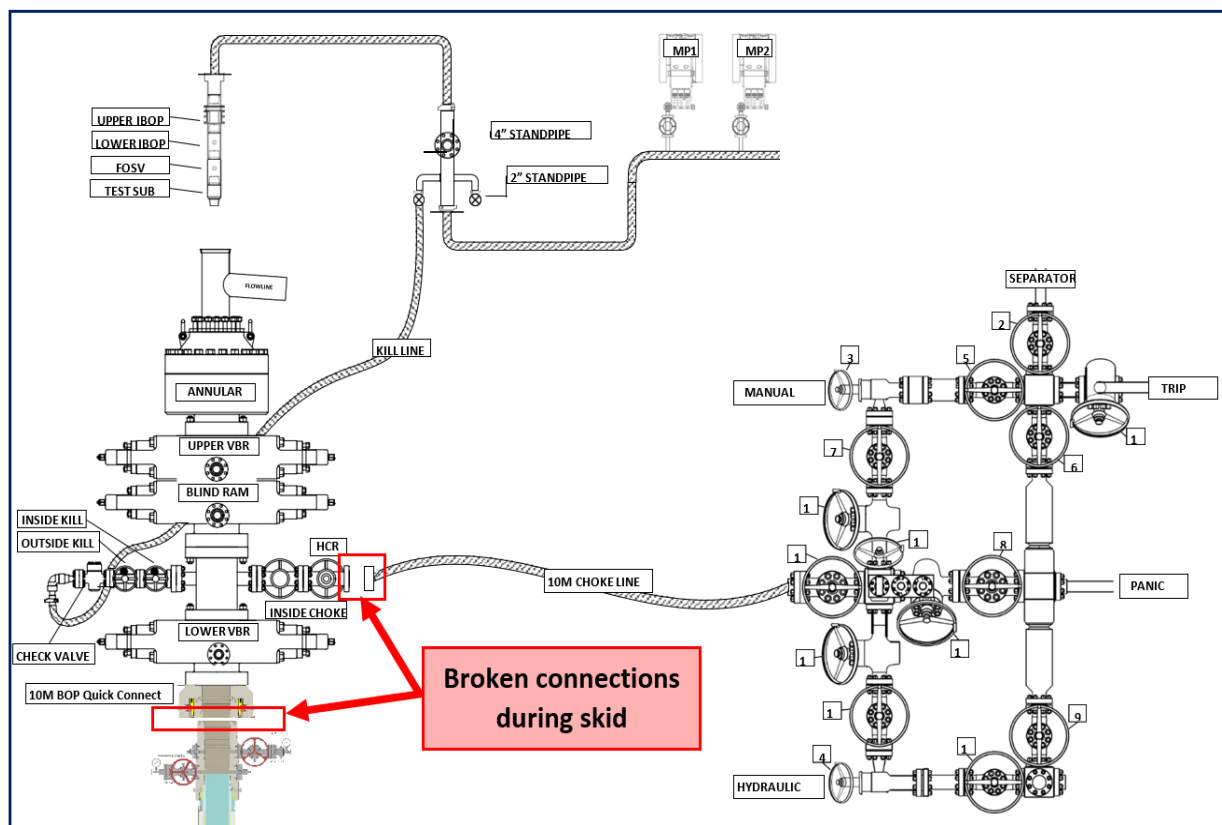


Figure 3: Shows which connections are broken during the skidding process

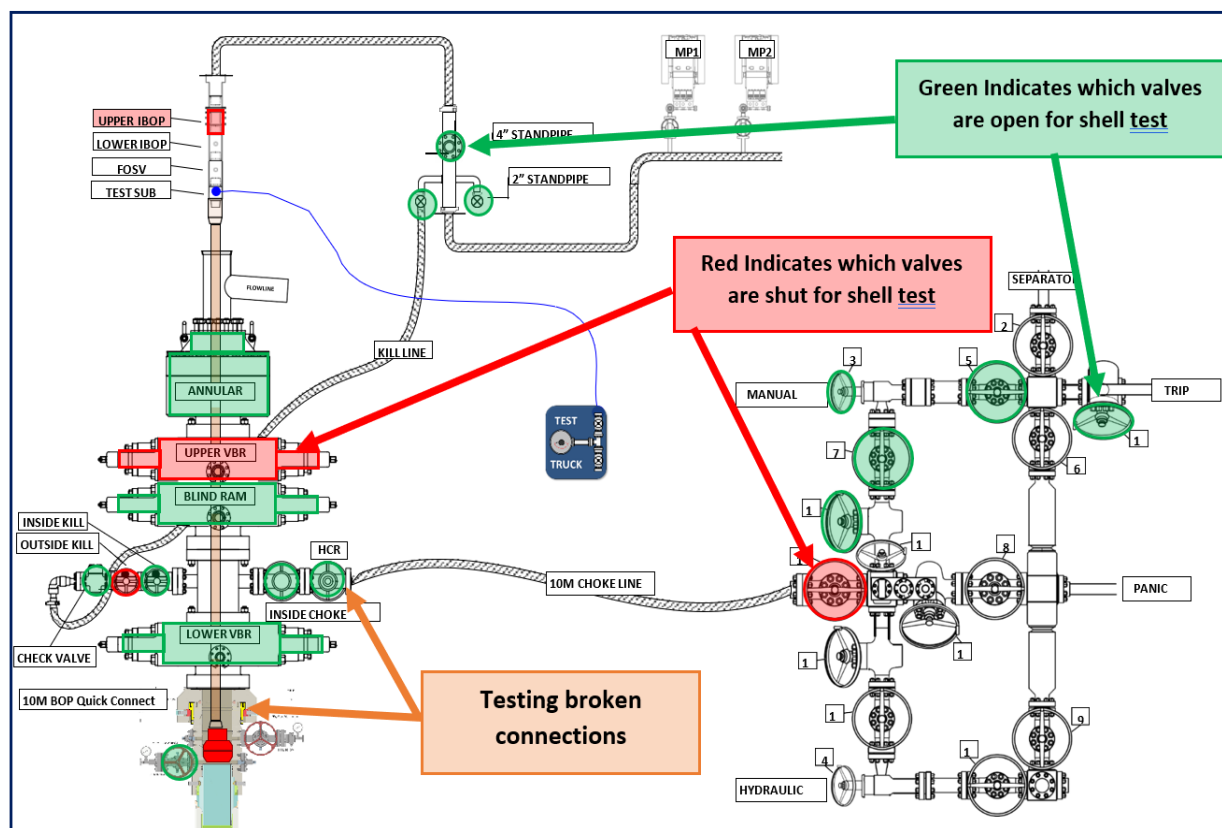


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

Offline Cementing - Intermediate Casing

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10

Township/Range: 22S 32E
Elevation Above Sea Level: 3,790"

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.

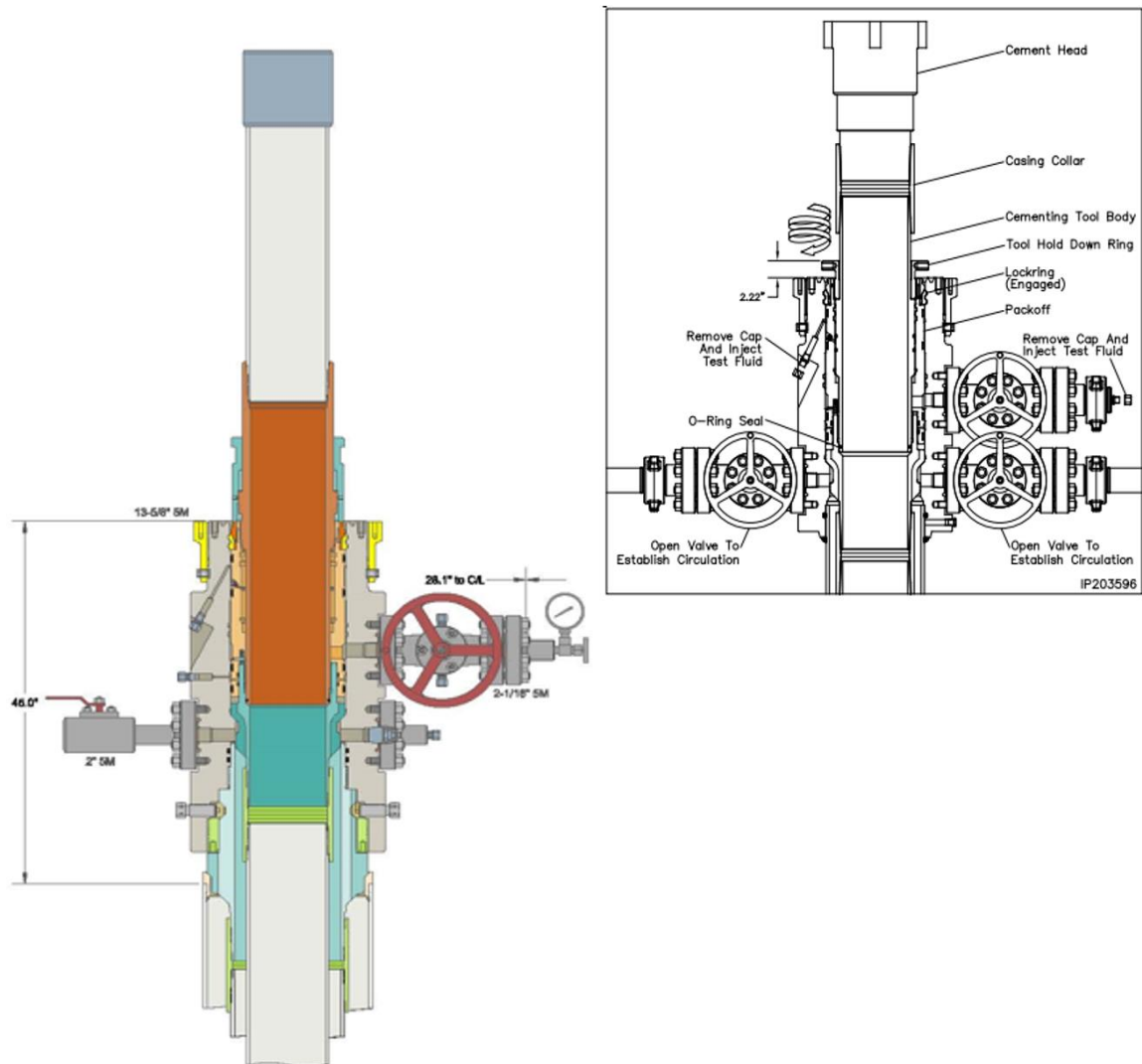
Offline Cementing Procedure

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

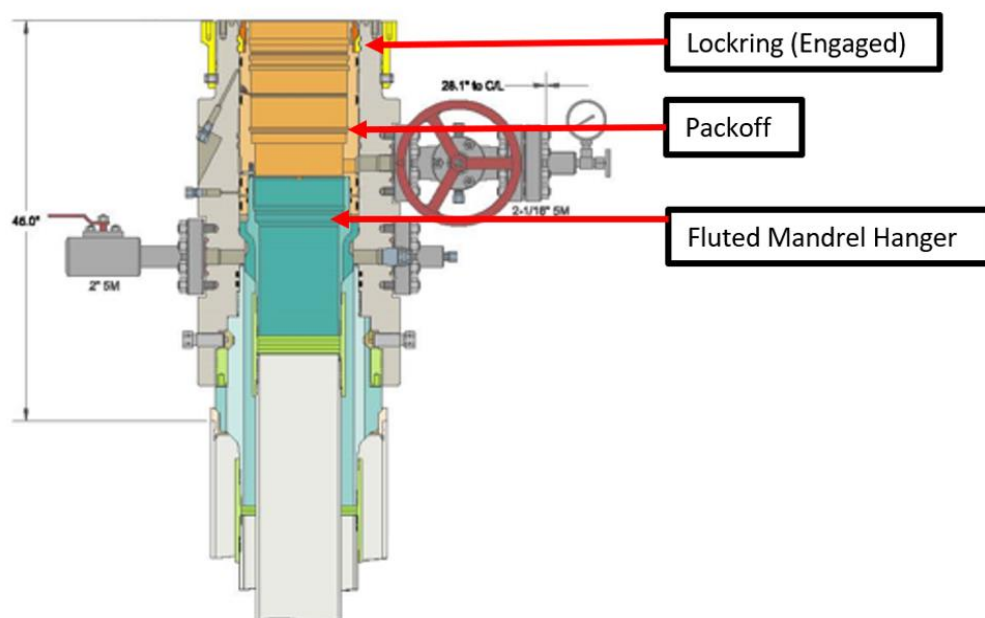
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



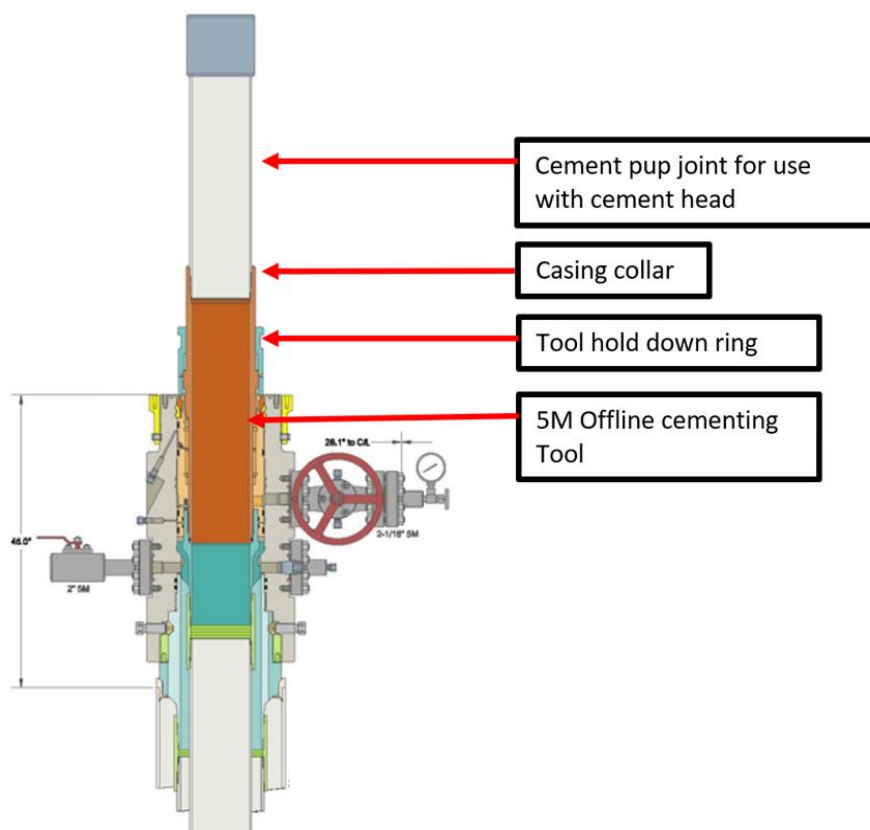
Offline Cementing - Intermediate Casing

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.

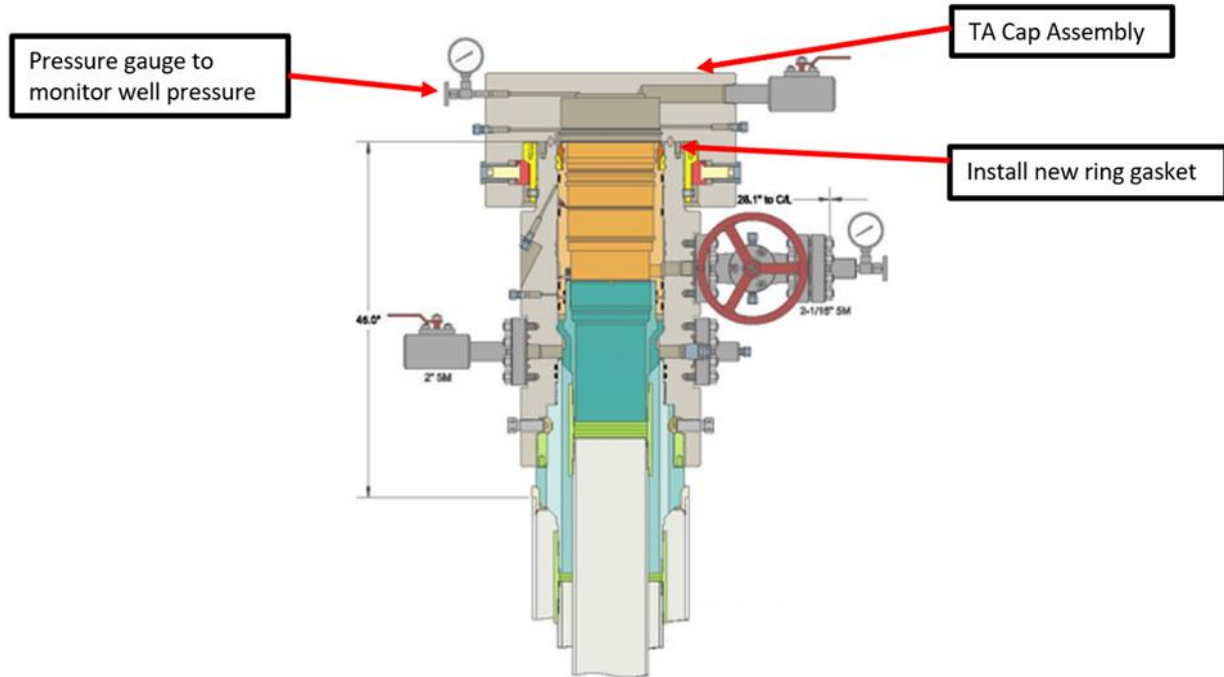


Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing

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



Matador Production Company

Antelope Ridge

Nina Cortell

Nina Cortell Fed Com #135H

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 #135H
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 #135H	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 #135H					
Well Position	+N/-S	32.6 usft	Northing:	509,731.03 usft	Latitude:	32° 23' 58.538 N
	+E/-W	220.0 usft	Easting:	706,218.11 usft	Longitude:	103° 39' 54.702 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	47,341.93770516

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	21,757.9	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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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 #135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

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	
5,180.6	9.78	255.94	5,155.5	-107.2	-427.8	0.19	0.19	0.00	255.94	
5,755.0	9.78	255.94	5,721.5	-130.9	-522.4	0.00	0.00	0.00	0.00	
10,935.6	0.00	0.00	10,877.0	-238.1	-950.2	0.19	-0.19	0.00	180.00	KOP - Nina Cortell Fe
11,835.6	90.00	338.42	11,450.0	294.7	-1,161.0	10.00	10.00	0.00	338.42	
12,892.5	90.00	359.56	11,450.0	1,326.4	-1,361.7	2.00	0.00	2.00	90.00	
13,888.8	90.00	359.56	11,450.0	2,322.6	-1,369.4	0.00	0.00	0.00	0.00	BPP2 - Nina Cortell Fe
15,236.3	90.00	359.56	11,450.0	3,670.1	-1,379.7	0.00	0.00	0.00	0.00	
15,716.6	90.00	9.17	11,450.0	4,148.4	-1,343.2	2.00	0.00	2.00	89.99	Z1 - Nina Cortell Fed
16,926.3	90.00	344.97	11,450.0	5,347.6	-1,404.7	2.00	0.00	-2.00	-90.00	
17,730.0	90.00	1.04	11,450.0	6,142.6	-1,502.2	2.00	0.00	2.00	90.00	
21,748.0	90.00	1.04	11,450.0	10,160.0	-1,429.1	0.00	0.00	0.00	0.00	BHL - Nina Cortell Fe

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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	0.19	255.94	100.0	0.0	-0.2	0.0	0.19	0.19	0.00
200.0	0.38	255.94	200.0	-0.2	-0.6	-0.2	0.19	0.19	0.00
300.0	0.57	255.94	300.0	-0.4	-1.4	-0.3	0.19	0.19	0.00
400.0	0.76	255.94	400.0	-0.6	-2.6	-0.6	0.19	0.19	0.00
500.0	0.94	255.94	500.0	-1.0	-4.0	-1.0	0.19	0.19	0.00
600.0	1.13	255.94	600.0	-1.4	-5.8	-1.4	0.19	0.19	0.00
700.0	1.32	255.94	699.9	-2.0	-7.8	-1.9	0.19	0.19	0.00
800.0	1.51	255.94	799.9	-2.6	-10.2	-2.5	0.19	0.19	0.00
900.0	1.70	255.94	899.9	-3.2	-12.9	-3.1	0.19	0.19	0.00
928.4	1.75	255.94	928.2	-3.4	-13.8	-3.3	0.19	0.19	0.00
Z(Rustler)									
1,000.0	1.89	255.94	999.8	-4.0	-16.0	-3.9	0.19	0.19	0.00
1,100.0	2.08	255.94	1,099.8	-4.8	-19.3	-4.7	0.19	0.19	0.00
1,200.0	2.27	255.94	1,199.7	-5.8	-23.0	-5.6	0.19	0.19	0.00
1,252.7	2.36	255.94	1,252.3	-6.3	-25.1	-6.1	0.19	0.19	0.00
Z (Salado) (Top Salt)									
1,300.0	2.45	255.94	1,299.6	-6.8	-27.0	-6.6	0.19	0.19	0.00
1,400.0	2.64	255.94	1,399.5	-7.8	-31.3	-7.6	0.19	0.19	0.00
1,500.0	2.83	255.94	1,499.4	-9.0	-35.9	-8.7	0.19	0.19	0.00
1,600.0	3.02	255.94	1,599.3	-10.2	-40.9	-9.9	0.19	0.19	0.00
1,700.0	3.21	255.94	1,699.1	-11.6	-46.2	-11.2	0.19	0.19	0.00
1,800.0	3.40	255.94	1,798.9	-13.0	-51.8	-12.6	0.19	0.19	0.00
1,900.0	3.59	255.94	1,898.8	-14.4	-57.7	-14.0	0.19	0.19	0.00
2,000.0	3.78	255.94	1,998.6	-16.0	-63.9	-15.5	0.19	0.19	0.00
2,100.0	3.96	255.94	2,098.3	-17.6	-70.4	-17.1	0.19	0.19	0.00
2,200.0	4.15	255.94	2,198.1	-19.4	-77.3	-18.8	0.19	0.19	0.00
2,300.0	4.34	255.94	2,297.8	-21.2	-84.5	-20.5	0.19	0.19	0.00
2,400.0	4.53	255.94	2,397.5	-23.0	-92.0	-22.3	0.19	0.19	0.00
2,500.0	4.72	255.94	2,497.2	-25.0	-99.8	-24.2	0.19	0.19	0.00
2,600.0	4.91	255.94	2,596.8	-27.0	-107.9	-26.2	0.19	0.19	0.00
2,700.0	5.10	255.94	2,696.4	-29.2	-116.4	-28.3	0.19	0.19	0.00
2,800.0	5.29	255.94	2,796.0	-31.4	-125.2	-30.4	0.19	0.19	0.00
2,900.0	5.47	255.94	2,895.6	-33.6	-134.3	-32.6	0.19	0.19	0.00
3,000.0	5.66	255.94	2,995.1	-36.0	-143.7	-34.9	0.19	0.19	0.00
3,100.0	5.85	255.94	3,094.6	-38.4	-153.4	-37.3	0.19	0.19	0.00
3,141.6	5.93	255.94	3,135.9	-39.5	-157.6	-38.3	0.19	0.19	0.00
Z (Castile (T))									
3,200.0	6.04	255.94	3,194.1	-41.0	-163.5	-39.7	0.19	0.19	0.00
3,300.0	6.23	255.94	3,293.5	-43.5	-173.8	-42.2	0.19	0.19	0.00
3,400.0	6.42	255.94	3,392.9	-46.2	-184.5	-44.8	0.19	0.19	0.00
3,500.0	6.61	255.94	3,492.2	-49.0	-195.5	-47.5	0.19	0.19	0.00
3,600.0	6.80	255.94	3,591.6	-51.8	-206.8	-50.2	0.19	0.19	0.00
3,700.0	6.98	255.94	3,690.8	-54.7	-218.5	-53.1	0.19	0.19	0.00
3,800.0	7.17	255.94	3,790.1	-57.7	-230.4	-56.0	0.19	0.19	0.00
3,900.0	7.36	255.94	3,889.3	-60.8	-242.7	-58.9	0.19	0.19	0.00
4,000.0	7.55	255.94	3,988.4	-64.0	-255.3	-62.0	0.19	0.19	0.00
4,100.0	7.74	255.94	4,087.5	-67.2	-268.2	-65.1	0.19	0.19	0.00
4,200.0	7.93	255.94	4,186.6	-70.5	-281.4	-68.3	0.19	0.19	0.00
4,300.0	8.12	255.94	4,285.6	-73.9	-294.9	-71.6	0.19	0.19	0.00
4,400.0	8.31	255.94	4,384.6	-77.4	-308.8	-75.0	0.19	0.19	0.00
4,500.0	8.49	255.94	4,483.5	-80.9	-323.0	-78.4	0.19	0.19	0.00
4,600.0	8.68	255.94	4,582.4	-84.5	-337.5	-81.9	0.19	0.19	0.00

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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 #135H	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)
4,700.0	8.87	255.94	4,681.2	-88.2	-352.3	-85.5	0.19	0.19	0.00
4,800.0	9.06	255.94	4,780.0	-92.0	-367.4	-89.2	0.19	0.19	0.00
4,867.6	9.19	255.94	4,846.8	-94.6	-377.8	-91.7	0.19	0.19	0.00
Z (G30:CS14-CSB) (Base of Salt)									
4,900.0	9.25	255.94	4,878.7	-95.9	-382.8	-93.0	0.19	0.19	0.00
5,000.0	9.44	255.94	4,977.4	-99.8	-398.6	-96.8	0.19	0.19	0.00
5,100.0	9.63	255.94	5,076.0	-103.9	-414.6	-100.7	0.19	0.19	0.00
5,137.8	9.70	255.94	5,113.3	-105.4	-420.8	-102.2	0.19	0.19	0.00
Z (G26: Bell Cyn.)									
5,180.6	9.78	255.94	5,155.5	-107.2	-427.8	-103.9	0.19	0.19	0.00
Start 574.4 hold at 5180.6 MD									
5,200.0	9.78	255.94	5,174.6	-108.0	-431.0	-104.7	0.00	0.00	0.00
5,300.0	9.78	255.94	5,273.2	-112.1	-447.5	-108.7	0.00	0.00	0.00
5,400.0	9.78	255.94	5,371.7	-116.2	-463.9	-112.7	0.00	0.00	0.00
5,500.0	9.78	255.94	5,470.2	-120.4	-480.4	-116.7	0.00	0.00	0.00
5,600.0	9.78	255.94	5,568.8	-124.5	-496.9	-120.7	0.00	0.00	0.00
5,700.0	9.78	255.94	5,667.3	-128.6	-513.4	-124.7	0.00	0.00	0.00
5,755.0	9.78	255.94	5,721.5	-130.9	-522.4	-126.9	0.00	0.00	0.00
Start Drop -0.19									
5,800.0	9.69	255.94	5,765.9	-132.7	-529.8	-128.7	0.19	-0.19	0.00
5,801.5	9.69	255.94	5,767.3	-132.8	-530.1	-128.7	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
5,900.0	9.51	255.94	5,864.5	-136.8	-546.0	-132.6	0.19	-0.19	0.00
6,000.0	9.32	255.94	5,963.1	-140.8	-561.9	-136.4	0.19	-0.19	0.00
6,100.0	9.13	255.94	6,061.9	-144.7	-577.4	-140.2	0.19	-0.19	0.00
6,200.0	8.94	255.94	6,160.6	-148.5	-592.6	-143.9	0.19	-0.19	0.00
6,300.0	8.75	255.94	6,259.4	-152.2	-607.5	-147.5	0.19	-0.19	0.00
6,400.0	8.56	255.94	6,358.3	-155.9	-622.1	-151.1	0.19	-0.19	0.00
6,500.0	8.37	255.94	6,457.2	-159.4	-636.4	-154.5	0.19	-0.19	0.00
6,600.0	8.18	255.94	6,556.2	-162.9	-650.4	-157.9	0.19	-0.19	0.00
6,700.0	7.99	255.94	6,655.2	-166.4	-664.0	-161.3	0.19	-0.19	0.00
6,800.0	7.81	255.94	6,754.2	-169.7	-677.4	-164.5	0.19	-0.19	0.00
6,900.0	7.62	255.94	6,853.3	-173.0	-690.4	-167.7	0.19	-0.19	0.00
7,000.0	7.43	255.94	6,952.4	-176.1	-703.1	-170.7	0.19	-0.19	0.00
7,047.2	7.34	255.94	6,999.2	-177.6	-709.0	-172.2	0.19	-0.19	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,100.0	7.24	255.94	7,051.6	-179.2	-715.5	-173.7	0.19	-0.19	0.00
7,200.0	7.05	255.94	7,150.8	-182.3	-727.5	-176.7	0.19	-0.19	0.00
7,300.0	6.86	255.94	7,250.1	-185.2	-739.3	-179.5	0.19	-0.19	0.00
7,400.0	6.67	255.94	7,349.4	-188.1	-750.7	-182.3	0.19	-0.19	0.00
7,500.0	6.48	255.94	7,448.8	-190.9	-761.8	-185.0	0.19	-0.19	0.00
7,600.0	6.30	255.94	7,548.1	-193.6	-772.6	-187.6	0.19	-0.19	0.00
7,700.0	6.11	255.94	7,647.6	-196.2	-783.1	-190.2	0.19	-0.19	0.00
7,800.0	5.92	255.94	7,747.0	-198.7	-793.3	-192.6	0.19	-0.19	0.00
7,900.0	5.73	255.94	7,846.5	-201.2	-803.1	-195.0	0.19	-0.19	0.00
8,000.0	5.54	255.94	7,946.0	-203.6	-812.6	-197.3	0.19	-0.19	0.00
8,100.0	5.35	255.94	8,045.5	-205.9	-821.8	-199.6	0.19	-0.19	0.00
8,200.0	5.16	255.94	8,145.1	-208.1	-830.7	-201.7	0.19	-0.19	0.00
8,300.0	4.97	255.94	8,244.7	-210.3	-839.3	-203.8	0.19	-0.19	0.00
8,400.0	4.79	255.94	8,344.4	-212.3	-847.6	-205.8	0.19	-0.19	0.00
8,500.0	4.60	255.94	8,444.0	-214.3	-855.5	-207.7	0.19	-0.19	0.00
8,600.0	4.41	255.94	8,543.7	-216.2	-863.1	-209.6	0.19	-0.19	0.00
8,700.0	4.22	255.94	8,643.4	-218.1	-870.4	-211.4	0.19	-0.19	0.00

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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 #135H	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)
8,800.0	4.03	255.94	8,743.2	-219.8	-877.4	-213.1	0.19	-0.19	0.00
8,846.1	3.94	255.94	8,789.2	-220.6	-880.5	-213.8	0.19	-0.19	0.00
Z (G4: BSG) (CS9)									
8,900.0	3.84	255.94	8,843.0	-221.5	-884.0	-214.7	0.19	-0.19	0.00
9,000.0	3.65	255.94	8,942.7	-223.1	-890.4	-216.2	0.19	-0.19	0.00
9,100.0	3.46	255.94	9,042.5	-224.6	-896.4	-217.7	0.19	-0.19	0.00
9,200.0	3.28	255.94	9,142.4	-226.0	-902.1	-219.1	0.19	-0.19	0.00
9,300.0	3.09	255.94	9,242.2	-227.4	-907.5	-220.4	0.19	-0.19	0.00
9,400.0	2.90	255.94	9,342.1	-228.6	-912.6	-221.6	0.19	-0.19	0.00
9,500.0	2.71	255.94	9,442.0	-229.8	-917.3	-222.8	0.19	-0.19	0.00
9,600.0	2.52	255.94	9,541.9	-230.9	-921.7	-223.8	0.19	-0.19	0.00
9,700.0	2.33	255.94	9,641.8	-231.9	-925.8	-224.8	0.19	-0.19	0.00
9,800.0	2.14	255.94	9,741.7	-232.9	-929.6	-225.7	0.19	-0.19	0.00
9,900.0	1.95	255.94	9,841.6	-233.8	-933.1	-226.6	0.19	-0.19	0.00
9,934.6	1.89	255.94	9,876.2	-234.0	-934.2	-226.9	0.19	-0.19	0.00
Z (L5.1: FBSC)									
10,000.0	1.77	255.94	9,941.6	-234.6	-936.2	-227.4	0.19	-0.19	0.00
10,100.0	1.58	255.94	10,041.5	-235.3	-939.1	-228.0	0.19	-0.19	0.00
10,200.0	1.39	255.94	10,141.5	-235.9	-941.6	-228.7	0.19	-0.19	0.00
10,225.4	1.34	255.94	10,166.9	-236.0	-942.2	-228.8	0.19	-0.19	0.00
Z (L4.3: SBSC)									
10,300.0	1.20	255.94	10,241.5	-236.4	-943.8	-229.2	0.19	-0.19	0.00
10,400.0	1.01	255.94	10,341.5	-236.9	-945.6	-229.6	0.19	-0.19	0.00
10,500.0	0.82	255.94	10,441.4	-237.3	-947.2	-230.0	0.19	-0.19	0.00
10,600.0	0.63	255.94	10,541.4	-237.6	-948.4	-230.3	0.19	-0.19	0.00
10,603.9	0.63	255.94	10,545.3	-237.6	-948.5	-230.3	0.19	-0.19	0.00
Z (L4.1: SBSC)									
10,700.0	0.44	255.94	10,641.4	-237.8	-949.3	-230.5	0.19	-0.19	0.00
10,800.0	0.26	255.94	10,741.4	-238.0	-949.9	-230.7	0.19	-0.19	0.00
10,900.0	0.07	255.94	10,841.4	-238.1	-950.2	-230.7	0.19	-0.19	0.00
10,935.6	0.00	0.00	10,877.0	-238.1	-950.2	-230.8	0.19	-0.19	292.53
Start Build 10.00 - KOP - Nina Cortell Fed Com #135H									
11,000.0	6.44	338.42	10,941.3	-234.7	-951.6	-227.4	10.00	10.00	-33.50
11,016.5	8.09	338.42	10,957.6	-232.8	-952.3	-225.4	10.00	10.00	0.00
Z (L3.3: TBSC)									
11,100.0	16.44	338.42	11,039.2	-216.3	-958.8	-208.9	10.00	10.00	0.00
11,185.9	25.04	338.42	11,119.5	-188.0	-970.0	-180.5	10.00	10.00	0.00
FTP - Nina Cortell Fed Com #135H									
11,200.0	26.44	338.42	11,132.1	-182.3	-972.3	-174.8	10.00	10.00	0.00
11,300.0	36.44	338.42	11,217.3	-133.9	-991.4	-126.3	10.00	10.00	0.00
11,400.0	46.44	338.42	11,292.2	-72.4	-1,015.7	-64.6	10.00	10.00	0.00
11,500.0	56.44	338.42	11,354.5	0.2	-1,044.5	8.2	10.00	10.00	0.00
11,600.0	66.44	338.42	11,402.2	81.8	-1,076.7	90.1	10.00	10.00	0.00
11,700.0	76.44	338.42	11,434.0	169.8	-1,111.6	178.4	10.00	10.00	0.00
11,800.0	86.44	338.42	11,448.9	261.7	-1,147.9	270.5	10.00	10.00	0.00
11,835.6	90.00	338.42	11,450.0	294.7	-1,161.0	303.6	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00									
11,900.0	90.00	339.71	11,450.0	354.9	-1,184.0	364.0	2.00	0.00	2.00
12,000.0	90.00	341.71	11,450.0	449.3	-1,217.0	458.6	2.00	0.00	2.00
12,100.0	90.00	343.71	11,450.0	544.8	-1,246.7	554.3	2.00	0.00	2.00
12,200.0	90.00	345.71	11,450.0	641.2	-1,273.1	651.0	2.00	0.00	2.00
12,300.0	90.00	347.71	11,450.0	738.5	-1,296.1	748.5	2.00	0.00	2.00
12,400.0	90.00	349.71	11,450.0	836.6	-1,315.7	846.7	2.00	0.00	2.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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)	
12,500.0	90.00	351.71	11,450.0	935.3	-1,331.8	945.5	2.00	0.00	2.00	
12,597.2	90.00	353.65	11,450.0	1,031.7	-1,344.2	1,042.0	2.00	0.00	2.00	
BPP1 - Nina Cortell Fed Com #135H										
12,600.0	90.00	353.71	11,450.0	1,034.5	-1,344.5	1,044.8	2.00	0.00	2.00	
12,700.0	90.00	355.71	11,450.0	1,134.0	-1,353.7	1,144.4	2.00	0.00	2.00	
12,800.0	90.00	357.71	11,450.0	1,233.9	-1,359.5	1,244.3	2.00	0.00	2.00	
12,892.5	90.00	359.56	11,450.0	1,326.4	-1,361.7	1,336.8	2.00	0.00	2.00	
Start 996.3 hold at 12892.5 MD										
12,900.0	90.00	359.56	11,450.0	1,333.8	-1,361.7	1,344.3	0.00	0.00	0.00	
13,000.0	90.00	359.56	11,450.0	1,433.8	-1,362.5	1,444.3	0.00	0.00	0.00	
13,100.0	90.00	359.56	11,450.0	1,533.8	-1,363.3	1,544.3	0.00	0.00	0.00	
13,200.0	90.00	359.56	11,450.0	1,633.8	-1,364.0	1,644.3	0.00	0.00	0.00	
13,300.0	90.00	359.56	11,450.0	1,733.8	-1,364.8	1,744.3	0.00	0.00	0.00	
13,400.0	90.00	359.56	11,450.0	1,833.8	-1,365.6	1,844.3	0.00	0.00	0.00	
13,500.0	90.00	359.56	11,450.0	1,933.8	-1,366.4	1,944.3	0.00	0.00	0.00	
13,600.0	90.00	359.56	11,450.0	2,033.8	-1,367.1	2,044.3	0.00	0.00	0.00	
13,700.0	90.00	359.56	11,450.0	2,133.8	-1,367.9	2,144.3	0.00	0.00	0.00	
13,800.0	90.00	359.56	11,450.0	2,233.8	-1,368.7	2,244.3	0.00	0.00	0.00	
13,888.8	90.00	359.56	11,450.0	2,322.6	-1,369.4	2,333.1	0.00	0.00	0.00	
Start 1347.5 hold at 13888.8 MD - BPP2 - Nina Cortell Fed Com #135H										
13,900.0	90.00	359.56	11,450.0	2,333.8	-1,369.4	2,344.3	0.00	0.00	0.00	
14,000.0	90.00	359.56	11,450.0	2,433.8	-1,370.2	2,444.3	0.00	0.00	0.00	
14,100.0	90.00	359.56	11,450.0	2,533.8	-1,371.0	2,544.3	0.00	0.00	0.00	
14,200.0	90.00	359.56	11,450.0	2,633.8	-1,371.7	2,644.3	0.00	0.00	0.00	
14,300.0	90.00	359.56	11,450.0	2,733.8	-1,372.5	2,744.3	0.00	0.00	0.00	
14,400.0	90.00	359.56	11,450.0	2,833.8	-1,373.3	2,844.3	0.00	0.00	0.00	
14,500.0	90.00	359.56	11,450.0	2,933.8	-1,374.1	2,944.3	0.00	0.00	0.00	
14,600.0	90.00	359.56	11,450.0	3,033.8	-1,374.8	3,044.3	0.00	0.00	0.00	
14,700.0	90.00	359.56	11,450.0	3,133.8	-1,375.6	3,144.3	0.00	0.00	0.00	
14,800.0	90.00	359.56	11,450.0	3,233.8	-1,376.4	3,244.3	0.00	0.00	0.00	
14,900.0	90.00	359.56	11,450.0	3,333.8	-1,377.1	3,344.3	0.00	0.00	0.00	
15,000.0	90.00	359.56	11,450.0	3,433.8	-1,377.9	3,444.3	0.00	0.00	0.00	
15,100.0	90.00	359.56	11,450.0	3,533.8	-1,378.7	3,544.3	0.00	0.00	0.00	
15,200.0	90.00	359.56	11,450.0	3,633.8	-1,379.4	3,644.3	0.00	0.00	0.00	
15,236.3	90.00	359.56	11,450.0	3,670.1	-1,379.7	3,680.5	0.00	0.00	0.00	
Start DLS 2.00 TFO 89.99										
15,300.0	90.00	0.83	11,450.0	3,733.8	-1,379.5	3,744.2	2.00	0.00	2.00	
15,400.0	90.00	2.83	11,450.0	3,833.7	-1,376.3	3,844.2	2.00	0.00	2.00	
15,500.0	90.00	4.83	11,450.0	3,933.5	-1,369.6	3,943.9	2.00	0.00	2.00	
15,600.0	90.00	6.83	11,450.0	4,033.0	-1,359.5	4,043.3	2.00	0.00	2.00	
15,700.0	90.00	8.83	11,450.0	4,132.0	-1,345.8	4,142.2	2.00	0.00	2.00	
15,716.6	90.00	9.17	11,450.0	4,148.4	-1,343.2	4,158.6	2.00	0.00	2.00	
15,800.0	90.00	7.50	11,450.0	4,230.9	-1,331.2	4,241.0	2.00	0.00	-2.00	
15,900.0	90.00	5.50	11,450.0	4,330.3	-1,319.8	4,340.3	2.00	0.00	-2.00	
15,966.5	90.00	4.17	11,450.0	4,396.5	-1,314.2	4,406.5	2.00	0.00	-2.00	
Start Turn -2.00										
16,000.0	90.00	3.50	11,450.0	4,430.0	-1,312.0	4,439.9	2.00	0.00	-2.00	
16,100.0	90.00	1.50	11,450.0	4,529.9	-1,307.6	4,539.8	2.00	0.00	-2.00	
16,200.0	90.00	359.50	11,450.0	4,629.9	-1,306.8	4,639.8	2.00	0.00	-2.00	
16,300.0	90.00	357.50	11,450.0	4,729.8	-1,309.4	4,739.7	2.00	0.00	-2.00	
16,400.0	90.00	355.50	11,450.0	4,829.6	-1,315.5	4,839.6	2.00	0.00	-2.00	
16,500.0	90.00	353.50	11,450.0	4,929.2	-1,325.1	4,939.2	2.00	0.00	-2.00	
16,546.7	90.00	352.56	11,450.0	4,975.5	-1,330.8	4,985.6	2.00	0.00	-2.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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)	
Z2 - Nina Cortell Fed Com #135H										
16,563.1	90.00	352.23	11,450.0	4,991.8	-1,332.9	5,001.9	2.00	0.00	-2.00	
BPP3 - Nina Cortell Fed Com #135H										
16,593.3	90.00	351.63	11,450.0	5,021.7	-1,337.2	5,031.8	2.00	0.00	-2.00	
Z1 - Nina Cortell Fed Com #135H										
16,600.0	90.00	351.50	11,450.0	5,028.3	-1,338.2	5,038.4	2.00	0.00	-2.00	
16,700.0	90.00	349.50	11,450.0	5,126.9	-1,354.7	5,137.2	2.00	0.00	-2.00	
16,800.0	90.00	347.50	11,450.0	5,224.9	-1,374.6	5,235.3	2.00	0.00	-2.00	
16,900.0	90.00	345.50	11,450.0	5,322.1	-1,398.0	5,332.7	2.00	0.00	-2.00	
16,926.3	90.00	344.97	11,450.0	5,347.6	-1,404.7	5,358.2	2.00	0.00	-2.00	
17,000.0	90.00	346.44	11,450.0	5,419.0	-1,422.9	5,429.8	2.00	0.00	2.00	
17,100.0	90.00	348.44	11,450.0	5,516.6	-1,444.6	5,527.5	2.00	0.00	2.00	
17,200.0	90.00	350.44	11,450.0	5,614.9	-1,462.9	5,626.0	2.00	0.00	2.00	
17,300.0	90.00	352.44	11,450.0	5,713.8	-1,477.8	5,725.0	2.00	0.00	2.00	
17,400.0	90.00	354.44	11,450.0	5,813.1	-1,489.2	5,824.4	2.00	0.00	2.00	
17,426.1	90.00	354.97	11,450.0	5,839.1	-1,491.6	5,850.4	2.00	0.00	2.00	
Start DLS 2.00 TFO 90.00										
17,500.0	90.00	356.44	11,450.0	5,912.8	-1,497.2	5,924.1	2.00	0.00	2.00	
17,600.0	90.00	358.44	11,450.0	6,012.7	-1,501.6	6,024.0	2.00	0.00	2.00	
17,700.0	90.00	0.44	11,450.0	6,112.7	-1,502.6	6,124.0	2.00	0.00	2.00	
17,730.0	90.00	1.04	11,450.0	6,142.6	-1,502.2	6,154.0	2.00	0.00	2.00	
17,800.0	90.00	1.04	11,450.0	6,212.7	-1,500.9	6,224.0	0.00	0.00	0.00	
17,900.0	90.00	1.04	11,450.0	6,312.7	-1,499.1	6,324.0	0.00	0.00	0.00	
18,000.0	90.00	1.04	11,450.0	6,412.6	-1,497.3	6,423.9	0.00	0.00	0.00	
18,100.0	90.00	1.04	11,450.0	6,512.6	-1,495.5	6,523.9	0.00	0.00	0.00	
18,155.7	90.00	1.04	11,450.0	6,568.3	-1,494.5	6,579.6	0.00	0.00	0.00	
Start 3602.1 hold at 18155.7 MD										
18,200.0	90.00	1.04	11,450.0	6,612.6	-1,493.6	6,623.9	0.00	0.00	0.00	
18,300.0	90.00	1.04	11,450.0	6,712.6	-1,491.8	6,723.8	0.00	0.00	0.00	
18,400.0	90.00	1.04	11,450.0	6,812.6	-1,490.0	6,823.8	0.00	0.00	0.00	
18,500.0	90.00	1.04	11,450.0	6,912.6	-1,488.2	6,923.8	0.00	0.00	0.00	
18,600.0	90.00	1.04	11,450.0	7,012.5	-1,486.4	7,023.7	0.00	0.00	0.00	
18,700.0	90.00	1.04	11,450.0	7,112.5	-1,484.6	7,123.7	0.00	0.00	0.00	
18,800.0	90.00	1.04	11,450.0	7,212.5	-1,482.7	7,223.7	0.00	0.00	0.00	
18,900.0	90.00	1.04	11,450.0	7,312.5	-1,480.9	7,323.6	0.00	0.00	0.00	
19,000.0	90.00	1.04	11,450.0	7,412.5	-1,479.1	7,423.6	0.00	0.00	0.00	
19,100.0	90.00	1.04	11,450.0	7,512.5	-1,477.3	7,523.6	0.00	0.00	0.00	
19,200.0	90.00	1.04	11,450.0	7,612.4	-1,475.5	7,623.5	0.00	0.00	0.00	
19,219.7	90.00	1.04	11,450.0	7,632.2	-1,475.1	7,643.3	0.00	0.00	0.00	
BPP4 - Nina Cortell Fed Com #135H										
19,300.0	90.00	1.04	11,450.0	7,712.4	-1,473.6	7,723.5	0.00	0.00	0.00	
19,400.0	90.00	1.04	11,450.0	7,812.4	-1,471.8	7,823.5	0.00	0.00	0.00	
19,500.0	90.00	1.04	11,450.0	7,912.4	-1,470.0	7,923.4	0.00	0.00	0.00	
19,600.0	90.00	1.04	11,450.0	8,012.4	-1,468.2	8,023.4	0.00	0.00	0.00	
19,700.0	90.00	1.04	11,450.0	8,112.4	-1,466.4	8,123.4	0.00	0.00	0.00	
19,800.0	90.00	1.04	11,450.0	8,212.3	-1,464.5	8,223.3	0.00	0.00	0.00	
19,900.0	90.00	1.04	11,450.0	8,312.3	-1,462.7	8,323.3	0.00	0.00	0.00	
20,000.0	90.00	1.04	11,450.0	8,412.3	-1,460.9	8,423.3	0.00	0.00	0.00	
20,100.0	90.00	1.04	11,450.0	8,512.3	-1,459.1	8,523.2	0.00	0.00	0.00	
20,200.0	90.00	1.04	11,450.0	8,612.3	-1,457.3	8,623.2	0.00	0.00	0.00	
20,300.0	90.00	1.04	11,450.0	8,712.3	-1,455.4	8,723.2	0.00	0.00	0.00	
20,400.0	90.00	1.04	11,450.0	8,812.2	-1,453.6	8,823.1	0.00	0.00	0.00	
20,500.0	90.00	1.04	11,450.0	8,912.2	-1,451.8	8,923.1	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	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)	
20,600.0	90.00	1.04	11,450.0	9,012.2	-1,450.0	9,023.1	0.00	0.00	0.00	
20,700.0	90.00	1.04	11,450.0	9,112.2	-1,448.2	9,123.0	0.00	0.00	0.00	
20,800.0	90.00	1.04	11,450.0	9,212.2	-1,446.4	9,223.0	0.00	0.00	0.00	
20,900.0	90.00	1.04	11,450.0	9,312.2	-1,444.5	9,323.0	0.00	0.00	0.00	
21,000.0	90.00	1.04	11,450.0	9,412.1	-1,442.7	9,422.9	0.00	0.00	0.00	
21,100.0	90.00	1.04	11,450.0	9,512.1	-1,440.9	9,522.9	0.00	0.00	0.00	
21,200.0	90.00	1.04	11,450.0	9,612.1	-1,439.1	9,622.9	0.00	0.00	0.00	
21,300.0	90.00	1.04	11,450.0	9,712.1	-1,437.3	9,722.8	0.00	0.00	0.00	
21,400.0	90.00	1.04	11,450.0	9,812.1	-1,435.4	9,822.8	0.00	0.00	0.00	
21,500.0	90.00	1.04	11,450.0	9,912.1	-1,433.6	9,922.8	0.00	0.00	0.00	
21,600.0	90.00	1.04	11,450.0	10,012.0	-1,431.8	10,022.7	0.00	0.00	0.00	
21,700.0	90.00	1.04	11,450.0	10,112.0	-1,430.0	10,122.7	0.00	0.00	0.00	
21,748.0	90.00	1.04	11,450.0	10,160.0	-1,429.1	10,170.6	0.00	0.00	0.00	
BHL - Nina Cortell Fed Com #135H										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP - Nina Cortell Fed C - hit/miss target - Shape - Point	0.00	0.00	10,877.0	-238.1	-950.2	509,493.00	705,268.00	32° 23' 56.241 N	103° 40' 5.800 W	
FTP - Nina Cortell Fed C - plan misses target center by 0.2usft at 11185.9usft MD (11119.4 TVD, -188.0 N, -970.0 E) - Point	0.00	0.00	11,119.5	-188.0	-969.8	509,543.10	705,248.43	32° 23' 56.738 N	103° 40' 6.025 W	
BPP1 - Nina Cortell Fed - plan misses target center by 0.3usft at 12597.2usft MD (11450.0 TVD, 1031.7 N, -1344.2 E) - Point	0.00	0.00	11,450.0	1,031.8	-1,343.9	510,762.69	704,874.31	32° 24' 8.829 N	103° 40' 10.300 W	
Z1 - Nina Cortell Fed Co - plan misses target center by 139.3usft at 16593.1usft MD (11450.0 TVD, 5021.5 N, -1337.1 E) - Point	0.00	0.00	11,450.0	5,041.0	-1,199.2	514,771.83	705,018.94	32° 24' 48.492 N	103° 40' 8.322 W	
BHL - Nina Cortell Fed C - plan hits target center - Point	0.00	0.00	11,450.0	10,160.0	-1,429.1	519,891.00	704,789.00	32° 25' 39.163 N	103° 40' 10.634 W	
BPP2 - Nina Cortell Fed - plan hits target center - Point	0.00	0.00	11,450.0	2,322.6	-1,369.4	512,053.46	704,848.86	32° 24' 21.604 N	103° 40' 10.503 W	
BPP4 - Nina Cortell Fed - plan misses target center by 0.4usft at 19219.7usft MD (11450.0 TVD, 7632.2 N, -1475.1 E) - Point	0.00	0.00	11,450.0	7,632.2	-1,474.7	517,363.07	704,743.42	32° 25' 14.151 N	103° 40' 11.349 W	
BPP3 - Nina Cortell Fed - plan misses target center by 0.2usft at 16563.1usft MD (11450.0 TVD, 4991.8 N, -1332.9 E) - Point	0.00	0.00	11,450.0	4,991.8	-1,332.8	514,722.62	704,885.38	32° 24' 48.014 N	103° 40' 9.884 W	
Z2 - Nina Cortell Fed Co - plan misses target center by 124.7usft at 16546.7usft MD (11450.0 TVD, 4975.5 N, -1330.8 E) - Point	0.00	0.00	11,450.0	4,991.8	-1,207.2	514,722.62	705,011.01	32° 24' 48.006 N	103° 40' 8.418 W	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Nina Cortell Fed Com #135H
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 #135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
928.4	928.2	Z(Rustler)		0.00	359.56	
1,252.7	1,252.3	Z (Salado) (Top Salt)		0.00	359.56	
3,141.6	3,135.9	Z (Castile (T))		0.00	359.56	
4,867.6	4,846.8	Z (G30:CS14-CSB) (Base of Salt)		0.00	359.56	
5,137.8	5,113.3	Z (G26: Bell Cyn.)		0.00	359.56	
5,801.5	5,767.3	Z (G13: Cherry Cyn.)		0.00	359.56	
7,047.2	6,999.2	Z (G7: Brushy Cyn.) Antelope Ridge		0.00	359.56	
8,846.1	8,789.2	Z (G4: BSG (CS9))		0.00	359.56	
9,934.6	9,876.2	Z (L5.1: FBSG)		0.00	359.56	
10,225.4	10,166.9	Z (L4.3: SBSC)		0.00	359.56	
10,603.9	10,545.3	Z (L4.1: SBSC)		0.00	359.56	
11,016.5	10,957.6	Z (L3.3: TBSC)		0.00	359.56	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,180.6	5,155.5	-107.2	-427.8	Start 574.4 hold at 5180.6 MD	
5,755.0	5,721.5	-130.9	-522.4	Start Drop -0.19	
10,935.6	10,877.0	-238.1	-950.2	Start Build 10.00	
11,835.6	11,450.0	294.7	-1,161.0	Start DLS 2.00 TFO 90.00	
12,892.5	11,450.0	1,326.4	-1,361.7	Start 996.3 hold at 12892.5 MD	
13,888.8	11,450.0	2,322.6	-1,369.4	Start 1347.5 hold at 13888.8 MD	
15,236.3	11,450.0	3,670.1	-1,379.7	Start DLS 2.00 TFO 89.99	
15,966.5	11,450.0	4,396.5	-1,314.2	Start Turn -2.00	
17,426.1	11,450.0	5,839.1	-1,491.6	Start DLS 2.00 TFO 90.00	
18,155.7	11,450.0	6,568.3	-1,494.5	Start 3602.1 hold at 18155.7 MD	
21,757.9				TD at 21757.9	



SURVEY PROGRAM

WELL DETAILS: Nina Cortell Fed Com #135H

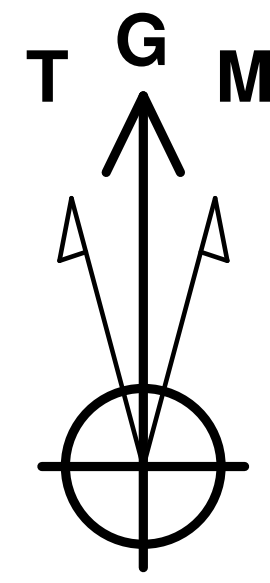
Depth From	Depth To	Survey/Plan	Tool			GL @ 3790.0	KB @ 3818.5usft (Original Well Elev)				Slot
0.0	21757.9	BLM Plan #1 (Wellbore #1)	MWD			Northing 509731.03	Easting 706218.11	Latitude 32° 23' 58.538 N	Longitude 103° 39' 54.702 W		
				+N/-S 0.0	+E/-W 0.0						

DESIGN TARGET DETAILS

Company: Matador Production Company
Well: Nina Cortell Fed Com #135H
County: Lea County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 2/21/2024

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 5.92°
To convert a Magnetic Direction to a True Direction, Add 6.28° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

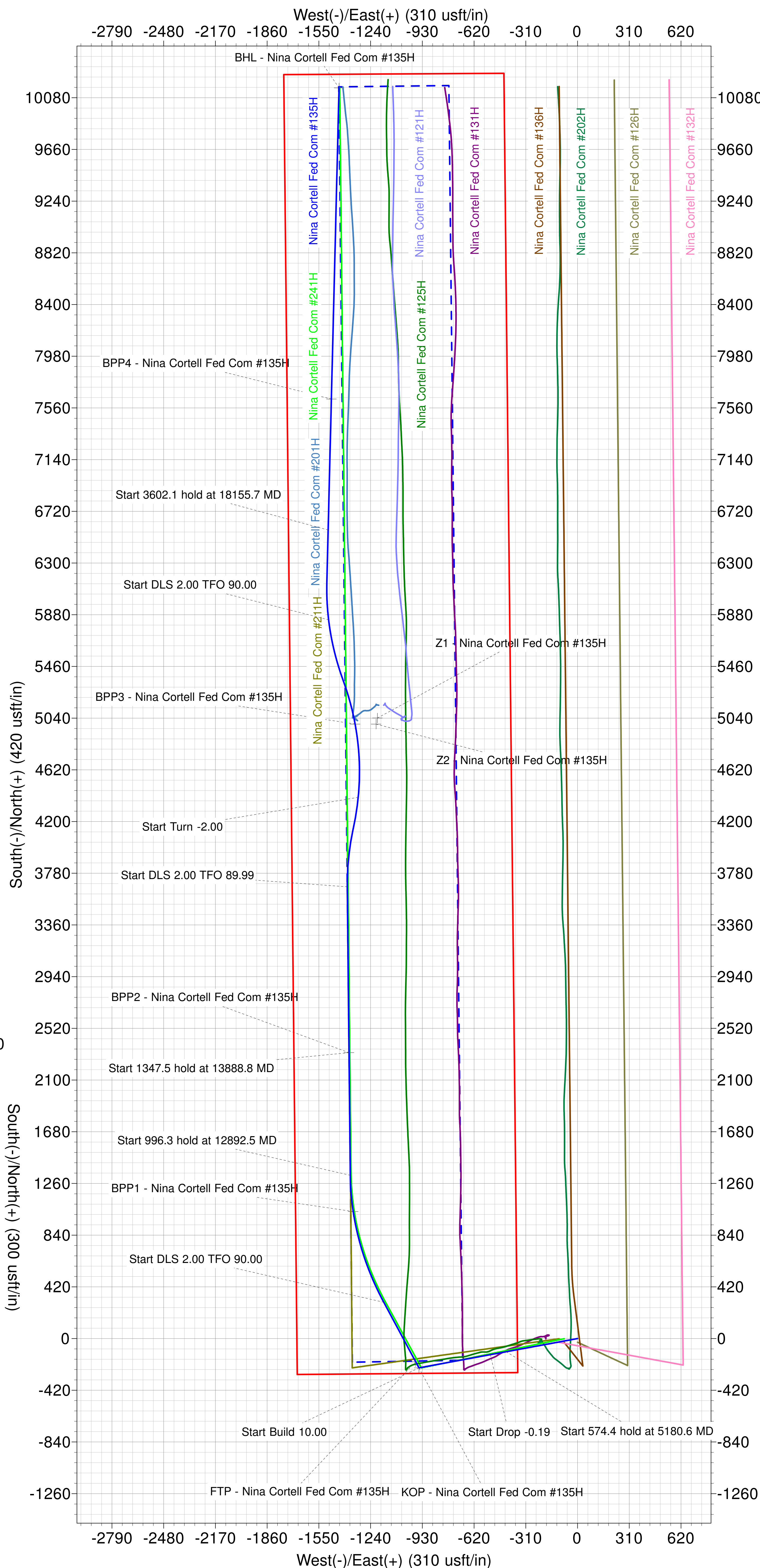
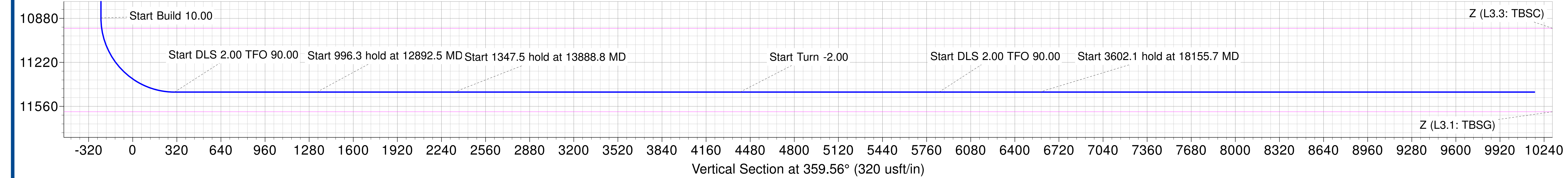
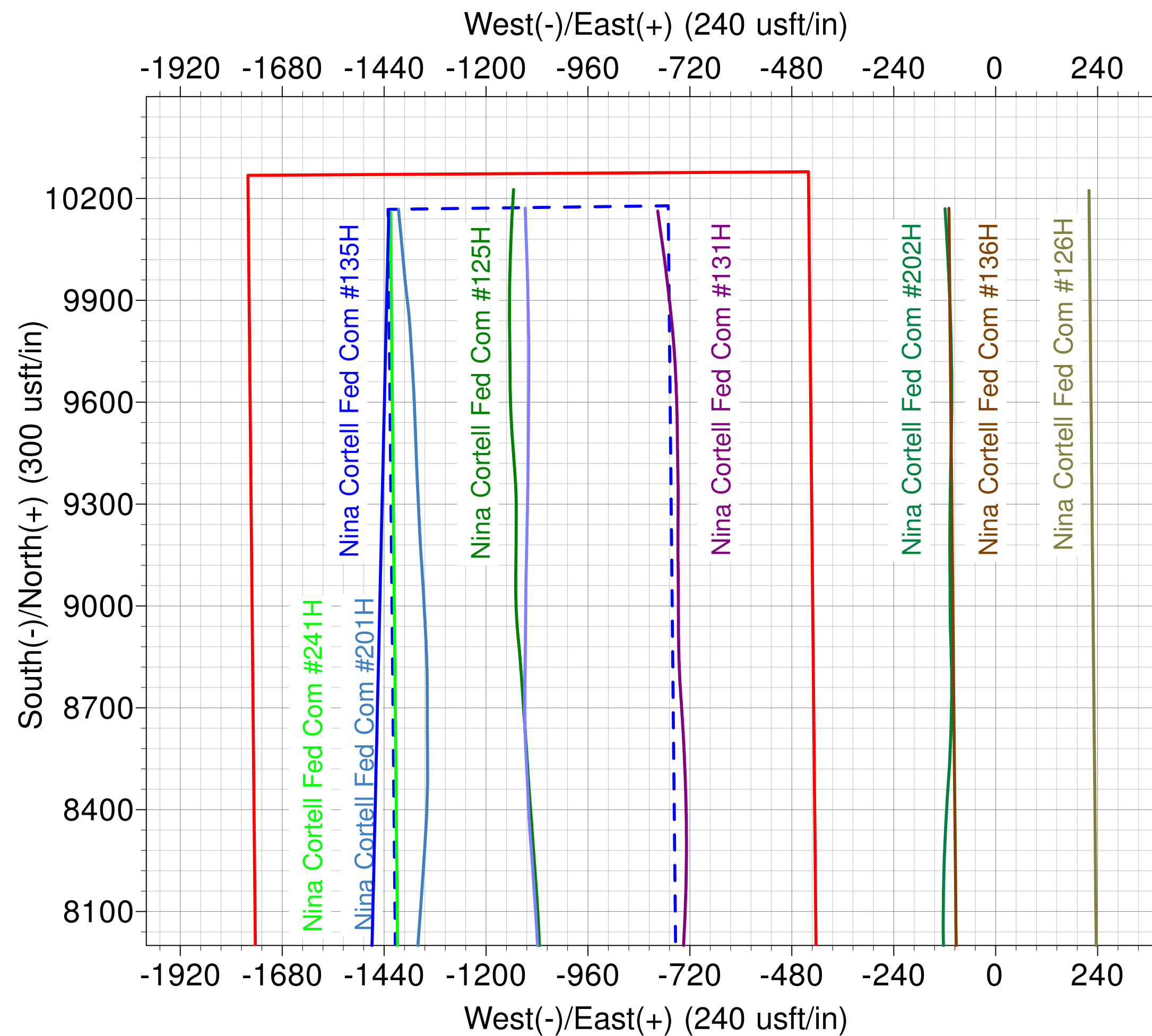
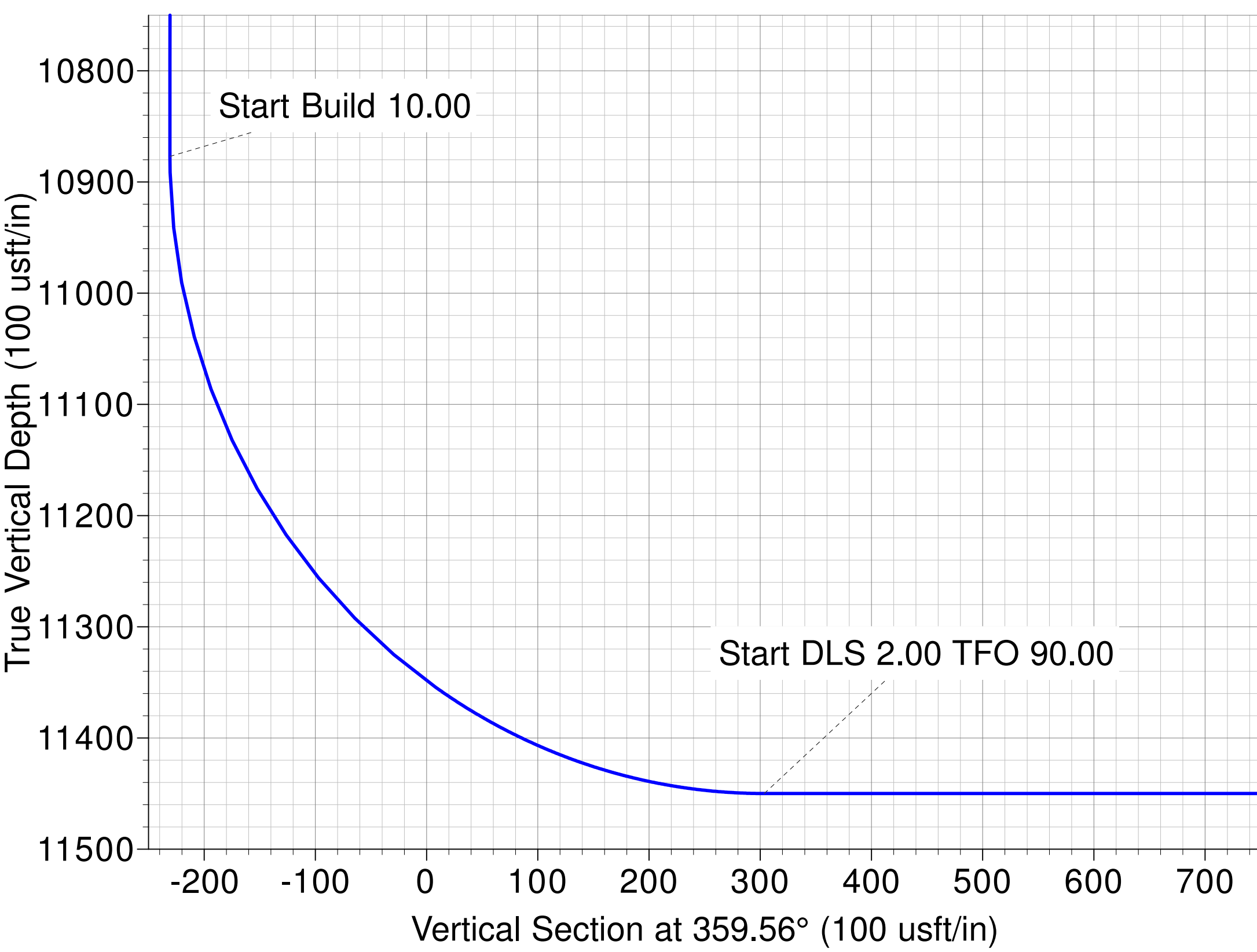
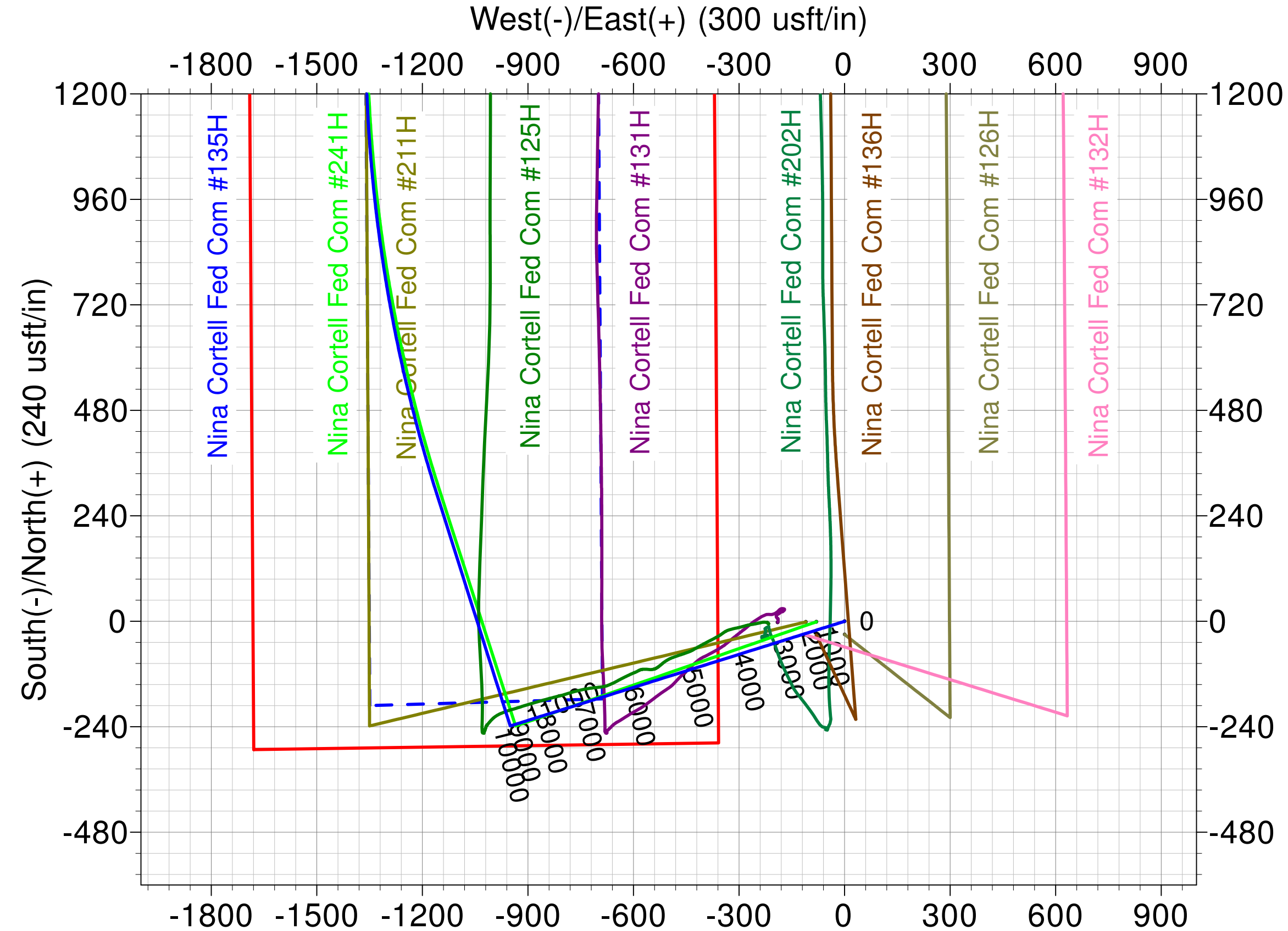
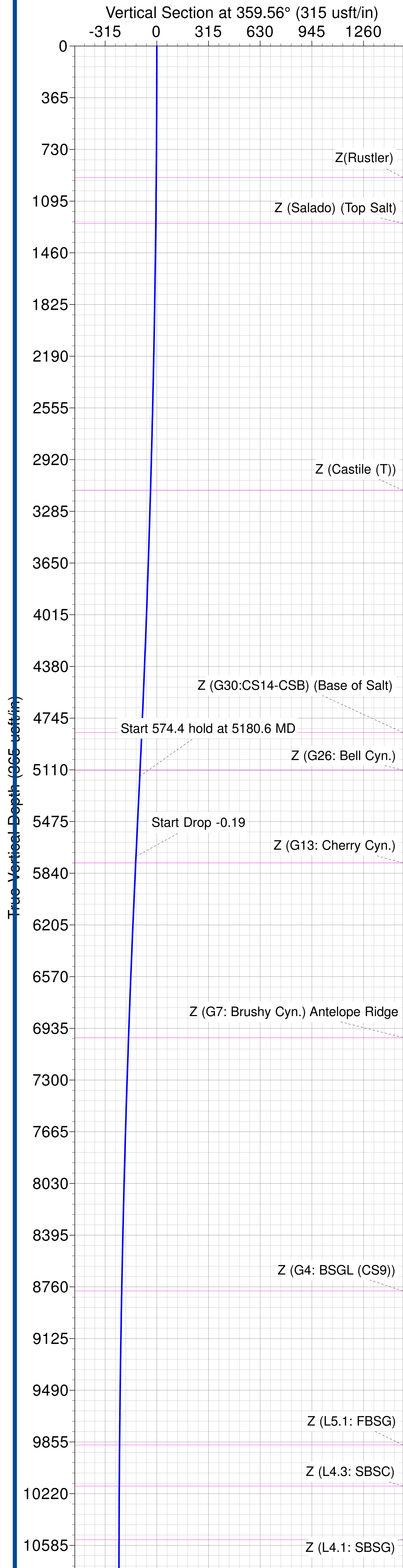


Azimuths to Grid North
True North: -0.36°
Magnetic North: 5.92°

Magnetic Field
Strength: 47341.9snT
Dip Angle: 60.12°
Date: 2/21/2024
Model: IGRF2015

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Nina Cortell Fed Com #135H	10877.0	-238.1	-950.2	509493.00	705268.00	32° 23' 56.241 N	103° 40' 5.800 W
BPP2 - Nina Cortell Fed Com #135H	11450.0	2322.6	-1369.4	512053.46	704848.86	32° 24' 21.604 N	103° 40' 10.503 W
Z1 - Nina Cortell Fed Com #135H	11450.0	5041.0	-1199.2	514771.83	705018.94	32° 24' 48.492 N	103° 40' 8.322 W
BHL - Nina Cortell Fed Com #135H	11450.0	10160.0	-1429.1	519891.00	704789.00	32° 25' 39.163 N	103° 40' 10.634 W
BPP1 - Nina Cortell Fed Com #135H	11450.0	1031.8	-1343.9	510762.68	704874.32	32° 24' 8.829 N	103° 40' 10.300 W
BPP3 - Nina Cortell Fed Com #135H	11450.0	4991.8	-1332.8	514722.62	704885.39	32° 24' 48.014 N	103° 40' 9.884 W
BPP4 - Nina Cortell Fed Com #135H	11450.0	7632.2	-1474.7	517363.07	704743.42	32° 25' 14.151 N	103° 40' 11.349 W
FTP - Nina Cortell Fed Com #135H	11119.5	-188.0	-969.8	509543.09	705248.43	32° 23' 56.738 N	103° 40' 6.025 W
Z2 - Nina Cortell Fed Com #135H	11450.0	4991.8	-1207.2	514722.62	705011.01	32° 24' 48.006 N	103° 40' 8.418 W

MD	Inc	Azi	IVD	+N/-S	+E/-W	Dleg	I-Face	V-Set	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5180.6	9.78	255.94	5155.5	-107.2	-427.8	0.19	255.94	-103.9	Start 574.4 hold at 5180.6 MD
5755.0	9.78	255.94	5721.5	-130.9	-522.4	0.00	0.00	-126.9	Start Drop -0.19
10935.6	0.00	0.00	10877.0	-238.1	-950.2	0.19	180.00	-230.8	Start Build 10.00
11835.6	90.00	338.42	11450.0	294.7	-1161.0	10.00	338.42	303.6	Start DLS 2.00 TFO 90.00
12892.5	90.00	359.56	11450.0	1326.4	-1361.7	2.00	90.00	1336.8	Start 996.3 hold at 12892.5 MD
13888.8	90.00	359.56	11450.0	2322.6	-1369.4	0.00	0.00	2333.1	Start 1347.5 hold at 13888.8 MD
15236.3	90.00	359.56	11450.0	3670.1	-1379.7	0.00	0.00	3680.5	Start DLS 2.00 TFO 89.99
15716.6	90.00	9.17	11450.0	4148.4	-1343.2	2.00	89.99	4158.6	
16926.3	90.00	344.97	11450.0	5347.6	-1404.7	2.00	-90.00	5358.2	
17730.0	90.00	1.04	11450.0	6142.6	-1502.2	2.00	90.00	6154.0	
21748.0	90.00	1.04	11450.0	10160.0	-1429.1	0.00	0.00	10170.6	



Drill Plan

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10
BHL: 110' FNL & 330' FWL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,790'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #112H and make the following changes to the current APD:

- Change well name from the Nina Cortell Fed Com #112H to the Nina Cortell Fed Com #135H
- Change SHL from 242' FSL & 1711' FWL to 272' FSL & 1681' FWL. Surface hole remains on previously approved pad.
- Change BHL from 61' FNL & 1980' FWL to 110' FNL & 330' FWL. All perforations will be within the setback requirements as previously approved.
- Change target zone from First Bone Spring to Third Bone Spring
- Amend casing and cementing plan by changing intermediate 1 casing from 7-5/8" to 9-5/8" and revising set depths as described below.

Drilling Operation Plan

Proposed Drilling Depth: 21748' MD / 11450' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3990858 N / -103.6700603 W

TD Lat/Long (NAD83): 32.4276689 N / -103.6701105 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	3,141	3,135	1,711	Salt	Barren
Lamar (Base of Salt)	4,867	4,846	267	Salt	Barren
Bell Canyon	5,137	5,113	654	Sandstone	Oil/Natural Gas
Cherry Canyon	5,801	5,767	1,232	Sandstone	Oil/Natural Gas
Brushy Canyon	7,047	6,999	1,790	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,846	8,789	1,087	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,934	9,876	290	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,225	10,166	379	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,603	10,545	412	Sandstone	Oil/Natural Gas
KOP	10,935	10,877	-	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	11,016	10,957	-	Carbonate	Oil/Natural Gas
TD	21,748	11,450		Carbonate	Oil/Natural Gas

2. Notable Zones

3rd Bone Spring 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

A 12,000' 5000-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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface 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.

4. Casing & Cement

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

Drill Plan

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 - 4917	0 - 4896	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	8.75	0 - 21748	0 - 11450	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 review

Variance Request

Matador request a variance to wave the centralizer requirement for 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	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	960	1.84	1761	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	370	1.33	495	14.8	50%	3934	A/C	5% NaCl + LCM
Production	Lead	430	3.66	1569	11.5	25%	4717	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	2810	1.35	3798	13.2	25%	10735	A/C	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Drill Plan

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	975 - 4917	9.8 - 10.5	28-30	NC
Production	8.75	OBM/Cut Brine	4917 - 21748	8.8 - 10.5	30-55	<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 each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 6252 psi. Maximum anticipated surface pressure is 3733 psi. Expected bottom hole temperature is 163 F.

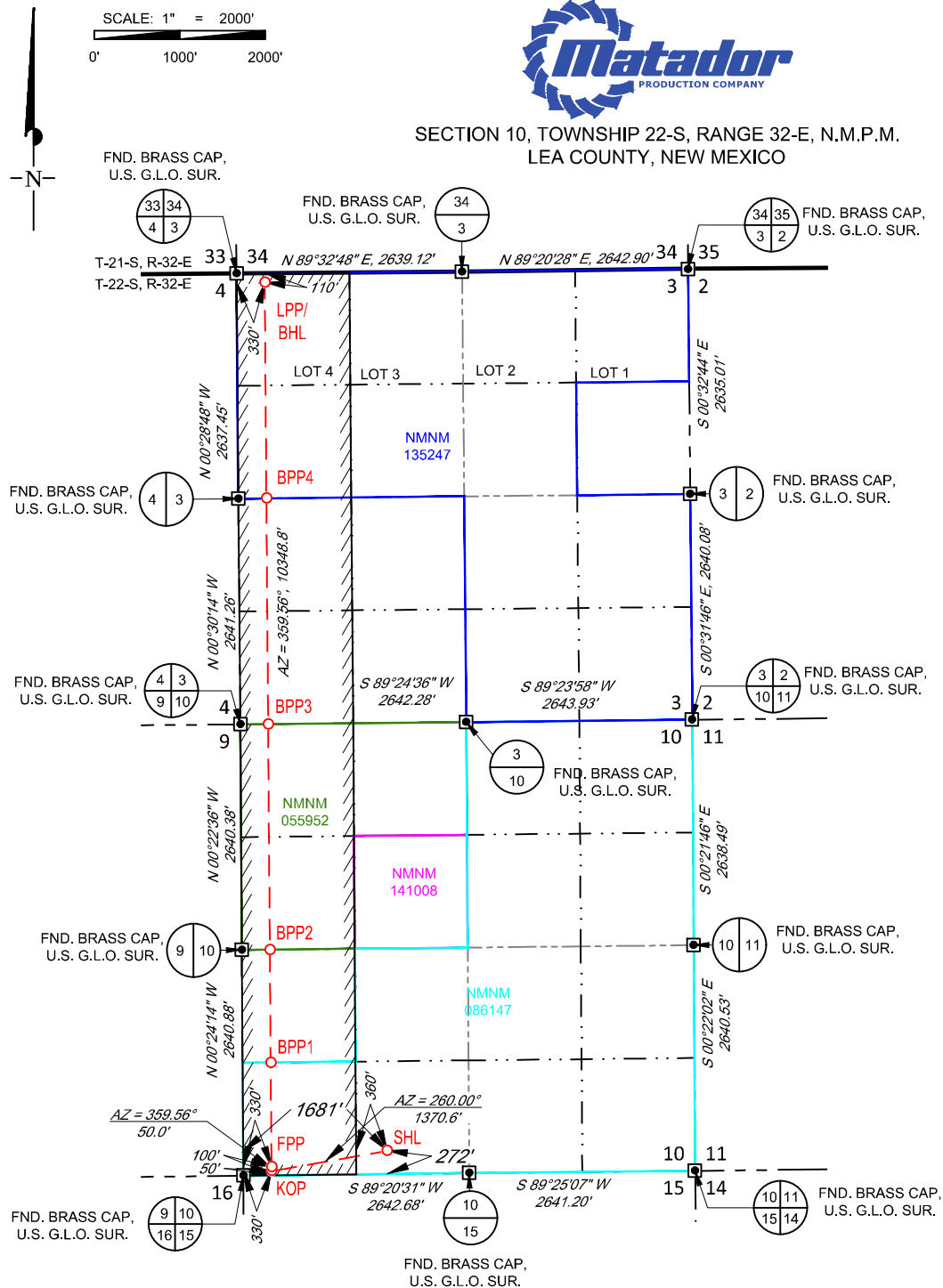
In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S safety package on all wells, attached is an "H₂S 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.

FORM C-102
Revised August 1, 1991
Submit one copy to appropriate
District Office

☐ **AMENDED REPORT**



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



NEW MEXICO EAST
NAD 1983
SURFACE LOCATION (SHL)

272' FSL - SEC. 10
1681' FWL - SEC. 10
X=747400 Y=509792
LAT.: N 32.3997167
LONG.: W 103.6656823

KICK OFF POINT (KOP)

50' FSL - SEC. 10
330' FWL - SEC. 10
X=746051 Y=509554
LAT.: N 32.3990858
LONG.: W 103.6700603

FIRST PERF. POINT (FPP)

100' FSL - SEC. 10
330' FWL - SEC. 10
X=746050 Y=509604
LAT.: N 32.3992233
LONG.: W 103.6700605

BLM PERF. POINT (BPP1)

1320' FSL - SEC. 10
329' FWL - SEC. 10
X=746041 Y=510824
LAT.: N 32.4025775
LONG.: W 103.6700664

BLM PERF. POINT (BPP2)

2640' FNL - SEC. 10
328' FWL - SEC. 10
X=746031 Y=512144
LAT.: N 32.4062067
LONG.: W 103.6700728

BLM PERF. POINT (BPP3)

0' FSL - SEC. 3
325' FWL - SEC. 3
X=746010 Y=514784
LAT.: N 32.4134638
LONG.: W 103.6700855

BLM PERF. POINT (BPP4)

2637' FNL - SEC. 3
328' FWL - SEC. 3
X=745990 Y=517426
LAT.: N 32.4207237
LONG.: W 103.6700983

LAST PERF. POINT (LPP)
BOTTOM HOLE LOCATION (BHL)

110' FNL - SEC. 3
330' FWL - SEC. 3
X=745971 Y=519952
LAT.: N 32.4276689
LONG.: W 103.6701105

LEASE NAME & WELL NO.: NINA CORTELL FED COM 135H

SECTION 10 TWP 22-S RGE 32-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 272' FSL & 1681' FWL

DISTANCE & DIRECTION

FROM INT. OF US-180 W/US-62 W & NM-176 W. GO SOUTHWEST ON US-180 W/US-62 W ±1.2 MILES, THENCE SOUTH (LEFT) ON CAMPBELL RD. ±10.5 MILES, THENCE NORTHEAST (LEFT) ON A LEASE RD. ±2.8 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD. ±1.1 MILES, THENCE EAST (LEFT) ON A PROPOSED RD. ±4549 FEET TO A POINT ±287 FEET NORTHEAST OF THE LOCATION.

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

THIS EASEMENT/SERVITUDE 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. 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.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



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

April 4, 2023

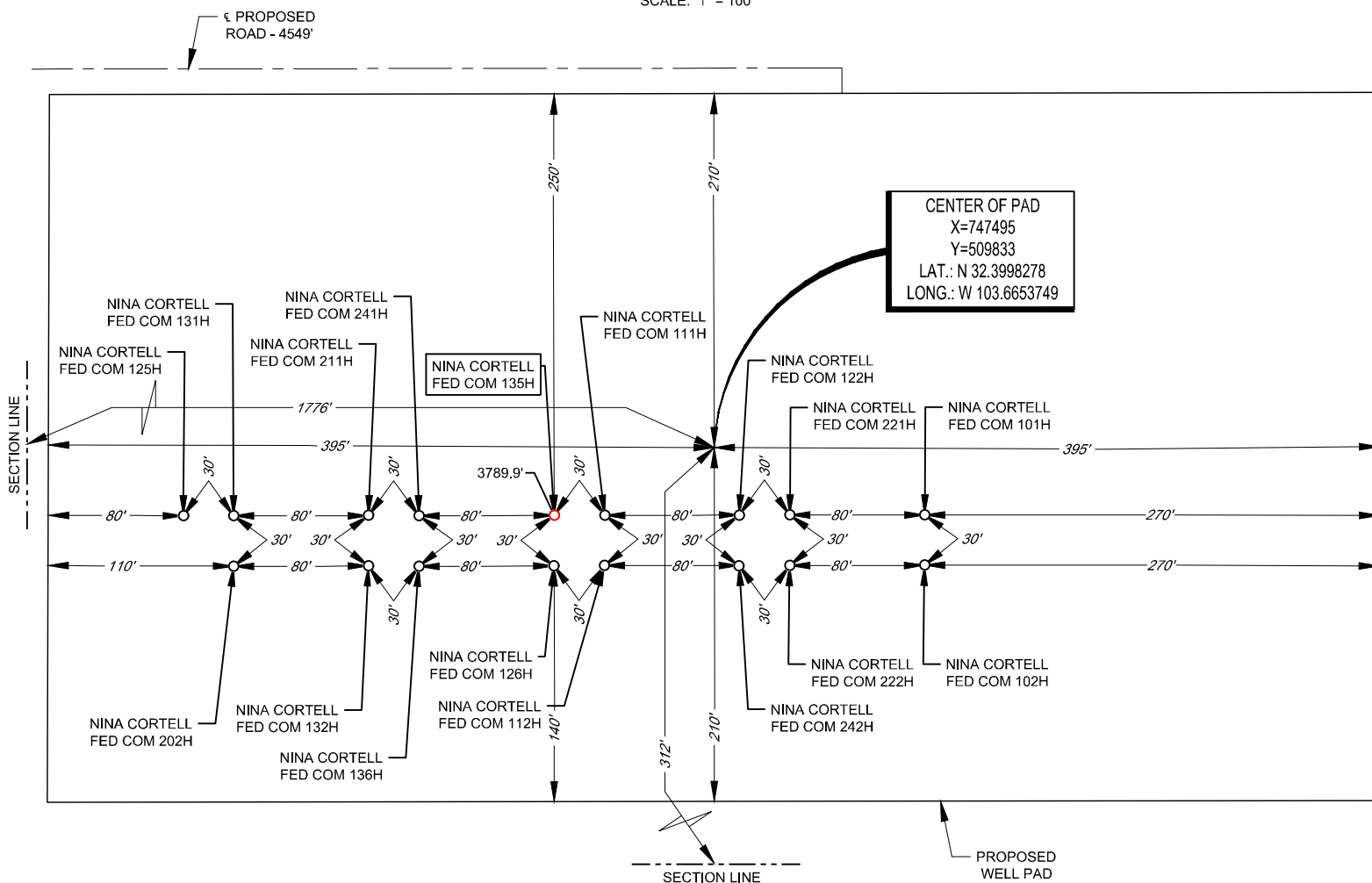


481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
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DETAIL VIEW
SCALE: 1" = 100'

— · — · — · — SECTION LINE
—— — PROPOSED ROAD



LEASE NAME & WELL NO.: NINA CORTELL FED COM 135H
 135H LATITUDE N 32.3997167 135H LONGITUDE W 103.6656823

CENTER OF PAD IS 312' FSL & 1776' FWL



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

April 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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WWW.TOPOGRAPHIC.COM

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 335328

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335328
	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