

Well Name: SIMON CAMAMILE 0206 FED COM	Well Location: T21S / R28E / SEC 02 / SWSW / 32.505484 / -104.0633202	County or Parish/State: EDDY / NM
Well Number: 226H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM130856	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553730	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2782919

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 04/02/2024 Time Sundry Submitted: 09:58

Date proposed operation will begin: 04/03/2024

Procedure Description: BLM Bond # NMB001079 & Surety Bond # RLB0015172 Matador request the option to amend the well design of the Simon Camamile 0206 Fed Com #226H and make the following changes to the current APD: - Change the well name from Simon Camamile 0206 Fed Com #226H to the Simon Camamile 0206 Fed Com #126H - Shallow target formation from Wolfcamp to Second Bone Spring - Change BHL from 1389' FSL & 2268' FWL to 729' FSL & 2265' FWL. All perforations will be within the setback requirements as previously approved. - Amend casing and cementing plan by changing 9.625" Int 2 string to 8.625" and revising set depths as described in Simon Camamile 0206 Fed Com 126H Sundry Info.

NOI Attachments

Procedure Description

- Simon_Camamile_0206_Fed_Com_126H_Break_Testing_Sundry_20240402095622.pdf
- Simon_Camamile_0206_Fed_Com_126H_Casing_Table_Spec_20240402095404.pdf
- Simon_Camamile_0206_Fed_Com_126H_Csg_Specs_8.625in_32lb_TLW_20240402095404.pdf
- Simon_Camamile_0206_Fed_Com_126H_4_String_Wellhead_Diagram_20240402095404.pdf
- Simon_Camamile_0206_Fed_Com_126H_Co_Flex_Hose_Certs_20240402095330.pdf
- Simon_Camamile_0206_Fed_Com_126H_Offline_Cementing___Int_20240402095330.pdf
- Simon_Camamile_0206_Fed_Com_126H_Offline_Cementing___Surface_20240402095330.pdf

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FED COM

Well Number: 226H

Lease Number: NMNM130856

US Well Number: 3001553730

Well Location: T21S / R28E / SEC 02 /
SWSW / 32.505484 / -104.0633202

Type of Well: OIL WELL

Unit or CA Name:

Operator: MATADOR PRODUCTION
COMPANY

County or Parish/State: EDDY /
NM

Allottee or Tribe Name:

Unit or CA Number:

Simon_Camamile_Fed_Com_126H_Directional_AC_Report_v1_20240402095258.pdf

Simon_Camamile_Fed_Com_126H_Directional_Wall_Plot_v1_20240402095259.pdf

Simon_Camamile_Fed_Com_126H_Directional_Well_Plan_v1_20240402095258.pdf

LO_SIMON_CAMAMILE_0206_FED_COM_126H_REV1_S_20240402095230.pdf

Simon_Camamile_0206_Fed_Com_126H_Sundry_Info_20240402095216.pdf

Conditions of Approval

Additional

Simon_Camamile_0206_Fed_Com_126H__Engineering_COA_20240410131617.pdf

LO_SIMON_CAMAMILE_0206_FED_COM_126H_REV1_Signed_20240410131047.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: DEBBIE CREED

Signed on: APR 02, 2024 09:56 AM

Name: MATADOR PRODUCTION COMPANY

Title: BLM Tech

Street Address: 5400 LBJ FREEWAY

City: DALLAS

State: TX

Phone: (972) 371-5426

Email address: DEBBIE.CREED@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: 04/11/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ 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: SWSW / 1250 FSL / 755 FWL / TWSP: 21S / RANGE: 28E / SECTION: 02 / LAT: 32.505484 / LONG: -104.0633202 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 1099 FSL / 0 FWL / TWSP: 21S / RANGE: 28E / SECTION: 01 / LAT: 32.5050673 / LONG: -104.0486256 (TVD: 10048 feet, MD: 14900 feet)

PPP: LOT 17 / 1105 FSL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.505046 / LONG: -104.031422 (TVD: 10165 feet, MD: 20362 feet)

BHL: NESW / 1389 FSL / 2268 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5050362 / LONG: -104.0240654 (TVD: 10169 feet, MD: 22590 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	SIMON CAMAMILE 0206 FED COM 126H
APD ID:	10400083208
SURFACE HOLE FOOTAGE:	1250'/S & 755'/W
BOTTOM HOLE FOOTAGE:	729'/S & 2265'/W
SURFACE LOCATION:	Section 2, T.21 S., R.28 E.
COUNTY:	Eddy County, New Mexico

COA

H ₂ S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☐ Medium	☒ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☐ Multibowl	☐ Both
Wellhead Variance	☒ Diverter		
Other	☒ 4 String	☒ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Other Variance	☒ Break Testing	☒ Offline Cementing	☐ Casing Clearance
Special Requirements	☐ Water Disposal	☒ COM	☐ 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 **title 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 **20** inch surface casing shall be set at approximately **665 ft.** (a minimum of 70 feet (Eddy 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 **8 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.
2. The 13-3/8 inch 1st intermediate casing shall be set at approximately **1,650** feet. The minimum required fill of cement behind the 13-3/8 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 and Capitan Reef**.

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.

- a. 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.
- b. Second stage above DV tool:
 - **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst or Capitan reef**.

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

- ❖ In High Cave/Karst 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.
- ❖ In Capitan Reef 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.

❖ **Special Capitan Reef requirements:**

- Estimated **Capitan reef top** for the proposed well is approximately at **1,710 ft**. Use freshwater mud to protect the Capitan Reef formation.
- If circulation loss (50% or greater) occurs while drilling Capitan reef, daily drilling reports from the drill out the 1st intermediate casing shoe to the setting of the 2nd intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is

to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The 9-5/8 inch 2nd intermediate casing shall be set at approximately **3,992 ft.** (3,959 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 and Capitan reef**.

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.

- c. 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.
- d. Second stage above DV tool:
 - **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan reef**.

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

4. Operator has proposed to set 5-1/2" production casing at approximately **21,213 ft.** (8,575 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:
 - Cement should tie-back **at least 50 feet** above the Capitan reef top. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed to use a 13-3/8" SOW multi-bowl wellhead assembly on the 1st intermediate string after cutting off 20" SOW wellhead. The assembly will be tested once installed. Minimum working pressure of the BOP/BOPE required for drilling below the surface casing shall be **2000 (2M) psi**. A Diverter system along with a 2000

(2M) psi annular preventer is approved to be used when drilling the 17.5-inch hole. Before drilling out the surface casing shoe, annular preventer shall be tested in accordance with **title 43 CFR 3172** and **API Standard 53**.

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate casing shoe shall be **5000 (5M) psi**. Before drilling out the 1st intermediate casing shoe, 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 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 **(575-361-2822 Eddy 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 04/10/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources

Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

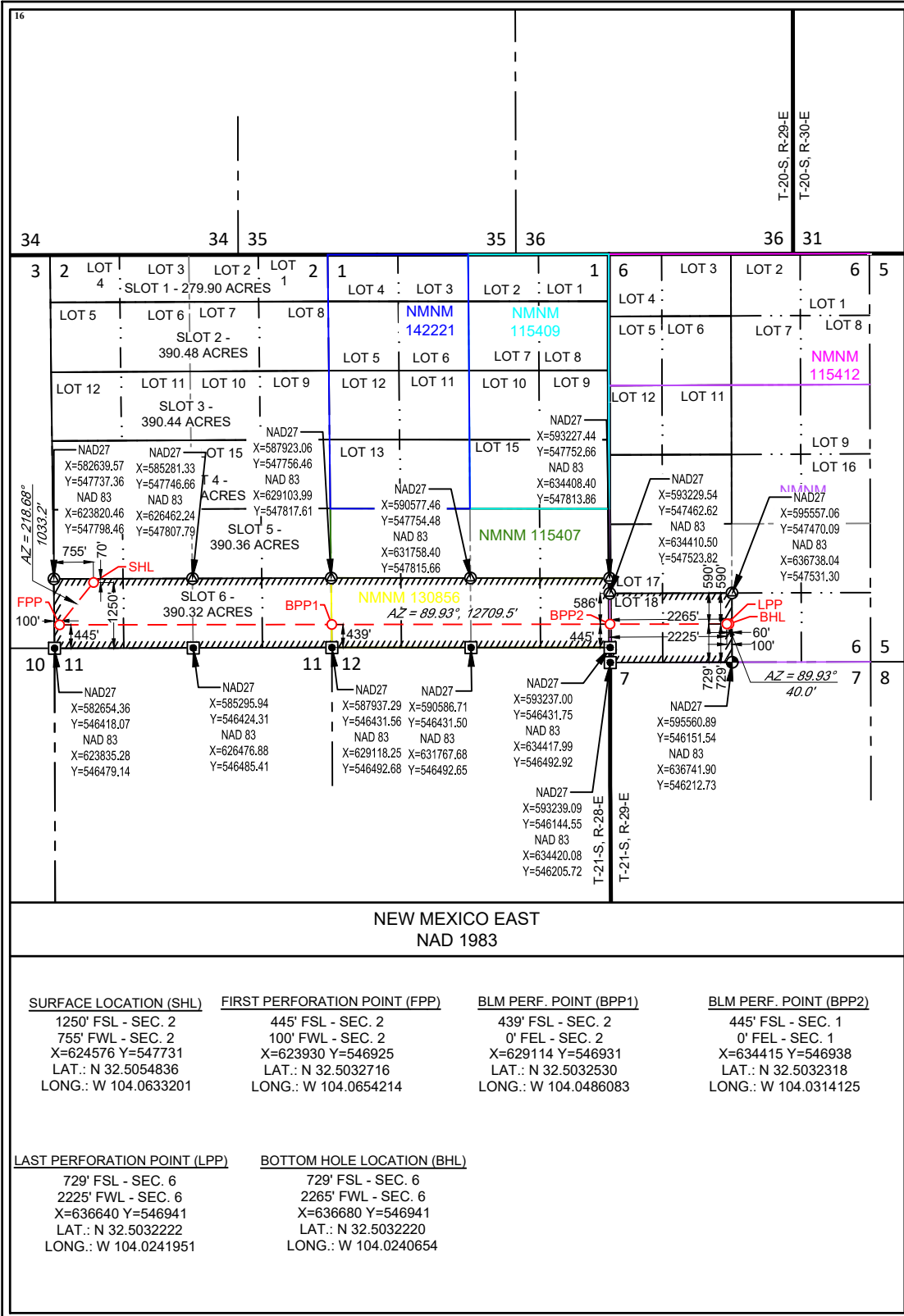
¹ API Number 30-025-	² Pool Code 97995	³ Pool Name WC-015 G-05 S202935P; BONE SPRING
⁴ Property Code	⁵ Property Name SIMON CAMAMILE 0206 FED COM	⁶ Well Number 126H
⁷ OGRID No. 7377	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3347'

¹⁰ Surface Location									
UL or lot no. M	Section 2	Township 21-S	Range 28-E	Lot Idn -	Feet from the 1250'	North/South line SOUTH	Feet from the 755'	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. N	Section 6	Township 21-S	Range 29-E	Lot Idn -	Feet from the 729'	North/South line SOUTH	Feet from the 2265'	East/West line WEST	County EDDY

¹² Dedicated Acres 390.32	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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



¹⁷OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cassie Hahn 4/10/24

Signature Date

Cassie Hahn

Printed Name

chahn@matadorresources.com

E-mail Address

¹⁸SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

07/29/2021

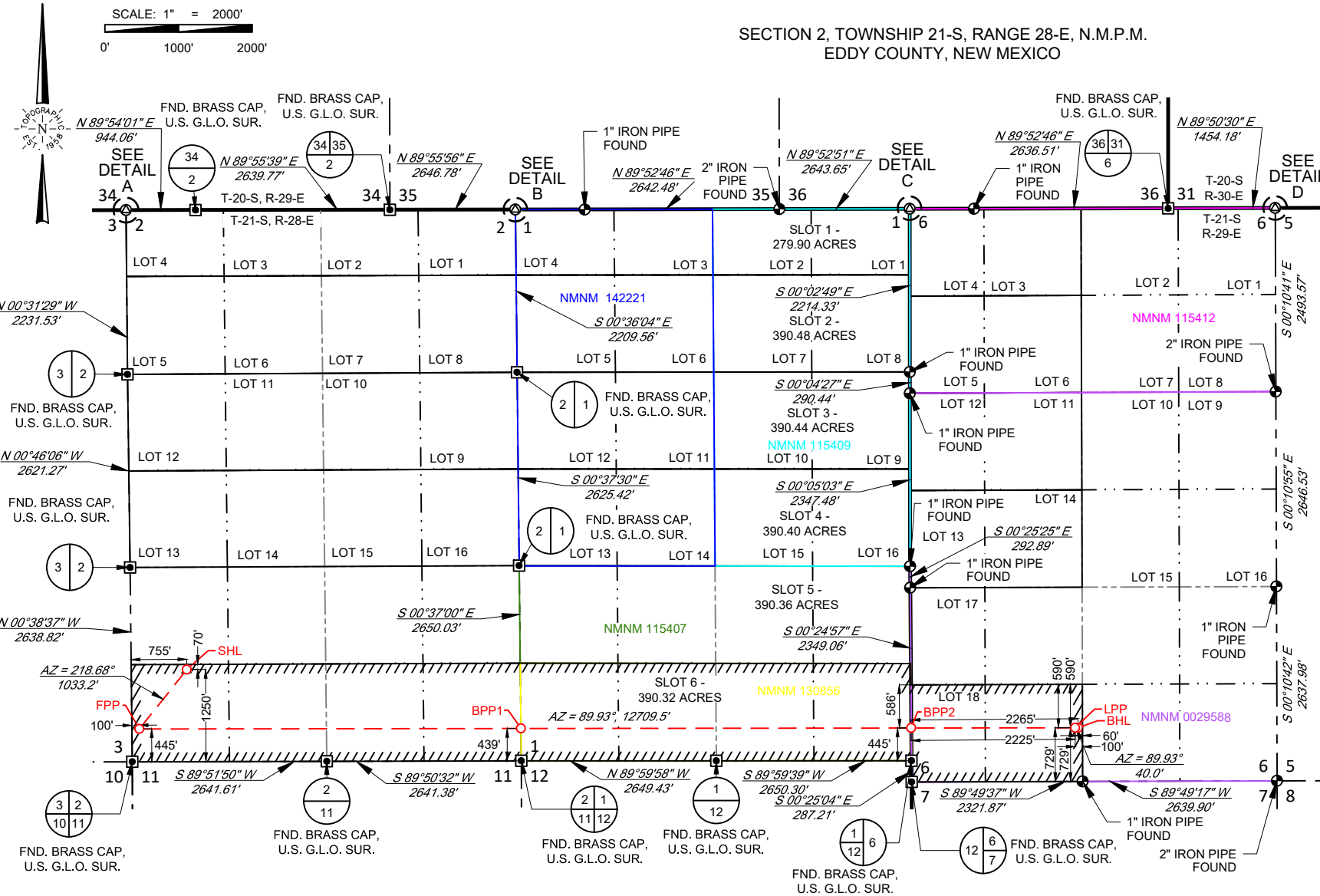
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

NEW MEXICO EAST
NAD 1927

<u>SURFACE LOCATION (SHL)</u> 1250' FSL - SEC. 2 755' FWL - SEC. 2 X=624576 Y=547731 LAT.: N 32.5054836 LONG.: W 104.0633201	<u>FIRST PERFORATION POINT (FPP)</u> 445' FSL - SEC. 2 100' FWL - SEC. 2 X=623930 Y=546925 LAT.: N 32.5032716 LONG.: W 104.0654214	<u>BLM PERF. POINT (BPP1)</u> 439' FSL - SEC. 2 0' FEL - SEC. 2 X=629114 Y=546931 LAT.: N 32.5032530 LONG.: W 104.0486083	<u>BLM PERF. POINT (BPP2)</u> 445' FSL - SEC. 1 0' FEL - SEC. 1 X=634415 Y=546938 LAT.: N 32.5032318 LONG.: W 104.0314125
<u>LAST PERFORATION POINT (LPP)</u> 729' FSL - SEC. 6 2225' FWL - SEC. 6 X=636640 Y=546941 LAT.: N 32.5032222 LONG.: W 104.0241951	<u>BOTTOM HOLE LOCATION (BHL)</u> 729' FSL - SEC. 6 2265' FWL - SEC. 6 X=636680 Y=546941 LAT.: N 32.5032220 LONG.: W 104.0240654		



LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 116H

SECTION 2 TWP 21-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 1250' FSL & 835' FWL

DISTANCE & DIRECTION

FROM INT. OF HWY-285, & US-180 E/US-62 E HEAD EAST ON US-180

E/US-62 E ±11.9 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD.

±0.7 MILES, THENCE SOUTHWEST (RIGHT) ON A PROPOSED RD.

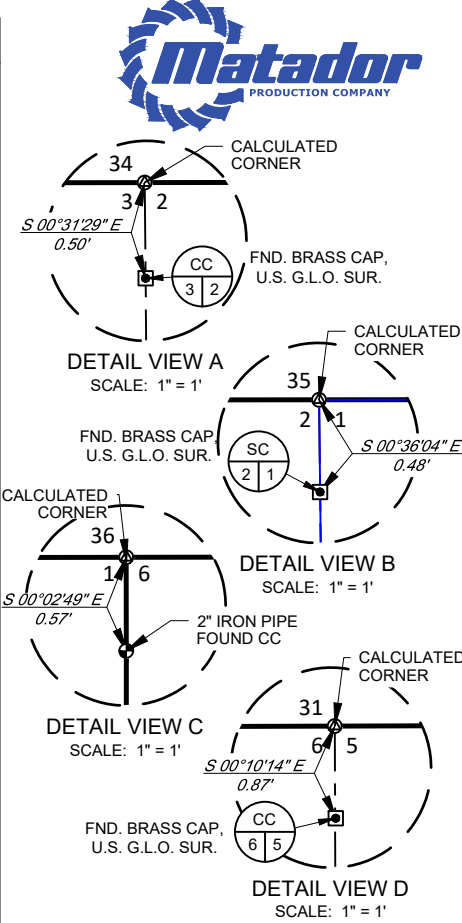
±85 FEET TO A POINT ±479 FEET NORTHEAST OF THE LOCATION.

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.

NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
1250' FSL - SEC. 2
755' FWL - SEC. 2
X=624576 Y=547731
LAT.: N 32.5054836
LONG.: W 104.0633201
FIRST PERFORATION POINT (FPP)
445' FSL - SEC. 2
100' FWL - SEC. 2
X=623930 Y=546925
LAT.: N 32.5032716
LONG.: W 104.0654214
BLM PERF. POINT (BPP1)
439' FSL - SEC. 2
0' FEL - SEC. 2
X=629114 Y=546931
LAT.: N 32.5032530
LONG.: W 104.0486083
BLM PERF. POINT (BPP2)
445' FSL - SEC. 1
0' FEL - SEC. 1
X=634415 Y=546938
LAT.: N 32.5032318
LONG.: W 104.0314125
LAST PERFORATION POINT (LPP)
729' FSL - SEC. 6
2225' FWL - SEC. 6
X=636640 Y=546941
LAT.: N 32.5032222
LONG.: W 104.0241951
BOTTOM HOLE LOCATION (BHL)
729' FSL - SEC. 6
2265' FWL - SEC. 6
X=636680 Y=546941
LAT.: N 32.5032220
LONG.: W 104.0240654



Angel M. Baeza, P.S. No. 25116
March 11, 2024

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

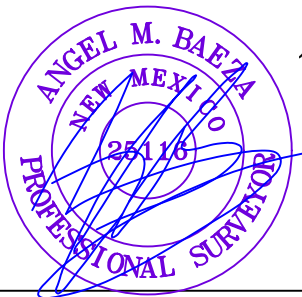
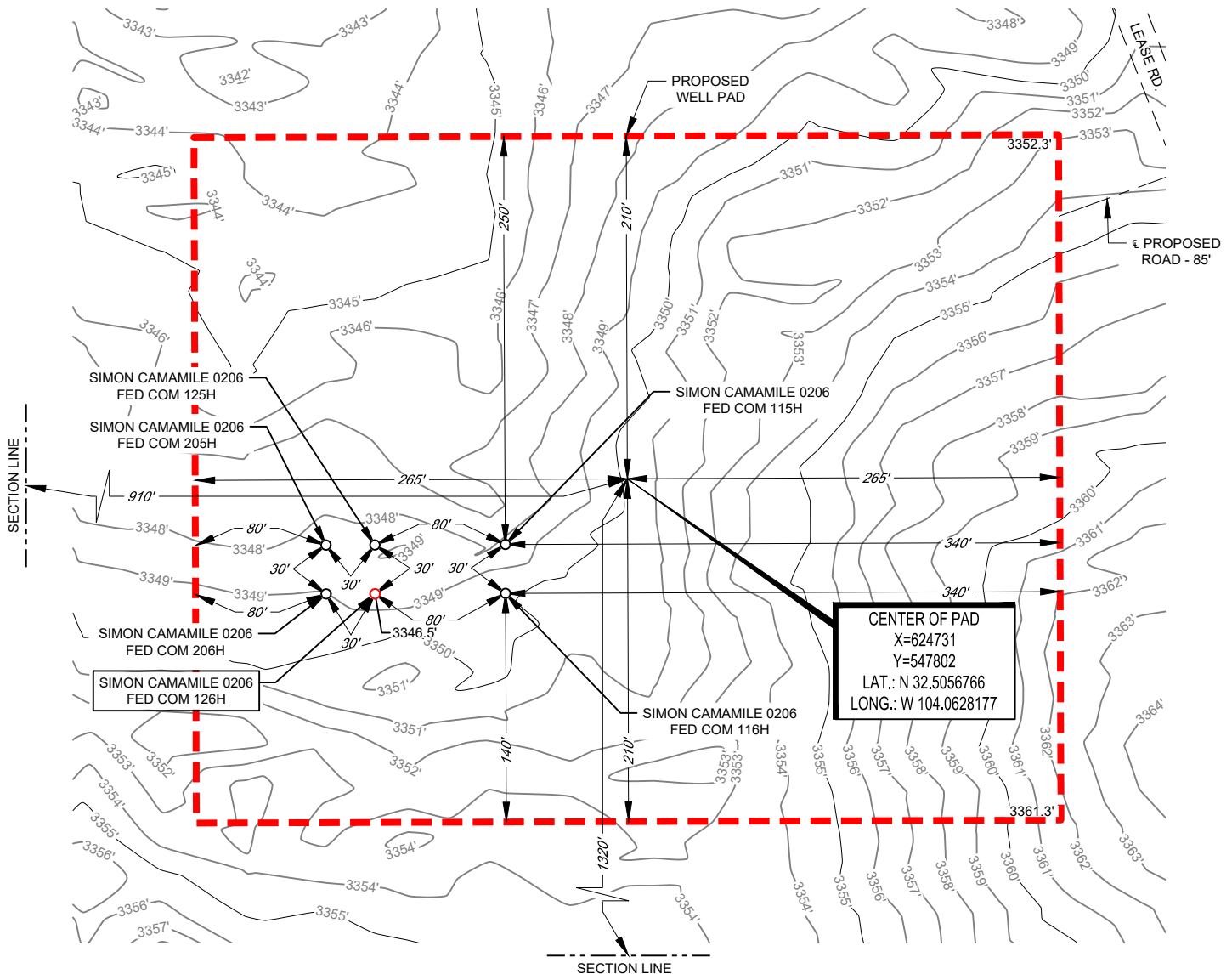
LEGEND

- SECTION LINE
 - - - PROPOSED ROAD
 = = = ROAD WAY



SECTION 2, TOWNSHIP 21-S, RANGE 28-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

DETAIL VIEW
 SCALE: 1" = 100'



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

March 11, 2024

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"

LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 126H
 126H LATITUDE N 32.5054836 126H LONGITUDE W 104.0633201

CENTER OF PAD IS 1320' FSL & 910' FWL

SCALE: 1" = 100'

0' 50' 100'

TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
 TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
 TEXAS FIRM REGISTRATION NO. 10042504
 WWW.TOPOGRAPHIC.COM

Modified BOP Testing Procedure for Batch Drilling

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2

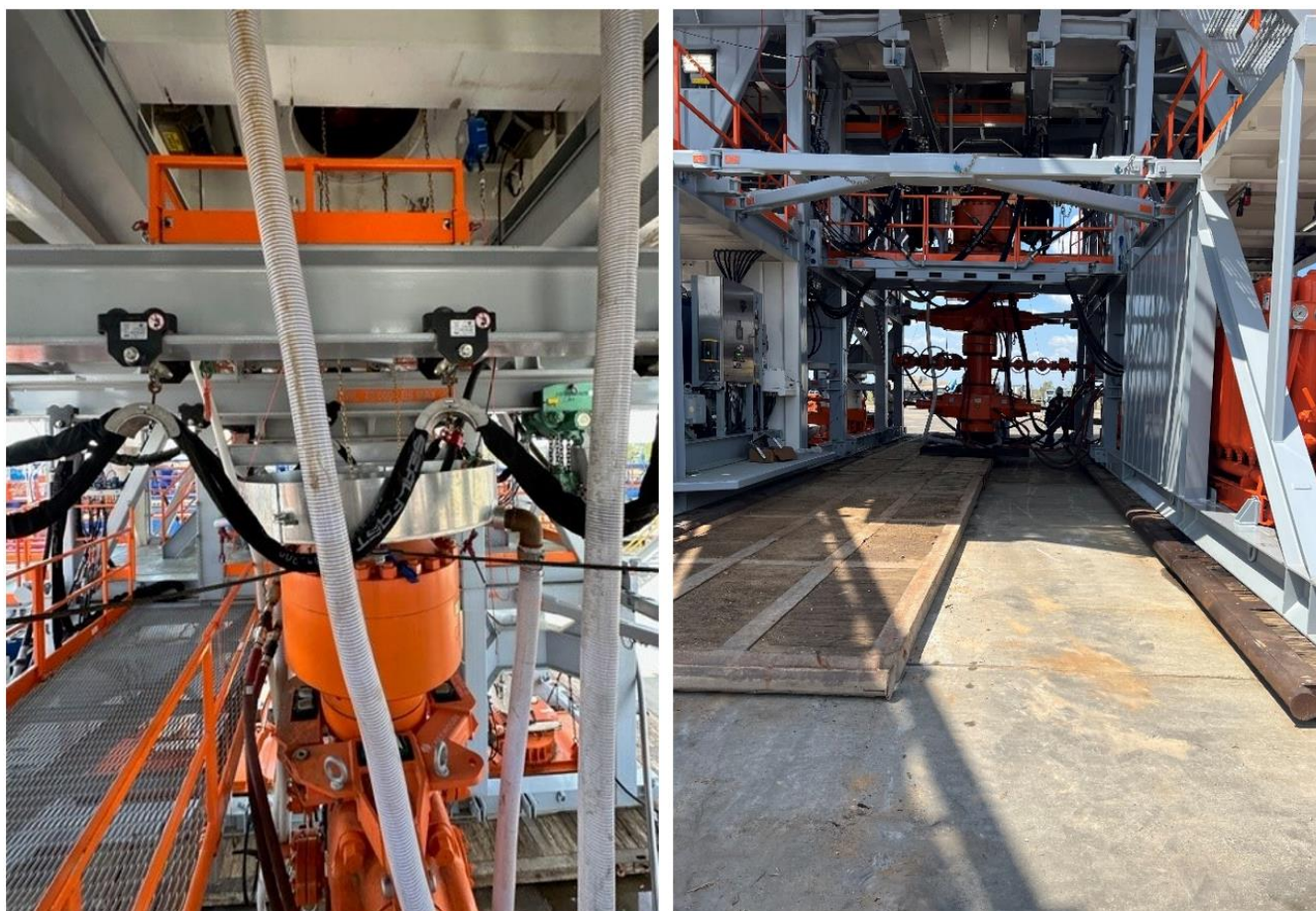
Township/Range: 21S 28E
Elevation Above Sea Level: 3347'

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

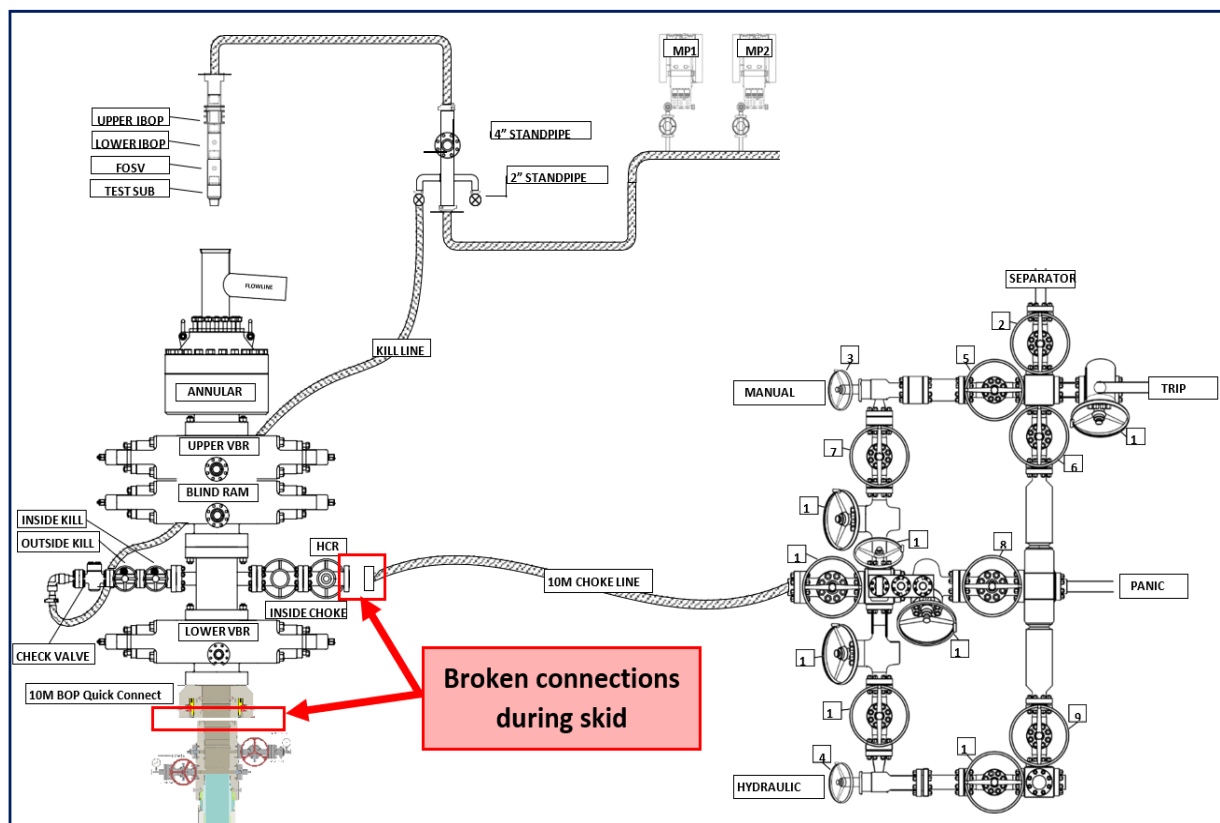


Figure 3: Shows which connections are broken during the skidding process

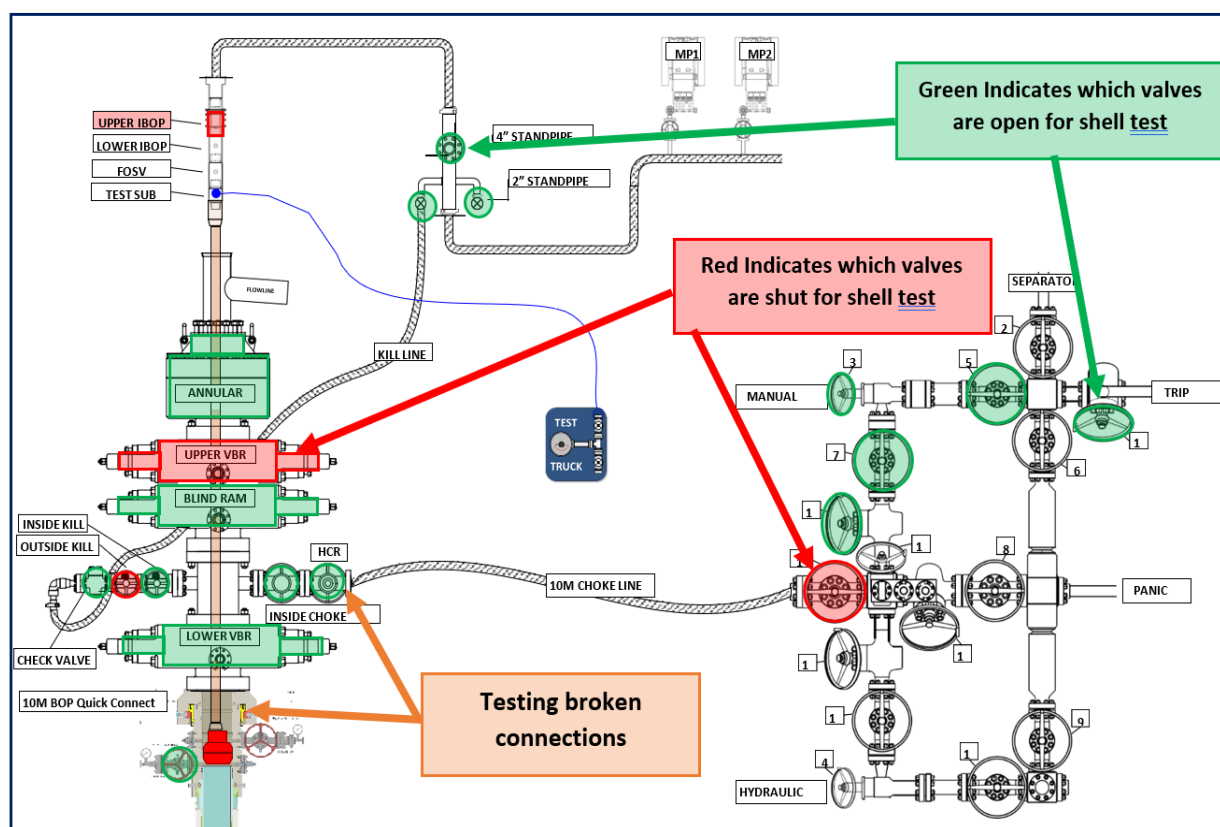


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

Casing Table Specification Sheet

Simon Camamile 0206 Fed Com 126H

SHL: 1250' FSL & 755' FWL Section 2

BHL: 729' FSL & 2265' FWL Section 6

Township/Range: 21S 28E

Elevation Above Sea Level: 3347

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 665	0 - 665	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1650	0 - 1650	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3992	0 - 3959	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21213	0 - 8575	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Matador Production Company

Released to Imaging: 5/31/2024 4:54:48 PM

Casing Specs - 8.625" 32lb Hunting TLW

Simon Camamile 0206 Fed Com 126H

Township/Range: 21S 28E

SHL: 1250' FSL & 755' FWL Section 2

Elevation Above Sea Level: 3347'



TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall)

AXIS P110 HC

Pipe Body Data

Nominal OD:	8.625	in
Nominal Wall:	.352	in
Nominal Weight:	32.00	lb/ft
Plain End Weight:	31.13	lb/ft
Material Grade:	P110 HC	
Mill/Specification:	AXIS	
Yield Strength:	110,000	psi
Tensile Strength:	125,000	psi
Nominal ID:	7.921	in
API Drift Diameter:	7.796	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	1,006,000	lbf
Burst:	7,860	psi
Collapse:	4,170	psi

Connection Data

Standard OD:	9.000	in
Pin Bored ID:	7.921	in
Critical Section Area:	8.614	in ²
Tensile Efficiency:	94.2 %	
Compressive Efficiency:	98.5 %	
Longitudinal Yield Strength:	948,000	lbf
Compressive Limit:	991,000	lbf
Internal Pressure Rating:	7,860	psi
External Pressure Rating:	4,170	psi
Maximum Bend:	55.1	°/100ft

Operational Data

Minimum Makeup Torque:	26,900	ft*lbf
Optimum Makeup Torque:	33,600	ft*lbf
Maximum Makeup Torque:	74,300	ft*lbf
Minimum Yield:	82,600	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

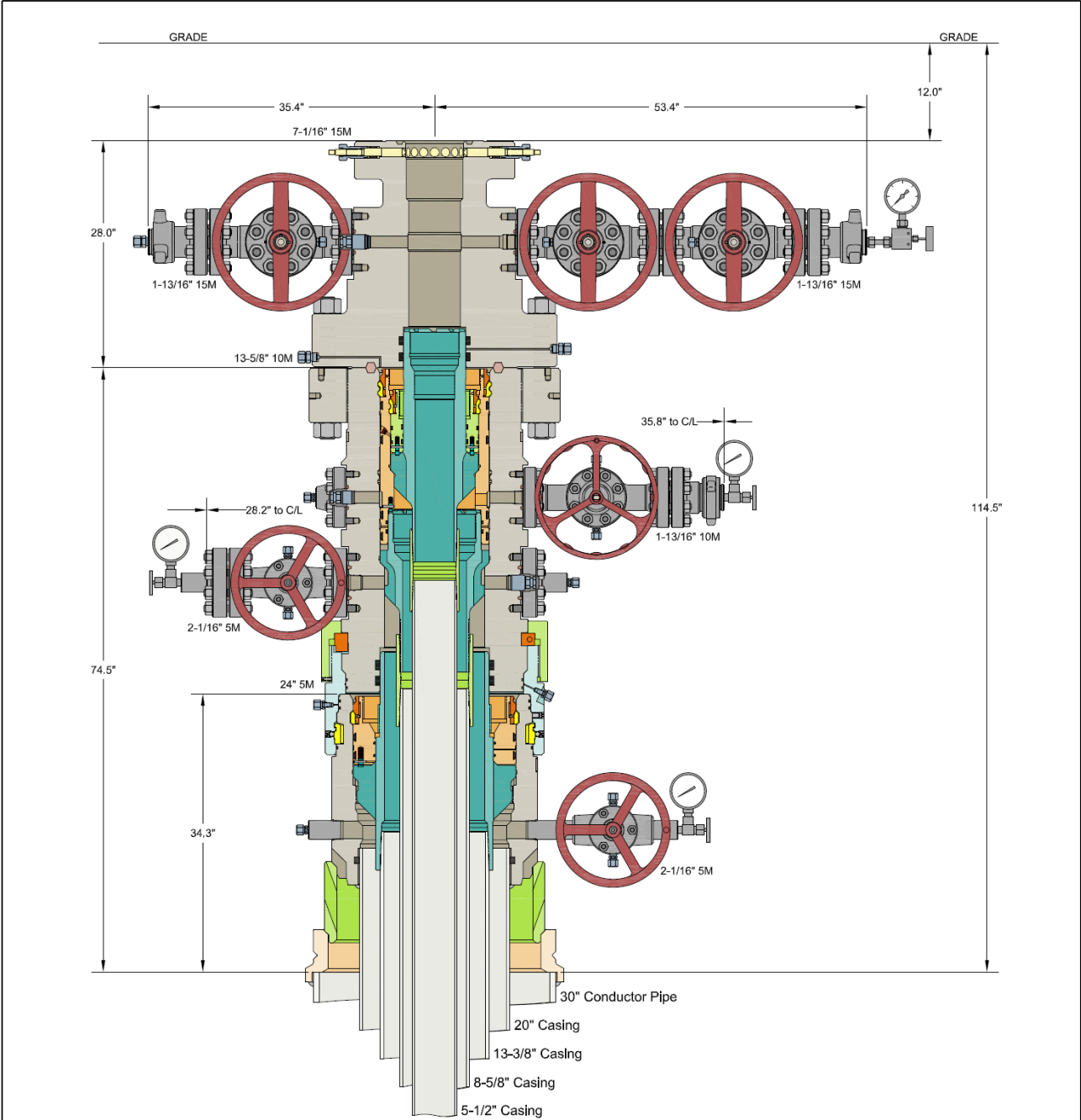


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4-String Wellhead Diagram

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E
Elevation Above Sea Level: 3347'



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	MATADOR PRODUCTION COMPANY WEST TEXAS		
	DRAWN	DLE	14DEC23
	APPRV		
30" x 20" x 13-3/8" x 8-5/8" x 5-1/2" CRC / MBU-3T-CFL Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And 13-3/8", 8-5/8" & 5-1/2" Mandrel Casing Hangers		DRAWING NO. HBE0001107	

Co-Flex Hose Certification

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E
Elevation Above Sea Level: 3347'



CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2024-029-002

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×11.08ft (3.38m)	Quantity	2PCS
Serial Number	7660215、7660216	FSL	FSL3
Temperature Range	-29℃～+121℃	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2024.02.20

Inspection Items		Inspection results	
Appearance Checking		In accordance with API Spec 16C 3 rd edition	
Size and Lengths		In accordance with API Spec 16C 3 rd edition	
Dimensions and Tolerances		In accordance with API Spec 16C 3 rd edition	
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 6A 21 st edition	
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 17D 3 rd edition	
Hydrostatic Testing		In accordance with API Spec 16C 3 rd edition	
product Marking		In accordance with API Spec 16C 3 rd edition	
Inspection conclusion		The inspected items meet standard requirements of API Spec 16C 3 rd edition	
Remarks			
Approver	Jane C	Auditor	Alice D
		Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



Co-Flex Hose Certification



HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

No: 240220001

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×11.08ft (3.38m)	Serial Number	7660215
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2024.02.20

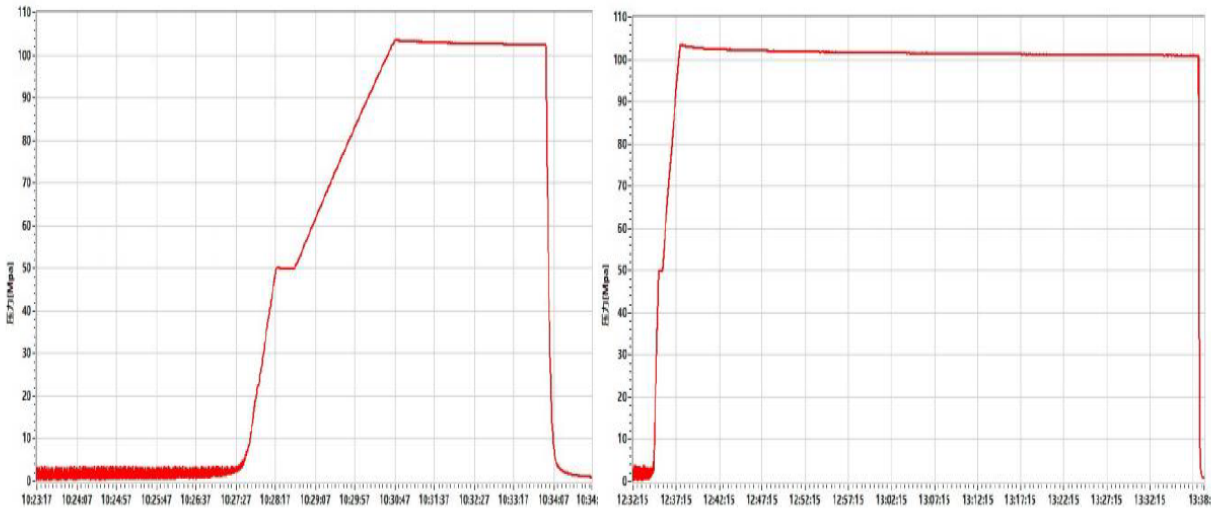
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than65 mm (2½ in.)+ 0.01 L
Testing result	10000psi (69.0MPa) ,length change 7mm

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



Co-Flex Hose Certification



HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

№: 240220002

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×11.08ft (3.38m)	Serial Number	7660216
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2024.02.19

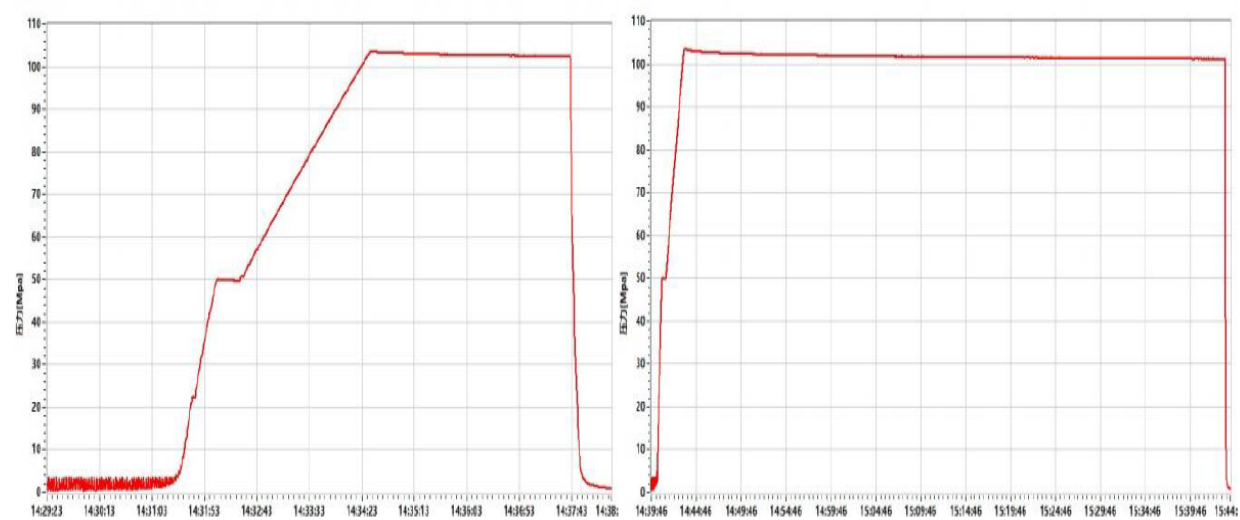
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than65 mm (2½ in.)+ 0.01 L
Testing result	10000psi (69.0MPa) ,length change 8mm

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



Co-Flex Hose Certification

POWERTRACK

CERTIFICATE OF CONFORMANCE

№:LT240220003

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×11.08ft (3.38m)

Serial Number: 7660215、7660216

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Feb, 2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Feb 20, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager:

Jane C

Date:Feb 20, 2024

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



Offline Cementing - Intermediate Casing

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E
Elevation Above Sea Level: 3347'

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.

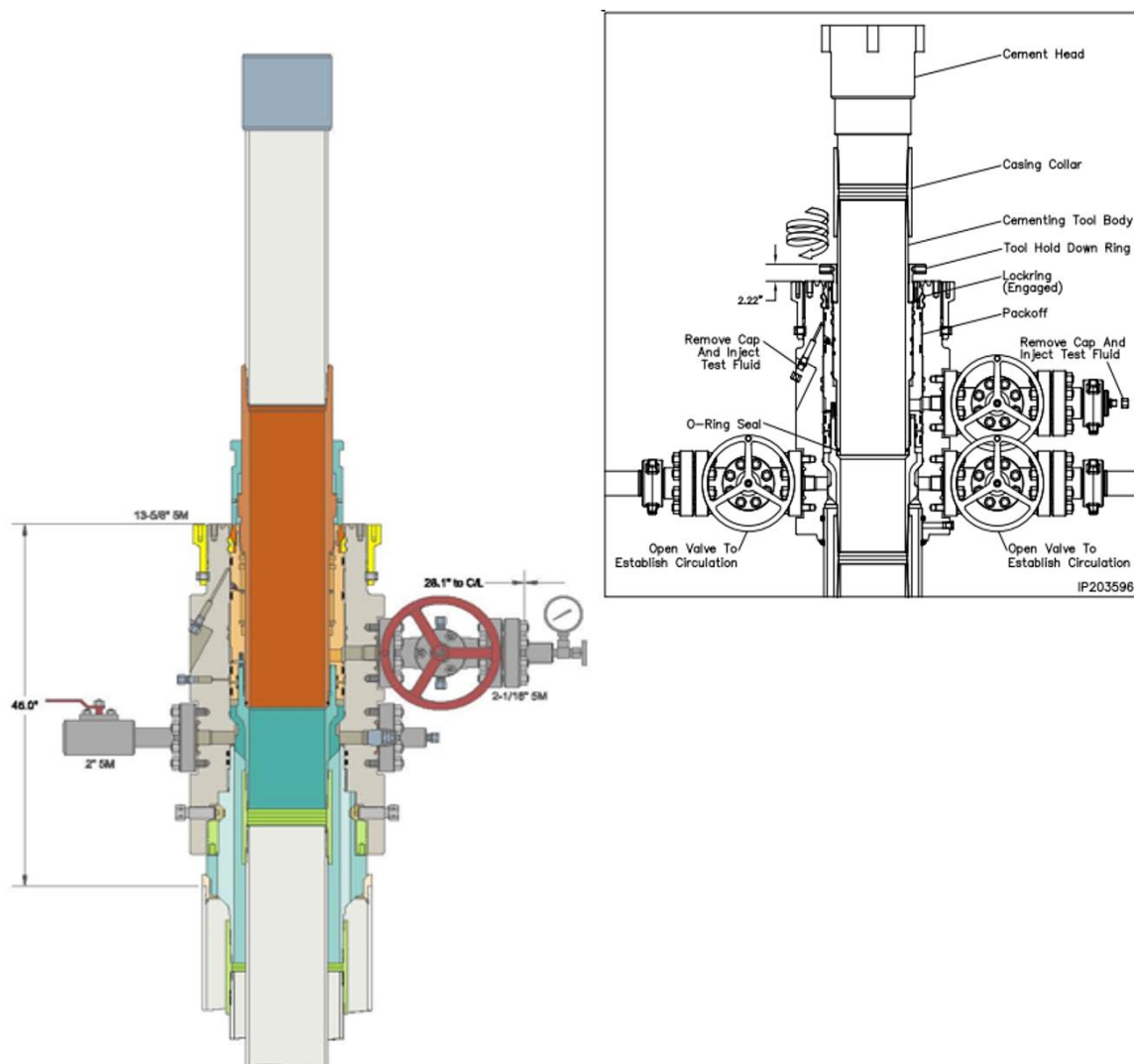
Offline Cementing Procedure

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

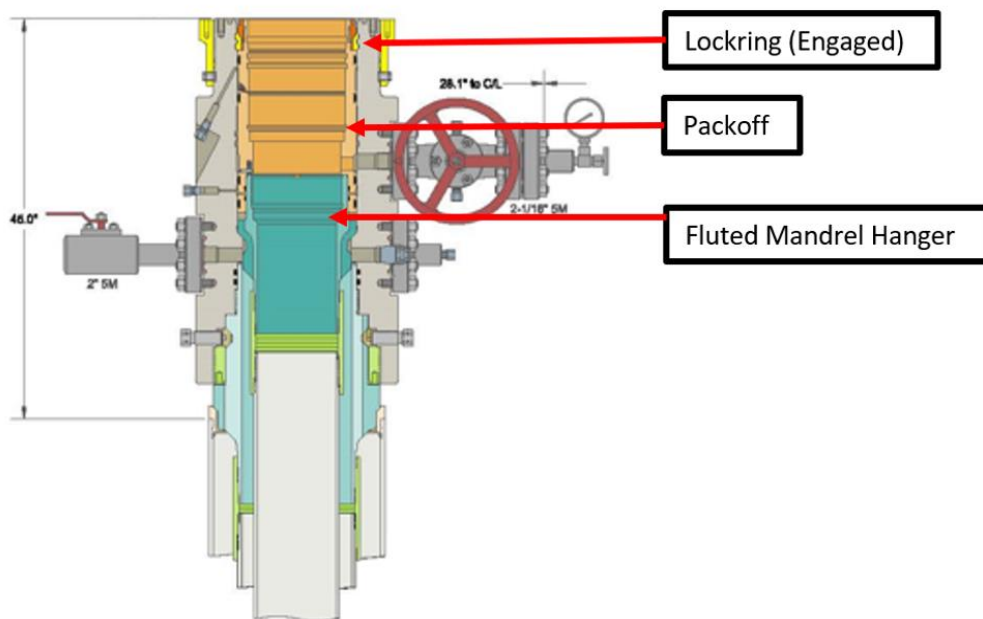
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



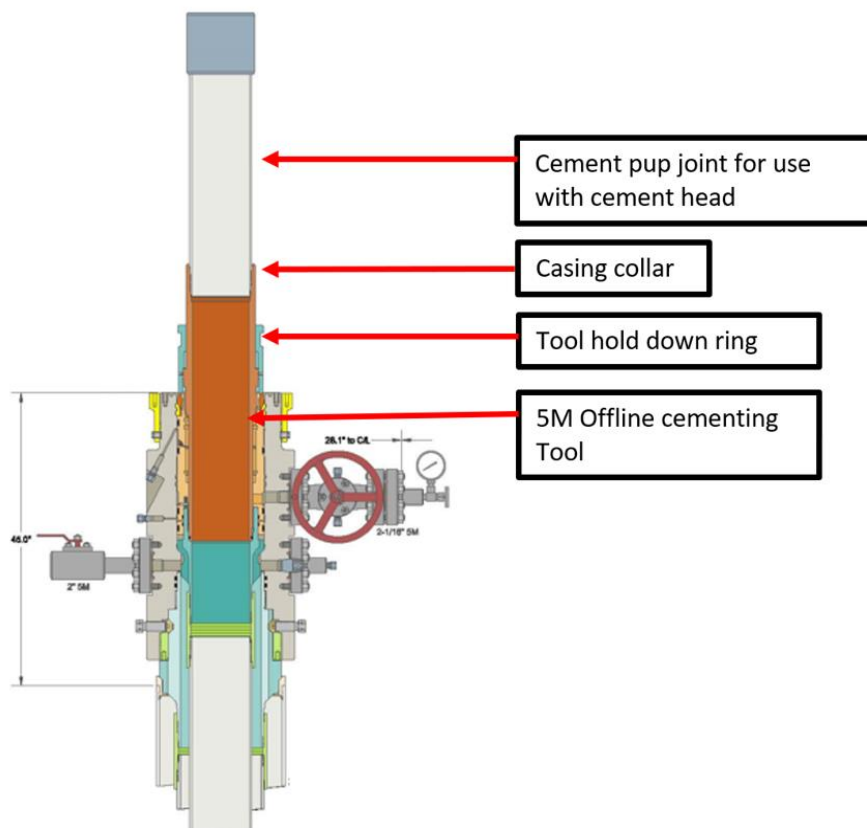
Offline Cementing - Intermediate Casing

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.

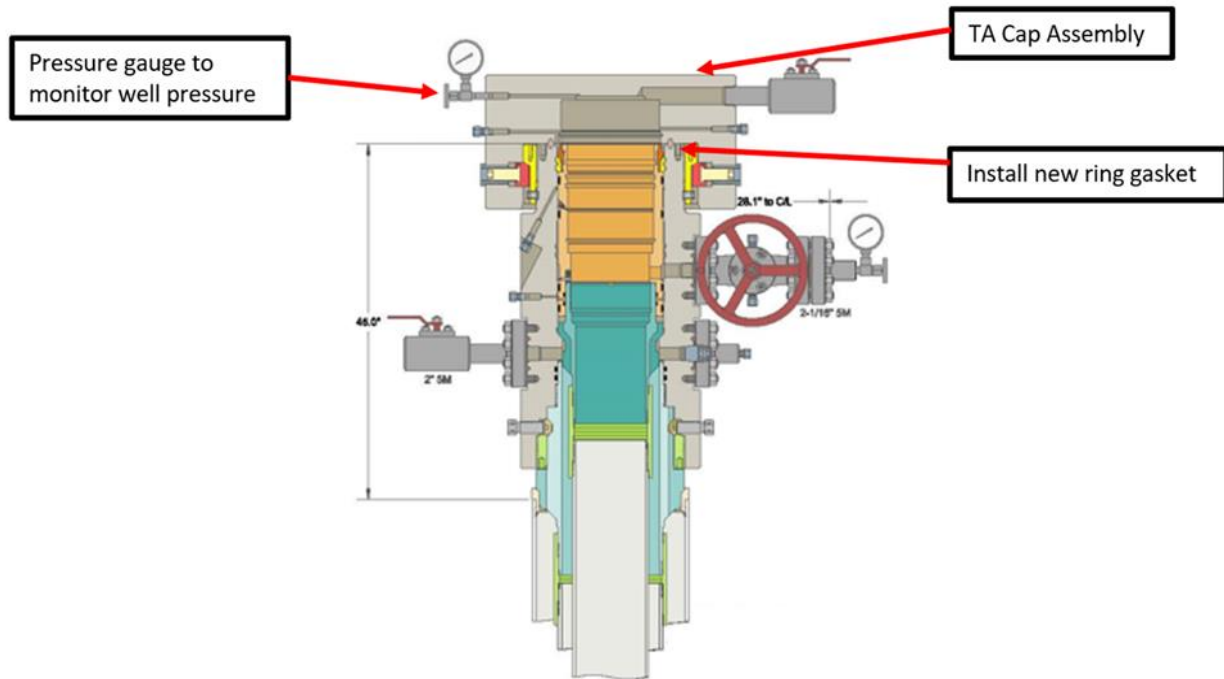


Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing

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



Offline Cementing - Surface Casing

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E
Elevation Above Sea Level: 3347'

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

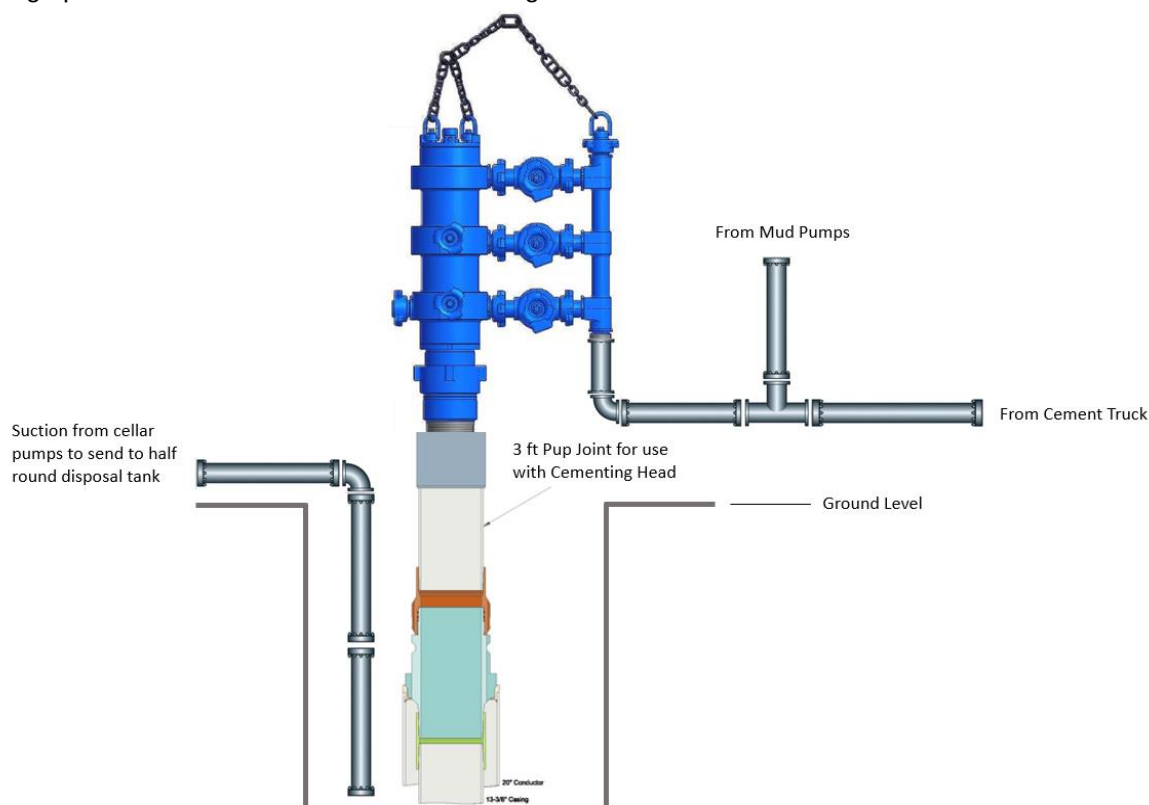
Cement Program

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

Offline Cementing Procedure

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

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

Ranger/Arrowhead

Simon Camamile Fed Com

Simon Camamile Fed Com #126H

Wellbore #1

BLM Plan #1

Anticollision Report

28 March, 2024

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Reference	BLM Plan #1		
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	3/28/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,213.6	BLM Plan #1 (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						
Simon Camamile Fed Com						
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	1,000.0	962.0	2,330.9	2,324.3	354.638	CC, ES
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	21,213.6	20,039.0	4,053.8	3,443.8	6.645	SF
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	1,000.0	962.0	2,245.9	2,239.3	341.706	CC
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	21,212.5	20,014.1	2,773.7	2,178.9	4.663	ES, SF
Simon Camamile Fed Com #116H - Wellbore #1 - BLM P	3,419.3	3,433.3	38.6	11.9	1.445	Level 3, CC
Simon Camamile Fed Com #116H - Wellbore #1 - BLM P	7,300.0	7,339.7	60.2	1.6	1.028	Level 2, ES, SF
Simon Camamile Fed Com #125H - Wellbore #1 - BLM P	1,000.0	1,001.0	29.9	23.2	4.450	CC, ES
Simon Camamile Fed Com #125H - Wellbore #1 - BLM P	21,213.6	21,212.2	1,320.0	701.5	2.134	SF
Simon Camamile Fed Com #134H - Wellbore #1 - BLM P	1,000.0	964.0	2,224.5	2,217.9	338.087	CC, ES
Simon Camamile Fed Com #134H - Wellbore #1 - BLM P	21,213.6	22,118.4	3,483.9	2,890.3	5.870	SF
Simon Camamile Fed Com #135H - Wellbore #1 - BLM P	7,301.4	7,500.0	1,963.2	1,907.9	35.495	CC
Simon Camamile Fed Com #135H - Wellbore #1 - BLM P	21,213.6	22,180.4	2,277.7	1,725.7	4.126	ES, SF
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	1,000.0	1,001.0	85.4	78.7	12.724	CC, ES
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	21,213.6	22,185.2	1,289.1	927.4	3.564	SF
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	100.0	58.2	2,359.7	2,359.5	10,000.000	CC
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	200.0	152.1	2,360.0	2,359.3	3,278.013	ES
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	21,213.6	22,176.0	4,191.9	3,606.3	7.159	SF
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	476.6	438.8	2,351.9	2,349.2	868.874	CC
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	500.0	448.0	2,352.0	2,349.2	832.776	ES
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	21,213.6	22,261.0	3,003.4	2,445.8	5.386	SF
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	1,000.0	1,001.0	42.3	35.6	6.300	CC
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	1,100.0	1,101.0	42.5	35.1	5.732	ES
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	21,213.6	22,452.8	1,936.0	1,489.3	4.334	SF
Simon Camamile Fed Com #206H - Wellbore #1 - Actua	2,306.6	2,302.7	17.4	1.1	1.064	Level 2, CC, ES, SF
Simon Camamile Fed Com #224H - Wellbore #1 - BLM P	1,000.0	961.0	2,323.3	2,316.8	353.684	CC, ES
Simon Camamile Fed Com #224H - Wellbore #1 - BLM P	21,213.6	22,472.9	3,644.9	3,074.5	6.390	SF
Simon Camamile Fed Com #225H - Wellbore #1 - BLM P	8,505.0	8,552.9	2,075.8	2,013.1	33.112	CC, ES
Simon Camamile Fed Com #225H - Wellbore #1 - BLM P	21,213.6	22,554.9	2,538.5	2,034.6	5.037	SF

Offset Design		Simon Camamile Fed Com - Simon Camamile Fed Com #113H - BLM Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre			Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)		(usft)	(usft)	(usft)			

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-15.22	2,249.1	-612.0	2,331.2					
100.0	100.0	62.0	62.0	0.1	0.1	-15.22	2,249.1	-612.0	2,330.9	2,330.7	0.21	N/A		
200.0	200.0	162.0	162.0	0.5	0.4	-15.22	2,249.1	-612.0	2,330.9	2,330.0	0.84	2,784.703		
300.0	300.0	262.0	262.0	0.8	0.7	-15.22	2,249.1	-612.0	2,330.9	2,329.3	1.55	1,499.950		
400.0	400.0	362.0	362.0	1.2	1.1	-15.22	2,249.1	-612.0	2,330.9	2,328.6	2.27	1,026.406		
500.0	500.0	462.0	462.0	1.6	1.4	-15.22	2,249.1	-612.0	2,330.9	2,327.9	2.99	780.118		
600.0	600.0	562.0	562.0	1.9	1.8	-15.22	2,249.1	-612.0	2,330.9	2,327.2	3.70	629.152		
700.0	700.0	662.0	662.0	2.3	2.1	-15.22	2,249.1	-612.0	2,330.9	2,326.5	4.42	527.141		
800.0	800.0	762.0	762.0	2.6	2.5	-15.22	2,249.1	-612.0	2,330.9	2,325.7	5.14	453.595		
900.0	900.0	862.0	862.0	3.0	2.9	-15.22	2,249.1	-612.0	2,330.9	2,325.0	5.86	398.058		
1,000.0	1,000.0	962.0	962.0	3.4	3.2	-15.22	2,249.1	-612.0	2,330.9	2,324.3	6.57	354.638	CC, ES	
1,100.0	1,100.0	1,062.0	1,062.0	3.7	3.6	123.99	2,249.1	-612.0	2,332.1	2,324.8	7.27	320.599		
1,200.0	1,199.7	1,161.7	1,161.7	4.0	3.9	124.04	2,249.1	-612.0	2,335.8	2,327.8	7.97	293.224		
1,300.0	1,299.1	1,227.6	1,227.6	4.4	4.2	124.05	2,249.3	-612.0	2,342.3	2,333.8	8.54	274.125		
1,372.0	1,370.4	1,259.6	1,259.5	4.6	4.3	123.99	2,250.0	-612.1	2,349.9	2,341.0	8.91	263.667		
1,400.0	1,398.0	1,271.9	1,271.9	4.7	4.3	124.03	2,250.5	-612.2	2,353.4	2,344.4	9.06	259.866		
1,500.0	1,496.7	1,300.0	1,300.0	5.1	4.4	124.12	2,251.7	-612.3	2,367.6	2,358.1	9.51	249.003		
1,600.0	1,595.4	1,359.6	1,359.4	5.5	4.6	124.33	2,255.7	-612.9	2,383.8	2,373.7	10.08	236.504		
1,700.0	1,694.1	1,400.0	1,399.6	5.9	4.8	124.47	2,259.5	-613.5	2,402.5	2,391.9	10.58	227.151		
1,800.0	1,792.7	1,445.7	1,445.0	6.3	5.0	124.63	2,264.7	-614.2	2,423.4	2,412.3	11.09	218.478		
1,900.0	1,891.4	1,500.0	1,498.8	6.7	5.2	124.82	2,272.4	-615.4	2,446.6	2,434.9	11.64	210.209		
2,000.0	1,990.1	1,533.3	1,531.6	7.1	5.3	124.94	2,277.8	-616.2	2,471.9	2,459.8	12.09	204.401		
2,100.0	2,088.8	1,621.0	1,617.9	7.5	5.6	125.25	2,292.9	-618.4	2,498.5	2,485.7	12.78	195.543		
2,200.0	2,187.5	1,716.3	1,711.8	7.9	6.0	125.57	2,309.3	-620.8	2,525.2	2,511.7	13.50	187.006		
2,300.0	2,286.2	1,811.7	1,805.7	8.3	6.3	125.89	2,325.6	-623.2	2,551.9	2,537.7	14.23	179.321		
2,400.0	2,384.9	1,907.0	1,899.6	8.8	6.7	126.21	2,342.0	-625.6	2,578.8	2,563.8	14.96	172.355		
2,500.0	2,483.5	2,002.4	1,993.5	9.2	7.1	126.51	2,358.4	-627.9	2,605.7	2,590.0	15.70	166.015		
2,600.0	2,582.2	2,102.3	2,087.4	9.6	7.5	126.82	2,374.8	-630.3	2,632.7	2,616.3	16.45	160.059		
2,700.0	2,680.9	2,206.9	2,181.3	10.1	8.0	127.11	2,391.2	-632.7	2,659.8	2,642.6	17.22	154.455		
2,800.0	2,779.6	2,288.4	2,275.2	10.5	8.3	127.40	2,407.6	-635.1	2,686.9	2,669.0	17.91	150.038		
2,900.0	2,878.3	2,383.8	2,369.1	10.9	8.7	127.69	2,423.9	-637.5	2,714.1	2,695.5	18.65	145.539		
3,000.0	2,977.0	2,479.1	2,463.0	11.3	9.1	127.96	2,440.3	-639.9	2,741.4	2,722.0	19.39	141.379		
3,100.0	3,075.7	2,574.5	2,556.9	11.8	9.5	128.24	2,456.7	-642.3	2,768.7	2,748.5	20.13	137.522		
3,200.0	3,174.3	2,669.8	2,650.8	12.2	9.9	128.50	2,473.1	-644.7	2,796.0	2,775.2	20.88	133.938		
3,300.0	3,273.0	2,765.2	2,744.8	12.6	10.3	128.77	2,489.5	-647.1	2,823.5	2,801.8	21.62	130.598		
3,400.0	3,371.7	2,860.5	2,838.7	13.1	10.7	129.02	2,505.9	-649.5	2,851.0	2,828.6	22.36	127.480		
3,500.0	3,470.4	2,955.9	2,932.6	13.5	11.1	129.28	2,522.2	-651.9	2,878.5	2,855.4	23.11	124.563		
3,600.0	3,569.1	3,051.2	3,026.5	14.0	11.6	129.53	2,538.6	-654.3	2,906.1	2,882.2	23.85	121.828		
3,700.0	3,667.8	3,146.6	3,120.4	14.4	12.0	129.77	2,555.0	-656.7	2,933.7	2,909.1	24.60	119.259		
3,800.0	3,766.5	3,241.9	3,214.3	14.8	12.4	130.01	2,571.4	-659.1	2,961.4	2,936.1	25.35	116.842		
3,900.0	3,865.1	3,337.3	3,308.2	15.3	12.8	130.24	2,587.8	-661.5	2,989.1	2,963.0	26.09	114.564		
4,000.0	3,963.8	3,432.6	3,402.1	15.7	13.2	130.47	2,604.2	-663.9	3,016.9	2,990.1	26.84	112.413		
4,100.0	4,062.5	3,528.0	3,496.0	16.1	13.6	130.70	2,620.5	-666.3	3,044.7	3,017.2	27.58	110.380		
4,200.0	4,161.2	3,623.3	3,589.9	16.6	14.0	130.92	2,636.9	-668.7	3,072.6	3,044.3	28.33	108.455		
4,300.0	4,259.9	3,718.7	3,683.8	17.0	14.5	131.14	2,653.3	-671.1	3,100.5	3,071.4	29.08	106.630		
4,400.0	4,358.6	3,814.0	3,777.7	17.5	14.9	131.35	2,669.7	-673.5	3,128.5	3,098.6	29.82	104.897		
4,500.0	4,457.3	3,909.4	3,871.6	17.9	15.3	131.57	2,686.1	-675.9	3,156.5	3,125.9	30.57	103.250		
4,600.0	4,555.9	4,004.7	3,965.5	18.3	15.7	131.77	2,702.5	-678.3	3,184.5	3,153.2	31.32	101.682		
4,700.0	4,654.6	4,100.1	4,059.4	18.8	16.1	131.98	2,718.8	-680.7	3,212.6	3,180.5	32.07	100.189		
4,800.0	4,753.3	4,204.6	4,153.3	19.2	16.6	132.18	2,735.2	-683.1	3,240.7	3,207.8	32.85	98.660		
4,900.0	4,852.0	4,309.2	4,247.2	19.7	17.1	132.37	2,751.6	-685.5	3,268.8	3,235.2	33.63	97.202		
5,000.0	4,950.7	4,386.1	4,341.1	20.1	17.4	132.57	2,768.0	-687.9	3,297.0	3,262.7	34.31	96.104		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	4,481.5	4,435.0	20.6	17.8	132.76	2,784.4	-690.3	3,325.2	3,290.1	35.05	94.860		
5,200.0	5,148.1	4,576.8	4,528.9	21.0	18.2	132.94	2,800.8	-692.6	3,353.4	3,317.6	35.80	93.670		
5,300.0	5,246.7	4,672.2	4,622.8	21.4	18.7	133.13	2,817.1	-695.0	3,381.7	3,345.2	36.55	92.528		
5,400.0	5,345.4	4,767.5	4,716.7	21.9	19.1	133.31	2,833.5	-697.4	3,410.0	3,372.7	37.30	91.434		
5,500.0	5,444.1	4,862.9	4,810.6	22.3	19.5	133.48	2,849.9	-699.8	3,438.4	3,400.3	38.04	90.383		
5,600.0	5,542.8	4,958.2	4,904.5	22.8	19.9	133.66	2,866.3	-702.2	3,466.8	3,428.0	38.79	89.373		
5,700.0	5,641.5	5,053.6	4,998.4	23.2	20.4	133.83	2,882.7	-704.6	3,495.2	3,455.6	39.54	88.402		
5,800.0	5,740.2	5,148.9	5,092.3	23.7	20.8	134.00	2,899.1	-707.0	3,523.6	3,483.3	40.28	87.468		
5,900.0	5,838.9	5,244.3	5,186.2	24.1	21.2	134.17	2,915.4	-709.4	3,552.0	3,511.0	41.03	86.569		
6,000.0	5,937.5	5,339.6	5,280.1	24.5	21.6	134.33	2,931.8	-711.8	3,580.5	3,538.8	41.78	85.702		
6,100.0	6,036.2	5,435.0	5,374.0	25.0	22.0	134.49	2,948.2	-714.2	3,609.0	3,566.5	42.53	84.867		
6,200.0	6,134.9	5,530.3	5,467.9	25.4	22.5	134.65	2,964.6	-716.6	3,637.6	3,594.3	43.27	84.061		
6,300.0	6,233.6	5,625.7	5,561.8	25.9	22.9	134.81	2,981.0	-719.0	3,666.1	3,622.1	44.02	83.283		
6,400.0	6,332.3	5,721.0	5,655.7	26.3	23.3	134.96	2,997.4	-721.4	3,694.7	3,650.0	44.77	82.531		
6,500.0	6,431.0	5,816.4	5,749.6	26.8	23.7	135.12	3,013.7	-723.8	3,723.4	3,677.8	45.52	81.805		
6,600.0	6,529.6	5,911.7	5,843.5	27.2	24.2	135.26	3,030.1	-726.2	3,752.0	3,705.7	46.26	81.102		
6,700.0	6,628.3	6,007.1	5,937.4	27.6	24.6	135.41	3,046.5	-728.6	3,780.7	3,733.6	47.01	80.422		
6,800.0	6,727.0	6,102.4	6,031.3	28.1	25.0	135.56	3,062.9	-731.0	3,809.3	3,761.6	47.76	79.764		
6,900.0	6,825.7	6,197.8	6,125.2	28.5	25.4	135.70	3,079.3	-733.4	3,838.0	3,789.5	48.50	79.127		
7,000.0	6,924.4	6,293.0	6,220.9	29.0	25.8	135.84	3,095.7	-735.8	3,866.3	3,814.0	49.24	78.489		
7,100.0	7,023.1	6,388.3	6,316.2	29.4	26.2	135.97	3,112.0	-738.1	3,894.6	3,842.6	50.00	77.850		
7,200.0	7,121.8	6,483.2	6,411.1	29.9	26.6	136.10	3,128.3	-740.4	3,922.9	3,870.9	50.76	77.211		
7,300.0	7,220.4	6,578.1	6,506.0	30.3	27.0	136.23	3,144.6	-742.7	3,951.2	3,899.2	51.52	76.572		
7,400.0	7,319.1	6,673.0	6,600.9	30.7	27.4	136.36	3,160.9	-745.0	3,979.5	3,927.5	52.28	75.933		
7,466.5	7,384.7	6,747.2	6,675.1	31.0	27.7	136.48	3,168.2	-746.8	3,987.8	3,935.8	52.50	75.714		
7,500.0	7,417.8	6,780.3	6,708.2	31.2	27.9	136.59	3,173.5	-747.9	3,993.1	3,941.1	52.63	75.584		
7,600.0	7,516.9	6,879.4	6,807.3	31.6	28.3	136.71	3,184.6	-749.0	4,004.2	3,952.2	52.75	75.454		
7,700.0	7,616.2	6,978.5	6,906.4	32.0	28.7	136.83	3,195.7	-750.1	4,015.3	3,963.3	52.87	75.324		
7,800.0	7,715.8	7,077.6	7,005.5	32.4	29.1	136.95	3,206.8	-751.2	4,026.4	3,974.4	52.99	75.194		
7,900.0	7,815.6	7,176.7	7,104.6	32.8	29.5	137.07	3,217.9	-752.3	4,037.5	3,985.5	53.11	75.064		
8,000.0	7,915.5	7,275.8	7,203.7	33.1	29.9	137.19	3,229.0	-753.4	4,048.6	3,996.6	53.23	74.934		
8,086.5	8,002.0	7,374.9	7,302.8	33.3	30.1	137.30	3,235.3	-754.5	4,054.9	4,002.9	53.34	74.804		
8,100.0	8,015.5	7,388.2	7,316.1	33.4	30.2	137.41	3,238.6	-754.8	4,058.2	4,006.2	53.37	74.774		
8,150.0	8,065.4	7,437.1	7,365.0	33.5	30.3	137.52	3,241.9	-755.1	4,061.5	4,009.5	53.40	74.744		
8,200.0	8,114.8	7,486.0	7,413.9	33.6	30.4	137.63	3,245.2	-755.4	4,064.8	4,012.8	53.43	74.714		
8,250.0	8,163.3	7,534.9	7,462.8	33.7	30.5	137.74	3,248.5	-755.7	4,068.1	4,016.1	53.46	74.684		
8,300.0	8,210.6	7,583.8	7,511.7	33.8	30.6	137.85	3,251.8	-756.0	4,071.4	4,019.4	53.49	74.654		
8,350.0	8,256.3	7,632.7	7,560.6	33.8	30.6	137.96	3,255.1	-756.3	4,074.7	4,022.7	53.52	74.624		
8,400.0	8,300.1	7,681.6	7,609.5	33.9	30.7	138.07	3,258.4	-756.6	4,078.0	4,026.0	53.55	74.594		
8,450.0	8,341.6	7,730.5	7,658.4	33.9	30.7	138.18	3,261.7	-756.9	4,081.3	4,029.3	53.58	74.564		
8,500.0	8,380.6	7,779.4	7,707.3	33.9	30.7	138.29	3,265.0	-757.2	4,084.6	4,032.6	53.61	74.534		
8,550.0	8,416.6	7,828.3	7,756.2	33.9	30.8	138.40	3,268.3	-757.5	4,087.9	4,035.9	53.64	74.504		
8,600.0	8,449.5	7,877.2	7,805.1	33.9	30.8	138.51	3,271.6	-757.8	4,091.2	4,039.2	53.67	74.474		
8,650.0	8,479.0	7,926.1	7,854.0	33.9	30.9	138.62	3,274.9	-758.1	4,094.5	4,042.5	53.70	74.444		
8,700.0	8,504.8	7,975.0	7,902.9	33.9	30.9	138.73	3,278.2	-758.4	4,097.8	4,045.8	53.73	74.414		
8,750.0	8,526.9	8,023.9	7,951.8	33.8	30.0	138.84	3,281.5	-758.7	4,101.1	4,049.1	53.76	74.384		
8,800.0	8,544.9	8,072.8	8,000.7	33.8	30.1	138.95	3,284.8	-759.0	4,104.4	4,052.4	53.79	74.354		
8,850.0	8,558.8	8,121.7	8,049.6	33.8	30.3	139.06	3,288.1	-759.3	4,107.7	4,055.7	53.82	74.324		
8,900.0	8,568.4	8,170.6	8,098.5	33.7	30.3	139.17	3,291.4	-759.6	4,111.0	4,059.0	53.85	74.294		
8,950.0	8,573.8	8,219.5	8,147.4	33.7	30.7	139.28	3,294.7	-759.9	4,114.3	4,062.3	53.88	74.264		
8,986.5	8,575.0	8,268.4	8,149.6	33.7	31.0	139.39	3,298.0	-760.2	4,117.6	4,065.6	53.91	74.234		
8,993.2	8,575.0	8,268.4	8,149.6	33.8	31.1	139.50	3,301.3	-760.5	4,120.9	4,068.9	53.94	74.204		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
9,000.0	8,575.0	7,857.1	7,368.3	33.8	31.2	-73.56	3,155.3	-85.5	4,128.4	4,067.6	60.79	67.910		
9,100.0	8,575.0	7,957.1	7,370.7	33.9	32.2	-73.59	3,155.4	14.4	4,127.7	4,065.2	62.53	66.013		
9,200.0	8,575.0	8,057.1	7,373.2	34.4	33.4	-73.62	3,155.5	114.4	4,127.0	4,062.5	64.56	63.922		
9,300.0	8,575.0	8,157.0	7,375.7	35.3	34.8	-73.65	3,155.6	214.3	4,126.3	4,059.5	66.87	61.708		
9,400.0	8,575.0	8,257.0	7,378.2	36.3	36.3	-73.69	3,155.8	314.3	4,125.6	4,056.2	69.42	59.430		
9,500.0	8,575.0	8,357.0	7,380.7	37.6	37.9	-73.72	3,155.9	414.2	4,125.0	4,052.8	72.19	57.138		
9,600.0	8,575.0	8,457.0	7,383.1	38.9	39.6	-73.75	3,156.0	514.1	4,124.3	4,049.1	75.16	54.872		
9,700.0	8,575.0	8,556.9	7,385.6	40.4	41.4	-73.79	3,156.1	614.1	4,123.6	4,045.3	78.31	52.660		
9,800.0	8,575.0	8,656.9	7,388.1	41.9	43.3	-73.82	3,156.2	714.0	4,122.9	4,041.3	81.60	50.523		
9,900.0	8,575.0	8,756.9	7,390.6	43.6	45.2	-73.85	3,156.4	813.9	4,122.2	4,037.2	85.04	48.472		
10,000.0	8,575.0	8,856.8	7,393.1	45.3	47.1	-73.89	3,156.5	913.9	4,121.5	4,032.9	88.60	46.517		
10,100.0	8,575.0	8,956.8	7,395.5	47.0	49.1	-73.92	3,156.6	1,013.8	4,120.8	4,028.6	92.27	44.660		
10,200.0	8,575.0	9,056.8	7,398.0	48.9	51.2	-73.95	3,156.7	1,113.8	4,120.2	4,024.1	96.04	42.903		
10,300.0	8,575.0	9,156.7	7,400.5	50.8	53.2	-73.99	3,156.8	1,213.7	4,119.5	4,019.6	99.89	41.242		
10,400.0	8,575.0	9,256.7	7,403.0	52.7	55.3	-74.02	3,157.0	1,313.6	4,118.8	4,015.0	103.81	39.676		
10,500.0	8,575.0	9,356.7	7,405.5	54.7	57.5	-74.05	3,157.1	1,413.6	4,118.1	4,010.3	107.81	38.199		
10,600.0	8,575.0	9,456.6	7,407.9	56.7	59.6	-74.09	3,157.2	1,513.5	4,117.4	4,005.6	111.86	36.808		
10,700.0	8,575.0	9,556.6	7,410.4	58.7	61.8	-74.12	3,157.3	1,613.5	4,116.8	4,000.8	115.97	35.498		
10,800.0	8,575.0	9,656.6	7,412.9	60.8	64.0	-74.15	3,157.4	1,713.4	4,116.1	3,996.0	120.13	34.263		
10,900.0	8,575.0	9,756.6	7,415.4	62.9	66.2	-74.18	3,157.6	1,813.3	4,115.4	3,991.1	124.34	33.099		
11,000.0	8,575.0	9,856.5	7,417.9	65.0	68.5	-74.22	3,157.7	1,913.3	4,114.8	3,986.2	128.58	32.001		
11,100.0	8,575.0	9,956.5	7,420.3	67.1	70.7	-74.25	3,157.8	2,013.2	4,114.1	3,981.2	132.86	30.965		
11,200.0	8,575.0	10,056.5	7,422.8	69.3	73.0	-74.28	3,157.9	2,113.1	4,113.4	3,976.2	137.18	29.986		
11,300.0	8,575.0	10,156.4	7,425.3	71.5	75.2	-74.32	3,158.1	2,213.1	4,112.8	3,971.2	141.52	29.061		
11,400.0	8,575.0	10,256.4	7,427.8	73.7	77.5	-74.35	3,158.2	2,313.0	4,112.1	3,966.2	145.89	28.185		
11,500.0	8,575.0	10,356.4	7,430.3	75.9	79.8	-74.38	3,158.3	2,413.0	4,111.4	3,961.1	150.29	27.356		
11,600.0	8,575.0	10,456.3	7,432.7	78.2	82.1	-74.42	3,158.4	2,512.9	4,110.8	3,956.1	154.71	26.570		
11,700.0	8,575.0	10,556.3	7,435.2	80.4	84.4	-74.45	3,158.5	2,612.8	4,110.1	3,951.0	159.16	25.824		
11,800.0	8,575.0	10,656.3	7,437.7	82.7	86.8	-74.48	3,158.7	2,712.8	4,109.4	3,945.8	163.62	25.116		
11,900.0	8,575.0	10,756.2	7,440.2	84.9	89.1	-74.52	3,158.8	2,812.7	4,108.8	3,940.7	168.10	24.443		
12,000.0	8,575.0	10,856.2	7,442.7	87.2	91.4	-74.55	3,158.9	2,912.7	4,108.1	3,935.5	172.60	23.802		
12,100.0	8,575.0	10,956.2	7,445.2	89.5	93.8	-74.58	3,159.0	3,012.6	4,107.5	3,930.4	177.11	23.191		
12,200.0	8,575.0	11,056.2	7,447.6	91.8	96.1	-74.62	3,159.1	3,112.5	4,106.8	3,925.2	181.64	22.610		
12,300.0	8,575.0	11,156.1	7,450.1	94.1	98.5	-74.65	3,159.3	3,212.5	4,106.2	3,920.0	186.18	22.055		
12,400.0	8,575.0	11,256.1	7,452.6	96.4	100.8	-74.68	3,159.4	3,312.4	4,105.5	3,914.8	190.74	21.524		
12,500.0	8,575.0	11,356.1	7,455.1	98.7	103.2	-74.72	3,159.5	3,412.3	4,104.9	3,909.6	195.31	21.018		
12,600.0	8,575.0	11,456.0	7,457.6	101.0	105.5	-74.75	3,159.6	3,512.3	4,104.2	3,904.3	199.88	20.533		
12,700.0	8,575.0	11,556.0	7,460.0	103.4	107.9	-74.78	3,159.7	3,612.2	4,103.6	3,899.1	204.47	20.069		
12,800.0	8,575.0	11,656.0	7,462.5	105.7	110.3	-74.82	3,159.9	3,712.2	4,102.9	3,893.9	209.07	19.624		
12,900.0	8,575.0	11,755.9	7,465.0	108.0	112.7	-74.85	3,160.0	3,812.1	4,102.3	3,888.6	213.68	19.198		
13,000.0	8,575.0	11,855.9	7,467.5	110.4	115.0	-74.89	3,160.1	3,912.0	4,101.6	3,883.3	218.30	18.789		
13,100.0	8,575.0	11,955.9	7,470.0	112.7	117.4	-74.92	3,160.2	4,012.0	4,101.0	3,878.1	222.93	18.396		
13,200.0	8,575.0	12,055.8	7,472.4	115.1	119.8	-74.95	3,160.3	4,111.9	4,100.4	3,872.8	227.56	18.019		
13,300.0	8,575.0	12,155.8	7,474.9	117.5	122.2	-74.99	3,160.5	4,211.9	4,099.7	3,867.5	232.20	17.656		
13,400.0	8,575.0	12,255.8	7,477.4	119.8	124.6	-75.02	3,160.6	4,311.8	4,099.1	3,862.2	236.85	17.307		
13,500.0	8,575.0	12,355.8	7,479.9	122.2	127.0	-75.05	3,160.7	4,411.7	4,098.5	3,857.0	241.51	16.970		
13,600.0	8,575.0	12,455.7	7,482.4	124.6	129.4	-75.09	3,160.8	4,511.7	4,097.8	3,851.7	246.17	16.646		
13,700.0	8,575.0	12,555.7	7,484.8	126.9	131.8	-75.12	3,161.0	4,611.6	4,097.2	3,846.4	250.84	16.334		
13,800.0	8,575.0	12,655.7	7,487.3	129.3	134.2	-75.15	3,161.1	4,711.5	4,096.6	3,841.0	255.51	16.033		
13,900.0	8,575.0	12,755.6	7,489.8	131.7	136.6	-75.19	3,161.2	4,811.5	4,095.9	3,835.7	260.20	15.742		
14,000.0	8,575.0	12,855.6	7,492.3	134.1	139.0	-75.22	3,161.3	4,911.4	4,095.3	3,830.4	264.88	15.461		
14,100.0	8,575.0	12,955.6	7,494.8	136.4	141.4	-75.25	3,161.4	5,011.4	4,094.7	3,825.1	269.57	15.189		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	8,575.0	13,055.5	7,497.2	138.8	143.8	-75.29	3,161.6	5,111.3	4,094.1	3,819.8	274.27	14.927		
14,300.0	8,575.0	13,155.5	7,499.7	141.2	146.2	-75.32	3,161.7	5,211.2	4,093.4	3,814.5	278.97	14.673		
14,400.0	8,575.0	13,255.5	7,502.2	143.6	148.6	-75.35	3,161.8	5,311.2	4,092.8	3,809.1	283.68	14.428		
14,500.0	8,575.0	13,355.4	7,504.7	146.0	151.0	-75.39	3,161.9	5,411.1	4,092.2	3,803.8	288.39	14.190		
14,600.0	8,575.0	13,455.4	7,507.2	148.4	153.4	-75.42	3,162.0	5,511.1	4,091.6	3,798.5	293.10	13.959		
14,700.0	8,575.0	13,555.4	7,509.6	150.8	155.8	-75.46	3,162.2	5,611.0	4,090.9	3,793.1	297.82	13.736		
14,800.0	8,575.0	13,655.4	7,512.1	153.2	158.3	-75.49	3,162.3	5,710.9	4,090.3	3,787.8	302.55	13.520		
14,900.0	8,575.0	13,755.3	7,514.6	155.6	160.7	-75.52	3,162.4	5,810.9	4,089.7	3,782.4	307.27	13.310		
15,000.0	8,575.0	13,855.3	7,517.1	158.0	163.1	-75.56	3,162.5	5,910.8	4,089.1	3,777.1	312.00	13.106		
15,100.0	8,575.0	13,955.3	7,519.6	160.4	165.5	-75.59	3,162.6	6,010.7	4,088.5	3,771.8	316.74	12.908		
15,200.0	8,575.0	14,055.2	7,522.0	162.8	167.9	-75.62	3,162.8	6,110.7	4,087.9	3,766.4	321.48	12.716		
15,300.0	8,575.0	14,155.2	7,524.5	165.2	170.4	-75.66	3,162.9	6,210.6	4,087.3	3,761.1	326.22	12.529		
15,400.0	8,575.0	14,255.2	7,527.0	167.6	172.8	-75.69	3,163.0	6,310.6	4,086.7	3,755.7	330.96	12.348		
15,500.0	8,575.0	14,355.1	7,529.5	170.0	175.2	-75.73	3,163.1	6,410.5	4,086.1	3,750.3	335.71	12.171		
15,600.0	8,575.0	14,455.1	7,532.0	172.5	177.6	-75.76	3,163.2	6,510.4	4,085.4	3,745.0	340.46	12.000		
15,700.0	8,575.0	14,555.1	7,534.4	174.9	180.0	-75.79	3,163.4	6,610.4	4,084.8	3,739.6	345.22	11.833		
15,800.0	8,575.0	14,655.0	7,536.9	177.3	182.5	-75.83	3,163.5	6,710.3	4,084.2	3,734.3	349.97	11.670		
15,900.0	8,575.0	14,755.0	7,539.4	179.7	184.9	-75.86	3,163.6	6,810.3	4,083.6	3,728.9	354.73	11.512		
16,000.0	8,575.0	14,855.0	7,541.9	182.1	187.3	-75.89	3,163.7	6,910.2	4,083.0	3,723.5	359.50	11.358		
16,100.0	8,575.0	14,955.0	7,544.4	184.5	189.7	-75.93	3,163.8	7,010.1	4,082.4	3,718.2	364.26	11.207		
16,200.0	8,575.0	15,054.9	7,546.8	187.0	192.2	-75.96	3,164.0	7,110.1	4,081.8	3,712.8	369.03	11.061		
16,300.0	8,575.0	15,154.9	7,549.3	189.4	194.6	-76.00	3,164.1	7,210.0	4,081.2	3,707.4	373.80	10.918		
16,400.0	8,575.0	15,254.9	7,551.8	191.8	197.0	-76.03	3,164.2	7,309.9	4,080.7	3,702.1	378.58	10.779		
16,500.0	8,575.0	15,354.8	7,554.3	194.2	199.5	-76.06	3,164.3	7,409.9	4,080.1	3,696.7	383.35	10.643		
16,600.0	8,575.0	15,454.8	7,556.8	196.6	201.9	-76.10	3,164.5	7,509.8	4,079.5	3,691.3	388.13	10.510		
16,700.0	8,575.0	15,554.8	7,559.2	199.1	204.3	-76.13	3,164.6	7,609.8	4,078.9	3,686.0	392.91	10.381		
16,800.0	8,575.0	15,654.7	7,561.7	201.5	206.8	-76.16	3,164.7	7,709.7	4,078.3	3,680.6	397.70	10.255		
16,900.0	8,575.0	15,754.7	7,564.2	203.9	209.2	-76.20	3,164.8	7,809.6	4,077.7	3,675.2	402.48	10.131		
17,000.0	8,575.0	15,854.7	7,566.7	206.3	211.6	-76.23	3,164.9	7,909.6	4,077.1	3,669.8	407.27	10.011		
17,100.0	8,575.0	15,954.6	7,569.2	208.8	214.1	-76.27	3,165.1	8,009.5	4,076.5	3,664.5	412.06	9.893		
17,200.0	8,575.0	16,054.6	7,571.6	211.2	216.5	-76.30	3,165.2	8,109.5	4,076.0	3,659.1	416.86	9.778		
17,300.0	8,575.0	16,154.6	7,574.1	213.6	218.9	-76.33	3,165.3	8,209.4	4,075.4	3,653.7	421.65	9.665		
17,400.0	8,575.0	16,254.6	7,576.6	216.0	221.4	-76.37	3,165.4	8,309.3	4,074.8	3,648.3	426.45	9.555		
17,500.0	8,575.0	16,354.5	7,579.1	218.5	223.8	-76.40	3,165.5	8,409.3	4,074.2	3,643.0	431.25	9.448		
17,600.0	8,575.0	16,454.5	7,581.6	220.9	226.2	-76.44	3,165.7	8,509.2	4,073.6	3,637.6	436.05	9.342		
17,700.0	8,575.0	16,554.5	7,584.0	223.3	228.7	-76.47	3,165.8	8,609.1	4,073.1	3,632.2	440.85	9.239		
17,800.0	8,575.0	16,654.4	7,586.5	225.8	231.1	-76.50	3,165.9	8,709.1	4,072.5	3,626.8	445.66	9.138		
17,900.0	8,575.0	16,754.4	7,589.0	228.2	233.5	-76.54	3,166.0	8,809.0	4,071.9	3,621.5	450.46	9.039		
18,000.0	8,575.0	16,854.4	7,591.5	230.6	236.0	-76.57	3,166.1	8,909.0	4,071.3	3,616.1	455.27	8.943		
18,100.0	8,575.0	16,954.3	7,594.0	233.0	238.4	-76.61	3,166.3	9,008.9	4,070.8	3,610.7	460.08	8.848		
18,200.0	8,575.0	17,054.3	7,596.4	235.5	240.8	-76.64	3,166.4	9,108.8	4,070.2	3,605.3	464.90	8.755		
18,300.0	8,575.0	17,154.3	7,598.9	237.9	243.3	-76.67	3,166.5	9,208.8	4,069.6	3,599.9	469.71	8.664		
18,400.0	8,575.0	17,254.2	7,601.4	240.3	245.7	-76.71	3,166.6	9,308.7	4,069.1	3,594.5	474.53	8.575		
18,500.0	8,575.0	17,354.2	7,603.9	242.8	248.2	-76.74	3,166.7	9,408.6	4,068.5	3,589.2	479.34	8.488		
18,600.0	8,575.0	17,454.2	7,606.4	245.2	250.6	-76.78	3,166.9	9,508.6	4,067.9	3,583.8	484.16	8.402		
18,700.0	8,575.0	17,554.2	7,608.9	247.6	253.0	-76.81	3,167.0	9,608.5	4,067.4	3,578.4	488.99	8.318		
18,800.0	8,575.0	17,654.1	7,611.3	250.1	255.5	-76.84	3,167.1	9,708.5	4,066.8	3,573.0	493.81	8.236		
18,900.0	8,575.0	17,754.1	7,613.8	252.5	257.9	-76.88	3,167.2	9,808.4	4,066.3	3,567.6	498.63	8.155		
19,000.0	8,575.0	17,854.1	7,616.3	255.0	260.4	-76.91	3,167.3	9,908.3	4,065.7	3,562.2	503.46	8.076		
19,100.0	8,575.0	17,954.0	7,618.8	257.4	262.8	-76.95	3,167.5	10,008.3	4,065.2	3,556.9	508.29	7.998		
19,200.0	8,575.0	18,054.0	7,621.3	259.8	265.2	-76.98	3,167.6	10,108.2	4,064.6	3,551.5	513.12	7.921		
19,300.0	8,575.0	18,154.0	7,623.7	262.3	267.7	-77.01	3,167.7	10,208.2	4,064.0	3,546.1	517.95	7.846		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #113H - BLM Plan #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	8,575.0	18,253.9	7,626.2	264.7	270.1	-77.05	3,167.8	10,308.1	4,063.5	3,540.7	522.78	7.773	
19,500.0	8,575.0	18,353.9	7,628.7	267.1	272.6	-77.08	3,168.0	10,408.0	4,062.9	3,535.3	527.62	7.701	
19,600.0	8,575.0	18,453.9	7,631.2	269.6	275.0	-77.12	3,168.1	10,508.0	4,062.4	3,529.9	532.45	7.630	
19,700.0	8,575.0	18,553.8	7,633.7	272.0	277.4	-77.15	3,168.2	10,607.9	4,061.9	3,524.6	537.29	7.560	
19,800.0	8,575.0	18,653.8	7,636.1	274.5	279.9	-77.18	3,168.3	10,707.8	4,061.3	3,519.2	542.13	7.491	
19,900.0	8,575.0	18,753.8	7,638.6	276.9	282.3	-77.22	3,168.4	10,807.8	4,060.8	3,513.8	546.97	7.424	
20,000.0	8,575.0	18,853.8	7,641.1	279.3	284.8	-77.25	3,168.6	10,907.7	4,060.2	3,508.4	551.81	7.358	
20,100.0	8,575.0	18,953.7	7,643.6	281.8	287.2	-77.29	3,168.7	11,007.7	4,059.7	3,503.0	556.66	7.293	
20,200.0	8,575.0	19,053.7	7,646.1	284.2	289.7	-77.32	3,168.8	11,107.6	4,059.1	3,497.6	561.50	7.229	
20,300.0	8,575.0	19,153.7	7,648.5	286.6	292.1	-77.35	3,168.9	11,207.5	4,058.6	3,492.3	566.35	7.166	
20,400.0	8,575.0	19,253.6	7,651.0	289.1	294.5	-77.39	3,169.0	11,307.5	4,058.1	3,486.9	571.20	7.105	
20,500.0	8,575.0	19,353.6	7,653.5	291.5	297.0	-77.42	3,169.2	11,407.4	4,057.5	3,481.5	576.04	7.044	
20,600.0	8,575.0	19,453.6	7,656.0	294.0	299.4	-77.46	3,169.3	11,507.4	4,057.0	3,476.1	580.90	6.984	
20,700.0	8,575.0	19,553.5	7,658.5	296.4	301.9	-77.49	3,169.4	11,607.3	4,056.5	3,470.7	585.75	6.925	
20,800.0	8,575.0	19,653.5	7,660.9	298.9	304.3	-77.53	3,169.5	11,707.2	4,055.9	3,465.3	590.60	6.867	
20,900.0	8,575.0	19,753.5	7,663.4	301.3	306.8	-77.56	3,169.6	11,807.2	4,055.4	3,459.9	595.45	6.811	
21,000.0	8,575.0	19,853.4	7,665.9	303.7	309.2	-77.59	3,169.8	11,907.1	4,054.9	3,454.6	600.31	6.755	
21,100.0	8,575.0	19,953.4	7,668.4	306.2	311.7	-77.63	3,169.9	12,007.0	4,054.3	3,449.2	605.17	6.700	
21,200.0	8,575.0	20,039.0	7,670.5	308.6	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,444.2	609.69	6.649	
21,206.8	8,575.0	20,039.0	7,670.5	308.8	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,444.0	609.85	6.647	
21,213.6	8,575.0	20,039.0	7,670.5	309.0	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,443.8	610.02	6.645 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-14.99	2,169.5	-580.8	2,246.2					
100.0	100.0	62.0	62.0	0.1	0.1	-14.99	2,169.5	-580.8	2,245.9	2,245.7	0.21	N/A		
200.0	200.0	162.0	162.0	0.5	0.4	-14.99	2,169.5	-580.8	2,245.9	2,245.1	0.84	2,683.162		
300.0	300.0	262.0	262.0	0.8	0.7	-14.99	2,169.5	-580.8	2,245.9	2,244.3	1.55	1,445.256		
400.0	400.0	362.0	362.0	1.2	1.1	-14.99	2,169.5	-580.8	2,245.9	2,243.6	2.27	988.979		
500.0	500.0	462.0	462.0	1.6	1.4	-14.99	2,169.5	-580.8	2,245.9	2,242.9	2.99	751.672		
600.0	600.0	562.0	562.0	1.9	1.8	-14.99	2,169.5	-580.8	2,245.9	2,242.2	3.70	606.210		
700.0	700.0	662.0	662.0	2.3	2.1	-14.99	2,169.5	-580.8	2,245.9	2,241.5	4.42	507.919		
800.0	800.0	762.0	762.0	2.6	2.5	-14.99	2,169.5	-580.8	2,245.9	2,240.8	5.14	437.055		
900.0	900.0	862.0	862.0	3.0	2.9	-14.99	2,169.5	-580.8	2,245.9	2,240.0	5.86	383.544		
1,000.0	1,000.0	962.0	962.0	3.4	3.2	-14.99	2,169.5	-580.8	2,245.9	2,239.3	6.57	341.706 CC		
1,100.0	1,100.0	1,062.0	1,062.0	3.7	3.6	124.22	2,169.5	-580.8	2,247.1	2,239.8	7.27	308.916		
1,200.0	1,199.7	1,161.7	1,161.7	4.0	3.9	124.28	2,169.5	-580.8	2,250.8	2,242.8	7.97	282.557		
1,300.0	1,299.1	1,261.1	1,261.1	4.4	4.3	124.38	2,169.5	-580.8	2,257.0	2,248.3	8.67	260.469		
1,372.0	1,370.4	1,332.4	1,332.4	4.6	4.5	124.48	2,169.5	-580.8	2,263.0	2,253.8	9.17	246.656		
1,400.0	1,398.0	1,360.0	1,360.0	4.7	4.6	124.57	2,169.5	-580.8	2,265.5	2,256.2	9.37	241.677		
1,500.0	1,496.7	1,458.7	1,458.7	5.1	5.0	124.90	2,169.5	-580.8	2,274.8	2,264.7	10.09	225.439		
1,600.0	1,595.4	1,557.4	1,557.4	5.5	5.4	125.23	2,169.5	-580.8	2,284.2	2,273.4	10.82	211.205		
1,700.0	1,694.1	1,656.1	1,656.1	5.9	5.7	125.56	2,169.5	-580.8	2,293.6	2,282.1	11.55	198.655		
1,800.0	1,792.7	1,754.7	1,754.7	6.3	6.1	125.88	2,169.5	-580.8	2,303.2	2,290.9	12.28	187.530		
1,900.0	1,891.4	1,853.4	1,853.4	6.7	6.4	126.20	2,169.5	-580.8	2,312.8	2,299.7	13.02	177.613		
2,000.0	1,990.1	1,952.1	1,952.1	7.1	6.8	126.52	2,169.5	-580.8	2,322.4	2,308.7	13.76	168.729		
2,100.0	2,088.8	2,076.0	2,076.0	7.5	7.2	126.91	2,169.0	-581.0	2,331.9	2,317.3	14.59	159.839		
2,200.0	2,187.5	2,224.5	2,224.4	7.9	7.7	127.33	2,165.4	-582.6	2,339.6	2,324.1	15.47	151.213		
2,300.0	2,286.2	2,373.9	2,373.6	8.3	8.2	127.69	2,158.3	-585.7	2,345.2	2,328.8	16.36	143.380		
2,400.0	2,384.9	2,523.9	2,523.2	8.8	8.7	127.99	2,147.5	-590.4	2,348.7	2,331.5	17.25	136.195		
2,500.0	2,483.5	2,674.5	2,672.9	9.2	9.2	128.25	2,133.1	-596.6	2,350.1	2,332.0	18.14	129.578		
2,600.0	2,582.2	2,816.8	2,814.0	9.6	9.7	128.43	2,116.2	-603.9	2,349.4	2,330.4	19.01	123.618		
2,700.0	2,680.9	2,916.7	2,912.9	10.1	10.1	128.55	2,103.4	-609.5	2,348.0	2,328.2	19.76	118.844		
2,800.0	2,779.6	3,016.5	3,011.8	10.5	10.4	128.67	2,090.7	-615.0	2,346.5	2,326.0	20.51	114.400		
2,900.0	2,878.3	3,116.4	3,110.7	10.9	10.8	128.79	2,077.9	-620.5	2,345.1	2,323.8	21.27	110.256		
3,000.0	2,977.0	3,216.3	3,209.6	11.3	11.2	128.91	2,065.2	-626.0	2,343.7	2,321.6	22.03	106.383		
3,100.0	3,075.7	3,316.1	3,308.5	11.8	11.5	129.03	2,052.4	-631.6	2,342.2	2,319.4	22.79	102.757		
3,200.0	3,174.3	3,416.0	3,407.4	12.2	11.9	129.14	2,039.7	-637.1	2,340.8	2,317.3	23.56	99.357		
3,300.0	3,273.0	3,515.9	3,506.3	12.6	12.3	129.26	2,026.9	-642.6	2,339.4	2,315.1	24.33	96.164		
3,400.0	3,371.7	3,615.8	3,605.2	13.1	12.7	129.38	2,014.1	-648.1	2,338.1	2,313.0	25.10	93.161		
3,500.0	3,470.4	3,715.6	3,704.1	13.5	13.1	129.50	2,001.4	-653.7	2,336.7	2,310.8	25.87	90.330		
3,600.0	3,569.1	3,815.5	3,803.0	14.0	13.5	129.62	1,988.6	-659.2	2,335.3	2,308.7	26.64	87.660		
3,700.0	3,667.8	3,915.4	3,901.9	14.4	13.9	129.74	1,975.9	-664.7	2,334.0	2,306.6	27.41	85.136		
3,800.0	3,766.5	4,015.2	4,000.8	14.8	14.2	129.86	1,963.1	-670.3	2,332.6	2,304.4	28.19	82.748		
3,900.0	3,865.1	4,115.1	4,099.7	15.3	14.6	129.98	1,950.4	-675.8	2,331.3	2,302.3	28.97	80.485		
4,000.0	3,963.8	4,215.0	4,198.6	15.7	15.0	130.10	1,937.6	-681.3	2,330.0	2,300.2	29.74	78.339		
4,100.0	4,062.5	4,314.9	4,297.5	16.1	15.4	130.22	1,924.9	-686.8	2,328.7	2,298.1	30.52	76.300		
4,200.0	4,161.2	4,414.7	4,396.4	16.6	15.8	130.34	1,912.1	-692.4	2,327.4	2,296.1	31.30	74.362		
4,300.0	4,259.9	4,514.6	4,495.3	17.0	16.2	130.46	1,899.4	-697.9	2,326.1	2,294.0	32.08	72.516		
4,400.0	4,358.6	4,614.5	4,594.2	17.5	16.6	130.58	1,886.6	-703.4	2,324.8	2,291.9	32.86	70.757		
4,500.0	4,457.3	4,714.3	4,693.1	17.9	17.0	130.70	1,873.9	-708.9	2,323.5	2,289.9	33.64	69.079		
4,600.0	4,555.9	4,795.5	4,773.5	18.3	17.4	130.80	1,863.6	-713.4	2,322.5	2,288.1	34.36	67.597		
4,630.6	4,586.1	4,815.7	4,793.5	18.5	17.5	130.83	1,861.3	-714.4	2,322.4	2,287.8	34.56	67.194		
4,700.0	4,654.6	4,861.4	4,838.9	18.8	17.6	130.90	1,856.3	-716.5	2,322.8	2,287.7	35.02	66.320		
4,800.0	4,753.3	4,927.1	4,904.3	19.2	17.9	131.01	1,850.0	-719.3	2,324.5	2,288.8	35.68	65.150		
4,900.0	4,852.0	5,000.0	4,976.9	19.7	18.2	131.15	1,844.3	-721.7	2,327.8	2,291.4	36.35	64.036		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
5,000.0	4,950.7	5,058.2	5,034.9	20.1	18.4	131.27	1,840.6	-723.3	2,332.5	2,295.5	36.96	63.114		
5,100.0	5,049.4	5,123.4	5,100.1	20.6	18.6	131.42	1,837.4	-724.7	2,338.7	2,301.1	37.58	62.238		
5,200.0	5,148.1	5,188.4	5,165.0	21.0	18.8	131.59	1,835.3	-725.6	2,346.4	2,308.2	38.18	61.450		
5,300.0	5,246.7	5,253.1	5,229.7	21.4	19.1	131.76	1,834.2	-726.1	2,355.6	2,316.9	38.78	60.750		
5,400.0	5,345.4	5,330.8	5,307.4	21.9	19.3	131.99	1,834.0	-726.2	2,366.2	2,326.8	39.41	60.037		
5,500.0	5,444.1	5,429.5	5,406.1	22.3	19.6	132.28	1,834.0	-726.2	2,377.1	2,337.0	40.14	59.223		
5,600.0	5,542.8	5,528.2	5,504.8	22.8	20.0	132.56	1,834.0	-726.2	2,388.1	2,347.3	40.87	58.438		
5,700.0	5,641.5	5,626.9	5,603.5	23.2	20.3	132.84	1,834.0	-726.2	2,399.2	2,357.6	41.59	57.683		
5,800.0	5,740.2	5,725.6	5,702.2	23.7	20.6	133.12	1,834.0	-726.2	2,410.3	2,367.9	42.32	56.954		
5,900.0	5,838.9	5,824.2	5,800.9	24.1	20.9	133.40	1,834.0	-726.2	2,421.4	2,378.4	43.05	56.250		
6,000.0	5,937.5	5,922.9	5,899.5	24.5	21.3	133.67	1,834.0	-726.2	2,432.6	2,388.8	43.77	55.571		
6,100.0	6,036.2	6,021.6	5,998.2	25.0	21.6	133.95	1,834.0	-726.2	2,443.9	2,399.4	44.50	54.915		
6,200.0	6,134.9	6,120.3	6,096.9	25.4	21.9	134.22	1,834.0	-726.2	2,455.2	2,410.0	45.23	54.282		
6,300.0	6,233.6	6,219.0	6,195.6	25.9	22.3	134.48	1,834.0	-726.2	2,466.6	2,420.6	45.96	53.669		
6,400.0	6,332.3	6,317.7	6,294.3	26.3	22.6	134.75	1,834.0	-726.2	2,478.0	2,431.3	46.69	53.076		
6,500.0	6,431.0	6,416.4	6,393.0	26.8	22.9	135.01	1,834.0	-726.2	2,489.5	2,442.1	47.42	52.503		
6,600.0	6,529.6	6,515.0	6,491.6	27.2	23.3	135.27	1,834.0	-726.2	2,501.0	2,452.9	48.14	51.948		
6,700.0	6,628.3	6,613.7	6,590.3	27.6	23.6	135.53	1,834.0	-726.2	2,512.6	2,463.7	48.87	51.410		
6,800.0	6,727.0	6,712.4	6,689.0	28.1	23.9	135.78	1,834.0	-726.2	2,524.2	2,474.6	49.60	50.889		
6,900.0	6,825.7	6,811.1	6,787.7	28.5	24.3	136.04	1,834.0	-726.2	2,535.9	2,485.6	50.33	50.385		
7,000.0	6,924.4	6,923.2	6,899.6	29.0	24.6	136.42	1,834.0	-721.6	2,547.5	2,496.4	51.10	49.849		
7,100.0	7,023.1	7,034.6	7,008.1	29.4	25.0	137.25	1,834.0	-697.0	2,558.6	2,506.8	51.80	49.389		
7,200.0	7,121.8	7,129.3	7,095.1	29.9	25.2	138.29	1,834.1	-659.9	2,569.9	2,517.5	52.39	49.052		
7,300.0	7,220.4	7,206.9	7,161.1	30.3	25.4	139.36	1,834.1	-619.1	2,582.2	2,529.3	52.89	48.822		
7,400.0	7,319.1	7,269.5	7,209.8	30.7	25.5	140.34	1,834.2	-580.0	2,596.4	2,543.1	53.32	48.692		
7,466.5	7,384.7	7,304.2	7,234.9	31.0	25.6	140.93	1,834.2	-556.1	2,607.0	2,553.5	53.57	48.665		
7,500.0	7,417.8	7,319.9	7,245.9	31.2	25.6	141.26	1,834.2	-544.7	2,612.7	2,559.0	53.69	48.666		
7,600.0	7,516.9	7,361.7	7,273.3	31.6	25.6	142.17	1,834.3	-513.2	2,630.2	2,576.2	53.98	48.724		
7,700.0	7,616.2	7,400.0	7,296.3	32.0	25.7	143.05	1,834.3	-482.6	2,648.5	2,594.2	54.21	48.854		
7,800.0	7,715.8	7,427.1	7,311.4	32.4	25.8	143.73	1,834.3	-460.1	2,667.7	2,613.3	54.34	49.091		
7,900.0	7,815.6	7,450.0	7,323.2	32.8	25.9	144.35	1,834.4	-440.5	2,687.9	2,633.5	54.39	49.423		
8,000.0	7,915.5	7,476.4	7,335.9	33.1	26.0	145.04	1,834.4	-417.4	2,709.2	2,654.8	54.40	49.799		
8,086.5	8,002.0	7,500.0	7,346.4	33.3	26.2	6.48	1,834.4	-396.2	2,728.4	2,674.1	54.36	50.189		
8,100.0	8,015.5	7,500.0	7,346.4	33.4	26.2	-83.00	1,834.4	-396.2	2,731.5	2,677.2	54.33	50.279		
8,150.0	8,065.4	7,500.0	7,346.4	33.5	26.2	-81.82	1,834.4	-396.2	2,743.1	2,688.9	54.18	50.634		
8,200.0	8,114.8	7,519.1	7,354.2	33.6	26.3	-80.29	1,834.4	-378.8	2,754.8	2,700.6	54.14	50.881		
8,250.0	8,163.3	7,531.4	7,358.9	33.7	26.4	-78.90	1,834.4	-367.4	2,766.5	2,712.4	54.04	51.194		
8,300.0	8,210.6	7,550.0	7,365.6	33.8	26.5	-77.44	1,834.5	-350.0	2,778.1	2,724.2	53.97	51.478		
8,350.0	8,256.3	7,550.0	7,365.6	33.8	26.5	-76.30	1,834.5	-350.0	2,789.5	2,735.8	53.75	51.898		
8,400.0	8,300.1	7,572.2	7,372.8	33.9	26.6	-74.89	1,834.5	-329.1	2,800.5	2,746.8	53.70	52.148		
8,450.0	8,341.6	7,600.0	7,380.7	33.9	26.8	-73.50	1,834.5	-302.4	2,811.2	2,757.5	53.70	52.353		
8,500.0	8,380.6	7,600.0	7,380.7	33.9	26.8	-72.53	1,834.5	-302.4	2,821.2	2,767.7	53.49	52.745		
8,550.0	8,416.6	7,617.2	7,384.9	33.9	27.0	-71.44	1,834.5	-285.7	2,830.6	2,777.1	53.43	52.972		
8,600.0	8,449.5	7,632.8	7,388.3	33.9	27.1	-70.47	1,834.6	-270.5	2,839.2	2,785.8	53.39	53.176		
8,650.0	8,479.0	7,650.0	7,391.6	33.9	27.2	-69.58	1,834.6	-253.6	2,847.0	2,793.6	53.39	53.323		
8,700.0	8,504.8	7,664.9	7,394.0	33.9	27.4	-68.83	1,834.6	-238.9	2,853.9	2,800.5	53.42	53.421		
8,750.0	8,526.9	7,681.2	7,396.2	33.8	27.5	-68.18	1,834.6	-222.8	2,859.8	2,806.3	53.51	53.445		
8,800.0	8,544.9	7,700.0	7,398.2	33.8	27.7	-67.63	1,834.6	-204.1	2,864.7	2,811.1	53.67	53.379		
8,850.0	8,558.8	7,714.3	7,399.3	33.8	27.8	-67.22	1,834.7	-189.9	2,868.6	2,814.7	53.85	53.268		
8,900.0	8,568.4	7,737.5	7,400.3	33.7	28.0	-66.91	1,834.7	-166.6	2,871.3	2,817.2	54.17	53.010		
8,950.0	8,573.8	7,767.7	7,401.0	33.7	28.3	-66.74	1,834.7	-136.4	2,872.8	2,818.2	54.61	52.601		
8,986.5	8,575.0	7,804.2	7,401.9	33.7	28.7	-66.73	1,834.8	-99.9	2,872.8	2,817.7	55.12	52.124		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
8,993.2	8,575.0	7,810.9	7,402.0	33.8	28.8	-66.73	1,834.8	-93.2	2,872.8	2,817.6	55.22	52.025		
9,000.0	8,575.0	7,817.8	7,402.2	33.8	28.9	-66.73	1,834.8	-86.4	2,872.7	2,817.4	55.33	51.924		
9,100.0	8,575.0	7,917.7	7,404.5	33.9	30.0	-66.77	1,834.9	13.5	2,871.8	2,814.8	57.00	50.386		
9,200.0	8,575.0	8,017.7	7,406.9	34.4	31.4	-66.82	1,835.0	113.5	2,870.9	2,811.9	58.97	48.684		
9,300.0	8,575.0	8,117.7	7,409.2	35.3	32.8	-66.86	1,835.2	213.4	2,870.0	2,808.8	61.22	46.882		
9,400.0	8,575.0	8,217.7	7,411.5	36.3	34.4	-66.90	1,835.3	313.4	2,869.1	2,805.3	63.71	45.032		
9,500.0	8,575.0	8,317.6	7,413.9	37.6	36.0	-66.95	1,835.4	413.3	2,868.2	2,801.7	66.43	43.178		
9,600.0	8,575.0	8,417.6	7,416.2	38.9	37.8	-66.99	1,835.5	513.3	2,867.2	2,797.9	69.33	41.354		
9,700.0	8,575.0	8,517.6	7,418.5	40.4	39.6	-67.03	1,835.6	613.2	2,866.3	2,793.9	72.42	39.581		
9,800.0	8,575.0	8,617.5	7,420.9	41.9	41.5	-67.08	1,835.8	713.2	2,865.4	2,789.8	75.65	37.878		
9,900.0	8,575.0	8,717.5	7,423.2	43.6	43.4	-67.12	1,835.9	813.1	2,864.5	2,785.5	79.02	36.252		
10,000.0	8,575.0	8,817.5	7,425.6	45.3	45.4	-67.16	1,836.0	913.1	2,863.6	2,781.1	82.50	34.709		
10,100.0	8,575.0	8,917.5	7,427.9	47.0	47.5	-67.21	1,836.1	1,013.0	2,862.7	2,776.6	86.10	33.250		
10,200.0	8,575.0	9,017.4	7,430.2	48.9	49.6	-67.25	1,836.3	1,112.9	2,861.8	2,772.0	89.78	31.876		
10,300.0	8,575.0	9,117.4	7,432.6	50.8	51.7	-67.29	1,836.4	1,212.9	2,860.9	2,767.4	93.55	30.583		
10,400.0	8,575.0	9,217.4	7,434.9	52.7	53.8	-67.33	1,836.5	1,312.8	2,860.0	2,762.6	97.39	29.368		
10,500.0	8,575.0	9,317.4	7,437.2	54.7	56.0	-67.38	1,836.6	1,412.8	2,859.1	2,757.8	101.29	28.227		
10,600.0	8,575.0	9,417.3	7,439.6	56.7	58.2	-67.42	1,836.7	1,512.7	2,858.2	2,753.0	105.26	27.155		
10,700.0	8,575.0	9,517.3	7,441.9	58.7	60.4	-67.46	1,836.9	1,612.7	2,857.4	2,748.1	109.27	26.149		
10,800.0	8,575.0	9,617.3	7,444.3	60.8	62.6	-67.51	1,837.0	1,712.6	2,856.5	2,743.1	113.33	25.204		
10,900.0	8,575.0	9,717.2	7,446.6	62.9	64.8	-67.55	1,837.1	1,812.6	2,855.6	2,738.1	117.44	24.315		
11,000.0	8,575.0	9,817.2	7,448.9	65.0	67.1	-67.59	1,837.2	1,912.5	2,854.7	2,733.1	121.58	23.479		
11,100.0	8,575.0	9,917.2	7,451.3	67.1	69.4	-67.64	1,837.4	2,012.5	2,853.8	2,728.1	125.76	22.692		
11,200.0	8,575.0	10,017.2	7,453.6	69.3	71.6	-67.68	1,837.5	2,112.4	2,852.9	2,723.0	129.97	21.950		
11,300.0	8,575.0	10,117.1	7,455.9	71.5	73.9	-67.73	1,837.6	2,212.3	2,852.0	2,717.8	134.21	21.250		
11,400.0	8,575.0	10,217.1	7,458.3	73.7	76.2	-67.77	1,837.7	2,312.3	2,851.2	2,712.7	138.48	20.589		
11,500.0	8,575.0	10,317.1	7,460.6	75.9	78.5	-67.81	1,837.8	2,412.2	2,850.3	2,707.5	142.77	19.964		
11,600.0	8,575.0	10,417.1	7,463.0	78.2	80.9	-67.86	1,838.0	2,512.2	2,849.4	2,702.3	147.08	19.373		
11,700.0	8,575.0	10,517.0	7,465.3	80.4	83.2	-67.90	1,838.1	2,612.1	2,848.5	2,697.1	151.42	18.812		
11,800.0	8,575.0	10,617.0	7,467.6	82.7	85.5	-67.94	1,838.2	2,712.1	2,847.7	2,691.9	155.77	18.281		
11,900.0	8,575.0	10,717.0	7,470.0	84.9	87.9	-67.99	1,838.3	2,812.0	2,846.8	2,686.7	160.14	17.776		
12,000.0	8,575.0	10,816.9	7,472.3	87.2	90.2	-68.03	1,838.5	2,912.0	2,845.9	2,681.4	164.53	17.297		
12,100.0	8,575.0	10,916.9	7,474.7	89.5	92.6	-68.07	1,838.6	3,011.9	2,845.1	2,676.1	168.94	16.841		
12,200.0	8,575.0	11,016.9	7,477.0	91.8	94.9	-68.12	1,838.7	3,111.8	2,844.2	2,670.8	173.36	16.407		
12,300.0	8,575.0	11,116.9	7,479.3	94.1	97.3	-68.16	1,838.8	3,211.8	2,843.3	2,665.5	177.79	15.993		
12,400.0	8,575.0	11,216.8	7,481.7	96.4	99.7	-68.21	1,838.9	3,311.7	2,842.5	2,660.2	182.23	15.598		
12,500.0	8,575.0	11,316.8	7,484.0	98.7	102.0	-68.25	1,839.1	3,411.7	2,841.6	2,654.9	186.69	15.221		
12,600.0	8,575.0	11,416.8	7,486.3	101.0	104.4	-68.29	1,839.2	3,511.6	2,840.8	2,649.6	191.16	14.860		
12,700.0	8,575.0	11,516.8	7,488.7	103.4	106.8	-68.34	1,839.3	3,611.6	2,839.9	2,644.3	195.64	14.516		
12,800.0	8,575.0	11,616.7	7,491.0	105.7	109.2	-68.38	1,839.4	3,711.5	2,839.0	2,638.9	200.13	14.186		
12,900.0	8,575.0	11,716.7	7,493.4	108.0	111.6	-68.42	1,839.6	3,811.5	2,838.2	2,633.6	204.63	13.870		
13,000.0	8,575.0	11,816.7	7,495.7	110.4	114.0	-68.47	1,839.7	3,911.4	2,837.3	2,628.2	209.14	13.567		
13,100.0	8,575.0	11,916.6	7,498.0	112.7	116.3	-68.51	1,839.8	4,011.4	2,836.5	2,622.8	213.66	13.276		
13,200.0	8,575.0	12,016.6	7,500.4	115.1	118.7	-68.56	1,839.9	4,111.3	2,835.6	2,617.4	218.19	12.996		
13,300.0	8,575.0	12,116.6	7,502.7	117.5	121.1	-68.60	1,840.0	4,211.2	2,834.8	2,612.1	222.72	12.728		
13,400.0	8,575.0	12,216.6	7,505.0	119.8	123.5	-68.64	1,840.2	4,311.2	2,833.9	2,606.7	227.26	12.470		
13,500.0	8,575.0	12,316.5	7,507.4	122.2	125.9	-68.69	1,840.3	4,411.1	2,833.1	2,601.3	231.81	12.221		
13,600.0	8,575.0	12,416.5	7,509.7	124.6	128.3	-68.73	1,840.4	4,511.1	2,832.3	2,595.9	236.37	11.982		
13,700.0	8,575.0	12,516.5	7,512.1	126.9	130.7	-68.78	1,840.5	4,611.0	2,831.4	2,590.5	240.94	11.752		
13,800.0	8,575.0	12,616.5	7,514.4	129.3	133.2	-68.82	1,840.7	4,711.0	2,830.6	2,585.1	245.51	11.530		
13,900.0	8,575.0	12,716.4	7,516.7	131.7	135.6	-68.87	1,840.8	4,810.9	2,829.7	2,579.7	250.08	11.315		
14,000.0	8,575.0	12,816.4	7,519.1	134.1	138.0	-68.91	1,840.9	4,910.9	2,828.9	2,574.2	254.67	11.108		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	8,575.0	12,916.4	7,521.4	136.4	140.4	-68.95	1,841.0	5,010.8	2,828.1	2,568.8	259.25	10.908		
14,200.0	8,575.0	13,016.3	7,523.7	138.8	142.8	-69.00	1,841.1	5,110.8	2,827.2	2,563.4	263.85	10.715		
14,300.0	8,575.0	13,116.3	7,526.1	141.2	145.2	-69.04	1,841.3	5,210.7	2,826.4	2,558.0	268.45	10.529		
14,400.0	8,575.0	13,216.3	7,528.4	143.6	147.6	-69.09	1,841.4	5,310.6	2,825.6	2,552.5	273.06	10.348		
14,500.0	8,575.0	13,316.3	7,530.8	146.0	150.0	-69.13	1,841.5	5,410.6	2,824.7	2,547.1	277.67	10.173		
14,600.0	8,575.0	13,416.2	7,533.1	148.4	152.5	-69.18	1,841.6	5,510.5	2,823.9	2,541.6	282.28	10.004		
14,700.0	8,575.0	13,516.2	7,535.4	150.8	154.9	-69.22	1,841.7	5,610.5	2,823.1	2,536.2	286.90	9.840		
14,800.0	8,575.0	13,616.2	7,537.8	153.2	157.3	-69.26	1,841.9	5,710.4	2,822.3	2,530.7	291.53	9.681		
14,900.0	8,575.0	13,716.1	7,540.1	155.6	159.7	-69.31	1,842.0	5,810.4	2,821.5	2,525.3	296.16	9.527		
15,000.0	8,575.0	13,816.1	7,542.4	158.0	162.1	-69.35	1,842.1	5,910.3	2,820.6	2,519.8	300.79	9.377		
15,100.0	8,575.0	13,916.1	7,544.8	160.4	164.6	-69.40	1,842.2	6,010.3	2,819.8	2,514.4	305.43	9.232		
15,200.0	8,575.0	14,016.1	7,547.1	162.8	167.0	-69.44	1,842.4	6,110.2	2,819.0	2,508.9	310.08	9.091		
15,300.0	8,575.0	14,116.0	7,549.5	165.2	169.4	-69.49	1,842.5	6,210.2	2,818.2	2,503.5	314.73	8.954		
15,400.0	8,575.0	14,216.0	7,551.8	167.6	171.8	-69.53	1,842.6	6,310.1	2,817.4	2,498.0	319.38	8.821		
15,500.0	8,575.0	14,316.0	7,554.1	170.0	174.3	-69.58	1,842.7	6,410.0	2,816.6	2,492.5	324.04	8.692		
15,600.0	8,575.0	14,416.0	7,556.5	172.5	176.7	-69.62	1,842.8	6,510.0	2,815.8	2,487.1	328.70	8.566		
15,700.0	8,575.0	14,515.9	7,558.8	174.9	179.1	-69.67	1,843.0	6,609.9	2,815.0	2,481.6	333.36	8.444		
15,800.0	8,575.0	14,615.9	7,561.2	177.3	181.6	-69.71	1,843.1	6,709.9	2,814.1	2,476.1	338.03	8.325		
15,900.0	8,575.0	14,715.9	7,563.5	179.7	184.0	-69.75	1,843.2	6,809.8	2,813.3	2,470.6	342.70	8.209		
16,000.0	8,575.0	14,815.8	7,565.8	182.1	186.4	-69.80	1,843.3	6,909.8	2,812.5	2,465.2	347.38	8.097		
16,100.0	8,575.0	14,915.8	7,568.2	184.5	188.9	-69.84	1,843.5	7,009.7	2,811.7	2,459.7	352.06	7.987		
16,200.0	8,575.0	15,015.8	7,570.5	187.0	191.3	-69.89	1,843.6	7,109.7	2,810.9	2,454.2	356.74	7.880		
16,300.0	8,575.0	15,115.8	7,572.8	189.4	193.7	-69.93	1,843.7	7,209.6	2,810.1	2,448.7	361.43	7.775		
16,400.0	8,575.0	15,215.7	7,575.2	191.8	196.1	-69.98	1,843.8	7,309.6	2,809.4	2,443.2	366.12	7.673		
16,500.0	8,575.0	15,315.7	7,577.5	194.2	198.6	-70.02	1,843.9	7,409.5	2,808.6	2,437.7	370.81	7.574		
16,600.0	8,575.0	15,415.7	7,579.9	196.6	201.0	-70.07	1,844.1	7,509.4	2,807.8	2,432.3	375.51	7.477		
16,700.0	8,575.0	15,515.7	7,582.2	199.1	203.4	-70.11	1,844.2	7,609.4	2,807.0	2,426.8	380.21	7.383		
16,800.0	8,575.0	15,615.6	7,584.5	201.5	205.9	-70.16	1,844.3	7,709.3	2,806.2	2,421.3	384.91	7.290		
16,900.0	8,575.0	15,715.6	7,586.9	203.9	208.3	-70.20	1,844.4	7,809.3	2,805.4	2,415.8	389.62	7.200		
17,000.0	8,575.0	15,815.6	7,589.2	206.3	210.8	-70.25	1,844.6	7,909.2	2,804.6	2,410.3	394.33	7.112		
17,100.0	8,575.0	15,915.5	7,591.5	208.8	213.2	-70.29	1,844.7	8,009.2	2,803.8	2,404.8	399.04	7.026		
17,200.0	8,575.0	16,015.5	7,593.9	211.2	215.6	-70.34	1,844.8	8,109.1	2,803.1	2,399.3	403.76	6.942		
17,300.0	8,575.0	16,115.5	7,596.2	213.6	218.1	-70.38	1,844.9	8,209.1	2,802.3	2,393.8	408.48	6.860		
17,400.0	8,575.0	16,215.5	7,598.6	216.0	220.5	-70.43	1,845.0	8,309.0	2,801.5	2,388.3	413.20	6.780		
17,500.0	8,575.0	16,315.4	7,600.9	218.5	222.9	-70.47	1,845.2	8,408.9	2,800.7	2,382.8	417.92	6.702		
17,600.0	8,575.0	16,415.4	7,603.2	220.9	225.4	-70.52	1,845.3	8,508.9	2,799.9	2,377.3	422.65	6.625		
17,700.0	8,575.0	16,515.4	7,605.6	223.3	227.8	-70.56	1,845.4	8,608.8	2,799.2	2,371.8	427.38	6.550		
17,800.0	8,575.0	16,615.4	7,607.9	225.8	230.3	-70.61	1,845.5	8,708.8	2,798.4	2,366.3	432.12	6.476		
17,900.0	8,575.0	16,715.3	7,610.2	228.2	232.7	-70.65	1,845.7	8,808.7	2,797.6	2,360.8	436.85	6.404		
18,000.0	8,575.0	16,815.3	7,612.6	230.6	235.1	-70.70	1,845.8	8,908.7	2,796.9	2,355.3	441.59	6.334		
18,100.0	8,575.0	16,915.3	7,614.9	233.0	237.6	-70.74	1,845.9	9,008.6	2,796.1	2,349.8	446.34	6.265		
18,200.0	8,575.0	17,015.2	7,617.3	235.5	240.0	-70.79	1,846.0	9,108.6	2,795.3	2,344.3	451.08	6.197		
18,300.0	8,575.0	17,115.2	7,619.6	237.9	242.5	-70.84	1,846.1	9,208.5	2,794.6	2,338.7	455.83	6.131		
18,400.0	8,575.0	17,215.2	7,621.9	240.3	244.9	-70.88	1,846.3	9,308.5	2,793.8	2,333.2	460.58	6.066		
18,500.0	8,575.0	17,315.2	7,624.3	242.8	247.3	-70.93	1,846.4	9,408.4	2,793.1	2,327.7	465.33	6.002		
18,600.0	8,575.0	17,415.1	7,626.6	245.2	249.8	-70.97	1,846.5	9,508.3	2,792.3	2,322.2	470.09	5.940		
18,700.0	8,575.0	17,515.1	7,629.0	247.6	252.2	-71.02	1,846.6	9,608.3	2,791.5	2,316.7	474.85	5.879		
18,800.0	8,575.0	17,615.1	7,631.3	250.1	254.7	-71.06	1,846.8	9,708.2	2,790.8	2,311.2	479.61	5.819		
18,900.0	8,575.0	17,715.1	7,633.6	252.5	257.1	-71.11	1,846.9	9,808.2	2,790.0	2,305.7	484.38	5.760		
19,000.0	8,575.0	17,815.0	7,636.0	255.0	259.5	-71.15	1,847.0	9,908.1	2,789.3	2,300.2	489.14	5.702		
19,100.0	8,575.0	17,915.0	7,638.3	257.4	262.0	-71.20	1,847.1	10,008.1	2,788.5	2,294.6	493.91	5.646		
19,200.0	8,575.0	18,015.0	7,640.6	259.8	264.4	-71.24	1,847.2	10,108.0	2,787.8	2,289.1	498.68	5.590		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
19,300.0	8,575.0	18,114.9	7,643.0	262.3	266.9	-71.29	1,847.4	10,208.0	2,787.1	2,283.6	503.46	5.536		
19,400.0	8,575.0	18,214.9	7,645.3	264.7	269.3	-71.34	1,847.5	10,307.9	2,786.3	2,278.1	508.23	5.482		
19,500.0	8,575.0	18,314.9	7,647.7	267.1	271.8	-71.38	1,847.6	10,407.9	2,785.6	2,272.6	513.01	5.430		
19,600.0	8,575.0	18,414.9	7,650.0	269.6	274.2	-71.43	1,847.7	10,507.8	2,784.8	2,267.0	517.79	5.378		
19,700.0	8,575.0	18,514.8	7,652.3	272.0	276.6	-71.47	1,847.9	10,607.7	2,784.1	2,261.5	522.58	5.328		
19,800.0	8,575.0	18,614.8	7,654.7	274.5	279.1	-71.52	1,848.0	10,707.7	2,783.4	2,256.0	527.37	5.278		
19,900.0	8,575.0	18,714.8	7,657.0	276.9	281.5	-71.56	1,848.1	10,807.6	2,782.6	2,250.5	532.15	5.229		
20,000.0	8,575.0	18,814.8	7,659.3	279.3	284.0	-71.61	1,848.2	10,907.6	2,781.9	2,245.0	536.95	5.181		
20,100.0	8,575.0	18,914.7	7,661.7	281.8	286.4	-71.66	1,848.3	11,007.5	2,781.2	2,239.4	541.74	5.134		
20,200.0	8,575.0	19,014.7	7,664.0	284.2	288.9	-71.70	1,848.5	11,107.5	2,780.4	2,233.9	546.54	5.087		
20,300.0	8,575.0	19,114.7	7,666.4	286.6	291.3	-71.75	1,848.6	11,207.4	2,779.7	2,228.4	551.33	5.042		
20,400.0	8,575.0	19,214.6	7,668.7	289.1	293.8	-71.79	1,848.7	11,307.4	2,779.0	2,222.9	556.13	4.997		
20,500.0	8,575.0	19,314.6	7,671.0	291.5	296.2	-71.84	1,848.8	11,407.3	2,778.3	2,217.3	560.94	4.953		
20,600.0	8,575.0	19,414.6	7,673.4	294.0	298.6	-71.88	1,849.0	11,507.3	2,777.5	2,211.8	565.74	4.910		
20,700.0	8,575.0	19,514.6	7,675.7	296.4	301.1	-71.93	1,849.1	11,607.2	2,776.8	2,206.3	570.55	4.867		
20,800.0	8,575.0	19,614.5	7,678.0	298.9	303.5	-71.98	1,849.2	11,707.1	2,776.1	2,200.7	575.36	4.825		
20,900.0	8,575.0	19,714.5	7,680.4	301.3	306.0	-72.02	1,849.3	11,807.1	2,775.4	2,195.2	580.17	4.784		
21,000.0	8,575.0	19,814.5	7,682.7	303.7	308.4	-72.07	1,849.4	11,907.0	2,774.7	2,189.7	584.99	4.743		
21,100.0	8,575.0	19,901.7	7,684.8	306.2	310.6	-72.11	1,849.6	11,994.2	2,774.0	2,184.5	589.46	4.706		
21,200.0	8,575.0	20,001.7	7,686.5	308.6	313.0	-72.14	1,850.0	12,094.2	2,773.7	2,179.5	594.25	4.668		
21,212.5	8,575.0	20,014.1	7,686.7	308.9	313.3	-72.15	1,850.0	12,106.6	2,773.7	2,178.9	594.85	4.663 ES, SF		
21,213.6	8,575.0	20,003.9	7,686.5	309.0	313.1	-72.14	1,850.0	12,096.4	2,773.7	2,179.1	594.59	4.665		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design		Simon Camamile Fed Com - Simon Camamile Fed Com #116H - Wellbore #1 - BLM Plan #1											Offset Site Error:		0.0 usft
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +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	89.83	0.2	79.9	79.9						
100.0	100.0	101.0	101.0	0.1	0.1	89.83	0.2	79.9	79.9	79.7	0.26	307.608			
200.0	200.0	201.0	201.0	0.5	0.5	89.83	0.2	79.9	79.9	79.0	0.98	81.841			
300.0	300.0	301.0	301.0	0.8	0.8	89.83	0.2	79.9	79.9	78.3	1.69	47.199			
400.0	400.0	401.0	401.0	1.2	1.2	89.83	0.2	79.9	79.9	77.5	2.41	33.162			
500.0	500.0	501.0	501.0	1.6	1.6	89.83	0.2	79.9	79.9	76.8	3.13	25.561			
600.0	600.0	601.0	601.0	1.9	1.9	89.83	0.2	79.9	79.9	76.1	3.84	20.794			
700.0	700.0	701.0	701.0	2.3	2.3	89.83	0.2	79.9	79.9	75.4	4.56	17.526			
800.0	800.0	801.0	801.0	2.6	2.6	89.83	0.2	79.9	79.9	74.7	5.28	15.145			
900.0	900.0	901.0	901.0	3.0	3.0	89.83	0.2	79.9	79.9	73.9	6.00	13.334			
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	89.83	0.2	79.9	79.9	73.2	6.71	11.910			
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-132.12	0.2	79.9	81.4	74.0	7.41	10.979			
1,200.0	1,199.7	1,200.8	1,200.8	4.0	4.1	-135.27	0.2	79.9	85.9	77.8	8.10	10.602			
1,300.0	1,299.1	1,304.1	1,304.1	4.4	4.4	-138.95	-1.8	78.0	91.8	83.0	8.79	10.442			
1,372.0	1,370.4	1,378.9	1,378.6	4.6	4.7	-141.16	-5.8	74.1	95.6	86.4	9.28	10.308			
1,400.0	1,398.0	1,408.0	1,407.6	4.7	4.8	-141.90	-7.9	72.1	96.9	87.4	9.47	10.234			
1,500.0	1,496.7	1,512.4	1,511.0	5.1	5.1	-143.23	-18.1	62.3	98.5	88.4	10.14	9.717			
1,600.0	1,595.4	1,616.1	1,612.8	5.5	5.5	-142.71	-32.2	48.7	95.7	84.9	10.82	8.844			
1,700.0	1,694.1	1,716.0	1,710.5	5.9	5.9	-141.49	-47.2	34.3	91.3	79.8	11.55	7.907			
1,800.0	1,792.7	1,815.9	1,808.2	6.3	6.3	-140.15	-62.2	19.9	87.0	74.7	12.30	7.073			
1,900.0	1,891.4	1,915.7	1,905.9	6.7	6.7	-138.67	-77.1	5.5	82.7	69.6	13.06	6.331			
2,000.0	1,990.1	2,015.6	2,003.6	7.1	7.1	-137.03	-92.1	-8.9	78.5	64.6	13.85	5.668			
2,100.0	2,088.8	2,115.5	2,101.3	7.5	7.6	-135.20	-107.1	-23.3	74.3	59.7	14.65	5.074			
2,200.0	2,187.5	2,215.4	2,199.0	7.9	8.0	-133.16	-122.0	-37.7	70.2	54.8	15.47	4.541			
2,300.0	2,286.2	2,315.3	2,296.7	8.3	8.5	-130.87	-137.0	-52.1	66.3	50.0	16.31	4.064			
2,400.0	2,384.9	2,415.2	2,394.4	8.8	8.9	-128.30	-151.9	-66.5	62.4	45.3	17.18	3.635			
2,500.0	2,483.5	2,515.1	2,492.1	9.2	9.4	-125.39	-166.9	-80.9	58.7	40.7	18.06	3.251			
2,600.0	2,582.2	2,614.9	2,589.8	9.6	9.8	-122.11	-181.9	-95.3	55.2	36.2	18.98	2.908			
2,700.0	2,680.9	2,714.8	2,687.5	10.1	10.3	-118.38	-196.8	-109.7	51.9	31.9	19.92	2.603			
2,800.0	2,779.6	2,814.7	2,785.2	10.5	10.7	-114.17	-211.8	-124.1	48.8	27.9	20.89	2.335			
2,900.0	2,878.3	2,914.6	2,882.9	10.9	11.2	-109.42	-226.8	-138.5	46.0	24.1	21.87	2.103			
3,000.0	2,977.0	3,014.5	2,980.6	11.3	11.7	-104.10	-241.7	-152.9	43.6	20.7	22.87	1.905			
3,100.0	3,075.7	3,114.4	3,078.3	11.8	12.1	-98.22	-256.7	-167.3	41.6	17.7	23.86	1.741			
3,200.0	3,174.3	3,214.2	3,176.0	12.2	12.6	-91.81	-271.6	-181.7	40.0	15.2	24.83	1.612			
3,300.0	3,273.0	3,314.1	3,273.7	12.6	13.1	-84.98	-286.6	-196.1	39.0	13.3	25.73	1.517			
3,400.0	3,371.7	3,414.0	3,371.4	13.1	13.6	-77.91	-301.6	-210.5	38.6	12.1	26.57	1.454	Level 3		
3,419.3	3,390.8	3,433.3	3,390.4	13.2	13.7	-76.53	-304.5	-213.3	38.6	11.9	26.72	1.445	Level 3, CC		
3,500.0	3,470.4	3,513.9	3,469.2	13.5	14.0	-70.80	-316.5	-224.9	38.8	11.5	27.31	1.421	Level 3		
3,600.0	3,569.1	3,613.8	3,566.9	14.0	14.5	-63.85	-331.5	-239.3	39.6	11.6	27.97	1.415	Level 3		
3,700.0	3,667.8	3,713.7	3,664.6	14.4	15.0	-57.27	-346.5	-253.7	40.9	12.3	28.56	1.432	Level 3		
3,800.0	3,766.5	3,813.5	3,762.3	14.8	15.5	-51.17	-361.4	-268.1	42.7	13.6	29.10	1.469	Level 3		
3,900.0	3,865.1	3,913.4	3,860.0	15.3	16.0	-45.63	-376.4	-282.5	45.0	15.4	29.62	1.519			
4,000.0	3,963.8	4,013.3	3,957.7	15.7	16.4	-40.66	-391.4	-296.9	47.7	17.5	30.14	1.581			
4,100.0	4,062.5	4,113.2	4,055.4	16.1	16.9	-36.25	-406.3	-311.3	50.6	20.0	30.67	1.651			
4,200.0	4,161.2	4,213.1	4,153.1	16.6	17.4	-32.34	-421.3	-325.7	53.9	22.7	31.22	1.725			
4,300.0	4,259.9	4,313.0	4,250.8	17.0	17.9	-28.89	-436.2	-340.1	57.3	25.5	31.79	1.803			
4,400.0	4,358.6	4,412.8	4,348.5	17.5	18.4	-25.85	-451.2	-354.5	61.0	28.6	32.39	1.883			
4,500.0	4,457.3	4,512.7	4,446.2	17.9	18.9	-23.15	-466.2	-368.9	64.8	31.8	33.00	1.963			
4,600.0	4,555.9	4,612.6	4,543.9	18.3	19.4	-20.75	-481.1	-383.3	68.7	35.1	33.64	2.042			
4,700.0	4,654.6	4,712.5	4,641.6	18.8	19.8	-18.62	-496.1	-397.7	72.7	38.4	34.29	2.121			
4,800.0	4,753.3	4,812.4	4,739.3	19.2	20.3	-16.72	-511.1	-412.1	76.9	41.9	34.96	2.198			
4,900.0	4,852.0	4,912.3	4,837.0	19.7	20.8	-15.01	-526.0	-426.5	81.1	45.4	35.64	2.274			

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
5,000.0	4,950.7	5,012.2	4,934.7	20.1	21.3	-13.46	-541.0	-440.9	85.3	49.0	36.33	2.348		
5,100.0	5,049.4	5,112.0	5,032.4	20.6	21.8	-12.07	-555.9	-455.3	89.6	52.6	37.03	2.421		
5,200.0	5,148.1	5,211.9	5,130.1	21.0	22.3	-10.81	-570.9	-469.7	94.0	56.3	37.74	2.491		
5,300.0	5,246.7	5,311.8	5,227.8	21.4	22.8	-9.65	-585.9	-484.1	98.4	60.0	38.45	2.559		
5,400.0	5,345.4	5,411.7	5,325.5	21.9	23.2	-8.60	-600.8	-498.5	102.9	63.7	39.17	2.626		
5,500.0	5,444.1	5,511.6	5,423.2	22.3	23.7	-7.64	-615.8	-512.9	107.3	67.4	39.90	2.690		
5,600.0	5,542.8	5,611.5	5,520.9	22.8	24.2	-6.75	-630.8	-527.3	111.8	71.2	40.63	2.752		
5,700.0	5,641.5	5,711.3	5,618.6	23.2	24.7	-5.93	-645.7	-541.7	116.4	75.0	41.37	2.813		
5,800.0	5,740.2	5,811.2	5,716.3	23.7	25.2	-5.17	-660.7	-556.2	120.9	78.8	42.11	2.872		
5,900.0	5,838.9	5,911.1	5,814.0	24.1	25.7	-4.47	-675.6	-570.6	125.5	82.6	42.85	2.929		
6,000.0	5,937.5	6,011.0	5,911.7	24.5	26.2	-3.82	-690.6	-585.0	130.1	86.5	43.59	2.984		
6,100.0	6,036.2	6,110.9	6,009.4	25.0	26.7	-3.21	-705.6	-599.4	134.7	90.3	44.34	3.037		
6,200.0	6,134.9	6,210.8	6,107.1	25.4	27.2	-2.64	-720.5	-613.8	139.3	94.2	45.09	3.089		
6,300.0	6,233.6	6,310.6	6,204.8	25.9	27.6	-2.11	-735.5	-628.2	143.9	98.1	45.84	3.140		
6,400.0	6,332.3	6,410.5	6,302.5	26.3	28.1	-1.61	-750.5	-642.6	148.6	102.0	46.59	3.189		
6,500.0	6,431.0	6,510.4	6,400.2	26.8	28.6	-1.14	-765.4	-657.0	153.2	105.9	47.34	3.236		
6,600.0	6,529.6	6,610.3	6,497.9	27.2	29.1	-0.70	-780.4	-671.4	157.9	109.8	48.10	3.282		
6,700.0	6,628.3	6,721.0	6,606.8	27.6	29.6	-0.32	-794.3	-684.8	159.2	110.2	48.97	3.252		
6,800.0	6,727.0	6,831.4	6,716.6	28.1	30.0	-0.09	-802.9	-693.1	153.8	104.2	49.60	3.101		
6,900.0	6,825.7	6,940.5	6,825.6	28.5	30.4	0.00	-806.2	-696.2	141.7	91.7	50.01	2.834		
7,000.0	6,924.4	7,040.3	6,925.4	29.0	30.7	0.00	-806.2	-696.2	125.6	75.0	50.64	2.481		
7,100.0	7,023.1	7,148.8	7,033.6	29.4	30.9	-2.49	-806.2	-690.3	106.1	55.6	50.53	2.100		
7,200.0	7,121.8	7,251.4	7,133.3	29.9	31.1	-17.44	-806.2	-666.6	77.9	26.5	51.49	1.514		
7,296.5	7,217.0	7,336.8	7,212.0	30.3	31.2	-51.85	-806.2	-633.6	60.2	1.8	58.42	1.031 Level 2		
7,300.0	7,220.4	7,339.7	7,214.5	30.3	31.2	-53.35	-806.2	-632.3	60.2	1.6	58.62	1.028 Level 2, ES, SF		
7,400.0	7,319.1	7,413.1	7,277.4	30.7	31.2	-88.97	-806.1	-594.5	88.2	33.8	54.35	1.622		
7,466.5	7,384.7	7,454.4	7,310.5	31.0	31.2	-101.78	-806.1	-569.8	125.9	77.1	48.81	2.579		
7,500.0	7,417.8	7,473.3	7,325.0	31.2	31.2	-106.40	-806.1	-557.7	147.8	101.3	46.55	3.176		
7,600.0	7,516.9	7,523.4	7,361.6	31.6	31.2	-115.25	-806.0	-523.4	219.6	178.2	41.46	5.298		
7,700.0	7,616.2	7,565.6	7,389.9	32.0	31.1	-120.38	-806.0	-492.2	297.4	259.6	37.79	7.870		
7,800.0	7,715.8	7,600.0	7,411.2	32.4	31.1	-123.85	-806.0	-465.2	379.0	344.2	34.74	10.909		
7,900.0	7,815.6	7,632.6	7,430.0	32.8	31.1	-126.66	-805.9	-438.5	463.0	430.5	32.58	14.211		
8,000.0	7,915.5	7,659.7	7,444.3	33.1	31.1	-129.02	-805.9	-415.5	549.0	518.4	30.64	17.918		
8,086.5	8,002.0	7,680.6	7,454.6	33.3	31.1	89.93	-805.9	-397.4	624.5	595.3	29.22	21.376		
8,100.0	8,015.5	7,683.7	7,456.1	33.4	31.1	0.13	-805.9	-394.7	636.3	607.3	29.00	21.940		
8,150.0	8,065.4	7,700.0	7,463.6	33.5	31.1	0.11	-805.9	-380.2	679.0	650.5	28.46	23.857		
8,200.0	8,114.8	7,700.0	7,463.6	33.6	31.1	0.10	-805.9	-380.2	719.9	693.1	26.76	26.899		
8,250.0	8,163.3	7,722.6	7,473.3	33.7	31.0	0.09	-805.8	-359.8	758.7	732.2	26.40	28.734		
8,300.0	8,210.6	7,736.9	7,479.1	33.8	31.0	0.08	-805.8	-346.7	795.5	770.0	25.47	31.234		
8,350.0	8,256.3	7,750.0	7,484.1	33.8	31.0	0.08	-805.8	-334.6	830.2	805.8	24.43	33.977		
8,400.0	8,300.1	7,767.2	7,490.2	33.9	31.0	0.07	-805.8	-318.6	862.6	839.0	23.59	36.571		
8,450.0	8,341.6	7,782.9	7,495.3	33.9	31.0	0.07	-805.8	-303.7	892.7	870.0	22.67	39.375		
8,500.0	8,380.6	7,800.0	7,500.5	33.9	31.0	0.07	-805.7	-287.4	920.4	898.5	21.84	42.149		
8,550.0	8,416.6	7,815.5	7,504.7	33.9	31.0	0.07	-805.7	-272.5	945.5	924.5	20.99	45.051		
8,600.0	8,449.5	7,832.2	7,508.8	33.9	31.0	0.07	-805.7	-256.3	968.1	947.9	20.26	47.776		
8,650.0	8,479.0	7,850.0	7,512.7	33.9	31.0	0.07	-805.7	-238.9	988.1	968.5	19.68	50.222		
8,700.0	8,504.8	7,866.2	7,515.7	33.9	31.0	0.07	-805.7	-223.0	1,005.4	986.3	19.17	52.438		
8,750.0	8,526.9	7,883.5	7,518.5	33.8	31.0	0.07	-805.6	-205.9	1,020.1	1,001.2	18.85	54.100		
8,800.0	8,544.9	7,900.0	7,520.6	33.8	31.0	0.07	-805.6	-189.5	1,031.9	1,013.2	18.70	55.178		
8,850.0	8,558.8	7,918.4	7,522.4	33.8	31.0	0.07	-805.6	-171.3	1,041.0	1,022.2	18.76	55.485		
8,900.0	8,568.4	7,950.0	7,524.2	33.7	31.0	0.07	-805.6	-139.7	1,047.5	1,028.5	19.04	55.031		
8,950.0	8,573.8	7,953.6	7,524.3	33.7	31.0	0.07	-805.6	-136.1	1,050.7	1,031.3	19.44	54.043		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
8,986.5	8,575.0	7,984.1	7,524.8	33.7	31.0	0.07	-805.5	-105.6	1,051.3	1,031.5	19.76	53.190		
8,993.2	8,575.0	7,990.9	7,525.0	33.8	31.1	0.07	-805.5	-98.8	1,051.2	1,031.3	19.82	53.037		
9,000.0	8,575.0	7,997.7	7,525.1	33.8	31.1	0.07	-805.5	-92.0	1,051.0	1,031.2	19.88	52.882		
9,100.0	8,575.0	8,102.3	7,526.7	33.9	31.4	0.07	-805.4	8.0	1,049.4	1,028.6	20.77	50.526		
9,200.0	8,575.0	8,202.3	7,528.4	34.4	31.9	0.07	-805.2	107.9	1,047.7	1,026.0	21.72	48.240		
9,300.0	8,575.0	8,297.6	7,530.1	35.3	32.8	0.07	-805.1	207.9	1,046.0	1,023.3	22.71	46.062		
9,400.0	8,575.0	8,402.4	7,531.8	36.3	33.9	0.07	-805.0	307.9	1,044.3	1,020.5	23.81	43.857		
9,500.0	8,575.0	8,502.4	7,533.5	37.6	35.3	0.07	-804.9	407.8	1,042.6	1,017.7	24.94	41.805		
9,600.0	8,575.0	8,602.4	7,535.2	38.9	36.7	0.07	-804.7	507.8	1,040.9	1,014.8	26.11	39.862		
9,700.0	8,575.0	8,702.4	7,536.9	40.4	38.3	0.07	-804.6	607.8	1,039.3	1,011.9	27.33	38.031		
9,800.0	8,575.0	8,797.6	7,538.5	41.9	39.8	0.07	-804.5	707.8	1,037.6	1,009.0	28.54	36.353		
9,900.0	8,575.0	8,897.6	7,540.2	43.6	41.5	0.07	-804.4	807.7	1,035.9	1,006.1	29.82	34.740		
10,000.0	8,575.0	9,002.5	7,541.9	45.3	43.4	0.07	-804.2	907.7	1,034.2	1,003.0	31.16	33.195		
10,100.0	8,575.0	9,097.5	7,543.6	47.0	45.2	0.07	-804.1	1,007.7	1,032.5	1,000.1	32.45	31.820		
10,200.0	8,575.0	9,202.5	7,545.3	48.9	47.2	0.07	-804.0	1,107.6	1,030.8	997.0	33.83	30.471		
10,300.0	8,575.0	9,302.5	7,547.0	50.8	49.2	0.07	-803.9	1,207.6	1,029.2	994.0	35.20	29.240		
10,400.0	8,575.0	9,397.5	7,548.6	52.7	51.1	0.07	-803.7	1,307.6	1,027.5	990.9	36.54	28.117		
10,500.0	8,575.0	9,497.5	7,550.3	54.7	53.1	0.07	-803.6	1,407.6	1,025.8	987.8	37.94	27.037		
10,600.0	8,575.0	9,597.5	7,552.0	56.7	55.2	0.06	-803.5	1,507.5	1,024.1	984.8	39.35	26.026		
10,700.0	8,575.0	9,702.6	7,553.7	58.7	57.4	0.06	-803.4	1,607.5	1,022.4	981.6	40.81	25.055		
10,800.0	8,575.0	9,802.6	7,555.4	60.8	59.6	0.06	-803.2	1,707.5	1,020.7	978.5	42.24	24.166		
10,900.0	8,575.0	9,897.4	7,557.1	62.9	61.6	0.06	-803.1	1,807.4	1,019.0	975.4	43.64	23.350		
11,000.0	8,575.0	9,997.4	7,558.7	65.0	63.8	0.06	-803.0	1,907.4	1,017.4	972.3	45.09	22.562		
11,100.0	8,575.0	10,102.6	7,560.4	67.1	66.1	0.06	-802.9	2,007.4	1,015.7	969.1	46.59	21.802		
11,200.0	8,575.0	10,197.4	7,562.1	69.3	68.2	0.06	-802.7	2,107.4	1,014.0	966.0	48.01	21.120		
11,300.0	8,575.0	10,302.6	7,563.8	71.5	70.5	0.06	-802.6	2,207.3	1,012.3	962.8	49.52	20.442		
11,400.0	8,575.0	10,397.3	7,565.5	73.7	72.7	0.06	-802.5	2,307.3	1,010.6	959.7	50.96	19.832		
11,500.0	8,575.0	10,502.7	7,567.2	75.9	75.1	0.06	-802.4	2,407.3	1,008.9	956.5	52.48	19.225		
11,600.0	8,575.0	10,602.7	7,568.8	78.2	77.3	0.06	-802.2	2,507.2	1,007.3	953.3	53.97	18.664		
11,700.0	8,575.0	10,697.3	7,570.5	80.4	79.5	0.06	-802.1	2,607.2	1,005.6	950.2	55.42	18.145		
11,800.0	8,575.0	10,802.7	7,572.2	82.7	81.9	0.06	-802.0	2,707.2	1,003.9	946.9	56.96	17.626		
11,900.0	8,575.0	10,902.7	7,573.9	84.9	84.2	0.06	-801.9	2,807.2	1,002.2	943.8	58.46	17.145		
12,000.0	8,575.0	10,997.3	7,575.6	87.2	86.4	0.06	-801.7	2,907.1	1,000.5	940.6	59.92	16.699		
12,100.0	8,575.0	11,102.8	7,577.3	89.5	88.8	0.06	-801.6	3,007.1	998.8	937.4	61.46	16.251		
12,200.0	8,575.0	11,197.2	7,579.0	91.8	91.0	0.06	-801.5	3,107.1	997.2	934.2	62.93	15.845		
12,300.0	8,575.0	11,302.8	7,580.6	94.1	93.5	0.06	-801.4	3,207.0	995.5	931.0	64.49	15.437		
12,400.0	8,575.0	11,402.8	7,582.3	96.4	95.8	0.06	-801.2	3,307.0	993.8	927.8	66.00	15.057		
12,500.0	8,575.0	11,497.2	7,584.0	98.7	98.0	0.05	-801.1	3,407.0	992.1	924.6	67.48	14.703		
12,600.0	8,575.0	11,602.8	7,585.7	101.0	100.5	0.05	-801.0	3,507.0	990.4	921.4	69.04	14.346		
12,700.0	8,575.0	11,702.8	7,587.4	103.4	102.9	0.05	-800.9	3,606.9	988.7	918.2	70.56	14.013		
12,800.0	8,575.0	11,797.1	7,589.1	105.7	105.1	0.05	-800.7	3,706.9	987.1	915.0	72.04	13.701		
12,900.0	8,575.0	11,902.9	7,590.7	108.0	107.6	0.05	-800.6	3,806.9	985.4	911.8	73.61	13.386		
13,000.0	8,575.0	11,997.1	7,592.4	110.4	109.8	0.05	-800.5	3,906.8	983.7	908.6	75.09	13.099		
13,100.0	8,575.0	12,102.9	7,594.1	112.7	112.3	0.05	-800.3	4,006.8	982.0	905.3	76.67	12.808		
13,200.0	8,575.0	12,202.9	7,595.8	115.1	114.7	0.05	-800.2	4,106.8	980.3	902.1	78.20	12.536		
13,300.0	8,575.0	12,302.9	7,597.5	117.5	117.1	0.05	-800.1	4,206.8	978.6	898.9	79.73	12.274		
13,400.0	8,575.0	12,402.9	7,599.2	119.8	119.4	0.05	-800.0	4,306.7	977.0	895.7	81.27	12.022		
13,500.0	8,575.0	12,503.0	7,600.8	122.2	121.8	0.05	-799.8	4,406.7	975.3	892.5	82.80	11.778		
13,600.0	8,575.0	12,597.0	7,602.5	124.6	124.1	0.05	-799.7	4,506.7	973.6	889.3	84.29	11.550		
13,700.0	8,575.0	12,703.0	7,604.2	126.9	126.6	0.05	-799.6	4,606.6	971.9	886.0	85.88	11.318		
13,800.0	8,575.0	12,803.0	7,605.9	129.3	129.0	0.05	-799.5	4,706.6	970.2	882.8	87.41	11.099		
13,900.0	8,575.0	12,903.0	7,607.6	131.7	131.4	0.05	-799.3	4,806.6	968.5	879.6	88.95	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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,000.0	8,575.0	13,003.0	7,609.3	134.1	133.8	0.05	-799.2	4,906.6	966.9	876.4	90.49	10.684		
14,100.0	8,575.0	13,097.0	7,610.9	136.4	136.0	0.05	-799.1	5,006.5	965.2	873.2	91.99	10.492		
14,200.0	8,575.0	13,203.1	7,612.6	138.8	138.6	0.05	-799.0	5,106.5	963.5	869.9	93.58	10.296		
14,300.0	8,575.0	13,303.1	7,614.3	141.2	141.0	0.05	-798.8	5,206.5	961.8	866.7	95.12	10.111		
14,400.0	8,575.0	13,403.1	7,616.0	143.6	143.4	0.04	-798.7	5,306.4	960.1	863.4	96.67	9.932		
14,500.0	8,575.0	13,503.1	7,617.7	146.0	145.8	0.04	-798.6	5,406.4	958.4	860.2	98.21	9.759		
14,600.0	8,575.0	13,596.9	7,619.4	148.4	148.0	0.04	-798.5	5,506.4	956.7	857.0	99.71	9.595		
14,700.0	8,575.0	13,703.1	7,621.0	150.8	150.6	0.04	-798.3	5,606.4	955.1	853.8	101.31	9.428		
14,800.0	8,575.0	13,803.1	7,622.7	153.2	153.0	0.04	-798.2	5,706.3	953.4	850.5	102.85	9.269		
14,900.0	8,575.0	13,896.8	7,624.4	155.6	155.3	0.04	-798.1	5,806.3	951.7	847.3	104.35	9.120		
15,000.0	8,575.0	14,003.2	7,626.1	158.0	157.8	0.04	-798.0	5,906.3	950.0	844.1	105.95	8.967		
15,100.0	8,575.0	14,103.2	7,627.8	160.4	160.2	0.04	-797.8	6,006.2	948.3	840.8	107.50	8.822		
15,200.0	8,575.0	14,196.8	7,629.5	162.8	162.5	0.04	-797.7	6,106.2	946.6	837.6	109.00	8.685		
15,300.0	8,575.0	14,303.2	7,631.2	165.2	165.1	0.04	-797.6	6,206.2	945.0	834.4	110.60	8.544		
15,400.0	8,575.0	14,396.8	7,632.8	167.6	167.3	0.04	-797.5	6,306.2	943.3	831.2	112.10	8.415		
15,500.0	8,575.0	14,496.8	7,634.5	170.0	169.8	0.04	-797.3	6,406.1	941.6	827.9	113.65	8.285		
15,600.0	8,575.0	14,603.2	7,636.2	172.5	172.3	0.04	-797.2	6,506.1	939.9	824.7	115.25	8.155		
15,700.0	8,575.0	14,696.7	7,637.9	174.9	174.6	0.04	-797.1	6,606.1	938.2	821.5	116.75	8.036		
15,800.0	8,575.0	14,803.3	7,639.6	177.3	177.2	0.04	-797.0	6,706.1	936.5	818.2	118.36	7.913		
15,900.0	8,575.0	14,903.3	7,641.3	179.7	179.6	0.04	-796.8	6,806.0	934.9	814.9	119.91	7.796		
16,000.0	8,575.0	14,996.7	7,642.9	182.1	181.9	0.04	-796.7	6,906.0	933.2	811.8	121.41	7.686		
16,100.0	8,575.0	15,103.3	7,644.6	184.5	184.4	0.03	-796.6	7,006.0	931.5	808.5	123.02	7.572		
16,200.0	8,575.0	15,196.7	7,646.3	187.0	186.7	0.03	-796.5	7,105.9	929.8	805.3	124.52	7.467		
16,300.0	8,575.0	15,303.3	7,648.0	189.4	189.3	0.03	-796.3	7,205.9	928.1	802.0	126.13	7.359		
16,400.0	8,575.0	15,403.4	7,649.7	191.8	191.7	0.03	-796.2	7,305.9	926.4	798.8	127.68	7.256		
16,500.0	8,575.0	15,496.6	7,651.4	194.2	194.0	0.03	-796.1	7,405.9	924.8	795.6	129.19	7.158		
16,600.0	8,575.0	15,596.6	7,653.0	196.6	196.4	0.03	-796.0	7,505.8	923.1	792.3	130.74	7.060		
16,700.0	8,575.0	15,703.4	7,654.7	199.1	199.0	0.03	-795.8	7,605.8	921.4	789.0	132.35	6.962		
16,800.0	8,575.0	15,796.6	7,656.4	201.5	201.3	0.03	-795.7	7,705.8	919.7	785.8	133.85	6.871		
16,900.0	8,575.0	15,903.4	7,658.1	203.9	203.9	0.03	-795.6	7,805.7	918.0	782.6	135.47	6.777		
17,000.0	8,575.0	15,996.6	7,659.8	206.3	206.1	0.03	-795.4	7,905.7	916.3	779.4	136.97	6.690		
17,100.0	8,575.0	16,103.5	7,661.5	208.8	208.7	0.03	-795.3	8,005.7	914.7	776.1	138.58	6.600		
17,200.0	8,575.0	16,203.5	7,663.1	211.2	211.2	0.03	-795.2	8,105.7	913.0	772.8	140.14	6.515		
17,300.0	8,575.0	16,296.5	7,664.8	213.6	213.4	0.03	-795.1	8,205.6	911.3	769.6	141.64	6.434		
17,400.0	8,575.0	16,403.5	7,666.5	216.0	216.0	0.03	-794.9	8,305.6	909.6	766.3	143.25	6.350		
17,500.0	8,575.0	16,503.5	7,668.2	218.5	218.5	0.03	-794.8	8,405.6	907.9	763.1	144.81	6.270		
17,600.0	8,575.0	16,603.5	7,669.9	220.9	220.9	0.03	-794.7	8,505.5	906.2	759.9	146.37	6.191		
17,700.0	8,575.0	16,703.5	7,671.6	223.3	223.3	0.03	-794.6	8,605.5	904.5	756.6	147.93	6.115		
17,800.0	8,575.0	16,803.6	7,673.3	225.8	225.8	0.02	-794.4	8,705.5	902.9	753.4	149.49	6.040		
17,900.0	8,575.0	16,896.4	7,674.9	228.2	228.0	0.02	-794.3	8,805.5	901.2	750.2	150.99	5.968		
18,000.0	8,575.0	17,003.6	7,676.6	230.6	230.6	0.02	-794.2	8,905.4	899.5	746.9	152.61	5.894		
18,100.0	8,575.0	17,103.6	7,678.3	233.0	233.1	0.02	-794.1	9,005.4	897.8	743.6	154.17	5.824		
18,200.0	8,575.0	17,196.4	7,680.0	235.5	235.3	0.02	-793.9	9,105.4	896.1	740.5	155.67	5.757		
18,300.0	8,575.0	17,303.6	7,681.7	237.9	237.9	0.02	-793.8	9,205.3	894.4	737.2	157.29	5.687		
18,400.0	8,575.0	17,403.6	7,683.4	240.3	240.4	0.02	-793.7	9,305.3	892.8	733.9	158.85	5.620		
18,500.0	8,575.0	17,496.3	7,685.0	242.8	242.6	0.02	-793.6	9,405.3	891.1	730.7	160.35	5.557		
18,600.0	8,575.0	17,603.7	7,686.7	245.2	245.3	0.02	-793.4	9,505.3	889.4	727.4	161.97	5.491		
18,700.0	8,575.0	17,703.7	7,688.4	247.6	247.7	0.02	-793.3	9,605.2	887.7	724.2	163.53	5.428		
18,800.0	8,575.0	17,803.7	7,690.1	250.1	250.1	0.02	-793.2	9,705.2	886.0	720.9	165.09	5.367		
18,900.0	8,575.0	17,903.7	7,691.8	252.5	252.6	0.02	-793.1	9,805.2	884.3	717.7	166.65	5.307		
19,000.0	8,575.0	17,996.3	7,693.5	255.0	254.8	0.02	-792.9	9,905.1	882.7	714.5	168.15	5.249		
19,100.0	8,575.0	18,103.7	7,695.1	257.4	257.5	0.02	-792.8	10,005.1	881.0	711.2	169.77	5.189		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
19,200.0	8,575.0	18,203.8	7,696.8	259.8	259.9	0.02	-792.7	10,105.1	879.3	708.0	171.33	5.132		
19,300.0	8,575.0	18,296.2	7,698.5	262.3	262.1	0.01	-792.6	10,205.1	877.6	704.8	172.84	5.078		
19,400.0	8,575.0	18,403.8	7,700.2	264.7	264.8	0.01	-792.4	10,305.0	875.9	701.5	174.46	5.021		
19,500.0	8,575.0	18,503.8	7,701.9	267.1	267.2	0.01	-792.3	10,405.0	874.2	698.2	176.02	4.967		
19,600.0	8,575.0	18,596.2	7,703.6	269.6	269.5	0.01	-792.2	10,505.0	872.6	695.0	177.52	4.915		
19,700.0	8,575.0	18,703.8	7,705.2	272.0	272.1	0.01	-792.1	10,604.9	870.9	691.7	179.14	4.861		
19,800.0	8,575.0	18,796.2	7,706.9	274.5	274.4	0.01	-791.9	10,704.9	869.2	688.5	180.65	4.812		
19,900.0	8,575.0	18,896.1	7,708.6	276.9	276.8	0.01	-791.8	10,804.9	867.5	685.3	182.21	4.761		
20,000.0	8,575.0	19,003.9	7,710.3	279.3	279.4	0.01	-791.7	10,904.9	865.8	682.0	183.83	4.710		
20,100.0	8,575.0	19,103.9	7,712.0	281.8	281.9	0.01	-791.6	11,004.8	864.1	678.7	185.39	4.661		
20,200.0	8,575.0	19,196.1	7,713.7	284.2	284.1	0.01	-791.4	11,104.8	862.5	675.6	186.90	4.615		
20,300.0	8,575.0	19,303.9	7,715.4	286.6	286.8	0.01	-791.3	11,204.8	860.8	672.2	188.52	4.566		
20,400.0	8,575.0	19,403.9	7,717.0	289.1	289.2	0.01	-791.2	11,304.7	859.1	669.0	190.08	4.520		
20,500.0	8,575.0	19,496.1	7,718.7	291.5	291.4	0.01	-791.1	11,404.7	857.4	665.8	191.59	4.475		
20,600.0	8,575.0	19,604.0	7,720.4	294.0	294.1	0.01	-790.9	11,504.7	855.7	662.5	193.21	4.429		
20,700.0	8,575.0	19,704.0	7,722.1	296.4	296.5	0.01	-790.8	11,604.7	854.0	659.3	194.77	4.385		
20,800.0	8,575.0	19,796.0	7,723.8	298.9	298.8	0.00	-790.7	11,704.6	852.3	656.1	196.27	4.343		
20,900.0	8,575.0	19,896.0	7,725.5	301.3	301.2	0.00	-790.6	11,804.6	850.7	652.8	197.84	4.300		
21,000.0	8,575.0	20,004.0	7,727.1	303.7	303.9	0.00	-790.4	11,904.6	849.0	649.5	199.46	4.256		
21,100.0	8,575.0	20,096.0	7,728.8	306.2	306.1	0.00	-790.3	12,004.5	847.3	646.3	200.96	4.216		
21,200.0	8,575.0	20,196.0	7,730.5	308.6	308.5	0.00	-790.2	12,104.5	845.6	643.1	202.53	4.175		
21,213.6	8,575.0	20,196.6	7,730.5	309.0	308.6	0.00	-790.2	12,105.2	845.5	642.7	202.79	4.169		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-0.20	29.9	-0.1	29.9					
100.0	100.0	101.0	99.0	0.1	0.1	-0.20	29.9	-0.1	29.9	29.6	0.26	114.930		
200.0	200.0	201.0	199.0	0.5	0.5	-0.20	29.9	-0.1	29.9	28.9	0.98	30.578		
300.0	300.0	301.0	299.0	0.8	0.8	-0.20	29.9	-0.1	29.9	28.2	1.69	17.635		
400.0	400.0	401.0	399.0	1.2	1.2	-0.20	29.9	-0.1	29.9	27.5	2.41	12.390		
500.0	500.0	501.0	499.0	1.6	1.6	-0.20	29.9	-0.1	29.9	26.7	3.13	9.550		
600.0	600.0	601.0	599.0	1.9	1.9	-0.20	29.9	-0.1	29.9	26.0	3.84	7.769		
700.0	700.0	701.0	699.0	2.3	2.3	-0.20	29.9	-0.1	29.9	25.3	4.56	6.548		
800.0	800.0	801.0	799.0	2.6	2.6	-0.20	29.9	-0.1	29.9	24.6	5.28	5.659		
900.0	900.0	901.0	899.0	3.0	3.0	-0.20	29.9	-0.1	29.9	23.9	6.00	4.982		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-0.20	29.9	-0.1	29.9	23.2	6.71	4.450 CC, ES		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	141.56	29.9	-0.1	31.5	24.1	7.41	4.255		
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	147.81	29.9	-0.1	36.9	28.8	8.11	4.551		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	154.87	29.9	-0.1	46.5	37.7	8.81	5.276		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	159.33	29.9	-0.1	56.2	46.9	9.30	6.042		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	160.85	29.9	-0.1	60.5	50.9	9.52	6.351		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	164.85	29.9	-0.1	75.9	65.7	10.19	7.449		
1,600.0	1,595.4	1,594.0	1,594.0	5.5	5.5	166.51	30.7	-1.4	91.8	80.9	10.89	8.433		
1,700.0	1,694.1	1,692.3	1,692.1	5.9	5.8	165.88	33.5	-5.4	108.1	96.5	11.58	9.335		
1,800.0	1,792.7	1,790.2	1,789.7	6.3	6.2	163.87	38.1	-12.2	124.9	112.7	12.28	10.172		
1,900.0	1,891.4	1,887.5	1,886.4	6.7	6.5	161.02	44.6	-21.7	142.6	129.6	12.99	10.973		
2,000.0	1,990.1	1,984.1	1,981.8	7.1	6.9	157.66	52.9	-33.8	161.3	147.6	13.71	11.769		
2,100.0	2,088.8	2,081.4	2,077.6	7.5	7.3	154.33	62.3	-47.7	181.2	166.7	14.44	12.547		
2,200.0	2,187.5	2,178.9	2,173.6	7.9	7.6	151.64	71.9	-61.7	201.6	186.4	15.19	13.271		
2,300.0	2,286.2	2,276.4	2,269.7	8.3	8.0	149.44	81.4	-75.7	222.3	206.3	15.94	13.941		
2,400.0	2,384.9	2,373.9	2,365.7	8.8	8.4	147.62	91.0	-89.7	243.3	226.5	16.71	14.560		
2,500.0	2,483.5	2,471.4	2,461.7	9.2	8.8	146.08	100.5	-103.7	264.4	247.0	17.47	15.132		
2,600.0	2,582.2	2,568.9	2,557.7	9.6	9.2	144.78	110.0	-117.7	285.8	267.5	18.25	15.660		
2,700.0	2,680.9	2,666.4	2,653.8	10.1	9.6	143.65	119.6	-131.7	307.2	288.2	19.03	16.147		
2,800.0	2,779.6	2,763.9	2,749.8	10.5	10.0	142.68	129.1	-145.7	328.8	309.0	19.81	16.598		
2,900.0	2,878.3	2,861.4	2,845.8	10.9	10.4	141.82	138.6	-159.7	350.4	329.8	20.59	17.016		
3,000.0	2,977.0	2,958.9	2,941.8	11.3	10.8	141.06	148.2	-173.7	372.1	350.7	21.38	17.404		
3,100.0	3,075.7	3,056.4	3,037.9	11.8	11.2	140.39	157.7	-187.6	393.9	371.7	22.17	17.765		
3,200.0	3,174.3	3,153.9	3,133.9	12.2	11.7	139.78	167.3	-201.6	415.7	392.7	22.96	18.102		
3,300.0	3,273.0	3,251.5	3,229.9	12.6	12.1	139.24	176.8	-215.6	437.5	413.7	23.76	18.416		
3,400.0	3,371.7	3,349.0	3,325.9	13.1	12.5	138.75	186.3	-229.6	459.4	434.8	24.55	18.710		
3,500.0	3,470.4	3,446.5	3,422.0	13.5	12.9	138.30	195.9	-243.6	481.3	455.9	25.35	18.985		
3,600.0	3,569.1	3,544.0	3,518.0	14.0	13.3	137.89	205.4	-257.6	503.2	477.1	26.15	19.244		
3,700.0	3,667.8	3,641.5	3,614.0	14.4	13.8	137.52	214.9	-271.6	525.2	498.2	26.95	19.487		
3,800.0	3,766.5	3,739.0	3,710.0	14.8	14.2	137.17	224.5	-285.6	547.1	519.4	27.75	19.716		
3,900.0	3,865.1	3,836.5	3,806.0	15.3	14.6	136.85	234.0	-299.6	569.1	540.6	28.55	19.932		
4,000.0	3,963.8	3,934.0	3,902.1	15.7	15.0	136.56	243.5	-313.6	591.1	561.8	29.36	20.136		
4,100.0	4,062.5	4,031.5	3,998.1	16.1	15.5	136.29	253.1	-327.6	613.2	583.0	30.16	20.329		
4,200.0	4,161.2	4,129.0	4,094.1	16.6	15.9	136.03	262.6	-341.5	635.2	604.2	30.97	20.511		
4,300.0	4,259.9	4,226.5	4,190.1	17.0	16.3	135.79	272.2	-355.5	657.2	625.5	31.77	20.685		
4,400.0	4,358.6	4,324.0	4,286.2	17.5	16.8	135.57	281.7	-369.5	679.3	646.7	32.58	20.849		
4,500.0	4,457.3	4,421.5	4,382.2	17.9	17.2	135.37	291.2	-383.5	701.3	668.0	33.39	21.006		
4,600.0	4,555.9	4,519.0	4,478.2	18.3	17.6	135.17	300.8	-397.5	723.4	689.2	34.20	21.155		
4,700.0	4,654.6	4,616.5	4,574.2	18.8	18.1	134.99	310.3	-411.5	745.5	710.5	35.01	21.297		
4,800.0	4,753.3	4,714.0	4,670.3	19.2	18.5	134.81	319.8	-425.5	767.6	731.8	35.81	21.432		
4,900.0	4,852.0	4,811.5	4,766.3	19.7	18.9	134.65	329.4	-439.5	789.7	753.0	36.62	21.561		
5,000.0	4,950.7	4,909.0	4,862.3	20.1	19.3	134.50	338.9	-453.5	811.8	774.3	37.43	21.685		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,006.6	4,958.3	20.6	19.8	134.35	348.5	-467.5	833.9	795.6	38.25	21.803		
5,200.0	5,148.1	5,104.1	5,054.4	21.0	20.2	134.21	358.0	-481.4	856.0	816.9	39.06	21.916		
5,300.0	5,246.7	5,201.6	5,150.4	21.4	20.6	134.08	367.5	-495.4	878.1	838.2	39.87	22.025		
5,400.0	5,345.4	5,299.1	5,246.4	21.9	21.1	133.95	377.1	-509.4	900.2	859.5	40.68	22.129		
5,500.0	5,444.1	5,403.4	5,342.4	22.3	21.5	133.83	386.6	-523.4	922.3	880.8	41.52	22.213		
5,600.0	5,542.8	5,505.9	5,438.5	22.8	22.0	133.72	396.1	-537.4	944.4	902.1	42.35	22.298		
5,700.0	5,641.5	5,608.4	5,534.5	23.2	22.5	133.61	405.7	-551.4	966.6	923.4	43.19	22.380		
5,800.0	5,740.2	5,689.1	5,630.5	23.7	22.8	133.51	415.2	-565.4	988.7	944.8	43.93	22.506		
5,900.0	5,838.9	5,786.6	5,726.5	24.1	23.3	133.41	424.7	-579.4	1,010.8	966.1	44.74	22.591		
6,000.0	5,937.5	5,884.1	5,822.6	24.5	23.7	133.31	434.3	-593.4	1,033.0	987.4	45.56	22.674		
6,100.0	6,036.2	5,981.6	5,918.6	25.0	24.1	133.22	443.8	-607.4	1,055.1	1,008.7	46.37	22.753		
6,200.0	6,134.9	6,079.1	6,014.6	25.4	24.6	133.14	453.4	-621.3	1,077.2	1,030.1	47.19	22.830		
6,300.0	6,233.6	6,176.6	6,110.6	25.9	25.0	133.05	462.9	-635.3	1,099.4	1,051.4	48.00	22.903		
6,400.0	6,332.3	6,274.1	6,206.7	26.3	25.4	132.97	472.4	-649.3	1,121.5	1,072.7	48.82	22.975		
6,500.0	6,431.0	6,371.6	6,302.7	26.8	25.9	132.90	482.0	-663.3	1,143.7	1,094.0	49.63	23.044		
6,600.0	6,529.6	6,469.1	6,398.7	27.2	26.3	132.82	491.5	-677.3	1,165.8	1,115.4	50.45	23.110		
6,700.0	6,628.3	6,600.9	6,528.8	27.6	26.9	132.81	503.1	-694.3	1,187.0	1,135.4	51.54	23.032		
6,800.0	6,727.0	6,748.7	6,675.9	28.1	27.5	133.13	511.2	-706.2	1,204.3	1,151.7	52.63	22.881		
6,900.0	6,825.7	6,897.4	6,824.5	28.5	28.0	133.78	513.9	-710.2	1,217.6	1,164.0	53.60	22.717		
7,000.0	6,924.4	7,003.7	6,923.4	29.0	28.3	134.32	513.9	-710.2	1,228.9	1,174.5	54.34	22.616		
7,100.0	7,023.1	7,105.0	7,022.1	29.4	28.6	134.85	513.9	-710.2	1,240.3	1,185.2	55.06	22.526		
7,200.0	7,121.8	7,206.3	7,120.8	29.9	28.9	135.38	513.9	-710.2	1,251.8	1,196.0	55.78	22.441		
7,300.0	7,220.4	7,307.7	7,219.4	30.3	29.2	135.89	513.9	-710.2	1,263.4	1,206.9	56.50	22.360		
7,400.0	7,319.1	7,409.0	7,318.1	30.7	29.5	136.39	513.9	-710.2	1,275.2	1,217.9	57.22	22.284		
7,466.5	7,384.7	7,456.6	7,383.7	31.0	29.7	136.72	513.9	-710.2	1,283.0	1,225.4	57.64	22.259		
7,500.0	7,417.8	7,489.7	7,416.8	31.2	29.8	136.92	513.9	-710.2	1,286.9	1,229.0	57.88	22.235		
7,600.0	7,516.9	7,588.8	7,515.9	31.6	30.1	137.44	513.9	-710.2	1,297.2	1,238.6	58.58	22.144		
7,700.0	7,616.2	7,688.1	7,615.2	32.0	30.4	137.87	513.9	-710.2	1,305.6	1,246.4	59.27	22.028		
7,800.0	7,715.8	7,787.7	7,714.8	32.4	30.7	138.19	513.9	-710.2	1,312.2	1,252.2	59.96	21.886		
7,900.0	7,815.6	7,887.5	7,814.6	32.8	31.0	138.41	513.9	-710.2	1,316.8	1,256.2	60.63	21.719		
8,000.0	7,915.5	7,987.4	7,914.5	33.1	31.4	138.54	513.9	-710.2	1,319.5	1,258.2	61.29	21.527		
8,086.5	8,002.0	8,073.9	8,001.0	33.3	31.6	-0.61	513.9	-710.2	1,320.2	1,258.4	61.85	21.345		
8,100.0	8,015.5	8,087.7	8,014.8	33.4	31.7	-90.41	513.9	-710.1	1,320.2	1,258.3	61.93	21.317		
8,150.0	8,065.4	8,138.8	8,065.8	33.5	31.8	-90.41	513.9	-706.7	1,320.2	1,258.0	62.21	21.222		
8,200.0	8,114.8	8,189.9	8,116.3	33.6	31.9	-90.41	514.0	-698.7	1,320.2	1,257.8	62.45	21.141		
8,250.0	8,163.3	8,241.0	8,165.8	33.7	32.0	-90.40	514.0	-686.3	1,320.2	1,257.5	62.65	21.073		
8,300.0	8,210.6	8,292.1	8,214.0	33.8	32.1	-90.40	514.0	-669.5	1,320.1	1,257.3	62.82	21.016		
8,350.0	8,256.3	8,343.1	8,260.5	33.8	32.2	-90.38	514.0	-648.6	1,320.1	1,257.1	62.96	20.968		
8,400.0	8,300.1	8,394.1	8,305.0	33.9	32.2	-90.37	514.0	-623.6	1,320.0	1,257.0	63.07	20.929		
8,450.0	8,341.6	8,445.1	8,347.0	33.9	32.3	-90.35	514.1	-594.7	1,320.0	1,256.8	63.18	20.894		
8,500.0	8,380.6	8,496.0	8,386.2	33.9	32.3	-90.33	514.1	-562.3	1,319.9	1,256.6	63.27	20.861		
8,550.0	8,416.6	8,546.9	8,422.4	33.9	32.4	-90.31	514.2	-526.6	1,319.8	1,256.4	63.37	20.826		
8,600.0	8,449.5	8,597.6	8,455.2	33.9	32.4	-90.29	514.2	-487.9	1,319.7	1,256.2	63.49	20.786		
8,650.0	8,479.0	8,648.3	8,484.4	33.9	32.4	-90.26	514.3	-446.4	1,319.6	1,256.0	63.64	20.736		
8,700.0	8,504.8	8,699.0	8,509.8	33.9	32.5	-90.23	514.3	-402.7	1,319.5	1,255.7	63.82	20.675		
8,750.0	8,526.9	8,749.5	8,531.2	33.8	32.5	-90.20	514.4	-356.9	1,319.4	1,255.4	64.06	20.597		
8,800.0	8,544.9	8,800.0	8,548.5	33.8	32.6	-90.17	514.4	-309.5	1,319.3	1,255.0	64.35	20.503		
8,850.0	8,558.8	8,850.3	8,561.5	33.8	32.8	-90.13	514.5	-260.9	1,319.2	1,254.5	64.70	20.389		
8,900.0	8,568.4	8,900.6	8,570.1	33.7	32.9	-90.10	514.6	-211.4	1,319.1	1,254.0	65.11	20.258		
8,950.0	8,573.8	8,950.8	8,574.5	33.7	33.1	-90.06	514.6	-161.4	1,319.0	1,253.4	65.59	20.111		
8,986.5	8,575.0	8,987.3	8,575.0	33.7	33.3	-90.05	514.7	-124.9	1,318.9	1,252.9	65.97	19.993		
8,992.9	8,575.0	8,993.8	8,575.1	33.8	33.3	-90.05	514.7	-118.4	1,318.9	1,252.8	66.04	19.972		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
8,993.2	8,575.0	8,994.0	8,575.1	33.8	33.3	-90.05	514.7	-118.2	1,318.9	1,252.8	66.04	19.971		
9,000.0	8,575.0	9,000.8	8,575.1	33.8	33.4	-90.05	514.7	-111.3	1,318.9	1,252.8	66.12	19.948		
9,100.0	8,575.0	9,100.8	8,575.5	33.9	34.0	-90.07	514.8	-11.3	1,318.9	1,251.5	67.43	19.561		
9,200.0	8,575.0	9,200.8	8,575.7	34.4	34.8	-90.08	514.9	88.6	1,318.9	1,249.8	69.06	19.098		
9,300.0	8,575.0	9,300.8	8,575.8	35.3	35.7	-90.08	515.0	188.6	1,318.9	1,247.9	71.00	18.577		
9,400.0	8,575.0	9,400.8	8,575.8	36.3	36.9	-90.08	515.2	288.6	1,318.9	1,245.7	73.21	18.016		
9,500.0	8,575.0	9,500.8	8,575.8	37.6	38.1	-90.08	515.3	388.6	1,318.9	1,243.2	75.68	17.428		
9,600.0	8,575.0	9,600.8	8,575.8	38.9	39.5	-90.08	515.4	488.6	1,318.9	1,240.5	78.38	16.828		
9,700.0	8,575.0	9,700.8	8,575.8	40.4	41.0	-90.08	515.5	588.6	1,318.9	1,237.6	81.28	16.226		
9,800.0	8,575.0	9,800.8	8,575.8	41.9	42.5	-90.08	515.7	688.6	1,318.9	1,234.6	84.38	15.631		
9,900.0	8,575.0	9,900.8	8,575.8	43.6	44.2	-90.08	515.8	788.6	1,318.9	1,231.3	87.64	15.050		
10,000.0	8,575.0	10,000.8	8,575.8	45.3	45.9	-90.08	515.9	888.6	1,319.0	1,227.9	91.04	14.487		
10,100.0	8,575.0	10,100.8	8,575.8	47.0	47.7	-90.08	516.0	988.6	1,319.0	1,224.4	94.58	13.945		
10,200.0	8,575.0	10,200.8	8,575.8	48.9	49.5	-90.08	516.2	1,088.6	1,319.0	1,220.7	98.24	13.426		
10,300.0	8,575.0	10,300.8	8,575.8	50.8	51.4	-90.08	516.3	1,188.6	1,319.0	1,217.0	102.01	12.930		
10,400.0	8,575.0	10,400.8	8,575.8	52.7	53.3	-90.08	516.4	1,288.6	1,319.0	1,213.1	105.86	12.459		
10,500.0	8,575.0	10,500.8	8,575.8	54.7	55.3	-90.08	516.5	1,388.6	1,319.0	1,209.2	109.81	12.012		
10,600.0	8,575.0	10,600.8	8,575.8	56.7	57.3	-90.08	516.7	1,488.6	1,319.0	1,205.2	113.82	11.588		
10,700.0	8,575.0	10,700.8	8,575.7	58.7	59.4	-90.08	516.8	1,588.6	1,319.0	1,201.1	117.91	11.187		
10,800.0	8,575.0	10,800.8	8,575.7	60.8	61.4	-90.08	516.9	1,688.6	1,319.0	1,197.0	122.06	10.807		
10,900.0	8,575.0	10,900.8	8,575.7	62.9	63.5	-90.08	517.0	1,788.6	1,319.0	1,192.8	126.26	10.447		
11,000.0	8,575.0	11,000.8	8,575.7	65.0	65.7	-90.08	517.2	1,888.6	1,319.1	1,188.5	130.51	10.107		
11,100.0	8,575.0	11,100.8	8,575.7	67.1	67.8	-90.08	517.3	1,988.6	1,319.1	1,184.3	134.80	9.785		
11,200.0	8,575.0	11,200.8	8,575.7	69.3	70.0	-90.08	517.4	2,088.6	1,319.1	1,179.9	139.14	9.480		
11,300.0	8,575.0	11,300.8	8,575.7	71.5	72.2	-90.08	517.5	2,188.6	1,319.1	1,175.6	143.51	9.191		
11,400.0	8,575.0	11,400.8	8,575.7	73.7	74.4	-90.08	517.7	2,288.6	1,319.1	1,171.2	147.92	8.918		
11,500.0	8,575.0	11,500.8	8,575.7	75.9	76.6	-90.07	517.8	2,388.6	1,319.1	1,166.7	152.36	8.658		
11,600.0	8,575.0	11,600.8	8,575.7	78.2	78.8	-90.07	517.9	2,488.6	1,319.1	1,162.3	156.82	8.411		
11,700.0	8,575.0	11,700.8	8,575.7	80.4	81.1	-90.07	518.0	2,588.6	1,319.1	1,157.8	161.32	8.177		
11,800.0	8,575.0	11,800.8	8,575.7	82.7	83.3	-90.07	518.1	2,688.6	1,319.1	1,153.3	165.83	7.955		
11,900.0	8,575.0	11,900.8	8,575.7	84.9	85.6	-90.07	518.3	2,788.6	1,319.1	1,148.8	170.37	7.743		
12,000.0	8,575.0	12,000.8	8,575.7	87.2	87.9	-90.07	518.4	2,888.6	1,319.1	1,144.2	174.93	7.541		
12,100.0	8,575.0	12,100.8	8,575.6	89.5	90.2	-90.07	518.5	2,988.6	1,319.2	1,139.6	179.51	7.349		
12,200.0	8,575.0	12,200.8	8,575.6	91.8	92.5	-90.07	518.6	3,088.6	1,319.2	1,135.1	184.10	7.165		
12,300.0	8,575.0	12,300.8	8,575.6	94.1	94.8	-90.07	518.8	3,188.6	1,319.2	1,130.5	188.71	6.990		
12,400.0	8,575.0	12,400.8	8,575.6	96.4	97.1	-90.07	518.9	3,288.6	1,319.2	1,125.8	193.34	6.823		
12,500.0	8,575.0	12,500.8	8,575.6	98.7	99.4	-90.07	519.0	3,388.6	1,319.2	1,121.2	197.97	6.663		
12,600.0	8,575.0	12,600.8	8,575.6	101.0	101.7	-90.07	519.1	3,488.6	1,319.2	1,116.6	202.63	6.511		
12,700.0	8,575.0	12,700.8	8,575.6	103.4	104.1	-90.07	519.3	3,588.6	1,319.2	1,111.9	207.29	6.364		
12,800.0	8,575.0	12,800.8	8,575.6	105.7	106.4	-90.07	519.4	3,688.6	1,319.2	1,107.3	211.96	6.224		
12,900.0	8,575.0	12,900.8	8,575.6	108.0	108.8	-90.07	519.5	3,788.6	1,319.2	1,102.6	216.65	6.089		
13,000.0	8,575.0	13,000.8	8,575.6	110.4	111.1	-90.07	519.6	3,888.6	1,319.2	1,097.9	221.34	5.960		
13,100.0	8,575.0	13,100.8	8,575.6	112.7	113.5	-90.07	519.8	3,988.6	1,319.2	1,093.2	226.05	5.836		
13,200.0	8,575.0	13,200.8	8,575.6	115.1	115.8	-90.07	519.9	4,088.6	1,319.3	1,088.5	230.76	5.717		
13,300.0	8,575.0	13,300.8	8,575.6	117.5	118.2	-90.07	520.0	4,188.6	1,319.3	1,083.8	235.48	5.602		
13,400.0	8,575.0	13,400.8	8,575.6	119.8	120.5	-90.07	520.1	4,288.6	1,319.3	1,079.1	240.21	5.492		
13,500.0	8,575.0	13,500.8	8,575.5	122.2	122.9	-90.07	520.3	4,388.6	1,319.3	1,074.3	244.95	5.386		
13,600.0	8,575.0	13,600.8	8,575.5	124.6	125.3	-90.07	520.4	4,488.6	1,319.3	1,069.6	249.69	5.284		
13,700.0	8,575.0	13,700.8	8,575.5	126.9	127.6	-90.07	520.5	4,588.6	1,319.3	1,064.9	254.44	5.185		
13,800.0	8,575.0	13,800.8	8,575.5	129.3	130.0	-90.07	520.6	4,688.6	1,319.3	1,060.1	259.20	5.090		
13,900.0	8,575.0	13,900.8	8,575.5	131.7	132.4	-90.07	520.8	4,788.6	1,319.3	1,055.4	263.96	4.998		
14,000.0	8,575.0	14,000.8	8,575.5	134.1	134.8	-90.07	520.9	4,888.6	1,319.3	1,050.6	268.72	4.910		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	8,575.0	14,100.8	8,575.5	136.4	137.2	-90.07	521.0	4,988.6	1,319.3	1,045.8	273.49	4.824		
14,200.0	8,575.0	14,200.8	8,575.5	138.8	139.6	-90.07	521.1	5,088.6	1,319.3	1,041.1	278.27	4.741		
14,300.0	8,575.0	14,300.8	8,575.5	141.2	142.0	-90.07	521.3	5,188.6	1,319.4	1,036.3	283.05	4.661		
14,400.0	8,575.0	14,400.8	8,575.5	143.6	144.3	-90.07	521.4	5,288.6	1,319.4	1,031.5	287.84	4.584		
14,500.0	8,575.0	14,500.8	8,575.5	146.0	146.7	-90.07	521.5	5,388.6	1,319.4	1,026.7	292.63	4.509		
14,600.0	8,575.0	14,600.8	8,575.5	148.4	149.1	-90.06	521.6	5,488.6	1,319.4	1,022.0	297.42	4.436		
14,700.0	8,575.0	14,700.8	8,575.5	150.8	151.5	-90.06	521.8	5,588.6	1,319.4	1,017.2	302.22	4.366		
14,800.0	8,575.0	14,800.8	8,575.5	153.2	153.9	-90.06	521.9	5,688.6	1,319.4	1,012.4	307.02	4.297		
14,900.0	8,575.0	14,900.8	8,575.4	155.6	156.3	-90.06	522.0	5,788.6	1,319.4	1,007.6	311.82	4.231		
15,000.0	8,575.0	15,000.8	8,575.4	158.0	158.7	-90.06	522.1	5,888.6	1,319.4	1,002.8	316.63	4.167		
15,100.0	8,575.0	15,100.8	8,575.4	160.4	161.1	-90.06	522.2	5,988.6	1,319.4	998.0	321.44	4.105		
15,200.0	8,575.0	15,200.8	8,575.4	162.8	163.6	-90.06	522.4	6,088.6	1,319.4	993.2	326.26	4.044		
15,300.0	8,575.0	15,300.8	8,575.4	165.2	166.0	-90.06	522.5	6,188.6	1,319.4	988.4	331.07	3.985		
15,400.0	8,575.0	15,400.8	8,575.4	167.6	168.4	-90.06	522.6	6,288.6	1,319.5	983.6	335.89	3.928		
15,500.0	8,575.0	15,500.8	8,575.4	170.0	170.8	-90.06	522.7	6,388.6	1,319.5	978.8	340.71	3.873		
15,600.0	8,575.0	15,600.8	8,575.4	172.5	173.2	-90.06	522.9	6,488.6	1,319.5	973.9	345.54	3.819		
15,700.0	8,575.0	15,700.8	8,575.4	174.9	175.6	-90.06	523.0	6,588.6	1,319.5	969.1	350.37	3.766		
15,800.0	8,575.0	15,800.8	8,575.4	177.3	178.0	-90.06	523.1	6,688.6	1,319.5	964.3	355.20	3.715		
15,900.0	8,575.0	15,900.8	8,575.4	179.7	180.4	-90.06	523.2	6,788.6	1,319.5	959.5	360.03	3.665		
16,000.0	8,575.0	16,000.8	8,575.4	182.1	182.9	-90.06	523.4	6,888.6	1,319.5	954.7	364.86	3.616		
16,100.0	8,575.0	16,100.8	8,575.4	184.5	185.3	-90.06	523.5	6,988.6	1,319.5	949.8	369.70	3.569		
16,200.0	8,575.0	16,200.8	8,575.4	187.0	187.7	-90.06	523.6	7,088.6	1,319.5	945.0	374.54	3.523		
16,300.0	8,575.0	16,300.8	8,575.3	189.4	190.1	-90.06	523.7	7,188.6	1,319.5	940.2	379.38	3.478		
16,400.0	8,575.0	16,400.8	8,575.3	191.8	192.5	-90.06	523.9	7,288.6	1,319.6	935.3	384.22	3.434		
16,500.0	8,575.0	16,500.8	8,575.3	194.2	194.9	-90.06	524.0	7,388.6	1,319.6	930.5	389.06	3.392		
16,600.0	8,575.0	16,600.8	8,575.3	196.6	197.4	-90.06	524.1	7,488.6	1,319.6	925.7	393.91	3.350		
16,700.0	8,575.0	16,700.8	8,575.3	199.1	199.8	-90.06	524.2	7,588.6	1,319.6	920.8	398.75	3.309		
16,800.0	8,575.0	16,800.8	8,575.3	201.5	202.2	-90.06	524.4	7,688.6	1,319.6	916.0	403.60	3.270		
16,900.0	8,575.0	16,900.8	8,575.3	203.9	204.6	-90.06	524.5	7,788.6	1,319.6	911.1	408.45	3.231		
17,000.0	8,575.0	17,000.8	8,575.3	206.3	207.1	-90.06	524.6	7,888.6	1,319.6	906.3	413.30	3.193		
17,100.0	8,575.0	17,100.8	8,575.3	208.8	209.5	-90.06	524.7	7,988.6	1,319.6	901.5	418.15	3.156		
17,200.0	8,575.0	17,200.8	8,575.3	211.2	211.9	-90.06	524.9	8,088.6	1,319.6	896.6	423.01	3.120		
17,300.0	8,575.0	17,300.8	8,575.3	213.6	214.3	-90.06	525.0	8,188.6	1,319.6	891.8	427.86	3.084		
17,400.0	8,575.0	17,400.8	8,575.3	216.0	216.8	-90.06	525.1	8,288.6	1,319.6	886.9	432.72	3.050		
17,500.0	8,575.0	17,500.8	8,575.3	218.5	219.2	-90.06	525.2	8,388.6	1,319.7	882.1	437.58	3.016		
17,600.0	8,575.0	17,600.8	8,575.3	220.9	221.6	-90.06	525.4	8,488.6	1,319.7	877.2	442.44	2.983		
17,700.0	8,575.0	17,700.8	8,575.2	223.3	224.1	-90.05	525.5	8,588.6	1,319.7	872.4	447.30	2.950		
17,800.0	8,575.0	17,800.8	8,575.2	225.8	226.5	-90.05	525.6	8,688.6	1,319.7	867.5	452.16	2.919		
17,900.0	8,575.0	17,900.8	8,575.2	228.2	228.9	-90.05	525.7	8,788.6	1,319.7	862.7	457.02	2.888		
18,000.0	8,575.0	18,000.8	8,575.2	230.6	231.4	-90.05	525.9	8,888.6	1,319.7	857.8	461.88	2.857		
18,100.0	8,575.0	18,100.8	8,575.2	233.0	233.8	-90.05	526.0	8,988.6	1,319.7	853.0	466.75	2.827		
18,200.0	8,575.0	18,200.8	8,575.2	235.5	236.2	-90.05	526.1	9,088.6	1,319.7	848.1	471.61	2.798		
18,300.0	8,575.0	18,300.8	8,575.2	237.9	238.7	-90.05	526.2	9,188.6	1,319.7	843.2	476.48	2.770		
18,400.0	8,575.0	18,400.8	8,575.2	240.3	241.1	-90.05	526.3	9,288.6	1,319.7	838.4	481.35	2.742		
18,500.0	8,575.0	18,500.8	8,575.2	242.8	243.5	-90.05	526.5	9,388.6	1,319.7	833.5	486.22	2.714		
18,600.0	8,575.0	18,600.8	8,575.2	245.2	246.0	-90.05	526.6	9,488.6	1,319.8	828.7	491.09	2.687		
18,700.0	8,575.0	18,700.8	8,575.2	247.6	248.4	-90.05	526.7	9,588.6	1,319.8	823.8	495.96	2.661		
18,800.0	8,575.0	18,800.8	8,575.2	250.1	250.8	-90.05	526.8	9,688.6	1,319.8	818.9	500.83	2.635		
18,900.0	8,575.0	18,900.8	8,575.2	252.5	253.3	-90.05	527.0	9,788.6	1,319.8	814.1	505.70	2.610		
19,000.0	8,575.0	19,000.8	8,575.2	255.0	255.7	-90.05	527.1	9,888.6	1,319.8	809.2	510.57	2.585		
19,100.0	8,575.0	19,100.8	8,575.1	257.4	258.1	-90.05	527.2	9,988.6	1,319.8	804.4	515.44	2.561		
19,200.0	8,575.0	19,200.8	8,575.1	259.8	260.6	-90.05	527.3	10,088.6	1,319.8	799.5	520.32	2.537		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #125H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	8,575.0	19,300.8	8,575.1	262.3	263.0	-90.05	527.5	10,188.6	1,319.8	794.6	525.19	2.513	
19,400.0	8,575.0	19,400.8	8,575.1	264.7	265.4	-90.05	527.6	10,288.6	1,319.8	789.8	530.07	2.490	
19,500.0	8,575.0	19,500.8	8,575.1	267.1	267.9	-90.05	527.7	10,388.6	1,319.8	784.9	534.94	2.467	
19,600.0	8,575.0	19,600.8	8,575.1	269.6	270.3	-90.05	527.8	10,488.6	1,319.8	780.0	539.82	2.445	
19,700.0	8,575.0	19,700.8	8,575.1	272.0	272.8	-90.05	528.0	10,588.6	1,319.9	775.2	544.70	2.423	
19,800.0	8,575.0	19,800.8	8,575.1	274.5	275.2	-90.05	528.1	10,688.6	1,319.9	770.3	549.57	2.402	
19,900.0	8,575.0	19,900.8	8,575.1	276.9	277.6	-90.05	528.2	10,788.6	1,319.9	765.4	554.45	2.381	
20,000.0	8,575.0	20,000.8	8,575.1	279.3	280.1	-90.05	528.3	10,888.6	1,319.9	760.6	559.33	2.360	
20,100.0	8,575.0	20,100.8	8,575.1	281.8	282.5	-90.05	528.5	10,988.6	1,319.9	755.7	564.21	2.339	
20,200.0	8,575.0	20,200.8	8,575.1	284.2	285.0	-90.05	528.6	11,088.6	1,319.9	750.8	569.09	2.319	
20,300.0	8,575.0	20,300.8	8,575.1	286.6	287.4	-90.05	528.7	11,188.6	1,319.9	745.9	573.97	2.300	
20,400.0	8,575.0	20,400.8	8,575.1	289.1	289.8	-90.05	528.8	11,288.6	1,319.9	741.1	578.85	2.280	
20,500.0	8,575.0	20,500.8	8,575.1	291.5	292.3	-90.05	529.0	11,388.6	1,319.9	736.2	583.73	2.261	
20,600.0	8,575.0	20,600.8	8,575.0	294.0	294.7	-90.05	529.1	11,488.6	1,319.9	731.3	588.62	2.242	
20,700.0	8,575.0	20,700.8	8,575.0	296.4	297.2	-90.05	529.2	11,588.6	1,319.9	726.4	593.50	2.224	
20,800.0	8,575.0	20,800.8	8,575.0	298.9	299.6	-90.04	529.3	11,688.6	1,320.0	721.6	598.38	2.206	
20,900.0	8,575.0	20,900.8	8,575.0	301.3	302.0	-90.04	529.5	11,788.6	1,320.0	716.7	603.26	2.188	
21,000.0	8,575.0	21,000.8	8,575.0	303.7	304.5	-90.04	529.6	11,888.6	1,320.0	711.8	608.15	2.170	
21,100.0	8,575.0	21,100.8	8,575.0	306.2	306.9	-90.04	529.7	11,988.6	1,320.0	707.0	613.03	2.153	
21,200.0	8,575.0	21,200.8	8,575.0	308.6	309.4	-90.04	529.8	12,088.6	1,320.0	702.1	617.92	2.136	
21,200.1	8,575.0	21,200.9	8,575.0	308.6	309.4	-90.04	529.8	12,088.7	1,320.0	702.1	617.92	2.136	
21,213.6	8,575.0	21,212.2	8,575.0	309.0	309.6	-90.04	529.8	12,100.0	1,320.0	701.5	618.52	2.134 SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-15.93	2,139.1	-610.4	2,224.8					
100.0	100.0	64.0	64.0	0.1	0.1	-15.93	2,139.1	-610.4	2,224.5	2,224.3	0.21	N/A		
200.0	200.0	164.0	164.0	0.5	0.4	-15.93	2,139.1	-610.4	2,224.5	2,223.7	0.84	2,635.069		
300.0	300.0	264.0	264.0	0.8	0.7	-15.93	2,139.1	-610.4	2,224.5	2,223.0	1.56	1,424.934		
400.0	400.0	364.0	364.0	1.2	1.1	-15.93	2,139.1	-610.4	2,224.5	2,222.2	2.28	976.489		
500.0	500.0	464.0	464.0	1.6	1.4	-15.93	2,139.1	-610.4	2,224.5	2,221.5	3.00	742.740		
600.0	600.0	564.0	564.0	1.9	1.8	-15.93	2,139.1	-610.4	2,224.5	2,220.8	3.71	599.284		
700.0	700.0	664.0	664.0	2.3	2.1	-15.93	2,139.1	-610.4	2,224.5	2,220.1	4.43	502.273		
800.0	800.0	764.0	764.0	2.6	2.5	-15.93	2,139.1	-610.4	2,224.5	2,219.4	5.15	432.295		
900.0	900.0	864.0	864.0	3.0	2.9	-15.93	2,139.1	-610.4	2,224.5	2,218.7	5.86	379.431		
1,000.0	1,000.0	964.0	964.0	3.4	3.2	-15.93	2,139.1	-610.4	2,224.5	2,217.9	6.58	338.087	CC, ES	
1,100.0	1,100.0	1,046.2	1,046.2	3.7	3.5	123.27	2,139.3	-610.5	2,226.0	2,218.8	7.22	308.418		
1,200.0	1,199.7	1,118.2	1,118.2	4.0	3.8	123.26	2,140.3	-610.9	2,231.0	2,223.2	7.81	285.700		
1,300.0	1,299.1	1,189.8	1,189.8	4.4	4.0	123.24	2,142.0	-611.7	2,239.7	2,231.2	8.41	266.416		
1,372.0	1,370.4	1,241.0	1,240.9	4.6	4.2	123.21	2,143.8	-612.5	2,248.1	2,239.3	8.84	254.246		
1,400.0	1,398.0	1,260.8	1,260.7	4.7	4.3	123.28	2,144.6	-612.8	2,251.9	2,242.8	9.01	249.843		
1,500.0	1,496.7	1,331.5	1,331.3	5.1	4.5	123.51	2,147.9	-614.3	2,266.0	2,256.3	9.62	235.474		
1,600.0	1,595.4	1,400.0	1,399.7	5.5	4.8	123.73	2,151.9	-616.1	2,281.3	2,271.1	10.23	223.002		
1,700.0	1,694.1	1,472.2	1,471.6	5.9	5.0	123.95	2,156.9	-618.3	2,297.9	2,287.1	10.85	211.693		
1,800.0	1,792.7	1,542.1	1,541.3	6.3	5.3	124.16	2,162.5	-620.9	2,315.8	2,304.3	11.47	201.830		
1,900.0	1,891.4	1,611.8	1,610.6	6.7	5.6	124.36	2,168.9	-623.7	2,334.8	2,322.8	12.09	193.074		
2,000.0	1,990.1	1,681.1	1,679.5	7.1	5.8	124.56	2,176.1	-626.9	2,355.1	2,342.4	12.71	185.277		
2,100.0	2,088.8	1,750.2	1,748.0	7.5	6.1	124.75	2,183.9	-630.4	2,376.6	2,363.3	13.33	178.312		
2,200.0	2,187.5	1,826.7	1,823.8	7.9	6.4	124.95	2,193.5	-634.6	2,399.3	2,385.3	13.98	171.656		
2,300.0	2,286.2	1,923.4	1,919.6	8.3	6.7	125.20	2,205.8	-640.1	2,422.3	2,407.6	14.72	164.593		
2,400.0	2,384.9	2,020.2	2,015.5	8.8	7.1	125.45	2,218.1	-645.6	2,445.3	2,429.9	15.46	158.180		
2,500.0	2,483.5	2,117.0	2,111.3	9.2	7.5	125.69	2,230.4	-651.1	2,468.4	2,452.2	16.20	152.335		
2,600.0	2,582.2	2,213.7	2,207.1	9.6	7.9	125.93	2,242.7	-656.6	2,491.5	2,474.6	16.95	146.988		
2,700.0	2,680.9	2,310.5	2,302.9	10.1	8.3	126.16	2,255.0	-662.0	2,514.7	2,497.0	17.70	142.081		
2,800.0	2,779.6	2,407.3	2,398.8	10.5	8.6	126.39	2,267.3	-667.5	2,537.9	2,519.4	18.45	137.564		
2,900.0	2,878.3	2,504.0	2,494.6	10.9	9.0	126.62	2,279.6	-673.0	2,561.1	2,541.9	19.20	133.392		
3,000.0	2,977.0	2,600.8	2,590.4	11.3	9.4	126.84	2,291.9	-678.5	2,584.4	2,564.4	19.95	129.529		
3,100.0	3,075.7	2,702.4	2,686.3	11.8	9.8	127.06	2,304.2	-684.0	2,607.7	2,587.0	20.72	125.834		
3,200.0	3,174.3	2,805.6	2,782.1	12.2	10.2	127.27	2,316.5	-689.5	2,631.0	2,609.5	21.50	122.366		
3,300.0	3,273.0	2,908.9	2,877.9	12.6	10.7	127.48	2,328.8	-694.9	2,654.4	2,632.1	22.28	119.138		
3,400.0	3,371.7	2,987.9	2,973.7	13.1	11.0	127.68	2,341.1	-700.4	2,677.8	2,654.9	22.97	116.580		
3,500.0	3,470.4	3,084.7	3,069.6	13.5	11.4	127.89	2,353.4	-705.9	2,701.3	2,677.6	23.73	113.854		
3,600.0	3,569.1	3,181.4	3,165.4	14.0	11.8	128.09	2,365.7	-711.4	2,724.8	2,700.3	24.48	111.294		
3,700.0	3,667.8	3,278.2	3,261.2	14.4	12.2	128.28	2,378.0	-716.9	2,748.3	2,723.0	25.24	108.888		
3,800.0	3,766.5	3,470.4	3,451.8	14.8	12.9	128.67	2,400.2	-726.8	2,771.1	2,744.7	26.45	104.766		
3,900.0	3,865.1	3,801.8	3,782.5	15.3	14.2	129.44	2,418.6	-735.0	2,787.2	2,759.1	28.17	98.946		
4,000.0	3,963.8	3,947.1	3,927.8	15.7	14.6	129.81	2,419.1	-735.2	2,797.8	2,768.7	29.09	96.190		
4,100.0	4,062.5	4,045.8	4,026.5	16.1	15.0	130.06	2,419.1	-735.2	2,808.3	2,778.4	29.84	94.120		
4,200.0	4,161.2	4,144.5	4,125.2	16.6	15.3	130.31	2,419.1	-735.2	2,818.8	2,788.2	30.59	92.153		
4,300.0	4,259.9	4,243.1	4,223.9	17.0	15.6	130.56	2,419.1	-735.2	2,829.3	2,798.0	31.34	90.282		
4,400.0	4,358.6	4,341.8	4,322.6	17.5	16.0	130.80	2,419.1	-735.2	2,839.9	2,807.9	32.09	88.501		
4,500.0	4,457.3	4,440.5	4,421.3	17.9	16.3	131.05	2,419.1	-735.2	2,850.6	2,817.8	32.84	86.803		
4,600.0	4,555.9	4,539.2	4,519.9	18.3	16.7	131.29	2,419.1	-735.2	2,861.3	2,827.7	33.59	85.182		
4,700.0	4,654.6	4,637.9	4,618.6	18.8	17.0	131.53	2,419.1	-735.2	2,872.1	2,837.8	34.34	83.635		
4,800.0	4,753.3	4,736.6	4,717.3	19.2	17.3	131.77	2,419.1	-735.2	2,882.9	2,847.8	35.09	82.155		
4,900.0	4,852.0	4,835.3	4,816.0	19.7	17.7	132.01	2,419.1	-735.2	2,893.8	2,857.9	35.84	80.739		
5,000.0	4,950.7	4,933.9	4,914.7	20.1	18.0	132.24	2,419.1	-735.2	2,904.7	2,868.1	36.59	79.383		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,032.6	5,013.4	20.6	18.3	132.47	2,419.1	-735.2	2,915.7	2,878.3	37.34	78.083		
5,200.0	5,148.1	5,131.3	5,112.1	21.0	18.7	132.71	2,419.1	-735.2	2,926.7	2,888.6	38.09	76.836		
5,300.0	5,246.7	5,230.0	5,210.7	21.4	19.0	132.94	2,419.1	-735.2	2,937.7	2,898.9	38.84	75.639		
5,400.0	5,345.4	5,328.7	5,309.4	21.9	19.4	133.16	2,419.1	-735.2	2,948.9	2,909.3	39.59	74.489		
5,500.0	5,444.1	5,427.4	5,408.1	22.3	19.7	133.39	2,419.1	-735.2	2,960.0	2,919.7	40.34	73.383		
5,600.0	5,542.8	5,526.1	5,506.8	22.8	20.1	133.62	2,419.1	-735.2	2,971.2	2,930.1	41.08	72.319		
5,700.0	5,641.5	5,624.7	5,605.5	23.2	20.4	133.84	2,419.1	-735.2	2,982.5	2,940.6	41.83	71.295		
5,800.0	5,740.2	5,723.4	5,704.2	23.7	20.7	134.06	2,419.1	-735.2	2,993.8	2,951.2	42.58	70.308		
5,900.0	5,838.9	5,822.1	5,802.9	24.1	21.1	134.28	2,419.1	-735.2	3,005.1	2,961.8	43.33	69.357		
6,000.0	5,937.5	5,920.8	5,901.5	24.5	21.4	134.50	2,419.1	-735.2	3,016.5	2,972.4	44.07	68.440		
6,100.0	6,036.2	6,019.5	6,000.2	25.0	21.8	134.72	2,419.1	-735.2	3,027.9	2,983.1	44.82	67.554		
6,200.0	6,134.9	6,118.2	6,098.9	25.4	22.1	134.93	2,419.1	-735.2	3,039.4	2,993.8	45.57	66.699		
6,300.0	6,233.6	6,216.9	6,197.6	25.9	22.5	135.14	2,419.1	-735.2	3,050.9	3,004.6	46.31	65.873		
6,400.0	6,332.3	6,315.5	6,296.3	26.3	22.8	135.36	2,419.1	-735.2	3,062.4	3,015.4	47.06	65.074		
6,500.0	6,431.0	6,414.2	6,395.0	26.8	23.1	135.57	2,419.1	-735.2	3,074.0	3,026.2	47.81	64.302		
6,600.0	6,529.6	6,512.9	6,493.6	27.2	23.5	135.77	2,419.1	-735.2	3,085.7	3,037.1	48.55	63.554		
6,700.0	6,628.3	6,611.6	6,592.3	27.6	23.8	135.98	2,419.1	-735.2	3,097.3	3,048.0	49.30	62.830		
6,800.0	6,727.0	6,710.3	6,691.0	28.1	24.2	136.19	2,419.1	-735.2	3,109.0	3,059.0	50.04	62.129		
6,900.0	6,825.7	6,809.0	6,789.7	28.5	24.5	136.39	2,419.1	-735.2	3,120.8	3,070.0	50.79	61.450		
7,000.0	6,924.4	6,907.7	6,888.4	29.0	24.9	136.59	2,419.1	-735.2	3,132.6	3,081.1	51.53	60.792		
7,100.0	7,023.1	7,006.3	6,987.1	29.4	25.2	136.80	2,419.1	-735.2	3,144.4	3,092.2	52.27	60.153		
7,200.0	7,121.8	7,105.0	7,085.8	29.9	25.6	137.00	2,419.1	-735.2	3,156.3	3,103.3	53.02	59.533		
7,300.0	7,220.4	7,203.7	7,184.4	30.3	25.9	137.19	2,419.1	-735.2	3,168.2	3,114.4	53.76	58.932		
7,400.0	7,319.1	7,302.4	7,283.1	30.7	26.3	137.39	2,419.1	-735.2	3,180.2	3,125.6	54.50	58.347		
7,466.5	7,384.7	7,368.0	7,348.7	31.0	26.5	137.52	2,419.1	-735.2	3,188.1	3,133.1	55.00	57.968		
7,500.0	7,417.8	7,401.1	7,381.8	31.2	26.6	137.62	2,419.1	-735.2	3,192.0	3,136.8	55.25	57.779		
7,600.0	7,516.9	7,500.1	7,480.9	31.6	27.0	137.90	2,419.1	-735.2	3,202.4	3,146.5	55.98	57.206		
7,700.0	7,616.2	7,600.5	7,580.2	32.0	27.3	138.12	2,419.1	-735.2	3,210.9	3,154.2	56.71	56.621		
7,800.0	7,715.8	7,700.9	7,679.8	32.4	27.7	138.29	2,419.1	-735.2	3,217.5	3,160.1	57.43	56.027		
7,900.0	7,815.6	7,801.1	7,779.6	32.8	28.0	138.41	2,419.1	-735.2	3,222.1	3,164.0	58.13	55.426		
8,000.0	7,915.5	7,901.2	7,879.5	33.1	28.4	138.48	2,419.1	-735.2	3,224.8	3,166.0	58.83	54.817		
8,086.5	8,002.0	7,985.3	7,966.0	33.3	28.7	-0.69	2,419.1	-735.2	3,225.5	3,166.1	59.40	54.299		
8,100.0	8,015.5	8,001.2	7,979.5	33.4	28.7	-90.50	2,419.1	-735.2	3,225.5	3,166.0	59.50	54.210		
8,150.0	8,065.4	8,048.7	8,029.4	33.5	28.9	-90.55	2,419.1	-735.2	3,225.6	3,165.8	59.81	53.933		
8,200.0	8,114.8	8,101.9	8,078.8	33.6	29.1	-90.68	2,419.1	-735.2	3,225.7	3,165.5	60.12	53.654		
8,250.0	8,163.3	8,146.6	8,127.3	33.7	29.2	-90.87	2,419.1	-735.2	3,225.8	3,165.4	60.39	53.418		
8,300.0	8,210.6	8,206.1	8,174.6	33.8	29.5	-91.11	2,419.1	-735.2	3,226.1	3,165.4	60.70	53.152		
8,350.0	8,256.3	8,239.6	8,220.3	33.8	29.6	-91.39	2,419.1	-735.2	3,226.6	3,165.7	60.90	52.982		
8,400.0	8,300.1	8,283.4	8,264.1	33.9	29.7	-91.69	2,419.1	-735.2	3,227.3	3,166.2	61.13	52.794		
8,450.0	8,341.6	8,324.9	8,305.6	33.9	29.9	-91.99	2,419.1	-735.2	3,228.4	3,167.1	61.35	52.625		
8,500.0	8,380.6	8,363.8	8,344.6	33.9	30.0	-92.27	2,419.1	-735.2	3,229.9	3,168.4	61.55	52.474		
8,550.0	8,416.6	8,400.1	8,380.6	33.9	30.1	-92.51	2,419.1	-735.2	3,231.9	3,170.2	61.75	52.338		
8,600.0	8,449.5	8,432.8	8,413.5	33.9	30.3	-92.69	2,419.1	-735.2	3,234.6	3,172.6	61.94	52.218		
8,650.0	8,479.0	8,462.2	8,443.0	33.9	30.4	-92.79	2,419.1	-735.2	3,237.8	3,175.7	62.13	52.110		
8,700.0	8,504.8	8,488.1	8,468.8	33.9	30.4	-92.77	2,419.1	-735.2	3,241.9	3,179.5	62.33	52.012		
8,750.0	8,526.9	8,510.1	8,490.9	33.8	30.5	-92.64	2,419.1	-735.2	3,246.7	3,184.1	62.53	51.923		
8,800.0	8,544.9	8,528.1	8,508.9	33.8	30.6	-92.37	2,419.1	-735.2	3,252.3	3,189.6	62.74	51.841		
8,850.0	8,558.8	8,542.0	8,522.8	33.8	30.6	-91.95	2,419.1	-735.2	3,258.8	3,195.9	62.95	51.767		
8,900.0	8,568.4	8,551.7	8,532.4	33.7	30.7	-91.37	2,419.1	-735.2	3,266.2	3,203.0	63.18	51.700		
8,950.0	8,573.8	8,557.1	8,537.8	33.7	30.7	-90.64	2,419.1	-735.2	3,274.4	3,211.0	63.40	51.643		
8,986.5	8,575.0	8,558.2	8,539.0	33.7	30.7	-90.00	2,419.1	-735.2	3,280.9	3,217.3	63.57	51.608		
8,993.2	8,575.0	8,558.2	8,539.0	33.8	30.7	-90.00	2,419.1	-735.2	3,282.1	3,218.5	63.60	51.603		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
9,000.0	8,575.0	8,558.2	8,539.0	33.8	30.7	-90.00	2,419.1	-735.2	3,283.4	3,219.8	63.64	51.597		
9,100.0	8,575.0	8,558.2	8,539.0	33.9	30.7	-90.00	2,419.1	-735.2	3,303.8	3,239.6	64.18	51.478		
9,200.0	8,575.0	8,558.2	8,539.0	34.4	30.7	-90.00	2,419.1	-735.2	3,327.1	3,262.2	64.84	51.313		
9,300.0	8,575.0	8,558.2	8,539.0	35.3	30.7	-90.00	2,419.1	-735.2	3,353.2	3,287.6	65.60	51.116		
9,400.0	8,575.0	8,558.2	8,539.0	36.3	30.7	-90.00	2,419.1	-735.2	3,382.0	3,315.6	66.45	50.899		
9,500.0	8,575.0	8,558.2	8,539.0	37.6	30.7	-90.00	2,419.1	-735.2	3,413.6	3,346.2	67.36	50.675		
9,600.0	8,575.0	10,505.6	9,525.2	38.9	43.5	-106.64	2,495.9	475.2	3,443.7	3,364.0	79.74	43.186		
9,700.0	8,575.0	10,605.6	9,526.3	40.4	45.0	-106.66	2,496.0	575.2	3,444.0	3,361.4	82.63	41.682		
9,800.0	8,575.0	10,705.5	9,527.4	41.9	46.7	-106.68	2,496.2	675.2	3,444.4	3,358.7	85.68	40.202		
9,900.0	8,575.0	10,805.5	9,528.5	43.6	48.4	-106.70	2,496.3	775.2	3,444.7	3,355.8	88.87	38.761		
10,000.0	8,575.0	10,905.5	9,529.7	45.3	50.1	-106.71	2,496.4	875.2	3,445.0	3,352.8	92.20	37.366		
10,100.0	8,575.0	11,005.5	9,530.8	47.0	52.0	-106.73	2,496.5	975.2	3,445.3	3,349.7	95.64	36.024		
10,200.0	8,575.0	11,105.5	9,531.9	48.9	53.8	-106.75	2,496.6	1,075.2	3,445.7	3,346.5	99.19	34.739		
10,300.0	8,575.0	11,205.5	9,533.0	50.8	55.7	-106.77	2,496.8	1,175.1	3,446.0	3,343.2	102.83	33.513		
10,400.0	8,575.0	11,305.5	9,534.2	52.7	57.7	-106.78	2,496.9	1,275.1	3,446.3	3,339.8	106.55	32.345		
10,500.0	8,575.0	11,405.5	9,535.3	54.7	59.7	-106.80	2,497.0	1,375.1	3,446.7	3,336.3	110.35	31.233		
10,600.0	8,575.0	11,505.5	9,536.4	56.7	61.7	-106.82	2,497.1	1,475.1	3,447.0	3,332.8	114.22	30.179		
10,700.0	8,575.0	11,605.5	9,537.5	58.7	63.8	-106.84	2,497.3	1,575.1	3,447.3	3,329.2	118.15	29.178		
10,800.0	8,575.0	11,705.5	9,538.6	60.8	65.9	-106.86	2,497.4	1,675.1	3,447.6	3,325.5	122.13	28.229		
10,900.0	8,575.0	11,805.5	9,539.8	62.9	68.0	-106.87	2,497.5	1,775.1	3,448.0	3,321.8	126.16	27.329		
11,000.0	8,575.0	11,905.5	9,540.9	65.0	70.1	-106.89	2,497.6	1,875.1	3,448.3	3,318.1	130.24	26.476		
11,100.0	8,575.0	12,005.5	9,542.0	67.1	72.3	-106.91	2,497.7	1,975.0	3,448.6	3,314.3	134.36	25.667		
11,200.0	8,575.0	12,105.5	9,543.1	69.3	74.5	-106.93	2,497.9	2,075.0	3,449.0	3,310.5	138.52	24.899		
11,300.0	8,575.0	12,205.5	9,544.2	71.5	76.6	-106.94	2,498.0	2,175.0	3,449.3	3,306.6	142.71	24.171		
11,400.0	8,575.0	12,305.4	9,545.4	73.7	78.8	-106.96	2,498.1	2,275.0	3,449.6	3,302.7	146.93	23.479		
11,500.0	8,575.0	12,405.4	9,546.5	75.9	81.1	-106.98	2,498.2	2,375.0	3,450.0	3,298.8	151.17	22.821		
11,600.0	8,575.0	12,505.4	9,547.6	78.2	83.3	-107.00	2,498.3	2,475.0	3,450.3	3,294.9	155.45	22.196		
11,700.0	8,575.0	12,605.4	9,548.7	80.4	85.5	-107.02	2,498.5	2,575.0	3,450.6	3,290.9	159.75	21.601		
11,800.0	8,575.0	12,705.4	9,549.9	82.7	87.8	-107.03	2,498.6	2,675.0	3,451.0	3,286.9	164.07	21.034		
11,900.0	8,575.0	12,805.4	9,551.0	84.9	90.1	-107.05	2,498.7	2,774.9	3,451.3	3,282.9	168.41	20.494		
12,000.0	8,575.0	12,905.4	9,552.1	87.2	92.3	-107.07	2,498.8	2,874.9	3,451.6	3,278.9	172.76	19.979		
12,100.0	8,575.0	13,005.4	9,553.2	89.5	94.6	-107.09	2,498.9	2,974.9	3,452.0	3,274.8	177.14	19.488		
12,200.0	8,575.0	13,105.4	9,554.3	91.8	96.9	-107.10	2,499.1	3,074.9	3,452.3	3,270.8	181.53	19.018		
12,300.0	8,575.0	13,205.4	9,555.5	94.1	99.2	-107.12	2,499.2	3,174.9	3,452.6	3,266.7	185.93	18.569		
12,400.0	8,575.0	13,305.4	9,556.6	96.4	101.5	-107.14	2,499.3	3,274.9	3,453.0	3,262.6	190.35	18.140		
12,500.0	8,575.0	13,405.4	9,557.7	98.7	103.9	-107.16	2,499.4	3,374.9	3,453.3	3,258.5	194.78	17.729		
12,600.0	8,575.0	13,505.4	9,558.8	101.0	106.2	-107.18	2,499.5	3,474.9	3,453.7	3,254.4	199.22	17.336		
12,700.0	8,575.0	13,605.4	9,559.9	103.4	108.5	-107.19	2,499.7	3,574.8	3,454.0	3,250.3	203.67	16.958		
12,800.0	8,575.0	13,705.4	9,561.1	105.7	110.8	-107.21	2,499.8	3,674.8	3,454.3	3,246.2	208.14	16.597		
12,900.0	8,575.0	13,805.4	9,562.2	108.0	113.2	-107.23	2,499.9	3,774.8	3,454.7	3,242.1	212.61	16.249		
13,000.0	8,575.0	13,905.3	9,563.3	110.4	115.5	-107.25	2,500.0	3,874.8	3,455.0	3,237.9	217.09	15.915		
13,100.0	8,575.0	14,005.3	9,564.4	112.7	117.9	-107.26	2,500.2	3,974.8	3,455.3	3,233.8	221.58	15.594		
13,200.0	8,575.0	14,105.3	9,565.6	115.1	120.2	-107.28	2,500.3	4,074.8	3,455.7	3,229.6	226.07	15.286		
13,300.0	8,575.0	14,205.3	9,566.7	117.5	122.6	-107.30	2,500.4	4,174.8	3,456.0	3,225.4	230.57	14.989		
13,400.0	8,575.0	14,305.3	9,567.8	119.8	124.9	-107.32	2,500.5	4,274.8	3,456.4	3,221.3	235.08	14.703		
13,500.0	8,575.0	14,405.3	9,568.9	122.2	127.3	-107.34	2,500.6	4,374.7	3,456.7	3,217.1	239.60	14.427		
13,600.0	8,575.0	14,505.3	9,570.0	124.6	129.7	-107.35	2,500.8	4,474.7	3,457.0	3,212.9	244.12	14.161		
13,700.0	8,575.0	14,605.3	9,571.2	126.9	132.0	-107.37	2,500.9	4,574.7	3,457.4	3,208.7	248.65	13.905		
13,800.0	8,575.0	14,705.3	9,572.3	129.3	134.4	-107.39	2,501.0	4,674.7	3,457.7	3,204.5	253.18	13.657		
13,900.0	8,575.0	14,805.3	9,573.4	131.7	136.8	-107.41	2,501.1	4,774.7	3,458.1	3,200.3	257.72	13.418		
14,000.0	8,575.0	14,905.3	9,574.5	134.1	139.2	-107.42	2,501.2	4,874.7	3,458.4	3,196.1	262.26	13.187		
14,100.0	8,575.0	15,005.3	9,575.7	136.4	141.6	-107.44	2,501.4	4,974.7	3,458.7	3,191.9	266.80	12.964		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	8,575.0	15,105.3	9,576.8	138.8	143.9	-107.46	2,501.5	5,074.7	3,459.1	3,187.7	271.35	12.748		
14,300.0	8,575.0	15,205.3	9,577.9	141.2	146.3	-107.48	2,501.6	5,174.6	3,459.4	3,183.5	275.91	12.538		
14,400.0	8,575.0	15,305.3	9,579.0	143.6	148.7	-107.49	2,501.7	5,274.6	3,459.8	3,179.3	280.46	12.336		
14,500.0	8,575.0	15,405.3	9,580.1	146.0	151.1	-107.51	2,501.8	5,374.6	3,460.1	3,175.1	285.02	12.140		
14,600.0	8,575.0	15,505.2	9,581.3	148.4	153.5	-107.53	2,502.0	5,474.6	3,460.5	3,170.9	289.59	11.950		
14,700.0	8,575.0	15,605.2	9,582.4	150.8	155.9	-107.55	2,502.1	5,574.6	3,460.8	3,166.6	294.15	11.765		
14,800.0	8,575.0	15,705.2	9,583.5	153.2	158.3	-107.57	2,502.2	5,674.6	3,461.1	3,162.4	298.72	11.587		
14,900.0	8,575.0	15,805.2	9,584.6	155.6	160.7	-107.58	2,502.3	5,774.6	3,461.5	3,158.2	303.29	11.413		
15,000.0	8,575.0	15,905.2	9,585.7	158.0	163.1	-107.60	2,502.4	5,874.6	3,461.8	3,154.0	307.86	11.245		
15,100.0	8,575.0	16,005.2	9,586.9	160.4	165.5	-107.62	2,502.6	5,974.5	3,462.2	3,149.7	312.44	11.081		
15,200.0	8,575.0	16,105.2	9,588.0	162.8	167.9	-107.64	2,502.7	6,074.5	3,462.5	3,145.5	317.02	10.922		
15,300.0	8,575.0	16,205.2	9,589.1	165.2	170.3	-107.65	2,502.8	6,174.5	3,462.9	3,141.3	321.60	10.768		
15,400.0	8,575.0	16,305.2	9,590.2	167.6	172.7	-107.67	2,502.9	6,274.5	3,463.2	3,137.0	326.18	10.618		
15,500.0	8,575.0	16,405.2	9,591.4	170.0	175.1	-107.69	2,503.0	6,374.5	3,463.6	3,132.8	330.76	10.471		
15,600.0	8,575.0	16,505.2	9,592.5	172.5	177.5	-107.71	2,503.2	6,474.5	3,463.9	3,128.6	335.35	10.329		
15,700.0	8,575.0	16,605.2	9,593.6	174.9	179.9	-107.72	2,503.3	6,574.5	3,464.2	3,124.3	339.93	10.191		
15,800.0	8,575.0	16,705.2	9,594.7	177.3	182.3	-107.74	2,503.4	6,674.5	3,464.6	3,120.1	344.52	10.056		
15,900.0	8,575.0	16,805.2	9,595.8	179.7	184.8	-107.76	2,503.5	6,774.4	3,464.9	3,115.8	349.11	9.925		
16,000.0	8,575.0	16,905.2	9,597.0	182.1	187.2	-107.78	2,503.7	6,874.4	3,465.3	3,111.6	353.70	9.797		
16,100.0	8,575.0	17,005.2	9,598.1	184.5	189.6	-107.79	2,503.8	6,974.4	3,465.6	3,107.3	358.29	9.673		
16,200.0	8,575.0	17,105.1	9,599.2	187.0	192.0	-107.81	2,503.9	7,074.4	3,466.0	3,103.1	362.89	9.551		
16,300.0	8,575.0	17,205.1	9,600.3	189.4	194.4	-107.83	2,504.0	7,174.4	3,466.3	3,098.9	367.48	9.433		
16,400.0	8,575.0	17,305.1	9,601.4	191.8	196.8	-107.85	2,504.1	7,274.4	3,466.7	3,094.6	372.08	9.317		
16,500.0	8,575.0	17,405.1	9,602.6	194.2	199.3	-107.86	2,504.3	7,374.4	3,467.0	3,090.4	376.67	9.204		
16,600.0	8,575.0	17,505.1	9,603.7	196.6	201.7	-107.88	2,504.4	7,474.4	3,467.4	3,086.1	381.27	9.094		
16,700.0	8,575.0	17,605.1	9,604.8	199.1	204.1	-107.90	2,504.5	7,574.3	3,467.7	3,081.9	385.87	8.987		
16,800.0	8,575.0	17,705.1	9,605.9	201.5	206.5	-107.92	2,504.6	7,674.3	3,468.1	3,077.6	390.46	8.882		
16,900.0	8,575.0	17,805.1	9,607.1	203.9	208.9	-107.94	2,504.7	7,774.3	3,468.4	3,073.4	395.06	8.779		
17,000.0	8,575.0	17,905.1	9,608.2	206.3	211.4	-107.95	2,504.9	7,874.3	3,468.8	3,069.1	399.66	8.679		
17,100.0	8,575.0	18,005.1	9,609.3	208.8	213.8	-107.97	2,505.0	7,974.3	3,469.1	3,064.9	404.26	8.581		
17,200.0	8,575.0	18,105.1	9,610.4	211.2	216.2	-107.99	2,505.1	8,074.3	3,469.5	3,060.6	408.86	8.486		
17,300.0	8,575.0	18,205.1	9,611.5	213.6	218.6	-108.01	2,505.2	8,174.3	3,469.8	3,056.4	413.46	8.392		
17,400.0	8,575.0	18,305.1	9,612.7	216.0	221.1	-108.02	2,505.3	8,274.3	3,470.2	3,052.1	418.07	8.301		
17,500.0	8,575.0	18,405.1	9,613.8	218.5	223.5	-108.04	2,505.5	8,374.2	3,470.5	3,047.9	422.67	8.211		
17,600.0	8,575.0	18,505.1	9,614.9	220.9	225.9	-108.06	2,505.6	8,474.2	3,470.9	3,043.6	427.27	8.123		
17,700.0	8,575.0	18,605.1	9,616.0	223.3	228.3	-108.08	2,505.7	8,574.2	3,471.2	3,039.4	431.87	8.038		
17,800.0	8,575.0	18,705.0	9,617.1	225.8	230.8	-108.09	2,505.8	8,674.2	3,471.6	3,035.1	436.47	7.954		
17,900.0	8,575.0	18,805.0	9,618.3	228.2	233.2	-108.11	2,505.9	8,774.2	3,472.0	3,030.9	441.08	7.872		
18,000.0	8,575.0	18,905.0	9,619.4	230.6	235.6	-108.13	2,506.1	8,874.2	3,472.3	3,026.6	445.68	7.791		
18,100.0	8,575.0	19,005.0	9,620.5	233.0	238.1	-108.15	2,506.2	8,974.2	3,472.7	3,022.4	450.28	7.712		
18,200.0	8,575.0	19,105.0	9,621.6	235.5	240.5	-108.16	2,506.3	9,074.1	3,473.0	3,018.1	454.89	7.635		
18,300.0	8,575.0	19,205.0	9,622.8	237.9	242.9	-108.18	2,506.4	9,174.1	3,473.4	3,013.9	459.49	7.559		
18,400.0	8,575.0	19,305.0	9,623.9	240.3	245.4	-108.20	2,506.5	9,274.1	3,473.7	3,009.6	464.09	7.485		
18,500.0	8,575.0	19,405.0	9,625.0	242.8	247.8	-108.22	2,506.7	9,374.1	3,474.1	3,005.4	468.70	7.412		
18,600.0	8,575.0	19,505.0	9,626.1	245.2	250.2	-108.23	2,506.8	9,474.1	3,474.4	3,001.1	473.30	7.341		
18,700.0	8,575.0	19,605.0	9,627.2	247.6	252.7	-108.25	2,506.9	9,574.1	3,474.8	2,996.9	477.90	7.271		
18,800.0	8,575.0	19,705.0	9,628.4	250.1	255.1	-108.27	2,507.0	9,674.1	3,475.2	2,992.6	482.51	7.202		
18,900.0	8,575.0	19,805.0	9,629.5	252.5	257.5	-108.29	2,507.2	9,774.1	3,475.5	2,988.4	487.11	7.135		
19,000.0	8,575.0	19,905.0	9,630.6	255.0	260.0	-108.30	2,507.3	9,874.0	3,475.9	2,984.2	491.71	7.069		
19,100.0	8,575.0	20,005.0	9,631.7	257.4	262.4	-108.32	2,507.4	9,974.0	3,476.2	2,979.9	496.32	7.004		
19,200.0	8,575.0	20,105.0	9,632.8	259.8	264.8	-108.34	2,507.5	10,074.0	3,476.6	2,975.7	500.92	6.940		
19,300.0	8,575.0	20,205.0	9,634.0	262.3	267.3	-108.36	2,507.6	10,174.0	3,476.9	2,971.4	505.52	6.878		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #134H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	8,575.0	20,304.9	9,635.1	264.7	269.7	-108.37	2,507.8	10,274.0	3,477.3	2,967.2	510.12	6.817	
19,500.0	8,575.0	20,404.9	9,636.2	267.1	272.1	-108.39	2,507.9	10,374.0	3,477.7	2,962.9	514.73	6.756	
19,600.0	8,575.0	20,504.9	9,637.3	269.6	274.6	-108.41	2,508.0	10,474.0	3,478.0	2,958.7	519.33	6.697	
19,700.0	8,575.0	20,604.9	9,638.5	272.0	277.0	-108.43	2,508.1	10,574.0	3,478.4	2,954.5	523.93	6.639	
19,800.0	8,575.0	20,704.9	9,639.6	274.5	279.4	-108.44	2,508.2	10,673.9	3,478.7	2,950.2	528.53	6.582	
19,900.0	8,575.0	20,804.9	9,640.7	276.9	281.9	-108.46	2,508.4	10,773.9	3,479.1	2,946.0	533.13	6.526	
20,000.0	8,575.0	20,904.9	9,641.8	279.3	284.3	-108.48	2,508.5	10,873.9	3,479.5	2,941.7	537.73	6.471	
20,100.0	8,575.0	21,004.9	9,642.9	281.8	286.8	-108.50	2,508.6	10,973.9	3,479.8	2,937.5	542.33	6.416	
20,200.0	8,575.0	21,104.9	9,644.1	284.2	289.2	-108.51	2,508.7	11,073.9	3,480.2	2,933.2	546.93	6.363	
20,300.0	8,575.0	21,204.9	9,645.2	286.6	291.6	-108.53	2,508.8	11,173.9	3,480.5	2,929.0	551.53	6.311	
20,400.0	8,575.0	21,304.9	9,646.3	289.1	294.1	-108.55	2,509.0	11,273.9	3,480.9	2,924.8	556.13	6.259	
20,500.0	8,575.0	21,404.9	9,647.4	291.5	296.5	-108.57	2,509.1	11,373.9	3,481.3	2,920.5	560.73	6.208	
20,600.0	8,575.0	21,504.9	9,648.5	294.0	299.0	-108.58	2,509.2	11,473.8	3,481.6	2,916.3	565.33	6.159	
20,700.0	8,575.0	21,604.9	9,649.7	296.4	301.4	-108.60	2,509.3	11,573.8	3,482.0	2,912.1	569.93	6.110	
20,800.0	8,575.0	21,704.9	9,650.8	298.9	303.8	-108.62	2,509.4	11,673.8	3,482.4	2,907.8	574.53	6.061	
20,900.0	8,575.0	21,804.8	9,651.9	301.3	306.3	-108.64	2,509.6	11,773.8	3,482.7	2,903.6	579.13	6.014	
21,000.0	8,575.0	21,904.8	9,653.0	303.7	308.7	-108.65	2,509.7	11,873.8	3,483.1	2,899.4	583.72	5.967	
21,100.0	8,575.0	22,004.8	9,654.2	306.2	311.2	-108.67	2,509.8	11,973.8	3,483.4	2,895.1	588.32	5.921	
21,200.0	8,575.0	22,104.8	9,655.3	308.6	313.6	-108.69	2,509.9	12,073.8	3,483.8	2,890.9	592.92	5.876	
21,213.6	8,575.0	22,118.4	9,655.4	309.0	313.9	-108.69	2,509.9	12,087.3	3,483.9	2,890.3	593.54	5.870 SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-15.18	2,139.5	-580.5	2,217.2					
100.0	100.0	64.0	64.0	0.1	0.1	-15.18	2,139.5	-580.5	2,216.9	2,216.7	0.21	N/A		
200.0	200.0	164.0	164.0	0.5	0.4	-15.18	2,139.5	-580.5	2,216.9	2,216.0	0.84	2,626.021		
300.0	300.0	264.0	264.0	0.8	0.7	-15.18	2,139.5	-580.5	2,216.9	2,215.3	1.56	1,420.041		
400.0	400.0	364.0	364.0	1.2	1.1	-15.18	2,139.5	-580.5	2,216.9	2,214.6	2.28	973.136		
500.0	500.0	464.0	464.0	1.6	1.4	-15.18	2,139.5	-580.5	2,216.9	2,213.9	3.00	740.189		
600.0	600.0	564.0	564.0	1.9	1.8	-15.18	2,139.5	-580.5	2,216.9	2,213.2	3.71	597.227		
700.0	700.0	664.0	664.0	2.3	2.1	-15.18	2,139.5	-580.5	2,216.9	2,212.5	4.43	500.549		
800.0	800.0	764.0	764.0	2.6	2.5	-15.18	2,139.5	-580.5	2,216.9	2,211.7	5.15	430.810		
900.0	900.0	864.0	864.0	3.0	2.9	-15.18	2,139.5	-580.5	2,216.9	2,211.0	5.86	378.128		
1,000.0	1,000.0	964.0	964.0	3.4	3.2	-15.18	2,139.5	-580.5	2,216.9	2,210.3	6.58	336.926		
1,100.0	1,100.0	1,064.0	1,064.0	3.7	3.6	124.03	2,139.5	-580.5	2,218.1	2,210.8	7.28	304.628		
1,200.0	1,199.7	1,163.7	1,163.7	4.0	3.9	124.09	2,139.5	-580.5	2,221.8	2,213.8	7.97	278.663		
1,300.0	1,299.1	1,263.1	1,263.1	4.4	4.3	124.20	2,139.5	-580.5	2,227.9	2,219.2	8.67	256.904		
1,372.0	1,370.4	1,334.4	1,334.4	4.6	4.6	124.29	2,139.5	-580.5	2,233.9	2,224.7	9.18	243.295		
1,400.0	1,398.0	1,362.0	1,362.0	4.7	4.7	124.39	2,139.5	-580.5	2,236.5	2,227.1	9.38	238.390		
1,500.0	1,496.7	1,460.7	1,460.7	5.1	5.0	124.73	2,139.5	-580.5	2,245.7	2,235.6	10.10	222.391		
1,600.0	1,595.4	1,593.5	1,593.5	5.5	5.5	125.17	2,138.8	-580.6	2,254.6	2,243.7	10.93	206.309		
1,700.0	1,694.1	1,749.8	1,749.7	5.9	6.0	125.65	2,134.2	-581.3	2,261.2	2,249.4	11.81	191.406		
1,800.0	1,792.7	1,906.8	1,906.5	6.3	6.5	126.09	2,125.2	-582.5	2,265.4	2,252.7	12.71	178.263		
1,900.0	1,891.4	2,064.4	2,063.5	6.7	7.0	126.49	2,112.0	-584.4	2,267.1	2,253.5	13.61	166.576		
2,000.0	1,990.1	2,222.4	2,220.5	7.1	7.6	126.85	2,094.5	-586.9	2,266.3	2,251.8	14.52	156.133		
2,100.0	2,088.8	2,380.4	2,377.0	7.5	8.2	127.17	2,072.7	-590.0	2,262.9	2,247.5	15.42	146.742		
2,200.0	2,187.5	2,524.2	2,518.8	7.9	8.7	127.43	2,049.2	-593.4	2,257.1	2,240.8	16.29	138.572		
2,300.0	2,286.2	2,623.7	2,616.8	8.3	9.1	127.61	2,032.1	-595.8	2,250.5	2,233.5	17.04	132.083		
2,400.0	2,384.9	2,723.3	2,714.8	8.8	9.5	127.78	2,015.0	-598.2	2,244.0	2,226.2	17.79	126.114		
2,500.0	2,483.5	2,822.8	2,812.9	9.2	9.9	127.96	1,997.9	-600.7	2,237.5	2,219.0	18.55	120.608		
2,600.0	2,582.2	2,922.4	2,910.9	9.6	10.3	128.14	1,980.8	-603.1	2,231.0	2,211.7	19.31	115.517		
2,700.0	2,680.9	3,021.9	3,008.9	10.1	10.7	128.32	1,963.6	-605.6	2,224.6	2,204.5	20.08	110.799		
2,800.0	2,779.6	3,121.5	3,107.0	10.5	11.1	128.50	1,946.5	-608.0	2,218.1	2,197.3	20.84	106.417		
2,900.0	2,878.3	3,221.0	3,205.0	10.9	11.5	128.68	1,929.4	-610.5	2,211.7	2,190.1	21.61	102.337		
3,000.0	2,977.0	3,320.6	3,303.0	11.3	11.9	128.86	1,912.3	-612.9	2,205.3	2,182.9	22.38	98.531		
3,100.0	3,075.7	3,420.1	3,401.1	11.8	12.3	129.04	1,895.2	-615.3	2,199.0	2,175.8	23.15	94.973		
3,200.0	3,174.3	3,519.7	3,499.1	12.2	12.8	129.23	1,878.1	-617.8	2,192.6	2,168.7	23.93	91.641		
3,300.0	3,273.0	3,619.2	3,597.1	12.6	13.2	129.41	1,861.0	-620.2	2,186.3	2,161.6	24.70	88.515		
3,400.0	3,371.7	3,718.8	3,695.2	13.1	13.6	129.60	1,843.9	-622.7	2,180.0	2,154.5	25.47	85.576		
3,500.0	3,470.4	3,818.3	3,793.2	13.5	14.0	129.79	1,826.7	-625.1	2,173.7	2,147.4	26.25	82.810		
3,600.0	3,569.1	3,917.9	3,891.2	14.0	14.5	129.98	1,809.6	-627.5	2,167.4	2,140.4	27.02	80.202		
3,700.0	3,667.8	4,017.4	3,989.3	14.4	14.9	130.17	1,792.5	-630.0	2,161.2	2,133.4	27.80	77.738		
3,800.0	3,766.5	4,117.0	4,087.3	14.8	15.3	130.36	1,775.4	-632.4	2,155.0	2,126.4	28.58	75.409		
3,900.0	3,865.1	4,216.5	4,185.4	15.3	15.8	130.55	1,758.3	-634.9	2,148.8	2,119.5	29.35	73.202		
4,000.0	3,963.8	4,316.0	4,283.4	15.7	16.2	130.74	1,741.2	-637.3	2,142.7	2,112.5	30.13	71.110		
4,100.0	4,062.5	4,415.6	4,381.4	16.1	16.6	130.94	1,724.1	-639.7	2,136.5	2,105.6	30.91	69.124		
4,200.0	4,161.2	4,515.1	4,479.5	16.6	17.1	131.13	1,706.9	-642.2	2,130.4	2,098.7	31.69	67.236		
4,300.0	4,259.9	4,614.7	4,577.5	17.0	17.5	131.33	1,689.8	-644.6	2,124.3	2,091.9	32.46	65.439		
4,400.0	4,358.6	4,714.2	4,675.5	17.5	17.9	131.52	1,672.7	-647.1	2,118.3	2,085.0	33.24	63.727		
4,500.0	4,457.3	4,813.8	4,773.6	17.9	18.4	131.72	1,655.6	-649.5	2,112.2	2,078.2	34.02	62.094		
4,600.0	4,555.9	4,913.3	4,871.6	18.3	18.8	131.92	1,638.5	-651.9	2,106.2	2,071.4	34.79	60.535		
4,700.0	4,654.6	5,012.9	4,969.6	18.8	19.3	132.12	1,621.4	-654.4	2,100.2	2,064.7	35.57	59.045		
4,800.0	4,753.3	5,112.4	5,067.7	19.2	19.7	132.32	1,604.3	-656.8	2,094.3	2,057.9	36.35	57.620		
4,900.0	4,852.0	5,212.0	5,165.7	19.7	20.2	132.53	1,587.2	-659.3	2,088.3	2,051.2	37.12	56.256		
5,000.0	4,950.7	5,311.5	5,263.7	20.1	20.6	132.73	1,570.0	-661.7	2,082.4	2,044.5	37.90	54.949		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Simon Camamile Fed Com - Simon Camamile Fed Com #135H - Wellbore #1 - BLM Plan #1													Offset Well Error:	0.0 usft
Survey Program: 0-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		
5,100.0	5,049.4	5,411.1	5,361.8	20.6	21.0	132.94	1,552.9	-664.1	2,076.5	2,037.9	38.67	53.696		
5,200.0	5,148.1	5,510.6	5,459.8	21.0	21.5	133.14	1,535.8	-666.6	2,070.7	2,031.2	39.45	52.492		
5,300.0	5,246.7	5,610.2	5,557.9	21.4	21.9	133.35	1,518.7	-669.0	2,064.9	2,024.6	40.22	51.337		
5,400.0	5,345.4	5,709.7	5,655.9	21.9	22.4	133.56	1,501.6	-671.5	2,059.1	2,018.1	41.00	50.226		
5,500.0	5,444.1	5,809.3	5,753.9	22.3	22.8	133.77	1,484.5	-673.9	2,053.3	2,011.5	41.77	49.158		
5,600.0	5,542.8	5,908.8	5,852.0	22.8	23.3	133.98	1,467.4	-676.3	2,047.6	2,005.0	42.54	48.130		
5,700.0	5,641.5	6,008.4	5,950.0	23.2	23.7	134.19	1,450.2	-678.8	2,041.8	1,998.5	43.32	47.139		
5,800.0	5,740.2	6,107.9	6,048.0	23.7	24.2	134.41	1,433.1	-681.2	2,036.2	1,992.1	44.09	46.185		
5,900.0	5,838.9	6,207.5	6,146.1	24.1	24.6	134.62	1,416.0	-683.7	2,030.5	1,985.6	44.86	45.264		
6,000.0	5,937.5	6,307.0	6,244.1	24.5	25.0	134.84	1,398.9	-686.1	2,024.9	1,979.2	45.63	44.376		
6,100.0	6,036.2	6,406.6	6,342.1	25.0	25.5	135.05	1,381.8	-688.6	2,019.3	1,972.9	46.40	43.519		
6,200.0	6,134.9	6,506.1	6,440.2	25.4	25.9	135.27	1,364.7	-691.0	2,013.7	1,966.5	47.17	42.690		
6,300.0	6,233.6	6,605.7	6,538.2	25.9	26.4	135.49	1,347.6	-693.4	2,008.2	1,960.2	47.94	41.890		
6,400.0	6,332.3	6,705.2	6,636.2	26.3	26.8	135.71	1,330.5	-695.9	2,002.6	1,953.9	48.71	41.115		
6,500.0	6,431.0	6,804.7	6,734.3	26.8	27.3	135.93	1,313.3	-698.3	1,997.2	1,947.7	49.48	40.366		
6,600.0	6,529.6	6,904.3	6,832.3	27.2	27.7	136.16	1,296.2	-700.8	1,991.7	1,941.5	50.24	39.641		
6,700.0	6,628.3	7,003.8	6,930.3	27.6	28.2	136.38	1,279.1	-703.2	1,986.3	1,935.3	51.01	38.939		
6,800.0	6,727.0	7,103.4	7,028.4	28.1	28.6	136.61	1,262.0	-705.6	1,980.9	1,929.1	51.78	38.258		
6,900.0	6,825.7	7,202.9	7,126.4	28.5	29.1	136.83	1,244.9	-708.1	1,975.5	1,923.0	52.54	37.599		
7,000.0	6,924.4	7,295.4	7,217.5	29.0	29.5	137.05	1,229.0	-710.3	1,970.2	1,917.0	53.29	36.971		
7,100.0	7,023.1	7,361.5	7,282.7	29.4	29.8	137.20	1,218.5	-711.8	1,966.2	1,912.2	53.97	36.429		
7,200.0	7,121.8	7,427.6	7,348.2	29.9	30.1	137.37	1,209.0	-713.2	1,963.8	1,909.2	54.64	35.943		
7,300.0	7,220.4	7,500.0	7,419.9	30.3	30.4	137.55	1,199.9	-714.5	1,963.2	1,907.9	55.30	35.499		
7,301.4	7,221.8	7,500.0	7,419.9	30.3	30.4	137.55	1,199.9	-714.5	1,963.2	1,907.9	55.31	35.495 CC		
7,400.0	7,319.1	7,559.9	7,479.5	30.7	30.6	137.71	1,193.5	-715.4	1,964.3	1,908.4	55.91	35.134		
7,466.5	7,384.7	7,600.0	7,519.4	31.0	30.8	137.82	1,189.6	-716.0	1,966.0	1,909.7	56.30	34.920		
7,500.0	7,417.8	7,625.9	7,545.2	31.2	30.9	137.90	1,187.4	-716.3	1,967.0	1,910.5	56.52	34.805		
7,600.0	7,516.9	7,700.0	7,619.1	31.6	31.1	138.10	1,181.9	-717.1	1,970.0	1,912.9	57.13	34.480		
7,700.0	7,616.2	7,758.0	7,677.0	32.0	31.3	138.24	1,178.6	-717.5	1,972.7	1,915.1	57.65	34.219		
7,800.0	7,715.8	7,824.1	7,743.1	32.4	31.6	138.37	1,176.0	-717.9	1,975.3	1,917.1	58.18	33.953		
7,900.0	7,815.6	7,900.0	7,818.9	32.8	31.8	138.47	1,174.3	-718.1	1,977.6	1,918.9	58.73	33.671		
8,000.0	7,915.5	7,960.6	7,879.5	33.1	32.0	138.53	1,174.0	-718.2	1,979.6	1,920.4	59.17	33.458		
8,086.5	8,002.0	8,047.1	7,966.0	33.3	32.2	-0.64	1,174.0	-718.2	1,980.3	1,920.6	59.72	33.161		
8,100.0	8,015.5	8,060.6	7,979.5	33.4	32.3	-90.44	1,174.0	-718.2	1,980.3	1,920.5	59.80	33.115		
8,150.0	8,065.4	8,110.5	8,029.4	33.5	32.4	-90.53	1,174.0	-718.2	1,980.3	1,920.2	60.10	32.948		
8,200.0	8,114.8	8,159.9	8,078.8	33.6	32.6	-90.75	1,174.0	-718.2	1,980.4	1,920.0	60.40	32.790		
8,250.0	8,163.3	8,208.4	8,127.3	33.7	32.7	-91.06	1,174.0	-718.2	1,980.6	1,919.9	60.68	32.640		
8,300.0	8,210.6	8,255.7	8,174.6	33.8	32.8	-91.47	1,174.0	-718.2	1,981.0	1,920.0	60.95	32.500		
8,350.0	8,256.3	8,301.4	8,220.3	33.8	33.0	-91.93	1,174.0	-718.2	1,981.7	1,920.4	61.22	32.372		
8,400.0	8,300.1	8,345.2	8,264.1	33.9	33.1	-92.44	1,174.0	-718.2	1,982.7	1,921.2	61.47	32.256		
8,450.0	8,341.6	8,386.7	8,305.6	33.9	33.2	-92.95	1,174.0	-718.2	1,984.3	1,922.6	61.71	32.153		
8,500.0	8,380.6	8,425.6	8,344.6	33.9	33.3	-93.43	1,174.0	-718.2	1,986.5	1,924.6	61.95	32.065		
8,550.0	8,416.6	8,461.7	8,380.6	33.9	33.4	-93.84	1,174.0	-718.2	1,989.6	1,927.4	62.19	31.991		
8,600.0	8,449.5	8,505.4	8,413.5	33.9	33.6	-94.15	1,174.0	-718.2	1,993.6	1,931.1	62.47	31.915		
8,650.0	8,479.0	8,524.1	8,443.0	33.9	33.6	-94.33	1,174.0	-718.2	1,998.6	1,936.0	62.67	31.890		
8,700.0	8,504.8	8,549.9	8,468.8	33.9	33.7	-94.34	1,174.0	-718.2	2,004.9	1,942.0	62.92	31.863		
8,750.0	8,526.9	8,571.9	8,490.9	33.8	33.8	-94.15	1,174.0	-718.2	2,012.4	1,949.2	63.18	31.853		
8,800.0	8,544.9	8,590.0	8,508.9	33.8	33.8	-93.74	1,174.0	-718.2	2,021.2	1,957.8	63.44	31.859		
8,850.0	8,558.8	8,603.9	8,522.8	33.8	33.9	-93.09	1,174.0	-718.2	2,031.4	1,967.7	63.71	31.882		
8,900.0	8,568.4	8,613.5	8,532.4	33.7	33.9	-92.18	1,174.0	-718.2	2,042.9	1,978.9	63.99	31.924		
8,950.0	8,573.8	8,618.9	8,537.8	33.7	33.9	-91.01	1,174.0	-718.2	2,055.6	1,991.4	64.27	31.985		
8,986.5	8,575.0	8,620.0	8,539.0	33.7	33.9	-90.00	1,174.0	-718.2	2,065.7	2,001.2	64.47	32.042		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
8,993.2	8,575.0	8,620.0	8,539.0	33.8	33.9	-90.00	1,174.0	-718.2	2,067.6	2,003.1	64.51	32.054		
9,000.0	8,575.0	8,620.0	8,539.0	33.8	33.9	-90.00	1,174.0	-718.2	2,069.6	2,005.1	64.54	32.066		
9,100.0	8,575.0	8,620.0	8,539.0	33.9	33.9	-90.00	1,174.0	-718.2	2,101.1	2,035.9	65.15	32.251		
9,200.0	8,575.0	8,620.0	8,539.0	34.4	33.9	-90.00	1,174.0	-718.2	2,136.8	2,071.0	65.83	32.460		
9,300.0	8,575.0	8,620.0	8,539.0	35.3	33.9	-90.00	1,174.0	-718.2	2,176.5	2,109.9	66.57	32.696		
9,400.0	8,575.0	10,365.6	9,539.5	36.3	41.0	-116.82	1,175.2	277.2	2,217.5	2,145.1	72.39	30.634		
9,500.0	8,575.0	10,465.6	9,540.5	37.6	42.3	-116.85	1,175.3	377.2	2,218.0	2,143.3	74.73	29.680		
9,600.0	8,575.0	10,565.5	9,541.6	38.9	43.7	-116.87	1,175.4	477.2	2,218.5	2,141.2	77.26	28.715		
9,700.0	8,575.0	10,665.5	9,542.7	40.4	45.2	-116.89	1,175.6	577.2	2,219.0	2,139.0	79.95	27.755		
9,800.0	8,575.0	10,765.5	9,543.7	41.9	46.8	-116.92	1,175.7	677.2	2,219.5	2,136.7	82.79	26.808		
9,900.0	8,575.0	10,865.5	9,544.8	43.6	48.5	-116.94	1,175.8	777.2	2,219.9	2,134.2	85.76	25.884		
10,000.0	8,575.0	10,965.5	9,545.9	45.3	50.2	-116.97	1,175.9	877.1	2,220.4	2,131.6	88.86	24.988		
10,100.0	8,575.0	11,065.5	9,546.9	47.0	52.0	-116.99	1,176.0	977.1	2,220.9	2,128.9	92.06	24.125		
10,200.0	8,575.0	11,165.5	9,548.0	48.9	53.8	-117.02	1,176.2	1,077.1	2,221.4	2,126.1	95.36	23.295		
10,300.0	8,575.0	11,265.5	9,549.1	50.8	55.7	-117.04	1,176.3	1,177.1	2,221.9	2,123.2	98.74	22.502		
10,400.0	8,575.0	11,365.5	9,550.1	52.7	57.7	-117.06	1,176.4	1,277.1	2,222.4	2,120.2	102.21	21.744		
10,500.0	8,575.0	11,465.5	9,551.2	54.7	59.6	-117.09	1,176.5	1,377.1	2,222.9	2,117.1	105.74	21.022		
10,600.0	8,575.0	11,565.5	9,552.3	56.7	61.7	-117.11	1,176.7	1,477.1	2,223.4	2,114.0	109.33	20.336		
10,700.0	8,575.0	11,665.5	9,553.3	58.7	63.7	-117.14	1,176.8	1,577.1	2,223.9	2,110.9	112.99	19.683		
10,800.0	8,575.0	11,765.5	9,554.4	60.8	65.8	-117.16	1,176.9	1,677.1	2,224.4	2,107.7	116.69	19.062		
10,900.0	8,575.0	11,865.5	9,555.5	62.9	67.9	-117.19	1,177.0	1,777.0	2,224.9	2,104.4	120.44	18.473		
11,000.0	8,575.0	11,965.5	9,556.5	65.0	70.0	-117.21	1,177.1	1,877.0	2,225.3	2,101.1	124.23	17.913		
11,100.0	8,575.0	12,065.5	9,557.6	67.1	72.1	-117.23	1,177.3	1,977.0	2,225.8	2,097.8	128.06	17.381		
11,200.0	8,575.0	12,165.5	9,558.6	69.3	74.3	-117.26	1,177.4	2,077.0	2,226.3	2,094.4	131.92	16.876		
11,300.0	8,575.0	12,265.5	9,559.7	71.5	76.5	-117.28	1,177.5	2,177.0	2,226.8	2,091.0	135.82	16.396		
11,400.0	8,575.0	12,365.4	9,560.8	73.7	78.7	-117.31	1,177.6	2,277.0	2,227.3	2,087.6	139.74	15.939		
11,500.0	8,575.0	12,465.4	9,561.8	75.9	80.9	-117.33	1,177.7	2,377.0	2,227.8	2,084.1	143.69	15.504		
11,600.0	8,575.0	12,565.4	9,562.9	78.2	83.1	-117.36	1,177.9	2,477.0	2,228.3	2,080.6	147.66	15.091		
11,700.0	8,575.0	12,665.4	9,564.0	80.4	85.3	-117.38	1,178.0	2,576.9	2,228.8	2,077.2	151.66	14.696		
11,800.0	8,575.0	12,765.4	9,565.0	82.7	87.6	-117.40	1,178.1	2,676.9	2,229.3	2,073.6	155.67	14.321		
11,900.0	8,575.0	12,865.4	9,566.1	84.9	89.8	-117.43	1,178.2	2,776.9	2,229.8	2,070.1	159.70	13.962		
12,000.0	8,575.0	12,965.4	9,567.2	87.2	92.1	-117.45	1,178.4	2,876.9	2,230.3	2,066.5	163.75	13.620		
12,100.0	8,575.0	13,065.4	9,568.2	89.5	94.4	-117.48	1,178.5	2,976.9	2,230.8	2,063.0	167.82	13.293		
12,200.0	8,575.0	13,165.4	9,569.3	91.8	96.7	-117.50	1,178.6	3,076.9	2,231.3	2,059.4	171.90	12.980		
12,300.0	8,575.0	13,265.4	9,570.4	94.1	99.0	-117.53	1,178.7	3,176.9	2,231.8	2,055.8	175.99	12.681		
12,400.0	8,575.0	13,365.4	9,571.4	96.4	101.3	-117.55	1,178.8	3,276.9	2,232.3	2,052.2	180.10	12.395		
12,500.0	8,575.0	13,465.4	9,572.5	98.7	103.6	-117.57	1,179.0	3,376.9	2,232.8	2,048.6	184.21	12.121		
12,600.0	8,575.0	13,565.4	9,573.6	101.0	105.9	-117.60	1,179.1	3,476.8	2,233.3	2,044.9	188.34	11.858		
12,700.0	8,575.0	13,665.4	9,574.6	103.4	108.2	-117.62	1,179.2	3,576.8	2,233.8	2,041.3	192.47	11.606		
12,800.0	8,575.0	13,765.4	9,575.7	105.7	110.5	-117.65	1,179.3	3,676.8	2,234.3	2,037.7	196.62	11.364		
12,900.0	8,575.0	13,865.4	9,576.7	108.0	112.9	-117.67	1,179.5	3,776.8	2,234.8	2,034.0	200.77	11.131		
13,000.0	8,575.0	13,965.4	9,577.8	110.4	115.2	-117.69	1,179.6	3,876.8	2,235.3	2,030.4	204.93	10.908		
13,100.0	8,575.0	14,065.3	9,578.9	112.7	117.6	-117.72	1,179.7	3,976.8	2,235.8	2,026.7	209.10	10.693		
13,200.0	8,575.0	14,165.3	9,579.9	115.1	119.9	-117.74	1,179.8	4,076.8	2,236.3	2,023.0	213.27	10.486		
13,300.0	8,575.0	14,265.3	9,581.0	117.5	122.3	-117.77	1,179.9	4,176.8	2,236.8	2,019.3	217.45	10.287		
13,400.0	8,575.0	14,365.3	9,582.1	119.8	124.6	-117.79	1,180.1	4,276.8	2,237.3	2,015.7	221.63	10.095		
13,500.0	8,575.0	14,465.3	9,583.1	122.2	127.0	-117.81	1,180.2	4,376.7	2,237.8	2,012.0	225.82	9.910		
13,600.0	8,575.0	14,565.3	9,584.2	124.6	129.3	-117.84	1,180.3	4,476.7	2,238.3	2,008.3	230.02	9.731		
13,700.0	8,575.0	14,665.3	9,585.3	126.9	131.7	-117.86	1,180.4	4,576.7	2,238.8	2,004.6	234.22	9.559		
13,800.0	8,575.0	14,765.3	9,586.3	129.3	134.1	-117.89	1,180.6	4,676.7	2,239.3	2,000.9	238.42	9.392		
13,900.0	8,575.0	14,865.3	9,587.4	131.7	136.5	-117.91	1,180.7	4,776.7	2,239.8	1,997.2	242.63	9.232		
14,000.0	8,575.0	14,965.3	9,588.5	134.1	138.8	-117.93	1,180.8	4,876.7	2,240.3	1,993.5	246.84	9.076		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	8,575.0	15,065.3	9,589.5	136.4	141.2	-117.96	1,180.9	4,976.7	2,240.8	1,989.8	251.05	8.926		
14,200.0	8,575.0	15,165.3	9,590.6	138.8	143.6	-117.98	1,181.0	5,076.7	2,241.3	1,986.1	255.27	8.780		
14,300.0	8,575.0	15,265.3	9,591.6	141.2	146.0	-118.01	1,181.2	5,176.7	2,241.8	1,982.3	259.49	8.639		
14,400.0	8,575.0	15,365.3	9,592.7	143.6	148.4	-118.03	1,181.3	5,276.6	2,242.3	1,978.6	263.71	8.503		
14,500.0	8,575.0	15,465.3	9,593.8	146.0	150.7	-118.05	1,181.4	5,376.6	2,242.8	1,974.9	267.93	8.371		
14,600.0	8,575.0	15,565.3	9,594.8	148.4	153.1	-118.08	1,181.5	5,476.6	2,243.4	1,971.2	272.16	8.243		
14,700.0	8,575.0	15,665.3	9,595.9	150.8	155.5	-118.10	1,181.7	5,576.6	2,243.9	1,967.5	276.39	8.119		
14,800.0	8,575.0	15,765.3	9,597.0	153.2	157.9	-118.13	1,181.8	5,676.6	2,244.4	1,963.8	280.62	7.998		
14,900.0	8,575.0	15,865.2	9,598.0	155.6	160.3	-118.15	1,181.9	5,776.6	2,244.9	1,960.0	284.85	7.881		
15,000.0	8,575.0	15,965.2	9,599.1	158.0	162.7	-118.17	1,182.0	5,876.6	2,245.4	1,956.3	289.08	7.767		
15,100.0	8,575.0	16,065.2	9,600.2	160.4	165.1	-118.20	1,182.1	5,976.6	2,245.9	1,952.6	293.32	7.657		
15,200.0	8,575.0	16,165.2	9,601.2	162.8	167.5	-118.22	1,182.3	6,076.5	2,246.4	1,948.9	297.55	7.550		
15,300.0	8,575.0	16,265.2	9,602.3	165.2	169.9	-118.24	1,182.4	6,176.5	2,246.9	1,945.1	301.79	7.445		
15,400.0	8,575.0	16,365.2	9,603.4	167.6	172.3	-118.27	1,182.5	6,276.5	2,247.4	1,941.4	306.03	7.344		
15,500.0	8,575.0	16,465.2	9,604.4	170.0	174.7	-118.29	1,182.6	6,376.5	2,247.9	1,937.7	310.27	7.245		
15,600.0	8,575.0	16,565.2	9,605.5	172.5	177.1	-118.32	1,182.8	6,476.5	2,248.4	1,933.9	314.50	7.149		
15,700.0	8,575.0	16,665.2	9,606.6	174.9	179.6	-118.34	1,182.9	6,576.5	2,249.0	1,930.2	318.74	7.056		
15,800.0	8,575.0	16,765.2	9,607.6	177.3	182.0	-118.36	1,183.0	6,676.5	2,249.5	1,926.5	322.98	6.965		
15,900.0	8,575.0	16,865.2	9,608.7	179.7	184.4	-118.39	1,183.1	6,776.5	2,250.0	1,922.8	327.23	6.876		
16,000.0	8,575.0	16,965.2	9,609.7	182.1	186.8	-118.41	1,183.2	6,876.5	2,250.5	1,919.0	331.47	6.790		
16,100.0	8,575.0	17,065.2	9,610.8	184.5	189.2	-118.44	1,183.4	6,976.4	2,251.0	1,915.3	335.71	6.705		
16,200.0	8,575.0	17,165.2	9,611.9	187.0	191.6	-118.46	1,183.5	7,076.4	2,251.5	1,911.6	339.95	6.623		
16,300.0	8,575.0	17,265.2	9,612.9	189.4	194.0	-118.48	1,183.6	7,176.4	2,252.0	1,907.8	344.19	6.543		
16,400.0	8,575.0	17,365.2	9,614.0	191.8	196.4	-118.51	1,183.7	7,276.4	2,252.5	1,904.1	348.43	6.465		
16,500.0	8,575.0	17,465.2	9,615.1	194.2	198.9	-118.53	1,183.9	7,376.4	2,253.1	1,900.4	352.68	6.388		
16,600.0	8,575.0	17,565.2	9,616.1	196.6	201.3	-118.55	1,184.0	7,476.4	2,253.6	1,896.7	356.92	6.314		
16,700.0	8,575.0	17,665.1	9,617.2	199.1	203.7	-118.58	1,184.1	7,576.4	2,254.1	1,892.9	361.16	6.241		
16,800.0	8,575.0	17,765.1	9,618.3	201.5	206.1	-118.60	1,184.2	7,676.4	2,254.6	1,889.2	365.40	6.170		
16,900.0	8,575.0	17,865.1	9,619.3	203.9	208.5	-118.62	1,184.3	7,776.4	2,255.1	1,885.5	369.64	6.101		
17,000.0	8,575.0	17,965.1	9,620.4	206.3	211.0	-118.65	1,184.5	7,876.3	2,255.6	1,881.8	373.88	6.033		
17,100.0	8,575.0	18,065.1	9,621.5	208.8	213.4	-118.67	1,184.6	7,976.3	2,256.2	1,878.0	378.12	5.967		
17,200.0	8,575.0	18,165.1	9,622.5	211.2	215.8	-118.70	1,184.7	8,076.3	2,256.7	1,874.3	382.36	5.902		
17,300.0	8,575.0	18,265.1	9,623.6	213.6	218.2	-118.72	1,184.8	8,176.3	2,257.2	1,870.6	386.60	5.839		
17,400.0	8,575.0	18,365.1	9,624.7	216.0	220.7	-118.74	1,185.0	8,276.3	2,257.7	1,866.9	390.84	5.777		
17,500.0	8,575.0	18,465.1	9,625.7	218.5	223.1	-118.77	1,185.1	8,376.3	2,258.2	1,863.1	395.08	5.716		
17,600.0	8,575.0	18,565.1	9,626.8	220.9	225.5	-118.79	1,185.2	8,476.3	2,258.7	1,859.4	399.32	5.657		
17,700.0	8,575.0	18,665.1	9,627.8	223.3	227.9	-118.81	1,185.3	8,576.3	2,259.3	1,855.7	403.56	5.598		
17,800.0	8,575.0	18,765.1	9,628.9	225.8	230.4	-118.84	1,185.4	8,676.3	2,259.8	1,852.0	407.79	5.542		
17,900.0	8,575.0	18,865.1	9,630.0	228.2	232.8	-118.86	1,185.6	8,776.2	2,260.3	1,848.3	412.03	5.486		
18,000.0	8,575.0	18,965.1	9,631.0	230.6	235.2	-118.88	1,185.7	8,876.2	2,260.8	1,844.6	416.26	5.431		
18,100.0	8,575.0	19,065.1	9,632.1	233.0	237.6	-118.91	1,185.8	8,976.2	2,261.3	1,840.8	420.50	5.378		
18,200.0	8,575.0	19,165.1	9,633.2	235.5	240.1	-118.93	1,185.9	9,076.2	2,261.9	1,837.1	424.73	5.325		
18,300.0	8,575.0	19,265.1	9,634.2	237.9	242.5	-118.95	1,186.1	9,176.2	2,262.4	1,833.4	428.97	5.274		
18,400.0	8,575.0	19,365.0	9,635.3	240.3	244.9	-118.98	1,186.2	9,276.2	2,262.9	1,829.7	433.20	5.224		
18,500.0	8,575.0	19,465.0	9,636.4	242.8	247.4	-119.00	1,186.3	9,376.2	2,263.4	1,826.0	437.43	5.174		
18,600.0	8,575.0	19,565.0	9,637.4	245.2	249.8	-119.02	1,186.4	9,476.2	2,264.0	1,822.3	441.66	5.126		
18,700.0	8,575.0	19,665.0	9,638.5	247.6	252.2	-119.05	1,186.5	9,576.2	2,264.5	1,818.6	445.89	5.079		
18,800.0	8,575.0	19,765.0	9,639.6	250.1	254.7	-119.07	1,186.7	9,676.1	2,265.0	1,814.9	450.12	5.032		
18,900.0	8,575.0	19,865.0	9,640.6	252.5	257.1	-119.10	1,186.8	9,776.1	2,265.5	1,811.2	454.35	4.986		
19,000.0	8,575.0	19,965.0	9,641.7	255.0	259.5	-119.12	1,186.9	9,876.1	2,266.0	1,807.5	458.57	4.942		
19,100.0	8,575.0	20,065.0	9,642.7	257.4	262.0	-119.14	1,187.0	9,976.1	2,266.6	1,803.8	462.80	4.898		
19,200.0	8,575.0	20,165.0	9,643.8	259.8	264.4	-119.17	1,187.2	10,076.1	2,267.1	1,800.1	467.02	4.854		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	
19,300.0	8,575.0	20,265.0	9,644.9	262.3	266.8	-119.19	1,187.3	10,176.1	2,267.6	1,796.4	471.25	4.812	
19,400.0	8,575.0	20,365.0	9,645.9	264.7	269.3	-119.21	1,187.4	10,276.1	2,268.1	1,792.7	475.47	4.770	
19,500.0	8,575.0	20,465.0	9,647.0	267.1	271.7	-119.24	1,187.5	10,376.1	2,268.7	1,789.0	479.69	4.729	
19,600.0	8,575.0	20,565.0	9,648.1	269.6	274.1	-119.26	1,187.6	10,476.0	2,269.2	1,785.3	483.91	4.689	
19,700.0	8,575.0	20,665.0	9,649.1	272.0	276.6	-119.28	1,187.8	10,576.0	2,269.7	1,781.6	488.13	4.650	
19,800.0	8,575.0	20,765.0	9,650.2	274.5	279.0	-119.31	1,187.9	10,676.0	2,270.3	1,777.9	492.35	4.611	
19,900.0	8,575.0	20,865.0	9,651.3	276.9	281.5	-119.33	1,188.0	10,776.0	2,270.8	1,774.2	496.57	4.573	
20,000.0	8,575.0	20,965.0	9,652.3	279.3	283.9	-119.35	1,188.1	10,876.0	2,271.3	1,770.5	500.78	4.536	
20,100.0	8,575.0	21,065.0	9,653.4	281.8	286.3	-119.38	1,188.3	10,976.0	2,271.8	1,766.8	505.00	4.499	
20,200.0	8,575.0	21,164.9	9,654.5	284.2	288.8	-119.40	1,188.4	11,076.0	2,272.4	1,763.2	509.21	4.463	
20,300.0	8,575.0	21,264.9	9,655.5	286.6	291.2	-119.42	1,188.5	11,176.0	2,272.9	1,759.5	513.42	4.427	
20,400.0	8,575.0	21,364.9	9,656.6	289.1	293.6	-119.45	1,188.6	11,276.0	2,273.4	1,755.8	517.63	4.392	
20,500.0	8,575.0	21,464.9	9,657.7	291.5	296.1	-119.47	1,188.7	11,375.9	2,274.0	1,752.1	521.84	4.358	
20,600.0	8,575.0	21,564.9	9,658.7	294.0	298.5	-119.49	1,188.9	11,475.9	2,274.5	1,748.4	526.05	4.324	
20,700.0	8,575.0	21,664.9	9,659.8	296.4	301.0	-119.52	1,189.0	11,575.9	2,275.0	1,744.8	530.26	4.290	
20,800.0	8,575.0	21,764.9	9,660.8	298.9	303.4	-119.54	1,189.1	11,675.9	2,275.5	1,741.1	534.46	4.258	
20,900.0	8,575.0	21,864.9	9,661.9	301.3	305.8	-119.56	1,189.2	11,775.9	2,276.1	1,737.4	538.67	4.225	
21,000.0	8,575.0	21,964.9	9,663.0	303.7	308.3	-119.58	1,189.4	11,875.9	2,276.6	1,733.7	542.87	4.194	
21,100.0	8,575.0	22,064.9	9,664.0	306.2	310.7	-119.61	1,189.5	11,975.9	2,277.1	1,730.1	547.07	4.162	
21,200.0	8,575.0	22,166.8	9,664.5	308.6	313.2	-119.61	1,189.9	12,077.8	2,277.6	1,726.2	551.41	4.131	
21,213.6	8,575.0	22,180.4	9,664.5	309.0	313.5	-119.61	1,190.0	12,091.4	2,277.7	1,725.7	552.00	4.126 ES, SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	69.31	30.2	79.9	85.4					
100.0	100.0	101.0	99.0	0.1	0.1	69.31	30.2	79.9	85.4	85.1	0.26	328.635		
200.0	200.0	201.0	199.0	0.5	0.5	69.31	30.2	79.9	85.4	84.4	0.98	87.435		
300.0	300.0	301.0	299.0	0.8	0.8	69.31	30.2	79.9	85.4	83.7	1.69	50.426		
400.0	400.0	401.0	399.0	1.2	1.2	69.31	30.2	79.9	85.4	83.0	2.41	35.429		
500.0	500.0	501.0	499.0	1.6	1.6	69.31	30.2	79.9	85.4	82.3	3.13	27.308		
600.0	600.0	601.0	599.0	1.9	1.9	69.31	30.2	79.9	85.4	81.6	3.84	22.215		
700.0	700.0	701.0	699.0	2.3	2.3	69.31	30.2	79.9	85.4	80.8	4.56	18.724		
800.0	800.0	801.0	799.0	2.6	2.6	69.31	30.2	79.9	85.4	80.1	5.28	16.181		
900.0	900.0	901.0	899.0	3.0	3.0	69.31	30.2	79.9	85.4	79.4	6.00	14.246		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	69.31	30.2	79.9	85.4	78.7	6.71	12.724 CC, ES		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-152.17	30.2	79.9	87.3	79.9	7.41	11.780		
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	-153.98	30.2	79.9	93.2	85.1	8.11	11.493		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	-156.53	30.2	79.9	103.1	94.3	8.81	11.704		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	-158.57	30.2	79.9	112.8	103.5	9.30	12.134		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	-159.38	30.2	79.9	117.0	107.5	9.51	12.301		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	-161.84	30.2	79.9	132.3	122.1	10.19	12.986		
1,600.0	1,595.4	1,596.7	1,596.7	5.5	5.5	-163.94	30.0	79.1	147.0	136.1	10.89	13.504		
1,700.0	1,694.1	1,698.2	1,698.2	5.9	5.8	-165.91	29.4	76.6	160.3	148.7	11.58	13.840		
1,800.0	1,792.7	1,800.1	1,799.9	6.3	6.2	-167.82	28.5	72.2	172.1	159.8	12.28	14.014		
1,900.0	1,891.4	1,902.2	1,901.9	6.7	6.5	-169.74	27.1	66.1	182.4	169.4	12.98	14.055		
2,000.0	1,990.1	2,004.6	2,004.0	7.1	6.9	-171.70	25.3	58.2	191.4	177.7	13.69	13.986		
2,100.0	2,088.8	2,107.1	2,106.0	7.5	7.3	-173.75	23.1	48.5	199.0	184.6	14.39	13.827		
2,200.0	2,187.5	2,209.8	2,208.0	7.9	7.6	-175.91	20.5	37.1	205.4	190.2	15.11	13.594		
2,300.0	2,286.2	2,312.0	2,309.3	8.3	8.0	-178.21	17.6	23.9	210.5	194.7	15.83	13.300		
2,400.0	2,384.9	2,411.6	2,407.9	8.8	8.4	-179.56	14.5	10.4	215.4	198.8	16.55	13.011		
2,500.0	2,483.5	2,511.1	2,506.5	9.2	8.8	-177.42	11.5	-3.2	220.6	203.3	17.29	12.759		
2,600.0	2,582.2	2,610.6	2,605.0	9.6	9.1	-175.39	8.4	-16.7	226.1	208.0	18.03	12.540		
2,700.0	2,680.9	2,710.2	2,703.6	10.1	9.5	-173.46	5.4	-30.2	231.8	213.0	18.77	12.348		
2,800.0	2,779.6	2,809.7	2,802.2	10.5	9.9	-171.62	2.4	-43.7	237.8	218.3	19.53	12.180		
2,900.0	2,878.3	2,909.2	2,900.7	10.9	10.3	-169.87	-0.7	-57.2	244.1	223.8	20.28	12.033		
3,000.0	2,977.0	3,008.8	2,999.3	11.3	10.7	-168.21	-3.7	-70.7	250.5	229.5	21.05	11.903		
3,100.0	3,075.7	3,108.3	3,097.8	11.8	11.1	-166.63	-6.8	-84.2	257.2	235.4	21.82	11.788		
3,200.0	3,174.3	3,207.8	3,196.4	12.2	11.5	-165.14	-9.8	-97.8	264.0	241.5	22.59	11.686		
3,300.0	3,273.0	3,307.4	3,295.0	12.6	11.9	-163.72	-12.9	-111.3	271.1	247.7	23.38	11.596		
3,400.0	3,371.7	3,406.9	3,393.5	13.1	12.3	-162.37	-15.9	-124.8	278.2	254.1	24.16	11.517		
3,500.0	3,470.4	3,506.4	3,492.1	13.5	12.7	-161.09	-18.9	-138.3	285.6	260.6	24.95	11.446		
3,600.0	3,569.1	3,606.0	3,590.7	14.0	13.1	-159.88	-22.0	-151.8	293.0	267.3	25.74	11.383		
3,700.0	3,667.8	3,705.5	3,689.2	14.4	13.5	-158.72	-25.0	-165.3	300.6	274.1	26.54	11.326		
3,800.0	3,766.5	3,805.0	3,787.8	14.8	13.9	-157.62	-28.1	-178.8	308.3	281.0	27.34	11.276		
3,900.0	3,865.1	3,904.6	3,886.4	15.3	14.3	-156.58	-31.1	-192.4	316.1	288.0	28.15	11.231		
4,000.0	3,963.8	4,004.1	3,984.9	15.7	14.7	-155.59	-34.2	-205.9	324.0	295.1	28.95	11.191		
4,100.0	4,062.5	4,103.6	4,083.5	16.1	15.1	-154.64	-37.2	-219.4	332.0	302.2	29.76	11.156		
4,200.0	4,161.2	4,203.2	4,182.1	16.6	15.5	-153.74	-40.2	-232.9	340.1	309.5	30.57	11.123		
4,300.0	4,259.9	4,302.7	4,280.6	17.0	15.9	-152.88	-43.3	-246.4	348.3	316.9	31.39	11.095		
4,400.0	4,358.6	4,402.2	4,379.2	17.5	16.3	-152.06	-46.3	-259.9	356.5	324.3	32.21	11.069		
4,500.0	4,457.3	4,501.8	4,477.8	17.9	16.8	-151.28	-49.4	-273.4	364.8	331.8	33.02	11.046		
4,600.0	4,555.9	4,601.3	4,576.3	18.3	17.2	-150.53	-52.4	-287.0	373.2	339.3	33.85	11.026		
4,700.0	4,654.6	4,700.8	4,674.9	18.8	17.6	-149.82	-55.5	-300.5	381.6	346.9	34.67	11.007		
4,800.0	4,753.3	4,800.4	4,773.4	19.2	18.0	-149.13	-58.5	-314.0	390.1	354.6	35.49	10.991		
4,900.0	4,852.0	4,900.1	4,872.0	19.7	18.4	-148.48	-61.5	-327.5	398.6	362.3	36.32	10.976		
5,000.0	4,950.7	5,000.6	4,970.6	20.1	18.8	-147.85	-64.6	-341.0	407.2	370.1	37.15	10.962		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,101.0	5,069.1	20.6	19.2	147.25	-67.6	-354.5	415.9	377.9	37.98	10.949		
5,200.0	5,148.1	5,201.5	5,167.7	21.0	19.7	146.67	-70.7	-368.0	424.5	385.7	38.81	10.938		
5,300.0	5,246.7	5,302.0	5,266.3	21.4	20.1	146.12	-73.7	-381.6	433.3	393.6	39.65	10.928		
5,400.0	5,345.4	5,402.4	5,364.8	21.9	20.5	145.59	-76.8	-395.1	442.0	401.5	40.48	10.919		
5,500.0	5,444.1	5,502.9	5,463.4	22.3	20.9	145.08	-79.8	-408.6	450.8	409.5	41.32	10.911		
5,600.0	5,542.8	5,603.4	5,562.0	22.8	21.3	144.59	-82.8	-422.1	459.7	417.5	42.16	10.904		
5,700.0	5,641.5	5,703.8	5,660.5	23.2	21.8	144.11	-85.9	-435.6	468.5	425.5	42.99	10.897		
5,800.0	5,740.2	5,804.3	5,759.1	23.7	22.2	143.66	-88.9	-449.1	477.4	433.6	43.83	10.892		
5,900.0	5,838.9	5,895.2	5,857.7	24.1	22.6	143.22	-92.0	-462.6	486.3	441.7	44.63	10.897		
6,000.0	5,937.5	6,005.2	5,956.2	24.5	23.0	142.80	-95.0	-476.2	495.3	449.8	45.51	10.883		
6,100.0	6,036.2	6,105.7	6,054.8	25.0	23.4	142.39	-98.1	-489.7	504.3	457.9	46.35	10.879		
6,200.0	6,134.9	6,206.2	6,153.3	25.4	23.9	141.99	-101.1	-503.2	513.3	466.1	47.19	10.876		
6,300.0	6,233.6	6,306.6	6,251.9	25.9	24.3	141.61	-104.1	-516.7	522.3	474.3	48.03	10.873		
6,400.0	6,332.3	6,407.1	6,350.5	26.3	24.7	141.25	-107.2	-530.2	531.3	482.5	48.88	10.871		
6,500.0	6,431.0	6,507.6	6,449.0	26.8	25.1	140.89	-110.2	-543.7	540.4	490.7	49.72	10.869		
6,600.0	6,529.6	6,608.0	6,547.6	27.2	25.5	140.55	-113.3	-557.2	549.5	498.9	50.56	10.868		
6,700.0	6,628.3	6,708.5	6,646.2	27.6	26.0	140.22	-116.3	-570.8	558.6	507.2	51.41	10.866		
6,800.0	6,727.0	6,809.0	6,744.7	28.1	26.4	139.89	-119.4	-584.3	567.7	515.5	52.25	10.866		
6,900.0	6,825.7	6,909.4	6,843.3	28.5	26.8	139.58	-122.4	-597.8	576.9	523.8	53.09	10.865		
7,000.0	6,924.4	7,009.9	6,941.9	29.0	27.2	139.28	-125.4	-611.3	586.0	532.1	53.94	10.865		
7,100.0	7,023.1	7,089.6	7,040.4	29.4	27.6	138.99	-128.5	-624.8	595.2	540.5	54.70	10.862		
7,200.0	7,121.8	7,189.2	7,139.0	29.9	28.0	138.71	-131.5	-638.3	604.4	548.8	55.54	10.882		
7,300.0	7,220.4	7,288.7	7,237.6	30.3	28.4	138.43	-134.6	-651.8	613.6	557.2	56.38	10.883		
7,400.0	7,319.1	7,388.2	7,336.1	30.7	28.8	138.16	-137.6	-665.3	622.8	565.6	57.22	10.884		
7,466.5	7,384.7	7,452.6	7,399.9	31.0	29.1	138.03	-139.5	-673.7	629.0	571.2	57.76	10.890		
7,500.0	7,417.8	7,484.9	7,432.0	31.2	29.2	138.02	-140.4	-677.6	632.1	574.1	58.03	10.894		
7,600.0	7,516.9	7,581.3	7,527.8	31.6	29.6	138.03	-142.6	-687.4	640.4	581.6	58.79	10.893		
7,700.0	7,616.2	7,677.7	7,624.0	32.0	30.0	138.08	-144.3	-694.9	647.3	587.8	59.53	10.874		
7,800.0	7,715.8	7,774.3	7,720.3	32.4	30.3	138.19	-145.4	-700.0	652.8	592.6	60.23	10.839		
7,900.0	7,815.6	7,870.8	7,816.8	32.8	30.6	138.33	-146.0	-702.7	656.8	595.9	60.89	10.788		
8,000.0	7,915.5	7,968.5	7,914.5	33.1	30.9	138.52	-146.1	-703.2	659.4	597.9	61.52	10.718		
8,086.5	8,002.0	8,055.0	8,001.0	33.3	31.2	-0.61	-146.1	-703.2	660.1	598.1	62.06	10.637		
8,100.0	8,015.5	8,068.5	8,014.5	33.4	31.3	-90.42	-146.1	-703.2	660.1	598.0	62.14	10.622		
8,150.0	8,065.4	8,118.4	8,064.4	33.5	31.4	-90.71	-146.1	-703.2	660.2	597.7	62.46	10.569		
8,200.0	8,114.8	8,167.8	8,113.8	33.6	31.6	-91.35	-146.1	-703.2	660.3	597.5	62.79	10.516		
8,250.0	8,163.3	8,216.3	8,162.3	33.7	31.7	-92.32	-146.1	-703.2	660.7	597.6	63.13	10.465		
8,300.0	8,210.6	8,263.6	8,209.6	33.8	31.9	-93.55	-146.1	-703.2	661.6	598.1	63.48	10.422		
8,350.0	8,256.3	8,309.3	8,255.3	33.8	32.0	-94.98	-146.1	-703.2	663.2	599.4	63.82	10.391		
8,400.0	8,300.1	8,353.1	8,299.1	33.9	32.2	-96.52	-146.1	-703.2	666.0	601.8	64.17	10.378		
8,450.0	8,341.6	8,405.4	8,340.6	33.9	32.3	-98.07	-146.1	-703.2	670.3	605.7	64.54	10.385		
8,500.0	8,380.6	8,433.5	8,379.6	33.9	32.4	-99.53	-146.1	-703.2	676.4	611.6	64.83	10.433		
8,550.0	8,416.6	8,469.6	8,415.6	33.9	32.5	-100.79	-146.1	-703.2	684.8	619.6	65.13	10.513		
8,600.0	8,449.5	8,502.5	8,448.5	33.9	32.6	-101.75	-146.1	-703.2	695.7	630.3	65.41	10.636		
8,650.0	8,479.0	8,531.9	8,478.0	33.9	32.7	-102.32	-146.1	-703.2	709.5	643.9	65.66	10.806		
8,700.0	8,504.8	8,557.8	8,503.8	33.9	32.8	-102.41	-146.1	-703.2	726.3	660.4	65.87	11.026		
8,750.0	8,526.9	8,579.8	8,525.9	33.8	32.9	-101.93	-146.1	-703.2	746.1	680.1	66.04	11.298		
8,800.0	8,544.9	8,602.2	8,543.9	33.8	32.9	-100.82	-146.1	-703.2	769.0	702.8	66.18	11.619		
8,850.0	8,558.8	8,611.7	8,557.8	33.8	33.0	-98.99	-146.1	-703.2	794.7	728.4	66.26	11.994		
8,900.0	8,568.4	8,621.4	8,567.4	33.7	33.0	-96.39	-146.1	-703.2	823.0	756.7	66.30	12.413		
8,950.0	8,573.8	8,626.8	8,572.8	33.7	33.0	-92.98	-146.1	-703.2	853.6	787.3	66.31	12.873		
8,986.5	8,575.0	8,627.9	8,574.0	33.7	33.0	-90.00	-146.1	-703.2	877.2	810.9	66.29	13.232		
8,993.2	8,575.0	8,627.9	8,574.0	33.8	33.0	-90.00	-146.1	-703.2	881.6	815.3	66.28	13.300		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
9,000.0	8,575.0	8,627.9	8,574.0	33.8	33.0	-90.00	-146.1	-703.2	886.2	819.9	66.28	13.370		
9,100.0	8,575.0	8,627.9	8,574.0	33.9	33.0	-90.00	-146.1	-703.2	955.9	889.7	66.19	14.442		
9,200.0	8,575.0	8,627.9	8,574.0	34.4	33.0	-90.00	-146.1	-703.2	1,030.7	964.6	66.10	15.593		
9,300.0	8,575.0	8,627.9	8,574.0	35.3	33.0	-90.00	-146.1	-703.2	1,109.5	1,043.5	66.01	16.808		
9,400.0	8,575.0	8,627.9	8,574.0	36.3	33.0	-90.00	-146.1	-703.2	1,191.4	1,125.5	65.92	18.074		
9,500.0	8,575.0	10,482.1	9,592.8	37.6	40.5	-147.11	-144.8	381.8	1,213.3	1,162.3	51.00	23.791		
9,600.0	8,575.0	10,582.0	9,593.6	38.9	41.7	-147.13	-144.7	481.8	1,214.0	1,161.4	52.61	23.073		
9,700.0	8,575.0	10,682.0	9,594.3	40.4	43.0	-147.15	-144.6	581.8	1,214.6	1,160.3	54.34	22.351		
9,800.0	8,575.0	10,782.0	9,595.1	41.9	44.5	-147.17	-144.4	681.8	1,215.2	1,159.1	56.17	21.635		
9,900.0	8,575.0	10,882.0	9,595.8	43.6	46.0	-147.19	-144.3	781.8	1,215.9	1,157.8	58.09	20.931		
10,000.0	8,575.0	10,982.0	9,596.6	45.3	47.6	-147.21	-144.2	881.8	1,216.5	1,156.4	60.09	20.244		
10,100.0	8,575.0	11,082.0	9,597.3	47.0	49.2	-147.23	-144.1	981.8	1,217.1	1,155.0	62.17	19.578		
10,200.0	8,575.0	11,182.0	9,598.1	48.9	51.0	-147.24	-144.0	1,081.8	1,217.8	1,153.5	64.31	18.936		
10,300.0	8,575.0	11,282.0	9,598.8	50.8	52.8	-147.26	-143.8	1,181.8	1,218.4	1,151.9	66.51	18.318		
10,400.0	8,575.0	11,382.0	9,599.6	52.7	54.6	-147.28	-143.7	1,281.8	1,219.0	1,150.3	68.77	17.726		
10,500.0	8,575.0	11,482.0	9,600.3	54.7	56.5	-147.30	-143.6	1,381.8	1,219.7	1,148.6	71.08	17.160		
10,600.0	8,575.0	11,582.0	9,601.1	56.7	58.4	-147.32	-143.5	1,481.8	1,220.3	1,146.9	73.42	16.620		
10,700.0	8,575.0	11,682.0	9,601.8	58.7	60.4	-147.34	-143.3	1,581.8	1,220.9	1,145.1	75.81	16.105		
10,800.0	8,575.0	11,782.0	9,602.6	60.8	62.4	-147.36	-143.2	1,681.8	1,221.6	1,143.3	78.24	15.614		
10,900.0	8,575.0	11,882.0	9,603.3	62.9	64.4	-147.38	-143.1	1,781.8	1,222.2	1,141.5	80.69	15.147		
11,000.0	8,575.0	11,982.0	9,604.1	65.0	66.5	-147.39	-143.0	1,881.7	1,222.9	1,139.7	83.18	14.702		
11,100.0	8,575.0	12,082.0	9,604.8	67.1	68.6	-147.41	-142.9	1,981.7	1,223.5	1,137.8	85.69	14.279		
11,200.0	8,575.0	12,182.0	9,605.6	69.3	70.7	-147.43	-142.7	2,081.7	1,224.1	1,135.9	88.22	13.876		
11,300.0	8,575.0	12,282.0	9,606.3	71.5	72.8	-147.45	-142.6	2,181.7	1,224.8	1,134.0	90.78	13.492		
11,400.0	8,575.0	12,382.0	9,607.1	73.7	75.0	-147.47	-142.5	2,281.7	1,225.4	1,132.0	93.35	13.126		
11,500.0	8,575.0	12,482.0	9,607.8	75.9	77.1	-147.49	-142.4	2,381.7	1,226.0	1,130.1	95.95	12.778		
11,600.0	8,575.0	12,582.0	9,608.6	78.2	79.3	-147.51	-142.2	2,481.7	1,226.7	1,128.1	98.56	12.446		
11,700.0	8,575.0	12,682.0	9,609.3	80.4	81.5	-147.52	-142.1	2,581.7	1,227.3	1,126.1	101.18	12.130		
11,800.0	8,575.0	12,782.0	9,610.1	82.7	83.7	-147.54	-142.0	2,681.7	1,227.9	1,124.1	103.82	11.828		
11,900.0	8,575.0	12,882.0	9,610.8	84.9	86.0	-147.56	-141.9	2,781.7	1,228.6	1,122.1	106.47	11.539		
12,000.0	8,575.0	12,982.0	9,611.6	87.2	88.2	-147.58	-141.8	2,881.7	1,229.2	1,120.1	109.13	11.263		
12,100.0	8,575.0	13,082.0	9,612.3	89.5	90.5	-147.60	-141.6	2,981.7	1,229.9	1,118.1	111.81	11.000		
12,200.0	8,575.0	13,182.0	9,613.1	91.8	92.7	-147.62	-141.5	3,081.7	1,230.5	1,116.0	114.49	10.748		
12,300.0	8,575.0	13,282.0	9,613.8	94.1	95.0	-147.64	-141.4	3,181.7	1,231.1	1,114.0	117.18	10.506		
12,400.0	8,575.0	13,382.0	9,614.6	96.4	97.3	-147.65	-141.3	3,281.7	1,231.8	1,111.9	119.88	10.275		
12,500.0	8,575.0	13,482.0	9,615.3	98.7	99.6	-147.67	-141.1	3,381.7	1,232.4	1,109.8	122.58	10.054		
12,600.0	8,575.0	13,582.0	9,616.1	101.0	101.9	-147.69	-141.0	3,481.7	1,233.0	1,107.8	125.29	9.841		
12,700.0	8,575.0	13,682.0	9,616.8	103.4	104.2	-147.71	-140.9	3,581.6	1,233.7	1,105.7	128.01	9.637		
12,800.0	8,575.0	13,782.0	9,617.6	105.7	106.5	-147.73	-140.8	3,681.6	1,234.3	1,103.6	130.74	9.441		
12,900.0	8,575.0	13,882.0	9,618.3	108.0	108.8	-147.75	-140.7	3,781.6	1,235.0	1,101.5	133.47	9.253		
13,000.0	8,575.0	13,982.0	9,619.1	110.4	111.1	-147.76	-140.5	3,881.6	1,235.6	1,099.4	136.20	9.072		
13,100.0	8,575.0	14,081.9	9,619.8	112.7	113.5	-147.78	-140.4	3,981.6	1,236.2	1,097.3	138.94	8.898		
13,200.0	8,575.0	14,181.9	9,620.6	115.1	115.8	-147.80	-140.3	4,081.6	1,236.9	1,095.2	141.68	8.730		
13,300.0	8,575.0	14,281.9	9,621.3	117.5	118.1	-147.82	-140.2	4,181.6	1,237.5	1,093.1	144.42	8.569		
13,400.0	8,575.0	14,381.9	9,622.1	119.8	120.5	-147.84	-140.0	4,281.6	1,238.2	1,091.0	147.17	8.413		
13,500.0	8,575.0	14,481.9	9,622.8	122.2	122.8	-147.85	-139.9	4,381.6	1,238.8	1,088.9	149.92	8.263		
13,600.0	8,575.0	14,581.9	9,623.6	124.6	125.2	-147.87	-139.8	4,481.6	1,239.4	1,086.8	152.68	8.118		
13,700.0	8,575.0	14,681.9	9,624.3	126.9	127.5	-147.89	-139.7	4,581.6	1,240.1	1,084.6	155.43	7.978		
13,800.0	8,575.0	14,781.9	9,625.1	129.3	129.9	-147.91	-139.6	4,681.6	1,240.7	1,082.5	158.19	7.843		
13,900.0	8,575.0	14,881.9	9,625.8	131.7	132.3	-147.93	-139.4	4,781.6	1,241.3	1,080.4	160.95	7.713		
14,000.0	8,575.0	14,981.9	9,626.6	134.1	134.6	-147.95	-139.3	4,881.6	1,242.0	1,078.3	163.71	7.586		
14,100.0	8,575.0	15,081.9	9,627.3	136.4	137.0	-147.96	-139.2	4,981.6	1,242.6	1,076.1	166.48	7.464		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	8,575.0	15,181.9	9,628.1	138.8	139.4	-147.98	-139.1	5,081.6	1,243.3	1,074.0	169.24	7.346		
14,300.0	8,575.0	15,281.9	9,628.8	141.2	141.7	-148.00	-138.9	5,181.6	1,243.9	1,071.9	172.01	7.232		
14,400.0	8,575.0	15,381.9	9,629.6	143.6	144.1	-148.02	-138.8	5,281.6	1,244.5	1,069.8	174.78	7.121		
14,500.0	8,575.0	15,481.9	9,630.3	146.0	146.5	-148.04	-138.7	5,381.5	1,245.2	1,067.6	177.54	7.013		
14,600.0	8,575.0	15,581.9	9,631.1	148.4	148.9	-148.05	-138.6	5,481.5	1,245.8	1,065.5	180.31	6.909		
14,700.0	8,575.0	15,681.9	9,631.8	150.8	151.3	-148.07	-138.5	5,581.5	1,246.5	1,063.4	183.08	6.808		
14,800.0	8,575.0	15,781.9	9,632.6	153.2	153.7	-148.09	-138.3	5,681.5	1,247.1	1,061.3	185.85	6.710		
14,900.0	8,575.0	15,881.9	9,633.3	155.6	156.0	-148.11	-138.2	5,781.5	1,247.7	1,059.1	188.62	6.615		
15,000.0	8,575.0	15,981.9	9,634.1	158.0	158.4	-148.13	-138.1	5,881.5	1,248.4	1,057.0	191.39	6.523		
15,100.0	8,575.0	16,081.9	9,634.8	160.4	160.8	-148.14	-138.0	5,981.5	1,249.0	1,054.9	194.17	6.433		
15,200.0	8,575.0	16,181.9	9,635.6	162.8	163.2	-148.16	-137.8	6,081.5	1,249.7	1,052.7	196.94	6.346		
15,300.0	8,575.0	16,281.9	9,636.3	165.2	165.6	-148.18	-137.7	6,181.5	1,250.3	1,050.6	199.71	6.261		
15,400.0	8,575.0	16,381.9	9,637.1	167.6	168.0	-148.20	-137.6	6,281.5	1,251.0	1,048.5	202.48	6.178		
15,500.0	8,575.0	16,481.9	9,637.8	170.0	170.4	-148.21	-137.5	6,381.5	1,251.6	1,046.3	205.25	6.098		
15,600.0	8,575.0	16,581.9	9,638.6	172.5	172.8	-148.23	-137.4	6,481.5	1,252.2	1,044.2	208.02	6.020		
15,700.0	8,575.0	16,681.9	9,639.3	174.9	175.2	-148.25	-137.2	6,581.5	1,252.9	1,042.1	210.79	5.944		
15,800.0	8,575.0	16,781.9	9,640.1	177.3	177.6	-148.27	-137.1	6,681.5	1,253.5	1,040.0	213.56	5.870		
15,900.0	8,575.0	16,881.9	9,640.8	179.7	180.0	-148.29	-137.0	6,781.5	1,254.2	1,037.8	216.33	5.797		
16,000.0	8,575.0	16,981.9	9,641.6	182.1	182.5	-148.30	-136.9	6,881.5	1,254.8	1,035.7	219.10	5.727		
16,100.0	8,575.0	17,081.9	9,642.3	184.5	184.9	-148.32	-136.7	6,981.5	1,255.4	1,033.6	221.87	5.658		
16,200.0	8,575.0	17,181.9	9,643.1	187.0	187.3	-148.34	-136.6	7,081.4	1,256.1	1,031.4	224.64	5.592		
16,300.0	8,575.0	17,281.9	9,643.9	189.4	189.7	-148.36	-136.5	7,181.4	1,256.7	1,029.3	227.41	5.526		
16,400.0	8,575.0	17,381.9	9,644.6	191.8	192.1	-148.37	-136.4	7,281.4	1,257.4	1,027.2	230.17	5.463		
16,500.0	8,575.0	17,481.9	9,645.4	194.2	194.5	-148.39	-136.3	7,381.4	1,258.0	1,025.1	232.94	5.401		
16,600.0	8,575.0	17,581.9	9,646.1	196.6	196.9	-148.41	-136.1	7,481.4	1,258.7	1,023.0	235.70	5.340		
16,700.0	8,575.0	17,681.8	9,646.9	199.1	199.3	-148.43	-136.0	7,581.4	1,259.3	1,020.8	238.47	5.281		
16,800.0	8,575.0	17,781.8	9,647.6	201.5	201.8	-148.44	-135.9	7,681.4	1,259.9	1,018.7	241.23	5.223		
16,900.0	8,575.0	17,881.8	9,648.4	203.9	204.2	-148.46	-135.8	7,781.4	1,260.6	1,016.6	244.00	5.166		
17,000.0	8,575.0	17,981.8	9,649.1	206.3	206.6	-148.48	-135.6	7,881.4	1,261.2	1,014.5	246.76	5.111		
17,100.0	8,575.0	18,081.8	9,649.9	208.8	209.0	-148.50	-135.5	7,981.4	1,261.9	1,012.4	249.52	5.057		
17,200.0	8,575.0	18,181.8	9,650.6	211.2	211.4	-148.51	-135.4	8,081.4	1,262.5	1,010.2	252.28	5.004		
17,300.0	8,575.0	18,281.8	9,651.4	213.6	213.9	-148.53	-135.3	8,181.4	1,263.2	1,008.1	255.04	4.953		
17,400.0	8,575.0	18,381.8	9,652.1	216.0	216.3	-148.55	-135.2	8,281.4	1,263.8	1,006.0	257.80	4.902		
17,500.0	8,575.0	18,481.8	9,652.9	218.5	218.7	-148.57	-135.0	8,381.4	1,264.4	1,003.9	260.55	4.853		
17,600.0	8,575.0	18,581.8	9,653.6	220.9	221.1	-148.58	-134.9	8,481.4	1,265.1	1,001.8	263.31	4.805		
17,700.0	8,575.0	18,681.8	9,654.4	223.3	223.5	-148.60	-134.8	8,581.4	1,265.7	999.7	266.06	4.757		
17,800.0	8,575.0	18,781.8	9,655.1	225.8	226.0	-148.62	-134.7	8,681.4	1,266.4	997.6	268.82	4.711		
17,900.0	8,575.0	18,881.8	9,655.9	228.2	228.4	-148.64	-134.5	8,781.4	1,267.0	995.5	271.57	4.666		
18,000.0	8,575.0	18,981.8	9,656.6	230.6	230.8	-148.65	-134.4	8,881.3	1,267.7	993.3	274.32	4.621		
18,100.0	8,575.0	19,081.8	9,657.4	233.0	233.3	-148.67	-134.3	8,981.3	1,268.3	991.2	277.07	4.578		
18,200.0	8,575.0	19,181.8	9,658.1	235.5	235.7	-148.69	-134.2	9,081.3	1,269.0	989.1	279.82	4.535		
18,300.0	8,575.0	19,281.8	9,658.9	237.9	238.1	-148.71	-134.1	9,181.3	1,269.6	987.0	282.57	4.493		
18,400.0	8,575.0	19,381.8	9,659.6	240.3	240.5	-148.72	-133.9	9,281.3	1,270.2	984.9	285.31	4.452		
18,500.0	8,575.0	19,481.8	9,660.4	242.8	243.0	-148.74	-133.8	9,381.3	1,270.9	982.8	288.06	4.412		
18,600.0	8,575.0	19,581.8	9,661.1	245.2	245.4	-148.76	-133.7	9,481.3	1,271.5	980.7	290.80	4.372		
18,700.0	8,575.0	19,681.8	9,661.9	247.6	247.8	-148.78	-133.6	9,581.3	1,272.2	978.6	293.55	4.334		
18,800.0	8,575.0	19,781.8	9,662.6	250.1	250.3	-148.79	-133.4	9,681.3	1,272.8	976.5	296.29	4.296		
18,900.0	8,575.0	19,881.8	9,663.4	252.5	252.7	-148.81	-133.3	9,781.3	1,273.5	974.4	299.03	4.259		
19,000.0	8,575.0	19,981.8	9,664.1	255.0	255.1	-148.83	-133.2	9,881.3	1,274.1	972.4	301.77	4.222		
19,100.0	8,575.0	20,081.8	9,664.9	257.4	257.6	-148.84	-133.1	9,981.3	1,274.8	970.3	304.50	4.186		
19,200.0	8,575.0	20,181.8	9,665.6	259.8	260.0	-148.86	-133.0	10,081.3	1,275.4	968.2	307.24	4.151		
19,300.0	8,575.0	20,281.8	9,666.4	262.3	262.4	-148.88	-132.8	10,181.3	1,276.1	966.1	309.97	4.117		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #136H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	8,575.0	20,381.8	9,667.1	264.7	264.8	-148.90	-132.7	10,281.3	1,276.7	964.0	312.71	4.083	
19,500.0	8,575.0	20,481.8	9,667.9	267.1	267.3	-148.91	-132.6	10,381.3	1,277.3	961.9	315.44	4.049	
19,600.0	8,575.0	20,581.8	9,668.6	269.6	269.7	-148.93	-132.5	10,481.3	1,278.0	959.8	318.17	4.017	
19,700.0	8,575.0	20,681.8	9,669.4	272.0	272.2	-148.95	-132.3	10,581.2	1,278.6	957.7	320.90	3.985	
19,800.0	8,575.0	20,781.8	9,670.1	274.5	274.6	-148.96	-132.2	10,681.2	1,279.3	955.7	323.62	3.953	
19,900.0	8,575.0	20,881.8	9,670.9	276.9	277.0	-148.98	-132.1	10,781.2	1,279.9	953.6	326.35	3.922	
20,000.0	8,575.0	20,981.8	9,671.6	279.3	279.5	-149.00	-132.0	10,881.2	1,280.6	951.5	329.07	3.891	
20,100.0	8,575.0	21,081.8	9,672.4	281.8	281.9	-149.01	-131.9	10,981.2	1,281.2	949.4	331.80	3.861	
20,200.0	8,575.0	21,181.7	9,673.1	284.2	284.3	-149.03	-131.7	11,081.2	1,281.9	947.4	334.52	3.832	
20,300.0	8,575.0	21,281.7	9,673.9	286.6	286.8	-149.05	-131.6	11,181.2	1,282.5	945.3	337.24	3.803	
20,400.0	8,575.0	21,381.7	9,674.6	289.1	289.2	-149.07	-131.5	11,281.2	1,283.2	943.2	339.96	3.774	
20,500.0	8,575.0	21,481.7	9,675.4	291.5	291.6	-149.08	-131.4	11,381.2	1,283.8	941.1	342.68	3.746	
20,600.0	8,575.0	21,581.7	9,676.1	294.0	294.1	-149.10	-131.2	11,481.2	1,284.5	939.1	345.39	3.719	
20,700.0	8,575.0	21,681.7	9,676.9	296.4	296.5	-149.12	-131.1	11,581.2	1,285.1	937.0	348.11	3.692	
20,800.0	8,575.0	21,781.7	9,677.6	298.9	299.0	-149.13	-131.0	11,681.2	1,285.8	934.9	350.82	3.665	
20,900.0	8,575.0	21,881.7	9,678.4	301.3	301.4	-149.15	-130.9	11,781.2	1,286.4	932.9	353.53	3.639	
21,000.0	8,575.0	21,981.7	9,679.1	303.7	303.8	-149.17	-130.8	11,881.2	1,287.1	930.8	356.24	3.613	
21,100.0	8,575.0	22,081.7	9,679.9	306.2	306.3	-149.18	-130.6	11,981.2	1,287.7	928.8	358.95	3.587	
21,200.0	8,575.0	22,171.7	9,681.1	308.6	308.5	-149.20	-130.3	12,071.1	1,288.9	927.6	361.39	3.567	
21,213.6	8,575.0	22,185.2	9,681.3	309.0	308.8	-149.20	-130.2	12,084.7	1,289.1	927.4	361.75	3.564 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 196-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	-15.03	2,278.9	-612.0	2,360.0					
100.0	100.0	58.2	58.2	0.1	0.1	-15.03	2,279.0	-612.0	2,359.7	2,359.5	0.22	N/A CC		
200.0	200.0	152.1	152.1	0.5	0.2	-15.03	2,279.3	-612.0	2,360.0	2,359.3	0.72	3,278.013 ES		
300.0	300.0	241.2	241.2	0.8	0.5	-15.02	2,279.9	-611.8	2,360.6	2,359.3	1.31	1,803.951		
400.0	400.0	326.7	326.7	1.2	0.8	-15.01	2,281.0	-611.4	2,361.8	2,359.8	1.97	1,195.972		
500.0	500.0	415.9	415.9	1.6	1.1	-14.97	2,282.9	-610.4	2,363.5	2,360.9	2.65	890.614		
600.0	600.0	499.7	499.6	1.9	1.4	-14.92	2,285.3	-608.8	2,365.8	2,362.5	3.31	713.753		
700.0	700.0	597.2	597.0	2.3	1.7	-14.84	2,288.7	-606.5	2,368.5	2,364.5	4.02	588.604		
800.0	800.0	700.4	700.1	2.6	2.1	-14.75	2,292.3	-603.5	2,371.2	2,366.5	4.75	498.743		
900.0	900.0	813.7	813.3	3.0	2.5	-14.66	2,295.9	-600.7	2,373.6	2,368.1	5.52	429.921		
1,000.0	1,000.0	920.7	920.3	3.4	2.9	-14.61	2,298.2	-599.2	2,375.4	2,369.1	6.26	379.221		
1,100.0	1,100.0	996.3	995.9	3.7	3.2	124.55	2,299.9	-599.0	2,378.8	2,371.9	6.88	345.898		
1,200.0	1,199.7	1,063.0	1,062.5	4.0	3.4	124.48	2,302.1	-599.8	2,386.0	2,378.5	7.45	320.391		
1,300.0	1,299.1	1,138.0	1,137.4	4.4	3.7	124.39	2,305.3	-601.8	2,396.9	2,388.9	8.05	297.699		
1,372.0	1,370.4	1,204.0	1,203.3	4.6	3.9	124.35	2,308.5	-604.0	2,406.8	2,398.3	8.54	281.966		
1,400.0	1,398.0	1,232.7	1,232.0	4.7	4.0	124.43	2,309.8	-605.0	2,410.9	2,402.2	8.74	275.941		
1,500.0	1,496.7	1,343.0	1,342.1	5.1	4.4	124.72	2,314.6	-608.7	2,425.2	2,415.8	9.49	255.677		
1,600.0	1,595.4	1,457.6	1,456.5	5.5	4.8	125.03	2,319.1	-611.8	2,439.0	2,428.8	10.26	237.691		
1,700.0	1,694.1	1,560.4	1,559.3	5.9	5.2	125.33	2,322.8	-613.7	2,452.4	2,441.4	11.00	222.882		
1,800.0	1,792.7	1,649.4	1,648.3	6.3	5.5	125.59	2,326.2	-615.4	2,466.0	2,454.3	11.70	210.779		
1,900.0	1,891.4	1,745.3	1,744.0	6.7	5.9	125.84	2,330.1	-618.0	2,480.0	2,467.6	12.42	199.606		
2,000.0	1,990.1	2,012.4	2,010.9	7.1	6.8	126.56	2,332.9	-622.9	2,491.8	2,478.0	13.75	181.271		
2,100.0	2,088.8	2,142.5	2,140.9	7.5	7.2	126.90	2,328.3	-623.9	2,498.1	2,483.5	14.56	171.534		
2,200.0	2,187.5	2,233.8	2,232.2	7.9	7.5	127.13	2,325.0	-625.1	2,504.6	2,489.3	15.26	164.090		
2,300.0	2,286.2	2,327.4	2,325.7	8.3	7.8	127.36	2,321.4	-626.3	2,510.9	2,495.0	15.97	157.181		
2,400.0	2,384.9	2,392.0	2,390.3	8.8	8.0	127.53	2,319.7	-626.7	2,518.4	2,501.9	16.59	151.780		
2,500.0	2,483.5	2,460.8	2,459.2	9.2	8.3	127.73	2,318.9	-626.8	2,527.3	2,510.1	17.23	146.715		
2,600.0	2,582.2	2,541.9	2,540.3	9.6	8.5	127.97	2,319.0	-626.3	2,537.2	2,519.3	17.90	141.717		
2,700.0	2,680.9	2,629.2	2,627.5	10.1	8.8	128.26	2,319.5	-624.9	2,547.6	2,529.0	18.60	136.932		
2,800.0	2,779.6	2,712.4	2,710.7	10.5	9.1	128.54	2,320.6	-623.0	2,558.6	2,539.3	19.29	132.618		
2,900.0	2,878.3	2,794.6	2,792.8	10.9	9.4	128.83	2,322.3	-621.0	2,570.4	2,550.4	19.98	128.662		
3,000.0	2,977.0	2,892.7	2,890.9	11.3	9.8	129.16	2,324.6	-618.6	2,582.5	2,561.8	20.72	124.615		
3,100.0	3,075.7	2,995.7	2,993.8	11.8	10.1	129.49	2,326.7	-616.9	2,594.6	2,573.1	21.49	120.734		
3,200.0	3,174.3	3,099.2	3,097.3	12.2	10.5	129.81	2,328.6	-615.9	2,606.6	2,584.4	22.26	117.099		
3,300.0	3,273.0	3,205.8	3,203.9	12.6	10.9	130.12	2,330.1	-615.1	2,618.4	2,595.4	23.04	113.639		
3,400.0	3,371.7	3,301.7	3,299.7	13.1	11.2	130.41	2,331.4	-614.0	2,630.1	2,606.3	23.78	110.596		
3,500.0	3,470.4	3,400.6	3,398.6	13.5	11.6	130.71	2,333.0	-612.8	2,642.1	2,617.5	24.53	107.697		
3,600.0	3,569.1	3,505.5	3,503.6	14.0	12.0	131.01	2,334.3	-611.8	2,653.8	2,628.5	25.31	104.862		
3,700.0	3,667.8	3,602.8	3,600.8	14.4	12.3	131.29	2,335.4	-611.0	2,665.6	2,639.5	26.05	102.314		
3,800.0	3,766.5	3,692.3	3,690.3	14.8	12.6	131.54	2,336.6	-610.5	2,677.6	2,650.8	26.77	100.028		
3,900.0	3,865.1	3,788.0	3,786.0	15.3	13.0	131.80	2,338.1	-610.2	2,690.0	2,662.5	27.51	97.791		
4,000.0	3,963.8	3,886.0	3,884.0	15.7	13.3	132.05	2,339.6	-610.3	2,702.4	2,674.1	28.26	95.639		
4,100.0	4,062.5	3,984.1	3,982.1	16.1	13.7	132.30	2,341.1	-610.3	2,714.8	2,685.8	29.00	93.602		
4,200.0	4,161.2	4,026.4	4,024.4	16.6	13.8	132.41	2,342.2	-610.3	2,728.3	2,698.8	29.52	92.421		
4,300.0	4,259.9	4,087.0	4,084.9	17.0	14.0	132.57	2,345.4	-610.4	2,744.3	2,714.2	30.10	91.158		
4,400.0	4,358.6	4,087.0	4,084.9	17.5	14.0	132.57	2,345.4	-610.4	2,762.0	2,731.6	30.40	90.868		
4,500.0	4,457.3	4,152.6	4,150.3	17.9	14.3	132.74	2,350.9	-610.8	2,781.7	2,750.7	30.98	89.784		
4,600.0	4,555.9	4,219.9	4,217.2	18.3	14.5	132.91	2,358.0	-611.5	2,803.1	2,771.5	31.57	88.788		
4,700.0	4,654.6	4,319.9	4,316.6	18.8	14.9	133.15	2,368.6	-612.8	2,824.8	2,792.5	32.32	87.388		
4,800.0	4,753.3	4,374.0	4,370.4	19.2	15.1	133.28	2,374.3	-613.5	2,846.8	2,814.0	32.84	86.690		
4,900.0	4,852.0	4,433.3	4,429.3	19.7	15.3	133.41	2,381.3	-614.6	2,870.2	2,836.9	33.37	86.002		
5,000.0	4,950.7	4,469.0	4,464.6	20.1	15.4	133.48	2,386.4	-615.6	2,895.7	2,861.9	33.77	85.754		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 196-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	5,049.4	4,521.7	4,516.6	20.6	15.6	133.59	2,394.7	-617.5	2,922.9	2,888.6	34.25	85.346		
5,200.0	5,148.1	4,571.9	4,566.0	21.0	15.8	133.68	2,403.5	-619.4	2,951.7	2,917.0	34.70	85.055		
5,300.0	5,246.7	4,675.6	4,667.9	21.4	16.2	133.87	2,422.2	-623.6	2,981.0	2,945.5	35.48	84.012		
5,400.0	5,345.4	4,782.7	4,773.2	21.9	16.6	134.06	2,441.3	-627.9	3,010.2	2,973.9	36.28	82.960		
5,500.0	5,444.1	4,901.5	4,890.1	22.3	17.1	134.28	2,461.5	-632.4	3,038.6	3,001.4	37.16	81.777		
5,600.0	5,542.8	5,023.1	5,010.0	22.8	17.6	134.49	2,481.6	-636.9	3,066.5	3,028.4	38.05	80.600		
5,700.0	5,641.5	5,092.5	5,078.5	23.2	17.9	134.61	2,492.8	-639.3	3,094.1	3,055.5	38.62	80.112		
5,800.0	5,740.2	5,158.6	5,143.5	23.7	18.1	134.73	2,504.3	-641.3	3,122.9	3,083.8	39.18	79.717		
5,900.0	5,838.9	5,263.6	5,246.8	24.1	18.5	134.93	2,522.8	-644.2	3,152.0	3,112.0	39.97	78.864		
6,000.0	5,937.5	5,385.1	5,366.5	24.5	19.0	135.15	2,543.6	-647.4	3,180.6	3,139.7	40.86	77.841		
6,100.0	6,036.2	5,453.9	5,434.3	25.0	19.3	135.28	2,555.1	-649.2	3,208.8	3,167.4	41.43	77.450		
6,200.0	6,134.9	5,493.5	5,473.3	25.4	19.5	135.35	2,562.4	-650.1	3,238.6	3,196.8	41.81	77.455		
6,300.0	6,233.6	5,554.1	5,532.6	25.9	19.7	135.47	2,574.5	-651.3	3,269.9	3,227.6	42.32	77.266		
6,400.0	6,332.3	5,684.1	5,660.0	26.3	20.3	135.72	2,600.3	-653.5	3,301.2	3,257.9	43.28	76.279		
6,500.0	6,431.0	5,827.7	5,801.1	26.8	20.8	135.98	2,626.7	-656.4	3,331.1	3,286.8	44.32	75.165		
6,600.0	6,529.6	5,977.0	5,948.2	27.2	21.5	136.23	2,652.0	-659.9	3,359.7	3,314.3	45.38	74.027		
6,700.0	6,628.3	6,041.6	6,011.9	27.6	21.7	136.33	2,662.5	-661.9	3,387.7	3,341.7	45.93	73.754		
6,800.0	6,727.0	6,096.0	6,065.4	28.1	22.0	136.40	2,672.1	-664.2	3,417.0	3,370.6	46.41	73.623		
6,900.0	6,825.7	6,169.0	6,137.1	28.5	22.3	136.49	2,685.7	-667.6	3,447.2	3,400.2	47.01	73.334		
7,000.0	6,924.4	6,435.0	6,399.3	29.0	23.4	136.81	2,728.4	-679.8	3,474.5	3,425.7	48.80	71.204		
7,100.0	7,023.1	6,511.5	6,475.0	29.4	23.7	136.91	2,739.2	-683.1	3,500.4	3,451.0	49.43	70.823		
7,200.0	7,121.8	6,574.0	6,536.7	29.9	23.9	136.99	2,748.5	-685.4	3,527.2	3,477.2	49.97	70.590		
7,300.0	7,220.4	6,614.2	6,576.3	30.3	24.1	137.04	2,755.0	-686.7	3,555.2	3,504.8	50.37	70.587		
7,400.0	7,319.1	6,670.0	6,631.2	30.7	24.3	137.12	2,765.2	-688.2	3,584.8	3,533.9	50.85	70.493		
7,466.5	7,384.7	6,690.4	6,651.2	31.0	24.4	137.15	2,769.1	-688.7	3,605.1	3,554.1	51.06	70.599		
7,500.0	7,417.8	6,721.9	6,682.1	31.2	24.6	137.31	2,775.2	-689.4	3,615.4	3,564.1	51.31	70.463		
7,600.0	7,516.9	6,861.0	6,818.8	31.6	25.2	137.78	2,800.9	-692.9	3,644.0	3,591.7	52.32	69.645		
7,700.0	7,616.2	6,915.2	6,872.1	32.0	25.4	138.11	2,810.7	-694.5	3,670.7	3,617.9	52.77	69.556		
7,800.0	7,715.8	6,957.0	6,913.0	32.4	25.6	138.40	2,819.1	-695.6	3,697.1	3,644.0	53.12	69.597		
7,900.0	7,815.6	7,118.3	7,071.0	32.8	26.3	138.67	2,851.1	-701.3	3,721.6	3,667.3	54.26	68.584		
8,000.0	7,915.5	7,243.0	7,193.5	33.1	26.8	138.86	2,873.6	-706.1	3,742.2	3,687.0	55.14	67.863		
8,086.5	8,002.0	7,302.7	7,252.2	33.3	27.1	-0.18	2,884.4	-707.8	3,758.6	3,703.0	55.57	67.637		
8,100.0	8,015.5	7,308.7	7,258.1	33.4	27.1	-89.72	2,885.5	-707.9	3,761.2	3,705.6	55.61	67.632		
8,150.0	8,065.4	7,339.0	7,287.8	33.5	27.2	-88.77	2,891.4	-708.3	3,770.9	3,715.1	55.81	67.569		
8,200.0	8,114.8	7,387.4	7,335.2	33.6	27.4	-87.91	2,901.0	-708.7	3,780.7	3,724.6	56.11	67.380		
8,250.0	8,163.3	7,483.6	7,429.7	33.7	27.9	-87.34	2,919.4	-709.6	3,790.1	3,733.4	56.71	66.830		
8,300.0	8,210.6	7,633.3	7,577.2	33.8	28.5	-87.27	2,944.9	-710.7	3,798.3	3,740.7	57.62	65.921		
8,350.0	8,256.3	7,626.0	7,570.0	33.8	28.5	-86.44	2,943.7	-710.7	3,806.1	3,748.6	57.55	66.141		
8,400.0	8,300.1	7,656.7	7,600.2	33.9	28.6	-85.86	2,948.8	-710.9	3,813.9	3,756.2	57.70	66.102		
8,450.0	8,341.6	7,670.4	7,613.8	33.9	28.7	-85.17	2,951.3	-711.0	3,822.0	3,764.3	57.74	66.192		
8,500.0	8,380.6	7,683.3	7,626.4	33.9	28.7	-84.46	2,953.6	-711.2	3,830.2	3,772.4	57.78	66.290		
8,550.0	8,416.6	7,721.0	7,663.4	33.9	28.9	-84.04	2,961.0	-711.8	3,838.8	3,780.8	57.99	66.201		
8,600.0	8,449.5	7,721.0	7,663.4	33.9	28.9	-83.21	2,961.0	-711.8	3,847.0	3,789.0	57.96	66.369		
8,650.0	8,479.0	7,721.0	7,663.4	33.9	28.9	-82.37	2,961.0	-711.8	3,855.3	3,797.4	57.96	66.520		
8,700.0	8,504.8	7,734.9	7,676.9	33.9	29.0	-81.72	2,963.8	-712.1	3,863.7	3,805.6	58.07	66.536		
8,750.0	8,526.9	7,775.9	7,717.2	33.8	29.1	-81.45	2,972.1	-713.0	3,871.9	3,813.5	58.40	66.305		
8,800.0	8,544.9	8,800.0	7,803.4	33.8	33.6	-81.90	2,988.5	-715.1	3,879.6	3,817.1	62.56	62.012		
8,850.0	8,558.8	8,850.0	7,815.7	33.8	33.8	-81.31	2,990.8	-715.4	3,887.3	3,824.4	62.91	61.793		
8,900.0	8,568.4	7,912.0	7,850.8	33.7	29.7	-81.07	2,997.2	-716.2	3,895.1	3,835.4	59.66	65.292		
8,950.0	8,573.8	7,912.0	7,850.8	33.7	29.7	-80.32	2,997.2	-716.2	3,902.6	3,842.8	59.86	65.201		
8,986.5	8,575.0	7,912.0	7,850.8	33.7	29.7	-79.77	2,997.2	-716.2	3,908.1	3,848.1	60.02	65.111		
8,993.2	8,575.0	7,912.0	7,850.8	33.8	29.7	-79.77	2,997.2	-716.2	3,909.1	3,849.0	60.05	65.093		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 196-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		
9,000.0	8,575.0	7,912.0	7,850.8	33.8	29.7	-79.77	2,997.2	-716.2	3,910.1	3,850.0	60.09	65.074		
9,100.0	8,575.0	7,912.0	7,850.8	33.9	29.7	-79.77	2,997.2	-716.2	3,926.8	3,866.1	60.66	64.738		
9,200.0	8,575.0	7,912.0	7,850.8	34.4	29.7	-79.77	2,997.2	-716.2	3,945.9	3,884.5	61.36	64.310		
9,300.0	8,575.0	9,300.0	7,821.2	35.3	35.8	-79.32	2,991.8	-715.5	3,967.3	3,900.0	67.29	58.955		
9,400.0	8,575.0	9,400.0	7,818.9	36.3	36.2	-79.29	2,991.4	-715.4	3,991.2	3,922.6	68.58	58.194		
9,500.0	8,575.0	9,500.0	7,816.6	37.6	36.6	-79.25	2,990.9	-715.4	4,017.5	3,947.5	69.96	57.422		
9,600.0	8,575.0	9,600.0	7,814.3	38.9	37.1	-79.22	2,990.5	-715.3	4,046.0	3,974.6	71.42	56.653		
9,700.0	8,575.0	9,700.0	7,812.0	40.4	37.5	-79.19	2,990.1	-715.3	4,076.8	4,003.9	72.93	55.899		
9,800.0	8,575.0	9,800.0	7,809.7	41.9	37.9	-79.15	2,989.7	-715.2	4,109.8	4,035.3	74.49	55.170		
9,900.0	8,575.0	10,990.8	9,755.3	43.6	48.4	-107.16	3,142.0	727.5	4,129.5	4,041.7	87.85	47.008		
10,000.0	8,575.0	11,090.5	9,759.5	45.3	50.1	-107.22	3,142.4	827.1	4,131.0	4,039.9	91.10	45.347		
10,100.0	8,575.0	11,140.0	9,761.6	47.0	51.0	-107.24	3,142.7	876.6	4,132.9	4,039.3	93.63	44.141		
10,200.0	8,575.0	11,201.0	9,764.5	48.9	52.1	-107.27	3,144.3	937.5	4,136.4	4,040.0	96.41	42.905		
10,300.0	8,575.0	11,304.3	9,770.1	50.8	54.0	-107.34	3,147.1	1,040.6	4,140.6	4,040.6	100.00	41.407		
10,400.0	8,575.0	11,424.3	9,775.8	52.7	56.2	-107.40	3,149.4	1,160.4	4,143.6	4,039.6	103.99	39.847		
10,500.0	8,575.0	11,614.5	9,781.2	54.7	59.9	-107.46	3,152.7	1,350.5	4,146.5	4,037.1	109.39	37.906		
10,600.0	8,575.0	11,738.7	9,779.8	56.7	62.4	-107.44	3,153.8	1,474.6	4,146.8	4,033.1	113.70	36.472		
10,700.0	8,575.0	12,020.6	9,778.1	58.7	68.2	-107.43	3,150.7	1,756.5	4,146.6	4,025.5	121.09	34.244		
10,800.0	8,575.0	12,062.0	9,777.9	60.8	69.1	-107.44	3,149.4	1,797.8	4,143.2	4,019.2	123.97	33.420		
10,900.0	8,575.0	12,117.1	9,779.3	62.9	70.2	-107.46	3,147.7	1,852.8	4,141.0	4,013.9	127.13	32.573		
11,000.0	8,575.0	12,182.6	9,783.4	65.0	71.6	-107.52	3,145.8	1,918.2	4,139.9	4,009.4	130.49	31.725		
11,100.0	8,575.0	12,254.0	9,788.8	67.1	73.2	-107.60	3,143.6	1,989.4	4,139.2	4,005.3	133.98	30.895		
11,103.6	8,575.0	12,254.0	9,788.8	67.2	73.2	-107.60	3,143.6	1,989.4	4,139.2	4,005.2	134.05	30.877		
11,200.0	8,575.0	12,298.1	9,792.4	69.3	74.1	-107.65	3,142.7	2,033.3	4,139.7	4,002.8	136.94	30.229		
11,300.0	8,575.0	12,349.0	9,796.6	71.5	75.2	-107.71	3,142.7	2,084.0	4,141.8	4,001.8	140.04	29.576		
11,400.0	8,575.0	12,378.5	9,799.2	73.7	75.8	-107.74	3,143.1	2,113.4	4,145.3	4,002.6	142.70	29.049		
11,500.0	8,575.0	12,445.0	9,805.2	75.9	77.3	-107.82	3,144.6	2,179.6	4,150.1	4,004.0	146.12	28.402		
11,600.0	8,575.0	12,493.4	9,809.9	78.2	78.4	-107.87	3,146.2	2,227.8	4,155.8	4,006.7	149.15	27.862		
11,700.0	8,575.0	12,578.2	9,818.0	80.4	80.2	-107.96	3,149.5	2,312.1	4,162.4	4,009.4	152.98	27.209		
11,800.0	8,575.0	11,800.0	9,828.0	82.7	82.9	-108.06	3,158.4	2,507.9	4,168.6	4,030.0	138.51	30.096		
11,900.0	8,575.0	13,065.4	9,820.6	84.9	91.1	-107.93	3,166.7	2,798.4	4,170.0	4,002.1	167.89	24.838		
11,982.1	8,575.0	13,134.7	9,818.6	86.8	92.6	-107.90	3,167.2	2,867.8	4,169.8	3,998.6	171.21	24.355		
12,000.0	8,575.0	13,144.5	9,818.5	87.2	92.9	-107.90	3,167.2	2,877.5	4,169.8	3,998.0	171.81	24.269		
12,100.0	8,575.0	13,211.0	9,819.0	89.5	94.4	-107.90	3,167.7	2,944.1	4,170.6	3,995.1	175.45	23.771		
12,200.0	8,575.0	13,310.7	9,822.3	91.8	96.6	-107.94	3,168.1	3,043.7	4,171.9	3,992.1	179.78	23.205		
12,300.0	8,575.0	13,433.9	9,825.1	94.1	99.5	-107.98	3,168.1	3,166.8	4,172.4	3,987.7	184.65	22.597		
12,400.0	8,575.0	13,521.1	9,826.0	96.4	101.5	-107.99	3,168.5	3,254.0	4,173.0	3,984.2	188.76	22.107		
12,500.0	8,575.0	13,628.1	9,827.7	98.7	103.9	-108.01	3,169.0	3,361.1	4,173.8	3,980.5	193.32	21.590		
12,600.0	8,575.0	13,717.3	9,828.8	101.0	106.0	-108.03	3,169.2	3,450.2	4,174.4	3,976.9	197.50	21.136		
12,700.0	8,575.0	13,785.5	9,829.3	103.4	107.6	-108.03	3,170.0	3,518.4	4,175.6	3,974.4	201.23	20.751		
12,800.0	8,575.0	13,845.0	9,830.4	105.7	108.9	-108.04	3,170.9	3,577.9	4,177.6	3,972.9	204.75	20.404		
12,900.0	8,575.0	13,893.3	9,832.2	108.0	110.1	-108.06	3,172.0	3,626.2	4,180.8	3,972.8	207.98	20.102		
13,000.0	8,575.0	13,950.1	9,835.2	110.4	111.4	-108.09	3,173.8	3,682.9	4,185.3	3,973.9	211.39	19.799		
13,100.0	8,575.0	14,233.7	9,845.5	112.7	118.0	-108.20	3,179.6	3,966.2	4,188.7	3,968.8	219.97	19.042		
13,200.0	8,575.0	13,200.0	9,846.6	115.1	93.8	-108.23	3,177.8	4,187.7	4,188.4	3,989.6	198.78	21.070		
13,300.0	8,575.0	14,542.9	9,845.2	117.5	125.2	-108.22	3,175.8	4,275.2	4,185.6	3,954.3	231.30	18.096		
13,400.0	8,575.0	14,595.0	9,845.6	119.8	126.5	-108.23	3,175.3	4,327.3	4,184.5	3,949.7	234.78	17.823		
13,500.0	8,575.0	13,500.0	9,846.5	122.2	100.7	-108.24	3,174.7	4,401.9	4,184.0	3,971.7	212.32	19.707		
13,600.0	8,575.0	14,766.5	9,846.7	124.6	130.5	-108.25	3,174.1	4,498.9	4,183.3	3,940.1	243.17	17.203		
13,633.6	8,575.0	14,787.0	9,846.7	125.4	131.0	-108.25	3,174.0	4,519.3	4,183.2	3,938.8	244.40	17.117		
13,700.0	8,575.0	14,821.1	9,847.0	126.9	131.8	-108.25	3,174.1	4,553.5	4,183.5	3,936.8	246.67	16.960		
13,800.0	8,575.0	14,882.0	9,848.8	129.3	133.2	-108.27	3,174.5	4,614.3	4,184.9	3,934.6	250.28	16.721		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 196-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	8,575.0	14,979.3	9,852.5	131.7	135.5	-108.32	3,175.5	4,711.5	4,186.9	3,932.2	254.69	16.439		
14,000.0	8,575.0	15,361.0	9,849.1	134.1	144.6	-108.31	3,168.3	5,092.8	4,183.0	3,917.8	265.25	15.770		
14,100.0	8,575.0	15,396.5	9,847.9	136.4	145.4	-108.29	3,167.2	5,128.2	4,178.9	3,910.4	268.53	15.562		
14,200.0	8,575.0	15,456.0	9,847.2	138.8	146.8	-108.29	3,166.0	5,187.7	4,176.2	3,904.0	272.26	15.339		
14,300.0	8,575.0	15,487.5	9,847.3	141.2	147.6	-108.29	3,165.5	5,219.2	4,174.7	3,899.4	275.34	15.162		
14,360.8	8,575.0	15,514.8	9,847.7	142.7	148.2	-108.30	3,165.3	5,246.6	4,174.5	3,897.1	277.36	15.050		
14,400.0	8,575.0	15,552.0	9,848.5	143.6	149.1	-108.31	3,165.3	5,283.7	4,174.7	3,895.6	279.09	14.958		
14,500.0	8,575.0	15,591.5	9,849.6	146.0	150.1	-108.32	3,165.5	5,323.2	4,175.6	3,893.4	282.24	14.794		
14,600.0	8,575.0	15,671.8	9,852.0	148.4	152.0	-108.35	3,166.4	5,403.5	4,177.5	3,891.2	286.30	14.591		
14,700.0	8,575.0	15,784.1	9,853.7	150.8	154.7	-108.37	3,168.0	5,515.7	4,179.2	3,888.1	291.14	14.355		
14,800.0	8,575.0	16,017.0	9,857.3	153.2	160.2	-108.42	3,166.9	5,748.6	4,178.9	3,880.3	298.62	13.994		
14,900.0	8,575.0	16,110.9	9,858.5	155.6	162.5	-108.44	3,165.2	5,842.5	4,177.4	3,874.4	303.03	13.786		
15,000.0	8,575.0	16,220.2	9,860.3	158.0	165.1	-108.48	3,163.0	5,951.8	4,176.0	3,868.2	307.76	13.569		
15,100.0	8,575.0	16,325.3	9,862.3	160.4	167.6	-108.51	3,160.6	6,056.8	4,174.4	3,862.0	312.39	13.363		
15,200.0	8,575.0	16,425.9	9,864.7	162.8	170.0	-108.56	3,158.1	6,157.3	4,172.6	3,855.7	316.92	13.166		
15,300.0	8,575.0	16,501.3	9,866.2	165.2	171.8	-108.58	3,156.6	6,232.7	4,171.2	3,850.2	320.93	12.997		
15,400.0	8,575.0	16,577.5	9,867.1	167.6	173.7	-108.60	3,155.6	6,308.8	4,170.3	3,845.4	324.96	12.833		
15,500.0	8,575.0	16,715.5	9,868.6	170.0	177.0	-108.63	3,154.1	6,446.9	4,169.6	3,839.2	330.34	12.622		
15,600.0	8,575.0	16,816.2	9,868.6	172.5	179.4	-108.63	3,152.4	6,547.5	4,167.9	3,832.9	334.93	12.444		
15,700.0	8,575.0	16,867.3	9,868.5	174.9	180.6	-108.64	3,152.0	6,598.6	4,167.0	3,828.5	338.45	12.312		
15,800.0	8,575.0	16,986.2	9,867.5	177.3	183.5	-108.62	3,152.2	6,717.6	4,166.8	3,823.3	343.49	12.131		
15,885.3	8,575.0	17,039.7	9,866.8	179.3	184.8	-108.61	3,152.3	6,771.1	4,166.5	3,819.8	346.72	12.017		
15,900.0	8,575.0	17,049.0	9,866.7	179.7	185.0	-108.61	3,152.3	6,780.3	4,166.5	3,819.2	347.27	11.998		
16,000.0	8,575.0	17,116.6	9,867.1	182.1	186.6	-108.62	3,152.7	6,847.9	4,167.0	3,815.9	351.11	11.868		
16,100.0	8,575.0	17,190.3	9,868.4	184.5	188.4	-108.63	3,153.3	6,921.6	4,168.3	3,813.2	355.06	11.740		
16,200.0	8,575.0	17,269.2	9,870.6	187.0	190.3	-108.66	3,154.1	7,000.4	4,170.1	3,811.0	359.10	11.613		
16,300.0	8,575.0	17,356.0	9,873.7	189.4	192.4	-108.69	3,155.2	7,087.2	4,172.3	3,809.0	363.31	11.484		
16,400.0	8,575.0	17,446.4	9,877.7	191.8	194.6	-108.74	3,156.3	7,177.5	4,174.8	3,807.2	367.58	11.357		
16,500.0	8,575.0	17,784.5	9,882.8	194.2	202.8	-108.82	3,153.7	7,515.5	4,174.2	3,796.8	377.39	11.061		
16,600.0	8,575.0	17,848.0	9,882.7	196.6	204.3	-108.83	3,152.0	7,578.9	4,171.5	3,790.2	381.24	10.942		
16,700.0	8,575.0	17,902.3	9,882.7	199.1	205.6	-108.83	3,151.1	7,633.3	4,169.8	3,784.9	384.86	10.834		
16,800.0	8,575.0	17,944.0	9,882.6	201.5	206.6	-108.83	3,150.9	7,674.9	4,169.2	3,781.1	388.17	10.741		
16,804.5	8,575.0	17,959.3	9,882.6	201.6	207.0	-108.83	3,150.9	7,690.2	4,169.2	3,780.6	388.62	10.728		
16,900.0	8,575.0	18,017.6	9,882.6	203.9	208.4	-108.83	3,151.2	7,748.6	4,169.6	3,777.5	392.16	10.632		
17,000.0	8,575.0	18,070.7	9,883.0	206.3	209.7	-108.83	3,151.9	7,801.7	4,171.0	3,775.4	395.64	10.543		
17,100.0	8,575.0	18,135.0	9,884.8	208.8	211.2	-108.85	3,153.3	7,865.9	4,173.7	3,774.4	399.31	10.452		
17,200.0	8,575.0	18,195.0	9,887.2	211.2	212.7	-108.87	3,154.9	7,925.8	4,177.3	3,774.5	402.83	10.370		
17,300.0	8,575.0	18,453.2	9,894.5	213.6	218.9	-108.95	3,158.9	8,183.9	4,180.2	3,769.0	411.16	10.167		
17,400.0	8,575.0	18,680.9	9,894.3	216.0	224.4	-108.97	3,155.2	8,411.5	4,178.2	3,759.7	418.47	9.984		
17,500.0	8,575.0	18,739.0	9,894.4	218.5	225.9	-108.97	3,153.7	8,469.6	4,175.7	3,753.5	422.22	9.890		
17,600.0	8,575.0	18,805.0	9,895.6	220.9	227.5	-109.00	3,152.3	8,535.5	4,174.2	3,748.1	426.06	9.797		
17,689.5	8,575.0	18,844.7	9,896.9	223.1	228.4	-109.01	3,151.8	8,575.2	4,173.7	3,744.7	429.04	9.728		
17,700.0	8,575.0	18,850.2	9,897.0	223.3	228.5	-109.02	3,151.7	8,580.7	4,173.7	3,744.3	429.41	9.720		
17,800.0	8,575.0	18,907.0	9,899.4	225.8	229.9	-109.05	3,151.4	8,637.4	4,174.4	3,741.5	432.93	9.642		
17,900.0	8,575.0	19,051.6	9,902.4	228.2	233.4	-109.09	3,151.2	8,782.0	4,174.8	3,736.3	438.50	9.521		
18,000.0	8,575.0	19,136.7	9,902.9	230.6	235.5	-109.10	3,151.3	8,867.1	4,175.0	3,732.2	442.76	9.429		
18,100.0	8,575.0	19,212.1	9,903.3	233.0	237.3	-109.10	3,151.9	8,942.5	4,175.7	3,729.0	446.79	9.346		
18,200.0	8,575.0	19,292.6	9,904.0	235.5	239.3	-109.11	3,152.8	9,023.0	4,177.0	3,726.1	450.92	9.263		
18,300.0	8,575.0	19,368.0	9,905.2	237.9	241.1	-109.12	3,153.9	9,098.3	4,178.8	3,723.9	454.90	9.186		
18,400.0	8,575.0	19,442.7	9,906.7	240.3	242.9	-109.13	3,155.4	9,173.0	4,181.2	3,722.3	458.85	9.112		
18,500.0	8,575.0	19,511.4	9,908.3	242.8	244.6	-109.14	3,157.1	9,241.7	4,184.2	3,721.6	462.61	9.045		
18,600.0	8,575.0	19,582.5	9,910.3	245.2	246.3	-109.16	3,159.4	9,312.8	4,188.1	3,721.7	466.41	8.979		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #203H - Wellbore #1 - Actual												Offset Site Error:	0.0 usft
Survey Program: 196-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	8,575.0	19,776.0	9,912.0	247.6	251.0	-109.15	3,165.4	9,506.1	4,191.3	3,717.8	473.47	8.852	
18,800.0	8,575.0	19,860.7	9,911.1	250.1	253.1	-109.13	3,167.8	9,590.7	4,193.5	3,715.7	477.76	8.777	
18,900.0	8,575.0	19,943.0	9,910.8	252.5	255.1	-109.12	3,170.2	9,673.1	4,196.0	3,714.0	481.97	8.706	
19,000.0	8,575.0	20,043.5	9,911.2	255.0	257.5	-109.11	3,173.0	9,773.5	4,198.7	3,712.1	486.62	8.628	
19,100.0	8,575.0	20,151.1	9,912.1	257.4	260.1	-109.11	3,175.8	9,881.0	4,201.3	3,709.8	491.43	8.549	
19,200.0	8,575.0	20,377.5	9,914.1	259.8	265.6	-109.13	3,178.3	10,107.4	4,202.8	3,703.7	499.04	8.422	
19,300.0	8,575.0	20,556.4	9,913.7	262.3	270.0	-109.13	3,175.9	10,286.3	4,201.4	3,696.1	505.31	8.314	
19,400.0	8,575.0	20,624.0	9,913.8	264.7	271.6	-109.14	3,174.8	10,353.9	4,199.6	3,690.4	509.26	8.246	
19,500.0	8,575.0	20,749.6	9,913.4	267.1	274.7	-109.15	3,172.6	10,479.4	4,197.8	3,683.4	514.40	8.161	
19,600.0	8,575.0	20,815.0	9,912.8	269.6	276.3	-109.14	3,171.6	10,544.8	4,195.9	3,677.6	518.33	8.095	
19,687.8	8,575.0	20,815.0	9,912.8	271.7	276.3	-109.14	3,171.6	10,544.8	4,195.6	3,675.2	520.42	8.062	
19,700.0	8,575.0	20,846.5	9,913.0	272.0	277.0	-109.15	3,171.3	10,576.4	4,195.3	3,673.9	521.43	8.046	
19,800.0	8,575.0	20,875.2	9,913.9	274.5	277.7	-109.16	3,171.4	10,605.0	4,196.4	3,672.1	524.31	8.004	
19,900.0	8,575.0	19,900.0	9,918.1	276.9	254.0	-109.21	3,172.2	10,683.9	4,198.9	3,695.1	503.90	8.333	
20,000.0	8,575.0	21,100.1	9,924.3	279.3	283.2	-109.29	3,172.6	10,829.7	4,200.4	3,666.6	533.80	7.869	
20,100.0	8,575.0	21,188.7	9,928.3	281.8	285.4	-109.34	3,172.7	10,918.2	4,201.8	3,663.8	538.00	7.810	
20,200.0	8,575.0	21,256.7	9,932.0	284.2	287.0	-109.39	3,172.9	10,986.0	4,203.8	3,662.1	541.67	7.761	
20,300.0	8,575.0	20,300.0	9,945.4	286.6	263.7	-109.58	3,168.3	11,284.7	4,203.6	3,682.4	521.21	8.065	
20,400.0	8,575.0	21,731.9	9,939.0	289.1	298.6	-109.52	3,163.9	11,460.6	4,199.6	3,643.1	556.48	7.547	
20,500.0	8,575.0	21,795.5	9,936.3	291.5	300.1	-109.49	3,162.3	11,524.1	4,195.7	3,635.2	560.53	7.485	
20,600.0	8,575.0	21,838.3	9,935.3	294.0	301.2	-109.48	3,161.5	11,566.9	4,193.1	3,629.0	564.07	7.434	
20,700.0	8,575.0	21,899.5	9,935.3	296.4	302.7	-109.49	3,160.7	11,628.1	4,191.8	3,623.9	567.88	7.381	
20,800.0	8,575.0	22,010.5	9,936.5	298.9	305.4	-109.51	3,159.2	11,739.0	4,190.7	3,618.0	572.67	7.318	
20,900.0	8,575.0	22,143.4	9,935.6	301.3	308.6	-109.51	3,157.2	11,871.9	4,188.9	3,610.9	577.98	7.248	
21,000.0	8,575.0	22,176.0	9,935.3	303.7	309.4	-109.51	3,156.6	11,904.5	4,187.4	3,606.2	581.18	7.205	
21,018.8	8,575.0	22,176.0	9,935.3	304.2	309.4	-109.51	3,156.6	11,904.5	4,187.4	3,605.7	581.63	7.199	
21,100.0	8,575.0	22,176.0	9,935.3	306.2	309.4	-109.51	3,156.6	11,904.5	4,188.2	3,604.7	583.42	7.179	
21,200.0	8,575.0	22,176.0	9,935.3	308.6	309.4	-109.51	3,156.6	11,904.5	4,191.3	3,606.0	585.32	7.161	
21,213.6	8,575.0	22,176.0	9,935.3	309.0	309.4	-109.51	3,156.6	11,904.5	4,191.9	3,606.3	585.56	7.159 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 164-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	-14.33	2,279.5	-582.4	2,353.0					
100.0	100.0	58.5	58.5	0.1	0.1	-14.33	2,279.5	-582.3	2,352.7	2,352.5	0.22	N/A		
200.0	200.0	152.9	152.9	0.5	0.2	-14.32	2,279.8	-582.1	2,353.0	2,352.3	0.71	3,298.314		
300.0	300.0	253.4	253.4	0.8	0.6	-14.30	2,280.6	-581.4	2,353.6	2,352.2	1.41	1,670.886		
400.0	400.0	413.7	413.5	1.2	1.1	-14.17	2,280.5	-575.7	2,352.7	2,350.3	2.35	1,002.556		
476.6	476.6	438.8	438.6	1.5	1.2	-14.14	2,280.7	-574.4	2,351.9	2,349.2	2.71	868.874	CC	
500.0	500.0	448.0	447.8	1.6	1.3	-14.12	2,280.9	-573.8	2,352.0	2,349.2	2.82	832.776	ES	
600.0	600.0	498.0	497.7	1.9	1.4	-14.04	2,282.7	-571.0	2,353.9	2,350.6	3.37	698.814		
700.0	700.0	560.4	559.9	2.3	1.7	-13.93	2,286.4	-567.0	2,357.8	2,353.9	3.96	595.046		
800.0	800.0	642.5	641.6	2.6	2.0	-13.76	2,291.8	-561.1	2,362.5	2,357.9	4.63	510.422		
900.0	900.0	792.2	790.5	3.0	2.6	-13.43	2,301.5	-549.8	2,367.3	2,361.8	5.55	426.649		
1,000.0	1,000.0	1,000.0	1,014.4	3.4	3.3	-13.27	2,302.8	-542.9	2,366.5	2,359.9	6.64	356.414		
1,100.0	1,100.0	1,227.6	1,225.3	3.7	4.0	125.95	2,291.0	-545.5	2,362.0	2,354.3	7.72	306.151		
1,200.0	1,199.7	1,310.2	1,307.7	4.0	4.3	126.01	2,284.9	-548.5	2,359.4	2,351.1	8.32	283.663		
1,235.0	1,234.6	1,341.3	1,338.7	4.2	4.4	126.03	2,282.6	-549.7	2,359.2	2,350.7	8.54	276.234		
1,300.0	1,299.1	1,399.0	1,396.2	4.4	4.6	126.07	2,278.6	-552.0	2,359.8	2,350.9	8.95	263.548		
1,372.0	1,370.4	1,462.4	1,459.3	4.6	4.8	126.13	2,274.5	-554.3	2,362.1	2,352.6	9.42	250.685		
1,400.0	1,398.0	1,487.0	1,483.9	4.7	4.9	126.18	2,272.9	-555.1	2,363.3	2,353.7	9.61	246.017		
1,500.0	1,496.7	1,583.3	1,580.0	5.1	5.2	126.39	2,267.2	-558.0	2,367.7	2,357.4	10.30	229.900		
1,600.0	1,595.4	1,600.0	1,765.8	5.5	5.3	126.79	2,253.8	-563.0	2,371.4	2,360.7	10.71	221.449		
1,700.0	1,694.1	1,914.0	1,909.1	5.9	6.4	127.03	2,237.2	-568.0	2,370.3	2,358.2	12.17	194.750		
1,747.8	1,741.2	1,938.2	1,933.1	6.1	6.5	127.06	2,234.3	-569.3	2,370.0	2,357.6	12.45	190.413		
1,800.0	1,792.7	1,959.5	1,954.2	6.3	6.6	127.09	2,232.1	-570.6	2,370.4	2,357.7	12.73	186.194		
1,900.0	1,891.4	2,009.0	2,003.4	6.7	6.8	127.14	2,227.8	-574.2	2,373.0	2,359.7	13.30	178.383		
2,000.0	1,990.1	2,044.5	2,038.7	7.1	6.9	127.17	2,225.6	-576.9	2,378.0	2,364.2	13.82	172.023		
2,100.0	2,088.8	2,105.0	2,099.0	7.5	7.1	127.25	2,223.4	-581.0	2,385.5	2,371.1	14.43	165.332		
2,200.0	2,187.5	2,138.7	2,132.7	7.9	7.2	127.31	2,223.1	-582.8	2,394.9	2,380.0	14.93	160.429		
2,300.0	2,286.2	2,201.0	2,194.9	8.3	7.4	127.47	2,223.9	-584.6	2,406.6	2,391.0	15.53	154.990		
2,400.0	2,384.9	2,241.2	2,235.1	8.8	7.6	127.59	2,225.4	-585.1	2,420.1	2,404.1	16.03	150.940		
2,500.0	2,483.5	2,296.0	2,289.8	9.2	7.7	127.77	2,228.6	-585.2	2,435.6	2,419.1	16.59	146.823		
2,600.0	2,582.2	2,640.6	2,633.8	9.6	8.9	128.60	2,234.1	-594.7	2,449.6	2,431.3	18.27	134.092		
2,700.0	2,680.9	2,718.0	2,711.0	10.1	9.2	128.73	2,230.7	-598.5	2,456.3	2,437.4	18.94	129.664		
2,800.0	2,779.6	2,779.5	2,772.5	10.5	9.4	128.86	2,229.1	-600.4	2,464.5	2,445.0	19.56	126.009		
2,900.0	2,878.3	2,862.6	2,855.5	10.9	9.7	129.08	2,228.1	-601.5	2,473.8	2,453.6	20.25	122.176		
3,000.0	2,977.0	2,957.8	2,950.8	11.3	10.1	129.35	2,227.6	-601.4	2,483.6	2,462.6	20.98	118.377		
3,100.0	3,075.7	3,064.4	3,057.3	11.8	10.4	129.68	2,227.1	-600.5	2,493.4	2,471.6	21.75	114.620		
3,200.0	3,174.3	3,173.7	3,166.7	12.2	10.8	130.01	2,226.2	-599.4	2,502.8	2,480.3	22.54	111.051		
3,300.0	3,273.0	3,268.0	3,261.0	12.6	11.1	130.30	2,225.3	-598.6	2,512.2	2,489.0	23.27	107.974		
3,400.0	3,371.7	3,364.5	3,357.5	13.1	11.5	130.59	2,224.4	-597.6	2,521.8	2,497.8	24.00	105.054		
3,500.0	3,470.4	3,448.4	3,441.3	13.5	11.8	130.84	2,224.0	-596.7	2,531.7	2,507.0	24.69	102.530		
3,600.0	3,569.1	3,537.9	3,530.8	14.0	12.1	131.11	2,224.0	-595.9	2,542.2	2,516.8	25.40	100.087		
3,700.0	3,667.8	3,627.3	3,620.2	14.4	12.4	131.37	2,224.2	-595.3	2,553.2	2,527.1	26.11	97.801		
3,800.0	3,766.5	3,724.4	3,717.3	14.8	12.7	131.64	2,224.7	-594.7	2,564.4	2,537.5	26.84	95.542		
3,900.0	3,865.1	3,809.4	3,802.3	15.3	13.0	131.88	2,225.3	-594.4	2,575.9	2,548.4	27.53	93.580		
4,000.0	3,963.8	3,898.5	3,891.5	15.7	13.3	132.13	2,226.4	-594.2	2,588.0	2,559.7	28.23	91.683		
4,100.0	4,062.5	4,309.4	4,301.1	16.1	14.8	132.85	2,209.8	-609.0	2,598.6	2,568.5	30.06	86.442		
4,200.0	4,161.2	4,401.6	4,392.5	16.6	15.1	132.93	2,199.3	-615.1	2,599.1	2,568.3	30.80	84.382		
4,300.0	4,259.9	4,521.3	4,511.2	17.0	15.6	133.04	2,185.9	-622.8	2,599.8	2,568.1	31.62	82.212		
4,400.0	4,358.6	4,629.7	4,618.4	17.5	16.0	133.11	2,172.4	-631.0	2,599.1	2,566.7	32.41	80.186		
4,480.6	4,438.1	4,699.4	4,687.4	17.8	16.2	133.16	2,163.9	-636.1	2,599.0	2,566.0	33.00	78.753		
4,500.0	4,457.3	4,716.4	4,704.3	17.9	16.3	133.18	2,161.9	-637.3	2,599.0	2,565.9	33.14	78.416		
4,600.0	4,555.9	4,890.3	4,876.4	18.3	17.0	133.36	2,139.2	-647.1	2,597.6	2,563.5	34.11	76.149		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 164-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		
4,700.0	4,654.6	4,972.2	4,957.4	18.8	17.3	133.47	2,127.6	-650.6	2,595.2	2,560.3	34.83	74.506		
4,800.0	4,753.3	4,800.0	5,075.9	19.2	16.6	133.64	2,111.3	-655.6	2,593.2	2,558.6	34.59	74.973		
4,900.0	4,852.0	5,222.8	5,205.1	19.7	18.3	133.80	2,091.0	-661.3	2,589.2	2,552.7	36.49	70.955		
5,000.0	4,950.7	5,302.6	5,283.9	20.1	18.6	133.91	2,078.9	-664.6	2,585.6	2,548.4	37.21	69.488		
5,100.0	5,049.4	5,380.8	5,361.2	20.6	18.9	134.03	2,067.6	-667.5	2,582.9	2,544.9	37.92	68.111		
5,200.0	5,148.1	5,458.2	5,437.8	21.0	19.2	134.14	2,057.2	-670.4	2,581.0	2,542.3	38.63	66.815		
5,300.0	5,246.7	5,300.0	5,558.5	21.4	18.6	134.31	2,040.8	-675.6	2,579.3	2,540.9	38.43	67.121		
5,400.0	5,345.4	5,702.3	5,679.2	21.9	20.2	134.45	2,022.6	-682.0	2,576.0	2,535.7	40.28	63.949		
5,500.0	5,444.1	5,782.8	5,758.7	22.3	20.5	134.54	2,010.8	-686.1	2,573.2	2,532.2	41.00	62.755		
5,600.0	5,542.8	5,862.5	5,837.6	22.8	20.8	134.64	1,999.8	-690.1	2,571.2	2,529.5	41.72	61.628		
5,700.0	5,641.5	6,021.5	5,994.6	23.2	21.4	134.82	1,976.9	-698.5	2,568.7	2,526.1	42.64	60.236		
5,800.0	5,740.2	6,093.0	6,065.2	23.7	21.7	134.90	1,966.1	-702.3	2,565.4	2,522.0	43.35	59.182		
5,900.0	5,838.9	6,166.4	6,137.8	24.1	22.0	135.00	1,955.8	-705.5	2,563.1	2,519.1	44.05	58.189		
6,000.0	5,937.5	6,000.0	6,250.5	24.5	21.4	135.15	1,939.9	-710.4	2,561.0	2,517.2	43.82	58.444		
6,100.0	6,036.2	6,349.7	6,319.2	25.0	22.8	135.25	1,930.3	-713.1	2,559.0	2,513.5	45.54	56.191		
6,157.8	6,093.3	6,380.0	6,349.2	25.2	22.9	135.30	1,926.5	-714.2	2,558.7	2,512.8	45.91	55.736		
6,200.0	6,134.9	6,404.6	6,373.7	25.4	23.0	135.34	1,923.7	-714.9	2,558.8	2,512.6	46.18	55.414		
6,300.0	6,233.6	6,459.1	6,427.8	25.9	23.2	135.44	1,918.2	-716.3	2,560.4	2,513.6	46.79	54.716		
6,400.0	6,332.3	6,520.1	6,488.6	26.3	23.4	135.57	1,913.1	-717.4	2,563.7	2,516.2	47.42	54.065		
6,500.0	6,431.0	6,603.9	6,572.2	26.8	23.8	135.74	1,907.2	-718.7	2,568.3	2,520.2	48.12	53.378		
6,600.0	6,529.6	6,751.2	6,718.9	27.2	24.3	136.00	1,895.1	-722.9	2,571.9	2,522.8	49.04	52.445		
6,700.0	6,628.3	6,824.4	6,791.8	27.6	24.6	136.12	1,888.7	-725.5	2,575.1	2,525.4	49.71	51.805		
6,800.0	6,727.0	6,891.5	6,858.7	28.1	24.9	136.24	1,883.8	-727.6	2,579.6	2,529.3	50.35	51.238		
6,900.0	6,825.7	6,959.0	6,926.0	28.5	25.1	136.37	1,879.7	-729.2	2,585.4	2,534.4	50.97	50.719		
7,000.0	6,924.4	7,034.1	7,001.0	29.0	25.4	136.52	1,876.0	-730.4	2,592.3	2,540.7	51.62	50.215		
7,100.0	7,023.1	7,111.5	7,078.4	29.4	25.7	136.69	1,872.8	-731.3	2,600.1	2,547.8	52.28	49.737		
7,200.0	7,121.8	7,207.6	7,174.4	29.9	26.0	136.89	1,869.5	-732.7	2,608.6	2,555.6	53.01	49.211		
7,300.0	7,220.4	7,302.3	7,269.0	30.3	26.3	137.08	1,866.2	-734.2	2,617.0	2,563.2	53.73	48.704		
7,400.0	7,319.1	7,390.3	7,357.0	30.7	26.7	137.27	1,863.4	-735.2	2,625.8	2,571.4	54.42	48.247		
7,466.5	7,384.7	7,447.8	7,414.5	31.0	26.9	137.40	1,861.8	-735.8	2,631.9	2,577.0	54.88	47.958		
7,500.0	7,417.8	7,475.8	7,442.5	31.2	27.0	137.49	1,861.1	-736.1	2,635.0	2,579.9	55.10	47.819		
7,600.0	7,516.9	7,559.7	7,526.3	31.6	27.3	137.72	1,859.4	-736.9	2,643.3	2,587.5	55.76	47.401		
7,700.0	7,616.2	7,647.1	7,613.7	32.0	27.6	137.92	1,858.0	-737.6	2,650.2	2,593.8	56.43	46.967		
7,800.0	7,715.8	7,738.3	7,704.9	32.4	27.9	138.11	1,856.9	-737.0	2,655.5	2,598.4	57.09	46.514		
7,900.0	7,815.6	7,815.0	7,781.6	32.8	28.1	138.25	1,856.5	-735.5	2,659.6	2,601.9	57.67	46.121		
8,000.0	7,915.5	7,914.8	7,881.3	33.1	28.5	138.39	1,856.4	-732.5	2,662.1	2,603.8	58.33	45.638		
8,086.5	8,002.0	7,977.7	7,944.2	33.3	28.7	-90.75	1,856.6	-731.3	2,663.2	2,604.4	58.78	45.307		
8,100.0	8,015.5	7,987.7	7,954.2	33.4	28.7	-90.55	1,856.7	-731.3	2,663.3	2,604.4	58.85	45.256		
8,150.0	8,065.4	8,036.0	8,002.5	33.5	28.9	-90.57	1,857.2	-731.7	2,663.8	2,604.7	59.15	45.035		
8,200.0	8,114.8	8,096.4	8,062.9	33.6	29.1	-90.74	1,857.6	-732.0	2,664.3	2,604.8	59.50	44.778		
8,250.0	8,163.3	8,167.3	8,133.8	33.7	29.3	-91.08	1,857.7	-731.9	2,664.5	2,604.6	59.89	44.491		
8,300.0	8,210.6	8,234.1	8,200.6	33.8	29.5	-91.53	1,857.3	-731.6	2,664.5	2,604.3	60.25	44.224		
8,350.0	8,256.3	8,296.0	8,262.5	33.8	29.7	-92.07	1,856.4	-731.6	2,664.5	2,603.9	60.58	43.981		
8,400.0	8,300.1	8,370.6	8,337.1	33.9	30.0	-92.85	1,854.8	-731.5	2,664.4	2,603.4	60.96	43.704		
8,426.4	8,322.4	8,408.7	8,375.1	33.9	30.1	-93.30	1,853.6	-731.2	2,664.3	2,603.2	61.15	43.567		
8,450.0	8,341.6	8,410.3	8,376.8	33.9	30.1	-93.31	1,853.6	-731.3	2,664.5	2,603.3	61.19	43.546		
8,500.0	8,380.6	8,437.2	8,403.7	33.9	30.2	-93.59	1,852.9	-731.1	2,665.3	2,603.9	61.36	43.440		
8,550.0	8,416.6	8,462.1	8,428.6	33.9	30.3	-93.79	1,852.4	-731.1	2,667.0	2,605.4	61.52	43.352		
8,600.0	8,449.5	8,485.0	8,451.5	33.9	30.4	-93.91	1,852.0	-731.0	2,669.5	2,607.8	61.68	43.277		
8,650.0	8,479.0	8,521.8	8,488.3	33.9	30.5	-94.20	1,851.5	-730.8	2,673.0	2,611.1	61.93	43.163		
8,700.0	8,504.8	8,555.4	8,521.8	33.9	30.6	-94.37	1,850.9	-730.4	2,677.3	2,615.2	62.18	43.060		
8,750.0	8,526.9	8,585.2	8,551.6	33.8	30.7	-94.41	1,850.3	-729.8	2,682.6	2,620.2	62.43	42.971		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 164-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		
8,800.0	8,544.9	8,612.2	8,578.6	33.8	30.8	-94.31	1,849.7	-729.1	2,689.0	2,626.3	62.69	42.891		
8,850.0	8,558.8	8,634.3	8,600.7	33.8	30.9	-94.01	1,849.2	-728.3	2,696.4	2,633.4	62.96	42.827		
8,900.0	8,568.4	8,651.1	8,617.5	33.7	31.0	-93.50	1,848.8	-727.7	2,704.9	2,641.6	63.23	42.780		
8,950.0	8,573.8	8,662.1	8,628.5	33.7	31.0	-92.76	1,848.5	-727.2	2,714.5	2,651.0	63.49	42.753		
8,986.5	8,575.0	8,666.3	8,632.6	33.7	31.0	-92.06	1,848.4	-727.0	2,722.2	2,658.5	63.68	42.748		
8,993.2	8,575.0	8,666.7	8,633.1	33.8	31.0	-92.07	1,848.4	-727.0	2,723.6	2,659.9	63.71	42.748		
9,000.0	8,575.0	8,667.2	8,633.5	33.8	31.0	-92.08	1,848.4	-727.0	2,725.2	2,661.4	63.75	42.748		
9,100.0	8,575.0	8,674.3	8,640.6	33.9	31.1	-92.24	1,848.2	-726.7	2,749.4	2,685.1	64.33	42.738		
9,200.0	8,575.0	8,682.0	8,648.4	34.4	31.1	-92.40	1,848.0	-726.3	2,777.1	2,712.0	65.02	42.713		
9,300.0	8,575.0	8,690.5	8,656.8	35.3	31.1	-92.59	1,847.8	-725.9	2,808.0	2,742.2	65.79	42.682		
9,400.0	8,575.0	9,400.0	8,633.8	36.3	33.5	-92.09	1,848.4	-726.9	2,842.1	2,773.1	69.00	41.189		
9,500.0	8,575.0	9,500.0	8,637.3	37.6	33.9	-92.17	1,848.3	-726.8	2,879.3	2,809.1	70.20	41.014		
9,600.0	8,575.0	9,600.0	8,640.7	38.9	34.2	-92.24	1,848.2	-726.7	2,919.4	2,848.0	71.44	40.865		
9,700.0	8,575.0	10,739.3	9,788.2	40.4	43.9	-115.17	1,858.6	527.8	2,942.0	2,862.9	79.15	37.171		
9,800.0	8,575.0	10,842.0	9,792.2	41.9	45.5	-115.24	1,859.0	630.4	2,943.9	2,861.9	82.00	35.901		
9,900.0	8,575.0	10,979.8	9,796.7	43.6	47.8	-115.32	1,859.5	768.1	2,945.8	2,860.2	85.60	34.414		
10,000.0	8,575.0	11,071.1	9,797.6	45.3	49.4	-115.33	1,859.7	859.4	2,946.3	2,857.7	88.57	33.266		
10,100.0	8,575.0	11,162.3	9,798.3	47.0	51.0	-115.34	1,860.7	950.6	2,947.5	2,855.9	91.64	32.164		
10,200.0	8,575.0	11,253.1	9,799.4	48.9	52.7	-115.35	1,861.7	1,041.4	2,948.8	2,854.0	94.79	31.108		
10,300.0	8,575.0	11,356.0	9,800.8	50.8	54.7	-115.37	1,863.0	1,144.2	2,950.5	2,852.2	98.26	30.027		
10,400.0	8,575.0	11,480.9	9,801.3	52.7	57.1	-115.37	1,864.3	1,269.2	2,951.5	2,849.3	102.26	28.863		
10,500.0	8,575.0	11,546.2	9,801.5	54.7	58.4	-115.36	1,865.2	1,334.4	2,952.7	2,847.6	105.15	28.082		
10,600.0	8,575.0	11,618.7	9,803.0	56.7	59.8	-115.38	1,866.4	1,406.9	2,955.0	2,846.8	108.20	27.311		
10,700.0	8,575.0	11,702.9	9,806.1	58.7	61.5	-115.42	1,867.9	1,491.0	2,958.1	2,846.5	111.53	26.524		
10,800.0	8,575.0	11,797.3	9,810.2	60.8	63.5	-115.48	1,869.6	1,585.3	2,961.4	2,846.3	115.10	25.728		
10,900.0	8,575.0	11,900.4	9,814.6	62.9	65.6	-115.54	1,871.5	1,688.3	2,964.9	2,845.9	118.92	24.932		
11,000.0	8,575.0	12,016.2	9,819.4	65.0	68.0	-115.61	1,873.3	1,804.0	2,968.0	2,844.9	123.06	24.119		
11,100.0	8,575.0	12,212.5	9,824.9	67.1	72.2	-115.70	1,874.4	2,000.2	2,970.0	2,841.0	129.01	23.022		
11,200.0	8,575.0	12,337.7	9,825.1	69.3	75.0	-115.72	1,872.7	2,125.4	2,968.6	2,835.2	133.48	22.241		
11,300.0	8,575.0	12,438.3	9,825.5	71.5	77.2	-115.74	1,871.2	2,226.0	2,967.4	2,829.9	137.45	21.589		
11,400.0	8,575.0	12,521.4	9,825.6	73.7	79.0	-115.75	1,870.3	2,309.1	2,966.3	2,825.3	141.06	21.028		
11,500.0	8,575.0	12,603.5	9,826.3	75.9	80.8	-115.77	1,869.7	2,391.2	2,965.9	2,821.2	144.67	20.501		
11,600.0	8,575.0	12,738.4	9,828.6	78.2	83.8	-115.82	1,867.9	2,526.0	2,965.4	2,815.9	149.46	19.841		
11,700.0	8,575.0	12,836.6	9,829.7	80.4	86.1	-115.86	1,866.1	2,624.2	2,964.1	2,810.7	153.46	19.316		
11,800.0	8,575.0	12,934.9	9,830.4	82.7	88.3	-115.89	1,864.4	2,722.5	2,962.9	2,805.4	157.49	18.814		
11,900.0	8,575.0	13,028.3	9,831.1	84.9	90.4	-115.91	1,863.2	2,815.9	2,961.9	2,800.4	161.43	18.348		
12,000.0	8,575.0	13,131.3	9,831.4	87.2	92.7	-115.93	1,861.5	2,918.9	2,960.4	2,794.8	165.60	17.876		
12,060.8	8,575.0	13,160.4	9,831.7	88.6	93.4	-115.94	1,861.2	2,948.0	2,960.1	2,792.7	167.38	17.685		
12,100.0	8,575.0	13,179.2	9,832.1	89.5	93.8	-115.95	1,861.1	2,966.8	2,960.2	2,791.7	168.51	17.567		
12,200.0	8,575.0	13,243.7	9,834.1	91.8	95.3	-115.98	1,861.3	3,031.3	2,961.7	2,789.9	171.77	17.242		
12,300.0	8,575.0	13,339.3	9,837.6	94.1	97.5	-116.04	1,861.9	3,126.8	2,963.8	2,788.0	175.76	16.862		
12,400.0	8,575.0	13,446.0	9,841.3	96.4	100.0	-116.10	1,862.5	3,233.4	2,965.6	2,785.6	180.03	16.473		
12,500.0	8,575.0	13,526.6	9,844.2	98.7	101.8	-116.14	1,863.0	3,313.9	2,967.7	2,784.0	183.68	16.157		
12,600.0	8,575.0	13,659.8	9,848.9	101.0	104.9	-116.21	1,864.3	3,447.0	2,970.2	2,781.5	188.62	15.747		
12,700.0	8,575.0	13,772.8	9,850.8	103.4	107.5	-116.24	1,864.9	3,560.0	2,971.3	2,778.2	193.11	15.387		
12,800.0	8,575.0	13,970.5	9,846.4	105.7	112.1	-116.17	1,864.7	3,757.6	2,969.7	2,769.9	199.74	14.868		
12,900.0	8,575.0	14,020.0	9,844.6	108.0	113.3	-116.14	1,864.9	3,807.1	2,968.2	2,765.4	202.86	14.632		
12,938.9	8,575.0	14,036.9	9,844.2	109.0	113.7	-116.13	1,865.1	3,824.0	2,968.1	2,764.2	203.99	14.550		
13,000.0	8,575.0	14,071.0	9,843.7	110.4	114.5	-116.12	1,865.6	3,858.1	2,968.5	2,762.5	205.95	14.414		
13,100.0	8,575.0	14,144.3	9,844.0	112.7	116.2	-116.11	1,866.9	3,931.3	2,970.1	2,760.6	209.54	14.175		
13,200.0	8,575.0	14,233.5	9,844.7	115.1	118.3	-116.11	1,868.5	4,020.5	2,971.9	2,758.4	213.52	13.919		
13,300.0	8,575.0	14,302.0	9,845.4	117.5	119.9	-116.11	1,870.5	4,089.0	2,974.9	2,757.9	216.97	13.711		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 164-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		
13,400.0	8,575.0	14,410.4	9,847.0	119.8	122.4	-116.11	1,874.0	4,197.4	2,978.3	2,756.8	221.47	13.448		
13,500.0	8,575.0	14,477.4	9,848.4	122.2	124.0	-116.11	1,876.1	4,264.3	2,982.0	2,757.1	224.86	13.261		
13,600.0	8,575.0	14,585.3	9,851.6	124.6	126.6	-116.14	1,879.6	4,372.0	2,986.1	2,756.8	229.31	13.022		
13,700.0	8,575.0	14,665.3	9,854.5	126.9	128.4	-116.17	1,882.0	4,452.0	2,990.3	2,757.2	233.01	12.833		
13,800.0	8,575.0	14,834.3	9,859.8	129.3	132.4	-116.23	1,886.4	4,620.9	2,994.0	2,755.0	239.06	12.524		
13,900.0	8,575.0	14,932.8	9,860.3	131.7	134.8	-116.22	1,888.3	4,719.4	2,995.9	2,752.6	243.33	12.312		
14,000.0	8,575.0	14,000.0	9,861.0	134.1	112.6	-116.21	1,890.7	4,833.0	2,998.0	2,772.5	225.49	13.295		
14,100.0	8,575.0	15,177.7	9,863.3	136.4	140.6	-116.25	1,891.1	4,964.2	2,998.9	2,745.8	253.04	11.851		
14,200.0	8,575.0	15,361.0	9,868.6	138.8	145.0	-116.37	1,888.1	5,147.4	2,998.8	2,739.7	259.15	11.572		
14,300.0	8,575.0	15,514.8	9,870.2	141.2	148.6	-116.44	1,883.1	5,301.1	2,996.4	2,731.9	264.53	11.328		
14,400.0	8,575.0	15,575.4	9,869.6	143.6	150.1	-116.45	1,880.9	5,361.6	2,992.9	2,724.9	267.97	11.169		
14,500.0	8,575.0	15,608.7	9,869.8	146.0	150.9	-116.46	1,880.3	5,394.9	2,991.5	2,720.8	270.72	11.050		
14,511.5	8,575.0	15,612.5	9,869.9	146.3	151.0	-116.46	1,880.3	5,398.7	2,991.5	2,720.5	271.03	11.038		
14,600.0	8,575.0	15,642.0	9,870.7	148.4	151.7	-116.47	1,880.2	5,428.2	2,992.4	2,719.0	273.33	10.948		
14,700.0	8,575.0	15,739.4	9,873.6	150.8	154.0	-116.52	1,881.1	5,525.5	2,994.4	2,716.9	277.51	10.790		
14,800.0	8,575.0	15,834.6	9,875.0	153.2	156.3	-116.53	1,882.8	5,620.7	2,996.5	2,714.8	281.69	10.638		
14,900.0	8,575.0	15,910.9	9,875.6	155.6	158.1	-116.52	1,884.8	5,697.0	2,999.2	2,713.8	285.40	10.509		
15,000.0	8,575.0	16,081.5	9,878.5	158.0	162.2	-116.55	1,887.0	5,867.5	3,000.9	2,709.4	291.53	10.294		
15,100.0	8,575.0	16,181.0	9,880.5	160.4	164.6	-116.59	1,886.6	5,967.0	3,001.4	2,705.7	295.77	10.148		
15,200.0	8,575.0	16,421.3	9,879.8	162.8	170.4	-116.63	1,881.4	6,207.2	2,998.5	2,695.2	303.29	9.887		
15,300.0	8,575.0	16,469.6	9,879.3	165.2	171.5	-116.63	1,880.1	6,255.5	2,995.5	2,689.0	306.51	9.773		
15,400.0	8,575.0	16,502.0	9,879.3	167.6	172.3	-116.63	1,879.5	6,287.9	2,994.1	2,684.9	309.25	9.682		
15,432.3	8,575.0	16,533.6	9,879.6	168.4	173.1	-116.64	1,879.2	6,319.5	2,993.9	2,683.3	310.62	9.638		
15,500.0	8,575.0	16,562.5	9,880.3	170.0	173.8	-116.66	1,879.0	6,348.4	2,994.3	2,681.8	312.55	9.580		
15,600.0	8,575.0	16,645.6	9,884.0	172.5	175.8	-116.72	1,879.4	6,431.4	2,996.5	2,680.2	316.32	9.473		
15,700.0	8,575.0	16,755.7	9,886.6	174.9	178.4	-116.76	1,879.7	6,541.5	2,997.7	2,676.8	320.83	9.343		
15,800.0	8,575.0	16,841.7	9,888.4	177.3	180.5	-116.78	1,880.7	6,627.5	2,999.5	2,674.8	324.76	9.236		
15,900.0	8,575.0	16,976.7	9,888.9	179.7	183.7	-116.77	1,883.1	6,762.4	3,001.2	2,671.2	330.06	9.093		
16,000.0	8,575.0	17,138.8	9,888.7	182.1	187.7	-116.78	1,882.3	6,924.5	3,000.3	2,664.4	335.93	8.931		
16,100.0	8,575.0	17,212.6	9,888.8	184.5	189.4	-116.79	1,881.5	6,998.3	2,999.4	2,659.8	339.64	8.831		
16,128.3	8,575.0	17,229.8	9,889.0	185.2	189.9	-116.79	1,881.4	7,015.5	2,999.3	2,658.7	340.59	8.806		
16,200.0	8,575.0	17,268.0	9,889.6	187.0	190.8	-116.80	1,881.3	7,053.7	2,999.7	2,656.8	342.84	8.750		
16,300.0	8,575.0	17,335.7	9,891.1	189.4	192.4	-116.83	1,881.7	7,121.3	3,001.2	2,655.0	346.28	8.667		
16,400.0	8,575.0	17,492.0	9,895.6	191.8	196.2	-116.90	1,882.5	7,277.6	3,003.1	2,651.1	351.94	8.533		
16,500.0	8,575.0	17,616.0	9,898.5	194.2	199.2	-116.96	1,880.8	7,401.6	3,002.8	2,646.0	356.72	8.418		
16,575.4	8,575.0	17,677.0	9,899.2	196.0	200.7	-116.98	1,880.2	7,462.6	3,002.5	2,642.9	359.61	8.349		
16,600.0	8,575.0	17,693.0	9,899.4	196.6	201.1	-116.99	1,880.1	7,478.6	3,002.5	2,642.1	360.46	8.330		
16,700.0	8,575.0	17,763.2	9,901.2	199.1	202.8	-117.02	1,880.0	7,548.7	3,003.4	2,639.4	363.97	8.252		
16,800.0	8,575.0	17,863.3	9,904.3	201.5	205.2	-117.07	1,880.0	7,648.7	3,004.7	2,636.5	368.18	8.161		
16,900.0	8,575.0	17,973.6	9,906.4	203.9	207.9	-117.10	1,880.4	7,759.0	3,005.7	2,633.0	372.72	8.064		
17,000.0	8,575.0	18,068.9	9,906.5	206.3	210.2	-117.10	1,881.5	7,854.3	3,006.7	2,629.8	376.98	7.976		
17,100.0	8,575.0	18,152.8	9,905.4	208.8	212.2	-117.07	1,883.3	7,938.2	3,008.0	2,627.0	381.02	7.895		
17,200.0	8,575.0	18,225.0	9,905.8	211.2	213.9	-117.06	1,885.0	8,010.4	3,010.2	2,625.5	384.64	7.826		
17,300.0	8,575.0	18,445.2	9,909.7	213.6	219.3	-117.14	1,882.9	8,230.5	3,009.2	2,617.4	391.83	7.680		
17,400.0	8,575.0	18,513.0	9,909.7	216.0	220.9	-117.15	1,882.0	8,298.3	3,008.0	2,612.6	395.41	7.607		
17,436.9	8,575.0	18,538.2	9,909.7	216.9	221.5	-117.15	1,881.8	8,323.5	3,007.8	2,611.1	396.73	7.582		
17,500.0	8,575.0	18,563.2	9,910.0	218.5	222.1	-117.16	1,881.9	8,348.5	3,008.2	2,609.7	398.49	7.549		
17,600.0	8,575.0	18,609.0	9,911.4	220.9	223.2	-117.18	1,882.5	8,394.3	3,010.5	2,609.2	401.30	7.502		
17,700.0	8,575.0	18,855.0	9,920.9	223.3	229.2	-117.37	1,879.5	8,640.0	3,011.0	2,602.1	408.84	7.365		
17,800.0	8,575.0	19,000.9	9,921.1	225.8	232.8	-117.41	1,875.1	8,785.9	3,008.3	2,594.2	414.06	7.265		
17,900.0	8,575.0	19,065.5	9,920.2	228.2	234.3	-117.41	1,873.8	8,850.4	3,005.7	2,588.0	417.69	7.196		
18,000.0	8,575.0	19,183.9	9,918.2	230.6	237.2	-117.39	1,872.1	8,968.8	3,003.5	2,581.0	422.51	7.109		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 164-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		
18,100.0	8,575.0	19,267.8	9,917.2	233.0	239.3	-117.39	1,870.4	9,052.7	3,001.1	2,574.5	426.54	7.036		
18,200.0	8,575.0	19,313.7	9,917.2	235.5	240.4	-117.39	1,869.7	9,098.6	2,999.7	2,570.1	429.63	6.982		
18,218.9	8,575.0	19,321.2	9,917.3	235.9	240.6	-117.40	1,869.6	9,106.1	2,999.7	2,569.5	430.17	6.973		
18,300.0	8,575.0	19,375.0	9,918.7	237.9	241.9	-117.42	1,869.8	9,159.9	3,000.5	2,567.6	432.93	6.931		
18,400.0	8,575.0	19,477.7	9,921.1	240.3	244.4	-117.45	1,870.7	9,262.6	3,002.3	2,565.0	437.25	6.866		
18,500.0	8,575.0	19,614.8	9,921.3	242.8	247.7	-117.46	1,870.3	9,399.6	3,001.8	2,559.3	442.53	6.783		
18,550.0	8,575.0	19,652.4	9,921.8	244.0	248.6	-117.47	1,870.0	9,437.2	3,001.7	2,557.4	444.37	6.755		
18,600.0	8,575.0	19,699.8	9,922.8	245.2	249.8	-117.49	1,869.6	9,484.7	3,001.8	2,555.3	446.42	6.724		
18,700.0	8,575.0	19,800.4	9,924.1	247.6	252.2	-117.52	1,869.1	9,585.2	3,001.8	2,551.1	450.71	6.660		
18,800.0	8,575.0	19,890.4	9,925.0	250.1	254.4	-117.54	1,868.9	9,675.2	3,002.0	2,547.2	454.76	6.601		
18,900.0	8,575.0	19,968.6	9,926.9	252.5	256.3	-117.57	1,868.6	9,753.4	3,002.7	2,544.3	458.44	6.550		
19,000.0	8,575.0	19,000.0	9,931.7	255.0	232.7	-117.67	1,867.7	9,881.6	3,003.8	2,564.6	439.27	6.838		
19,100.0	8,575.0	20,203.7	9,935.6	257.4	262.0	-117.75	1,865.3	9,988.3	3,003.4	2,536.0	467.43	6.425		
19,102.4	8,575.0	20,205.0	9,935.6	257.4	262.1	-117.75	1,865.3	9,989.6	3,003.4	2,535.9	467.51	6.424		
19,200.0	8,575.0	20,273.0	9,938.5	259.8	263.7	-117.81	1,864.3	10,057.6	3,004.0	2,533.2	470.79	6.381		
19,300.0	8,575.0	20,366.8	9,941.2	262.3	266.0	-117.86	1,864.3	10,151.3	3,005.2	2,530.4	474.81	6.329		
19,400.0	8,575.0	20,477.7	9,943.0	264.7	268.7	-117.89	1,864.7	10,262.2	3,006.2	2,526.8	479.36	6.271		
19,500.0	8,575.0	20,558.8	9,944.3	267.1	270.7	-117.91	1,864.9	10,343.3	3,007.1	2,524.0	483.13	6.224		
19,600.0	8,575.0	20,619.0	9,945.6	269.6	272.1	-117.92	1,865.8	10,403.4	3,009.3	2,523.0	486.30	6.188		
19,700.0	8,575.0	20,820.3	9,947.5	272.0	277.0	-117.95	1,867.0	10,604.7	3,009.9	2,516.6	493.29	6.102		
19,729.1	8,575.0	20,831.9	9,947.6	272.7	277.3	-117.95	1,867.0	10,616.3	3,009.9	2,515.8	494.12	6.091		
19,800.0	8,575.0	20,874.3	9,947.9	274.5	278.4	-117.95	1,867.1	10,658.7	3,010.2	2,513.8	496.46	6.063		
19,900.0	8,575.0	19,900.0	9,949.3	276.9	254.6	-117.97	1,867.6	10,767.4	3,011.1	2,533.7	477.37	6.308		
20,000.0	8,575.0	21,078.8	9,949.8	279.3	283.3	-117.98	1,867.7	10,863.2	3,011.4	2,506.2	505.19	5.961		
20,100.0	8,575.0	21,220.6	9,949.9	281.8	286.8	-117.98	1,868.3	11,005.0	3,011.7	2,501.1	510.61	5.898		
20,200.0	8,575.0	21,374.3	9,949.4	284.2	290.5	-117.99	1,866.4	11,158.7	3,010.5	2,494.3	516.15	5.833		
20,300.0	8,575.0	21,494.0	9,948.5	286.6	293.5	-118.00	1,863.2	11,278.3	3,007.7	2,486.8	520.86	5.774		
20,400.0	8,575.0	21,576.0	9,947.4	289.1	295.5	-118.00	1,861.3	11,360.3	3,004.9	2,480.0	524.86	5.725		
20,500.0	8,575.0	21,620.5	9,946.8	291.5	296.6	-118.00	1,860.9	11,404.8	3,003.3	2,475.3	528.00	5.688		
20,530.7	8,575.0	21,633.6	9,946.7	292.3	296.9	-118.00	1,860.9	11,417.9	3,003.2	2,474.3	528.91	5.678		
20,600.0	8,575.0	21,672.0	9,946.8	294.0	297.8	-117.99	1,861.2	11,456.3	3,003.7	2,472.6	531.13	5.655		
20,700.0	8,575.0	21,748.3	9,947.7	296.4	299.7	-118.00	1,862.4	11,532.6	3,005.4	2,470.6	534.82	5.619		
20,800.0	8,575.0	21,970.8	9,946.7	298.9	305.1	-117.98	1,863.5	11,755.1	3,006.0	2,463.7	542.32	5.543		
20,900.0	8,575.0	22,048.4	9,944.6	301.3	307.0	-117.94	1,863.1	11,832.6	3,004.1	2,457.8	546.33	5.499		
21,000.0	8,575.0	22,125.9	9,943.3	303.7	308.9	-117.93	1,862.9	11,910.1	3,003.0	2,452.7	550.26	5.457		
21,070.7	8,575.0	22,173.7	9,943.0	305.5	310.0	-117.92	1,862.8	11,957.9	3,002.7	2,449.9	552.81	5.432		
21,100.0	8,575.0	22,194.2	9,943.0	306.2	310.5	-117.92	1,862.9	11,978.4	3,002.7	2,448.9	553.87	5.421		
21,200.0	8,575.0	22,261.0	9,942.8	308.6	312.2	-117.91	1,863.3	12,045.2	3,003.2	2,445.8	557.38	5.388		
21,213.6	8,575.0	22,261.0	9,942.8	309.0	312.2	-117.91	1,863.3	12,045.2	3,003.4	2,445.8	557.59	5.386 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-45.25	29.8	-30.0	42.3					
100.0	100.0	101.0	99.0	0.1	0.1	-45.25	29.8	-30.0	42.3	42.0	0.26	162.720		
200.0	200.0	201.0	199.0	0.5	0.5	-45.25	29.8	-30.0	42.3	41.3	0.98	43.293		
300.0	300.0	301.0	299.0	0.8	0.8	-45.25	29.8	-30.0	42.3	40.6	1.69	24.968		
400.0	400.0	401.0	399.0	1.2	1.2	-45.25	29.8	-30.0	42.3	39.9	2.41	17.542		
500.0	500.0	501.0	499.0	1.6	1.6	-45.25	29.8	-30.0	42.3	39.2	3.13	13.521		
600.0	600.0	601.0	599.0	1.9	1.9	-45.25	29.8	-30.0	42.3	38.4	3.84	11.000		
700.0	700.0	701.0	699.0	2.3	2.3	-45.25	29.8	-30.0	42.3	37.7	4.56	9.271		
800.0	800.0	801.0	799.0	2.6	2.6	-45.25	29.8	-30.0	42.3	37.0	5.28	8.012		
900.0	900.0	901.0	899.0	3.0	3.0	-45.25	29.8	-30.0	42.3	36.3	6.00	7.054		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-45.25	29.8	-30.0	42.3	35.6	6.71	6.300 CC		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	96.87	29.8	-30.0	42.5	35.1	7.41	5.732 ES		
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	105.35	29.8	-30.0	43.8	35.7	8.11	5.398		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	117.88	29.8	-30.0	47.8	39.0	8.81	5.427		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	127.69	29.8	-30.0	53.6	44.3	9.31	5.757		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	131.30	29.8	-30.0	56.5	47.0	9.53	5.929		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	141.48	29.8	-30.0	68.3	58.1	10.21	6.690		
1,600.0	1,595.4	1,593.4	1,593.4	5.5	5.5	147.48	30.6	-31.3	82.2	71.3	10.90	7.538		
1,700.0	1,694.1	1,691.0	1,690.8	5.9	5.8	149.86	33.0	-35.5	97.8	86.2	11.60	8.433		
1,800.0	1,792.7	1,788.3	1,787.8	6.3	6.2	149.99	37.2	-42.5	114.7	102.4	12.30	9.322		
1,900.0	1,891.4	1,885.2	1,884.0	6.7	6.5	148.73	43.1	-52.2	132.7	119.7	13.01	10.199		
2,000.0	1,990.1	1,983.1	1,981.0	7.1	6.9	147.00	50.1	-63.8	151.5	137.8	13.74	11.032		
2,100.0	2,088.8	2,081.2	2,078.1	7.5	7.2	145.63	57.1	-75.5	170.5	156.1	14.48	11.780		
2,200.0	2,187.5	2,179.3	2,175.3	7.9	7.6	144.54	64.1	-87.3	189.6	174.4	15.22	12.455		
2,300.0	2,286.2	2,277.4	2,272.4	8.3	8.0	143.65	71.2	-99.0	208.7	192.7	15.97	13.065		
2,400.0	2,384.9	2,375.5	2,369.6	8.8	8.4	142.91	78.2	-110.7	227.9	211.1	16.73	13.619		
2,500.0	2,483.5	2,473.6	2,466.7	9.2	8.8	142.28	85.2	-122.4	247.1	229.6	17.49	14.123		
2,600.0	2,582.2	2,571.7	2,563.9	9.6	9.1	141.75	92.3	-134.1	266.3	248.0	18.26	14.584		
2,700.0	2,680.9	2,669.8	2,661.0	10.1	9.5	141.28	99.3	-145.8	285.5	266.5	19.03	15.006		
2,800.0	2,779.6	2,767.9	2,758.2	10.5	9.9	140.88	106.3	-157.5	304.7	284.9	19.80	15.393		
2,900.0	2,878.3	2,866.0	2,855.3	10.9	10.3	140.52	113.4	-169.2	324.0	303.4	20.57	15.751		
3,000.0	2,977.0	2,964.1	2,952.5	11.3	10.7	140.20	120.4	-180.9	343.3	321.9	21.35	16.081		
3,100.0	3,075.7	3,062.3	3,049.6	11.8	11.1	139.92	127.4	-192.6	362.6	340.4	22.12	16.387		
3,200.0	3,174.3	3,160.4	3,146.8	12.2	11.5	139.67	134.4	-204.3	381.8	358.9	22.90	16.671		
3,300.0	3,273.0	3,258.5	3,244.0	12.6	11.9	139.44	141.5	-216.0	401.1	377.4	23.69	16.935		
3,400.0	3,371.7	3,356.6	3,341.1	13.1	12.3	139.23	148.5	-227.7	420.4	396.0	24.47	17.182		
3,500.0	3,470.4	3,454.7	3,438.3	13.5	12.7	139.04	155.5	-239.4	439.7	414.5	25.25	17.413		
3,600.0	3,569.1	3,552.8	3,535.4	14.0	13.1	138.86	162.6	-251.1	459.0	433.0	26.04	17.629		
3,700.0	3,667.8	3,650.9	3,632.6	14.4	13.5	138.70	169.6	-262.8	478.4	451.5	26.83	17.832		
3,800.0	3,766.5	3,749.0	3,729.7	14.8	13.9	138.55	176.6	-274.5	497.7	470.1	27.61	18.023		
3,900.0	3,865.1	3,847.1	3,826.9	15.3	14.3	138.42	183.7	-286.2	517.0	488.6	28.40	18.203		
4,000.0	3,963.8	3,945.2	3,924.0	15.7	14.7	138.29	190.7	-297.9	536.3	507.1	29.19	18.373		
4,100.0	4,062.5	4,043.3	4,021.2	16.1	15.1	138.17	197.7	-309.7	555.6	525.7	29.98	18.533		
4,200.0	4,161.2	4,141.5	4,118.3	16.6	15.5	138.06	204.7	-321.4	575.0	544.2	30.77	18.685		
4,300.0	4,259.9	4,239.6	4,215.5	17.0	15.9	137.96	211.8	-333.1	594.3	562.7	31.56	18.829		
4,400.0	4,358.6	4,337.7	4,312.7	17.5	16.3	137.86	218.8	-344.8	613.6	581.3	32.36	18.965		
4,500.0	4,457.3	4,435.8	4,409.8	17.9	16.7	137.77	225.8	-356.5	633.0	599.8	33.15	19.095		
4,600.0	4,555.9	4,533.9	4,507.0	18.3	17.1	137.68	232.9	-368.2	652.3	618.3	33.94	19.218		
4,700.0	4,654.6	4,632.0	4,604.1	18.8	17.5	137.60	239.9	-379.9	671.6	636.9	34.74	19.335		
4,800.0	4,753.3	4,730.1	4,701.3	19.2	17.9	137.53	246.9	-391.6	691.0	655.4	35.53	19.447		
4,900.0	4,852.0	4,828.2	4,798.4	19.7	18.3	137.46	254.0	-403.3	710.3	674.0	36.32	19.554		
5,000.0	4,950.7	4,926.3	4,895.6	20.1	18.7	137.39	261.0	-415.0	729.6	692.5	37.12	19.656		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,024.4	4,992.7	20.6	19.1	137.32	268.0	-426.7	749.0	711.1	37.91	19.754		
5,200.0	5,148.1	5,122.5	5,089.9	21.0	19.5	137.26	275.0	-438.4	768.3	729.6	38.71	19.848		
5,300.0	5,246.7	5,220.7	5,187.0	21.4	20.0	137.20	282.1	-450.1	787.7	748.1	39.51	19.937		
5,400.0	5,345.4	5,318.8	5,284.2	21.9	20.4	137.15	289.1	-461.8	807.0	766.7	40.30	20.023		
5,500.0	5,444.1	5,416.9	5,381.3	22.3	20.8	137.09	296.1	-473.5	826.3	785.2	41.10	20.105		
5,600.0	5,542.8	5,515.0	5,478.5	22.8	21.2	137.04	303.2	-485.2	845.7	803.8	41.90	20.184		
5,700.0	5,641.5	5,613.1	5,575.7	23.2	21.6	137.00	310.2	-496.9	865.0	822.3	42.69	20.260		
5,800.0	5,740.2	5,711.2	5,672.8	23.7	22.0	136.95	317.2	-508.6	884.4	840.9	43.49	20.334		
5,900.0	5,838.9	5,809.3	5,770.0	24.1	22.4	136.91	324.3	-520.3	903.7	859.4	44.29	20.404		
6,000.0	5,937.5	5,907.4	5,867.1	24.5	22.8	136.86	331.3	-532.1	923.1	878.0	45.09	20.472		
6,100.0	6,036.2	6,005.5	5,964.3	25.0	23.2	136.82	338.3	-543.8	942.4	896.5	45.89	20.537		
6,200.0	6,134.9	6,103.6	6,061.4	25.4	23.6	136.78	345.3	-555.5	961.7	915.1	46.69	20.600		
6,300.0	6,233.6	6,201.7	6,158.6	25.9	24.0	136.75	352.4	-567.2	981.1	933.6	47.48	20.661		
6,400.0	6,332.3	6,300.1	6,255.7	26.3	24.4	136.71	359.4	-578.9	1,000.4	952.1	48.29	20.719		
6,500.0	6,431.0	6,402.0	6,352.9	26.8	24.9	136.68	366.4	-590.6	1,019.8	970.7	49.10	20.770		
6,600.0	6,529.6	6,503.9	6,450.0	27.2	25.3	136.64	373.5	-602.3	1,039.1	989.2	49.91	20.818		
6,700.0	6,628.3	6,605.8	6,547.2	27.6	25.7	136.61	380.5	-614.0	1,058.5	1,007.7	50.73	20.865		
6,800.0	6,727.0	6,707.7	6,644.4	28.1	26.1	136.58	387.5	-625.7	1,077.8	1,026.3	51.54	20.911		
6,900.0	6,825.7	6,809.6	6,741.5	28.5	26.6	136.55	394.6	-637.4	1,097.2	1,044.8	52.36	20.954		
7,000.0	6,924.4	6,888.5	6,838.7	29.0	26.9	136.52	401.6	-649.1	1,116.5	1,063.4	53.08	21.034		
7,100.0	7,023.1	6,986.6	6,935.8	29.4	27.3	136.49	408.6	-660.8	1,135.9	1,082.0	53.88	21.081		
7,200.0	7,121.8	7,084.7	7,033.0	29.9	27.7	136.47	415.6	-672.5	1,155.2	1,100.5	54.68	21.126		
7,300.0	7,220.4	7,182.8	7,130.1	30.3	28.1	136.44	422.7	-684.2	1,174.6	1,119.1	55.48	21.170		
7,400.0	7,319.1	7,302.5	7,248.9	30.7	28.6	136.47	430.4	-697.2	1,193.3	1,136.8	56.45	21.139		
7,466.5	7,384.7	7,387.4	7,333.3	31.0	28.9	136.62	434.5	-703.8	1,204.4	1,147.3	57.09	21.095		
7,500.0	7,417.8	7,430.3	7,376.2	31.2	29.1	136.77	436.0	-706.4	1,209.5	1,152.1	57.41	21.069		
7,600.0	7,516.9	7,558.9	7,504.6	31.6	29.6	137.28	438.6	-710.7	1,221.9	1,163.7	58.29	20.963		
7,700.0	7,616.2	7,669.5	7,615.2	32.0	29.9	137.75	438.8	-711.1	1,230.6	1,171.5	59.04	20.844		
7,800.0	7,715.8	7,769.1	7,714.8	32.4	30.2	138.09	438.8	-711.1	1,237.1	1,177.4	59.72	20.715		
7,900.0	7,815.6	7,868.9	7,814.6	32.8	30.6	138.33	438.8	-711.1	1,241.7	1,181.3	60.39	20.561		
8,000.0	7,915.5	7,968.8	7,914.5	33.1	30.9	138.47	438.8	-711.1	1,244.4	1,183.3	61.06	20.381		
8,086.5	8,002.0	8,055.3	8,001.0	33.3	31.2	-0.68	438.8	-711.1	1,245.1	1,183.5	61.62	20.208		
8,100.0	8,015.5	8,068.8	8,014.5	33.4	31.2	-90.49	438.8	-711.1	1,245.1	1,183.4	61.70	20.180		
8,150.0	8,065.4	8,118.7	8,064.4	33.5	31.4	-90.64	438.8	-711.1	1,245.2	1,183.1	62.00	20.082		
8,200.0	8,114.8	8,168.1	8,113.8	33.6	31.5	-90.98	438.8	-711.1	1,245.3	1,183.0	62.29	19.990		
8,250.0	8,163.3	8,216.6	8,162.3	33.7	31.7	-91.49	438.8	-711.1	1,245.5	1,183.0	62.57	19.907		
8,300.0	8,210.6	8,263.9	8,209.6	33.8	31.8	-92.14	438.8	-711.1	1,246.1	1,183.2	62.83	19.833		
8,350.0	8,256.3	8,309.6	8,255.3	33.8	32.0	-92.89	438.8	-711.1	1,247.0	1,184.0	63.07	19.772		
8,400.0	8,300.1	8,353.4	8,299.1	33.9	32.1	-93.70	438.8	-711.1	1,248.6	1,185.3	63.30	19.726		
8,450.0	8,341.6	8,405.1	8,340.6	33.9	32.3	-94.51	438.8	-711.1	1,251.0	1,187.5	63.55	19.687		
8,500.0	8,380.6	8,433.8	8,379.6	33.9	32.4	-95.28	438.8	-711.1	1,254.5	1,190.8	63.71	19.690		
8,550.0	8,416.6	8,469.9	8,415.6	33.9	32.5	-95.95	438.8	-711.1	1,259.2	1,195.3	63.90	19.706		
8,600.0	8,449.5	8,502.7	8,448.5	33.9	32.6	-96.46	438.8	-711.1	1,265.4	1,201.3	64.07	19.748		
8,650.0	8,479.0	8,532.2	8,478.0	33.9	32.7	-96.75	438.8	-711.1	1,273.2	1,208.9	64.24	19.818		
8,700.0	8,504.8	8,558.1	8,503.8	33.9	32.8	-96.78	438.8	-711.1	1,282.8	1,218.4	64.40	19.918		
8,750.0	8,526.9	8,580.1	8,525.9	33.8	32.9	-96.50	438.8	-711.1	1,294.3	1,229.8	64.56	20.049		
8,800.0	8,544.9	8,601.9	8,543.9	33.8	32.9	-95.87	438.8	-711.1	1,307.8	1,243.1	64.72	20.208		
8,850.0	8,558.8	8,612.0	8,557.8	33.8	33.0	-94.86	438.8	-711.1	1,323.3	1,258.5	64.84	20.408		
8,900.0	8,568.4	8,621.7	8,567.4	33.7	33.0	-93.44	438.8	-711.1	1,340.7	1,275.8	64.97	20.636		
8,950.0	8,573.8	8,627.0	8,572.8	33.7	33.0	-91.60	438.8	-711.1	1,360.0	1,294.9	65.08	20.896		
8,986.5	8,575.0	8,628.2	8,574.0	33.7	33.0	-90.00	438.8	-711.1	1,375.0	1,309.9	65.16	21.104		
8,993.2	8,575.0	8,628.2	8,574.0	33.8	33.0	-90.00	438.8	-711.1	1,377.9	1,312.7	65.17	21.144		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #205H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.0	8,575.0	8,628.2	8,574.0	33.8	33.0	-90.00	438.8	-711.1	1,380.8	1,315.7	65.18	21.185		
9,100.0	8,575.0	8,628.2	8,574.0	33.9	33.0	-90.00	438.8	-711.1	1,427.1	1,361.7	65.39	21.824		
9,200.0	8,575.0	8,628.2	8,574.0	34.4	33.0	-90.00	438.8	-711.1	1,478.7	1,413.1	65.64	22.528		
9,300.0	8,575.0	8,628.2	8,574.0	35.3	33.0	-90.00	438.8	-711.1	1,535.1	1,469.2	65.91	23.292		
9,400.0	8,575.0	8,628.2	8,574.0	36.3	33.0	-90.00	438.8	-711.1	1,595.8	1,529.6	66.19	24.111		
9,500.0	8,575.0	8,628.2	8,574.0	37.6	33.0	-90.00	438.8	-711.1	1,660.3	1,593.9	66.46	24.980		
9,600.0	8,575.0	8,628.2	8,574.0	38.9	33.0	-90.00	438.8	-711.1	1,728.2	1,661.4	66.74	25.895		
9,700.0	8,575.0	8,628.2	8,574.0	40.4	33.0	-90.00	438.8	-711.1	1,799.1	1,732.1	67.00	26.850		
9,800.0	8,575.0	11,040.0	9,853.3	41.9	45.5	-134.12	515.8	673.3	1,837.7	1,770.6	67.10	27.387		
9,900.0	8,575.0	11,140.0	9,854.5	43.6	47.0	-134.15	515.9	773.3	1,838.5	1,769.0	69.45	26.474		
10,000.0	8,575.0	11,240.0	9,855.7	45.3	48.6	-134.18	516.1	873.3	1,839.3	1,767.4	71.90	25.581		
10,100.0	8,575.0	11,340.0	9,856.9	47.0	50.3	-134.20	516.2	973.3	1,840.2	1,765.7	74.46	24.715		
10,200.0	8,575.0	11,440.0	9,858.1	48.9	52.0	-134.23	516.3	1,073.3	1,841.0	1,763.9	77.10	23.879		
10,300.0	8,575.0	11,540.0	9,859.3	50.8	53.8	-134.26	516.4	1,173.3	1,841.9	1,762.0	79.82	23.075		
10,400.0	8,575.0	11,640.0	9,860.5	52.7	55.6	-134.28	516.5	1,273.2	1,842.7	1,760.1	82.61	22.306		
10,500.0	8,575.0	11,740.0	9,861.7	54.7	57.5	-134.31	516.7	1,373.2	1,843.5	1,758.1	85.46	21.571		
10,600.0	8,575.0	11,840.0	9,862.9	56.7	59.4	-134.34	516.8	1,473.2	1,844.4	1,756.0	88.38	20.870		
10,700.0	8,575.0	11,940.0	9,864.1	58.7	61.4	-134.36	516.9	1,573.2	1,845.2	1,753.9	91.34	20.202		
10,800.0	8,575.0	12,040.0	9,865.3	60.8	63.4	-134.39	517.0	1,673.2	1,846.1	1,751.7	94.34	19.567		
10,900.0	8,575.0	12,140.0	9,866.5	62.9	65.4	-134.42	517.1	1,773.2	1,846.9	1,749.5	97.39	18.963		
11,000.0	8,575.0	12,240.0	9,867.7	65.0	67.4	-134.44	517.3	1,873.1	1,847.8	1,747.3	100.48	18.389		
11,100.0	8,575.0	12,340.0	9,868.9	67.1	69.5	-134.47	517.4	1,973.1	1,848.6	1,745.0	103.60	17.844		
11,200.0	8,575.0	12,439.9	9,870.1	69.3	71.6	-134.50	517.5	2,073.1	1,849.5	1,742.7	106.75	17.325		
11,300.0	8,575.0	12,539.9	9,871.3	71.5	73.7	-134.52	517.6	2,173.1	1,850.3	1,740.4	109.93	16.832		
11,400.0	8,575.0	12,639.9	9,872.5	73.7	75.9	-134.55	517.7	2,273.1	1,851.1	1,738.0	113.13	16.363		
11,500.0	8,575.0	12,739.9	9,873.7	75.9	78.0	-134.57	517.9	2,373.1	1,852.0	1,735.6	116.36	15.917		
11,600.0	8,575.0	12,839.9	9,874.9	78.2	80.2	-134.60	518.0	2,473.1	1,852.8	1,733.2	119.60	15.492		
11,700.0	8,575.0	12,939.9	9,876.1	80.4	82.4	-134.63	518.1	2,573.0	1,853.7	1,730.8	122.87	15.087		
11,800.0	8,575.0	13,039.9	9,877.3	82.7	84.6	-134.65	518.2	2,673.0	1,854.5	1,728.4	126.15	14.701		
11,900.0	8,575.0	13,139.9	9,878.5	84.9	86.9	-134.68	518.4	2,773.0	1,855.4	1,725.9	129.45	14.333		
12,000.0	8,575.0	13,239.9	9,879.7	87.2	89.1	-134.71	518.5	2,873.0	1,856.2	1,723.5	132.76	13.982		
12,100.0	8,575.0	13,339.9	9,880.9	89.5	91.3	-134.73	518.6	2,973.0	1,857.1	1,721.0	136.08	13.647		
12,200.0	8,575.0	13,439.9	9,882.1	91.8	93.6	-134.76	518.7	3,073.0	1,857.9	1,718.5	139.42	13.326		
12,300.0	8,575.0	13,539.9	9,883.3	94.1	95.9	-134.78	518.8	3,173.0	1,858.8	1,716.0	142.76	13.020		
12,400.0	8,575.0	13,639.9	9,884.5	96.4	98.1	-134.81	519.0	3,272.9	1,859.6	1,713.5	146.12	12.727		
12,500.0	8,575.0	13,739.8	9,885.7	98.7	100.4	-134.84	519.1	3,372.9	1,860.5	1,711.0	149.49	12.446		
12,600.0	8,575.0	13,839.8	9,886.9	101.0	102.7	-134.86	519.2	3,472.9	1,861.3	1,708.5	152.86	12.177		
12,700.0	8,575.0	13,939.8	9,888.1	103.4	105.0	-134.89	519.3	3,572.9	1,862.2	1,705.9	156.24	11.919		
12,800.0	8,575.0	14,039.8	9,889.3	105.7	107.3	-134.91	519.4	3,672.9	1,863.0	1,703.4	159.63	11.671		
12,900.0	8,575.0	14,139.8	9,890.5	108.0	109.6	-134.94	519.6	3,772.9	1,863.9	1,700.9	163.02	11.433		
13,000.0	8,575.0	14,239.8	9,891.7	110.4	111.9	-134.97	519.7	3,872.9	1,864.7	1,698.3	166.42	11.205		
13,100.0	8,575.0	14,339.8	9,892.9	112.7	114.3	-134.99	519.8	3,972.8	1,865.6	1,695.8	169.83	10.985		
13,200.0	8,575.0	14,439.8	9,894.1	115.1	116.6	-135.02	519.9	4,072.8	1,866.4	1,693.2	173.24	10.774		
13,300.0	8,575.0	14,539.8	9,895.3	117.5	118.9	-135.04	520.0	4,172.8	1,867.3	1,690.6	176.65	10.571		
13,400.0	8,575.0	14,639.8	9,896.5	119.8	121.3	-135.07	520.2	4,272.8	1,868.2	1,688.1	180.07	10.375		
13,500.0	8,575.0	14,739.8	9,897.7	122.2	123.6	-135.10	520.3	4,372.8	1,869.0	1,685.5	183.49	10.186		
13,600.0	8,575.0	14,839.8	9,898.9	124.6	126.0	-135.12	520.4	4,472.8	1,869.9	1,682.9	186.91	10.004		
13,700.0	8,575.0	14,939.8	9,900.1	126.9	128.3	-135.15	520.5	4,572.8	1,870.7	1,680.4	190.34	9.828		
13,800.0	8,575.0	15,039.8	9,901.3	129.3	130.7	-135.17	520.6	4,672.7	1,871.6	1,677.8	193.77	9.659		
13,900.0	8,575.0	15,139.7	9,902.5	131.7	133.0	-135.20	520.8	4,772.7	1,872.4	1,675.2	197.20	9.495		
14,000.0	8,575.0	15,239.7	9,903.7	134.1	135.4	-135.22	520.9	4,872.7	1,873.3	1,672.6	200.64	9.337		
14,100.0	8,575.0	15,339.7	9,904.9	136.4	137.8	-135.25	521.0	4,972.7	1,874.1	1,670.1	204.07	9.184		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	8,575.0	15,439.7	9,906.1	138.8	140.1	-135.28	521.1	5,072.7	1,875.0	1,667.5	207.51	9.036		
14,300.0	8,575.0	15,539.7	9,907.3	141.2	142.5	-135.30	521.3	5,172.7	1,875.9	1,664.9	210.95	8.893		
14,400.0	8,575.0	15,639.7	9,908.5	143.6	144.9	-135.33	521.4	5,272.7	1,876.7	1,662.3	214.39	8.754		
14,500.0	8,575.0	15,739.7	9,909.7	146.0	147.3	-135.35	521.5	5,372.6	1,877.6	1,659.7	217.83	8.620		
14,600.0	8,575.0	15,839.7	9,910.9	148.4	149.6	-135.38	521.6	5,472.6	1,878.4	1,657.2	221.27	8.489		
14,700.0	8,575.0	15,939.7	9,912.1	150.8	152.0	-135.40	521.7	5,572.6	1,879.3	1,654.6	224.71	8.363		
14,800.0	8,575.0	16,039.7	9,913.3	153.2	154.4	-135.43	521.9	5,672.6	1,880.1	1,652.0	228.15	8.241		
14,900.0	8,575.0	16,139.7	9,914.5	155.6	156.8	-135.46	522.0	5,772.6	1,881.0	1,649.4	231.59	8.122		
15,000.0	8,575.0	16,239.7	9,915.7	158.0	159.2	-135.48	522.1	5,872.6	1,881.9	1,646.8	235.04	8.007		
15,100.0	8,575.0	16,339.7	9,916.9	160.4	161.6	-135.51	522.2	5,972.6	1,882.7	1,644.2	238.48	7.895		
15,200.0	8,575.0	16,439.7	9,918.1	162.8	164.0	-135.53	522.3	6,072.5	1,883.6	1,641.7	241.92	7.786		
15,300.0	8,575.0	16,539.6	9,919.3	165.2	166.4	-135.56	522.5	6,172.5	1,884.4	1,639.1	245.37	7.680		
15,400.0	8,575.0	16,639.6	9,920.5	167.6	168.8	-135.58	522.6	6,272.5	1,885.3	1,636.5	248.81	7.577		
15,500.0	8,575.0	16,739.6	9,921.7	170.0	171.2	-135.61	522.7	6,372.5	1,886.2	1,633.9	252.25	7.477		
15,600.0	8,575.0	16,839.6	9,922.9	172.5	173.6	-135.63	522.8	6,472.5	1,887.0	1,631.3	255.69	7.380		
15,700.0	8,575.0	16,939.6	9,924.1	174.9	176.0	-135.66	522.9	6,572.5	1,887.9	1,628.8	259.13	7.285		
15,800.0	8,575.0	17,039.6	9,925.3	177.3	178.4	-135.68	523.1	6,672.5	1,888.8	1,626.2	262.58	7.193		
15,900.0	8,575.0	17,139.6	9,926.5	179.7	180.8	-135.71	523.2	6,772.4	1,889.6	1,623.6	266.02	7.103		
16,000.0	8,575.0	17,239.6	9,927.7	182.1	183.2	-135.73	523.3	6,872.4	1,890.5	1,621.0	269.45	7.016		
16,100.0	8,575.0	17,339.6	9,928.9	184.5	185.6	-135.76	523.4	6,972.4	1,891.3	1,618.5	272.89	6.931		
16,200.0	8,575.0	17,439.6	9,930.1	187.0	188.0	-135.79	523.6	7,072.4	1,892.2	1,615.9	276.33	6.848		
16,300.0	8,575.0	17,539.6	9,931.3	189.4	190.4	-135.81	523.7	7,172.4	1,893.1	1,613.3	279.77	6.767		
16,400.0	8,575.0	17,639.6	9,932.5	191.8	192.8	-135.84	523.8	7,272.4	1,893.9	1,610.7	283.20	6.688		
16,500.0	8,575.0	17,739.6	9,933.7	194.2	195.2	-135.86	523.9	7,372.4	1,894.8	1,608.2	286.64	6.610		
16,600.0	8,575.0	17,839.6	9,934.9	196.6	197.6	-135.89	524.0	7,472.3	1,895.7	1,605.6	290.07	6.535		
16,700.0	8,575.0	17,939.5	9,936.1	199.1	200.0	-135.91	524.2	7,572.3	1,896.5	1,603.0	293.50	6.462		
16,800.0	8,575.0	18,039.5	9,937.3	201.5	202.5	-135.94	524.3	7,672.3	1,897.4	1,600.5	296.93	6.390		
16,900.0	8,575.0	18,139.5	9,938.5	203.9	204.9	-135.96	524.4	7,772.3	1,898.3	1,597.9	300.36	6.320		
17,000.0	8,575.0	18,239.5	9,939.7	206.3	207.3	-135.99	524.5	7,872.3	1,899.1	1,595.3	303.79	6.251		
17,100.0	8,575.0	18,339.5	9,940.9	208.8	209.7	-136.01	524.6	7,972.3	1,900.0	1,592.8	307.22	6.185		
17,200.0	8,575.0	18,439.5	9,942.1	211.2	212.1	-136.04	524.8	8,072.3	1,900.9	1,590.2	310.65	6.119		
17,300.0	8,575.0	18,539.5	9,943.3	213.6	214.5	-136.06	524.9	8,172.2	1,901.7	1,587.7	314.07	6.055		
17,400.0	8,575.0	18,639.5	9,944.5	216.0	217.0	-136.09	525.0	8,272.2	1,902.6	1,585.1	317.49	5.993		
17,500.0	8,575.0	18,739.5	9,945.7	218.5	219.4	-136.11	525.1	8,372.2	1,903.5	1,582.6	320.92	5.931		
17,600.0	8,575.0	18,839.5	9,946.9	220.9	221.8	-136.14	525.2	8,472.2	1,904.4	1,580.0	324.34	5.872		
17,700.0	8,575.0	18,939.5	9,948.1	223.3	224.2	-136.16	525.4	8,572.2	1,905.2	1,577.5	327.75	5.813		
17,800.0	8,575.0	19,039.5	9,949.3	225.8	226.7	-136.19	525.5	8,672.2	1,906.1	1,574.9	331.17	5.756		
17,900.0	8,575.0	19,139.5	9,950.5	228.2	229.1	-136.21	525.6	8,772.1	1,907.0	1,572.4	334.59	5.699		
18,000.0	8,575.0	19,239.5	9,951.7	230.6	231.5	-136.24	525.7	8,872.1	1,907.8	1,569.8	338.00	5.644		
18,100.0	8,575.0	19,339.4	9,952.9	233.0	233.9	-136.26	525.9	8,972.1	1,908.7	1,567.3	341.41	5.591		
18,200.0	8,575.0	19,439.4	9,954.1	235.5	236.4	-136.28	526.0	9,072.1	1,909.6	1,564.8	344.82	5.538		
18,300.0	8,575.0	19,539.4	9,955.3	237.9	238.8	-136.31	526.1	9,172.1	1,910.4	1,562.2	348.23	5.486		
18,400.0	8,575.0	19,639.4	9,956.5	240.3	241.2	-136.33	526.2	9,272.1	1,911.3	1,559.7	351.64	5.436		
18,500.0	8,575.0	19,739.4	9,957.7	242.8	243.6	-136.36	526.3	9,372.1	1,912.2	1,557.2	355.04	5.386		
18,600.0	8,575.0	19,839.4	9,958.9	245.2	246.1	-136.38	526.5	9,472.0	1,913.1	1,554.6	358.44	5.337		
18,700.0	8,575.0	19,939.4	9,960.2	247.6	248.5	-136.41	526.6	9,572.0	1,913.9	1,552.1	361.85	5.289		
18,800.0	8,575.0	20,039.4	9,961.4	250.1	250.9	-136.43	526.7	9,672.0	1,914.8	1,549.6	365.24	5.243		
18,900.0	8,575.0	20,139.4	9,962.6	252.5	253.4	-136.46	526.8	9,772.0	1,915.7	1,547.0	368.64	5.197		
19,000.0	8,575.0	20,239.4	9,963.8	255.0	255.8	-136.48	526.9	9,872.0	1,916.6	1,544.5	372.04	5.152		
19,100.0	8,575.0	20,339.4	9,965.0	257.4	258.2	-136.51	527.1	9,972.0	1,917.4	1,542.0	375.43	5.107		
19,200.0	8,575.0	20,439.4	9,966.2	259.8	260.6	-136.53	527.2	10,072.0	1,918.3	1,539.5	378.82	5.064		
19,300.0	8,575.0	20,539.4	9,967.4	262.3	263.1	-136.56	527.3	10,171.9	1,919.2	1,537.0	382.21	5.021		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #205H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	8,575.0	20,639.4	9,968.6	264.7	265.5	-136.58	527.4	10,271.9	1,920.1	1,534.5	385.60	4.979	
19,500.0	8,575.0	20,739.3	9,969.8	267.1	267.9	-136.60	527.5	10,371.9	1,920.9	1,532.0	388.99	4.938	
19,600.0	8,575.0	20,839.3	9,971.0	269.6	270.4	-136.63	527.7	10,471.9	1,921.8	1,529.4	392.37	4.898	
19,700.0	8,575.0	20,939.3	9,972.2	272.0	272.8	-136.65	527.8	10,571.9	1,922.7	1,526.9	395.76	4.858	
19,800.0	8,575.0	21,039.3	9,973.4	274.5	275.2	-136.68	527.9	10,671.9	1,923.6	1,524.4	399.14	4.819	
19,900.0	8,575.0	21,139.3	9,974.6	276.9	277.7	-136.70	528.0	10,771.9	1,924.4	1,521.9	402.51	4.781	
20,000.0	8,575.0	21,239.3	9,975.8	279.3	280.1	-136.73	528.2	10,871.8	1,925.3	1,519.4	405.89	4.743	
20,100.0	8,575.0	21,339.3	9,977.0	281.8	282.5	-136.75	528.3	10,971.8	1,926.2	1,516.9	409.27	4.706	
20,200.0	8,575.0	21,439.3	9,978.2	284.2	285.0	-136.78	528.4	11,071.8	1,927.1	1,514.4	412.64	4.670	
20,300.0	8,575.0	21,539.3	9,979.4	286.6	287.4	-136.80	528.5	11,171.8	1,928.0	1,512.0	416.01	4.634	
20,400.0	8,575.0	21,639.3	9,980.6	289.1	289.9	-136.82	528.6	11,271.8	1,928.8	1,509.5	419.38	4.599	
20,500.0	8,575.0	21,739.3	9,981.8	291.5	292.3	-136.85	528.8	11,371.8	1,929.7	1,507.0	422.74	4.565	
20,600.0	8,575.0	21,839.3	9,983.0	294.0	294.7	-136.87	528.9	11,471.8	1,930.6	1,504.5	426.11	4.531	
20,700.0	8,575.0	21,939.3	9,984.2	296.4	297.2	-136.90	529.0	11,571.7	1,931.5	1,502.0	429.47	4.497	
20,800.0	8,575.0	22,039.3	9,985.4	298.9	299.6	-136.92	529.1	11,671.7	1,932.4	1,499.5	432.83	4.464	
20,900.0	8,575.0	22,139.2	9,986.6	301.3	302.0	-136.94	529.2	11,771.7	1,933.2	1,497.1	436.19	4.432	
21,000.0	8,575.0	22,239.2	9,987.8	303.7	304.5	-136.97	529.4	11,871.7	1,934.1	1,494.6	439.54	4.400	
21,100.0	8,575.0	22,339.2	9,989.0	306.2	306.9	-136.99	529.5	11,971.7	1,935.0	1,492.1	442.90	4.369	
21,200.0	8,575.0	22,439.2	9,990.2	308.6	309.3	-137.02	529.6	12,071.7	1,935.9	1,489.6	446.25	4.338	
21,213.6	8,575.0	22,452.8	9,990.3	309.0	309.7	-137.02	529.6	12,085.2	1,936.0	1,489.3	446.70	4.334 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 176-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	-90.44	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.2	-90.62	-0.3	-30.0	30.0	29.7	0.28	107.802	
190.9	190.9	191.0	190.9	0.5	0.3	-91.12	-0.6	-30.0	30.0	29.2	0.74	40.448	
200.0	200.0	200.0	200.0	0.5	0.4	-91.19	-0.6	-30.0	30.0	29.1	0.84	35.817	
300.0	300.0	299.8	299.8	0.8	0.7	-92.10	-1.1	-30.3	30.4	28.8	1.55	19.576	
400.0	400.0	399.5	399.5	1.2	1.1	-93.18	-1.7	-31.4	31.5	29.2	2.27	13.905	
500.0	500.0	498.6	498.5	1.6	1.4	-94.28	-2.6	-34.4	34.5	31.5	2.99	11.558	
600.0	600.0	597.8	597.6	1.9	1.8	-94.93	-3.4	-39.6	39.9	36.2	3.70	10.761	
700.0	700.0	697.3	696.9	2.3	2.1	-95.67	-4.6	-46.0	46.3	41.9	4.42	10.492	
800.0	800.0	797.1	796.4	2.6	2.5	-96.08	-5.6	-52.7	53.1	48.0	5.13	10.354	
900.0	900.0	896.6	895.7	3.0	2.9	-96.26	-6.5	-59.4	59.9	54.1	5.84	10.264	
1,000.0	1,000.0	995.8	994.7	3.4	3.2	-97.82	-9.2	-66.6	67.5	60.9	6.55	10.293	
1,100.0	1,100.0	1,095.6	1,094.0	3.7	3.6	38.98	-14.6	-73.9	73.9	66.6	7.25	10.187	
1,200.0	1,199.7	1,195.5	1,193.5	4.0	4.0	39.15	-19.8	-81.2	76.9	68.9	7.95	9.674	
1,300.0	1,299.1	1,296.7	1,294.3	4.4	4.4	41.62	-24.7	-87.9	75.9	67.2	8.66	8.767	
1,372.0	1,370.4	1,369.7	1,367.2	4.6	4.7	44.62	-28.6	-91.4	72.1	62.9	9.18	7.850	
1,400.0	1,398.0	1,398.1	1,395.5	4.7	4.8	45.98	-30.3	-92.5	70.0	60.6	9.38	7.457	
1,500.0	1,496.7	1,497.7	1,494.8	5.1	5.1	51.42	-36.2	-95.7	62.6	52.4	10.12	6.181	
1,600.0	1,595.4	1,597.2	1,594.2	5.5	5.5	58.33	-42.0	-98.8	55.7	44.8	10.88	5.119	
1,700.0	1,694.1	1,696.8	1,693.5	5.9	5.9	67.03	-47.8	-101.8	49.8	38.2	11.67	4.271	
1,800.0	1,792.7	1,796.4	1,792.9	6.3	6.2	76.52	-54.5	-105.1	45.2	32.7	12.47	3.624	
1,900.0	1,891.4	1,896.7	1,892.6	6.7	6.6	84.07	-64.2	-109.2	40.9	27.7	13.27	3.084	
2,000.0	1,990.1	1,997.4	1,992.3	7.1	7.0	88.35	-77.6	-113.7	35.4	21.3	14.07	2.516	
2,100.0	2,088.8	2,097.3	2,090.8	7.5	7.4	90.04	-93.6	-118.2	28.4	13.5	14.88	1.907	
2,200.0	2,187.5	2,196.9	2,189.2	7.9	7.8	96.40	-108.4	-122.0	21.6	5.9	15.69	1.378 Level 3	
2,300.0	2,286.2	2,296.1	2,287.8	8.3	8.2	121.16	-119.9	-123.2	17.4	1.1	16.30	1.067 Level 2	
2,306.6	2,292.7	2,302.7	2,294.3	8.4	8.2	123.64	-120.5	-123.1	17.4	1.1	16.32	1.064 Level 2, CC, ES, SF	
2,400.0	2,384.9	2,394.3	2,385.7	8.8	8.5	156.69	-126.8	-121.3	22.9	6.3	16.58	1.379 Level 3	
2,500.0	2,483.5	2,491.3	2,482.5	9.2	8.9	174.45	-129.6	-116.7	38.3	21.2	17.09	2.240	
2,600.0	2,582.2	2,588.0	2,579.0	9.6	9.2	-179.76	-128.7	-110.9	58.8	41.1	17.71	3.318	
2,700.0	2,680.9	2,686.1	2,677.0	10.1	9.4	-179.20	-125.4	-106.8	80.1	61.7	18.40	4.354	
2,800.0	2,779.6	2,784.8	2,775.5	10.5	9.7	179.74	-121.2	-105.2	100.5	81.4	19.10	5.263	
2,900.0	2,878.3	2,882.5	2,873.2	10.9	10.1	179.22	-117.3	-103.5	120.8	101.0	19.78	6.106	
3,000.0	2,977.0	2,980.6	2,971.2	11.3	10.4	179.06	-113.8	-101.3	141.0	120.6	20.46	6.892	
3,100.0	3,075.7	3,079.0	3,069.6	11.8	10.7	179.04	-110.6	-99.0	161.1	139.9	21.16	7.612	
3,200.0	3,174.3	3,177.5	3,168.0	12.2	11.0	179.01	-107.6	-97.0	180.8	159.0	21.86	8.272	
3,300.0	3,273.0	3,276.5	3,266.9	12.6	11.3	179.11	-105.1	-94.8	200.3	177.7	22.57	8.874	
3,400.0	3,371.7	3,376.0	3,366.4	13.1	11.6	179.22	-103.2	-92.9	219.1	195.8	23.28	9.412	
3,500.0	3,470.4	3,474.9	3,465.2	13.5	12.0	179.37	-101.7	-91.2	237.5	213.5	23.99	9.900	
3,600.0	3,569.1	3,574.7	3,565.0	14.0	12.3	179.46	-100.3	-89.8	255.6	230.9	24.71	10.345	
3,700.0	3,667.8	3,673.6	3,663.9	14.4	12.6	179.52	-99.3	-88.7	273.2	247.8	25.42	10.748	
3,800.0	3,766.5	3,774.0	3,764.3	14.8	13.0	179.61	-98.6	-87.8	290.5	264.3	26.14	11.111	
3,900.0	3,865.1	3,873.8	3,864.1	15.3	13.3	179.63	-98.3	-87.5	307.1	280.3	26.86	11.433	
4,000.0	3,963.8	3,971.0	3,961.2	15.7	13.6	179.61	-97.7	-87.2	323.9	296.3	27.56	11.753	
4,100.0	4,062.5	4,069.1	4,059.3	16.1	14.0	179.56	-96.8	-87.0	340.9	312.6	28.26	12.062	
4,200.0	4,161.2	4,183.2	4,173.5	16.6	14.4	179.49	-97.3	-88.2	356.0	326.9	29.10	12.234	
4,300.0	4,259.9	4,297.8	4,287.8	17.0	14.8	179.50	-102.7	-92.9	365.9	336.0	29.90	12.238	
4,400.0	4,358.6	4,401.7	4,391.4	17.5	15.2	179.55	-108.9	-97.9	374.5	343.9	30.64	12.223	
4,500.0	4,457.3	4,515.5	4,504.6	17.9	15.6	179.78	-119.1	-104.8	379.9	348.6	31.38	12.107	
4,600.0	4,555.9	4,631.9	4,619.7	18.3	16.0	179.71	-131.5	-116.1	381.7	349.6	32.08	11.899	
4,700.0	4,654.6	4,743.2	4,729.1	18.8	16.5	179.36	-145.4	-131.1	379.6	346.8	32.75	11.590	
4,800.0	4,753.3	4,847.3	4,831.1	19.2	16.9	179.01	-159.9	-146.6	375.4	342.0	33.45	11.223	

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-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	4,852.0	4,945.9	4,927.5	19.7	17.3	178.73	-174.2	-161.2	370.9	336.7	34.20	10.846		
5,000.0	4,950.7	5,040.6	5,020.4	20.1	17.7	178.51	-187.5	-174.5	367.3	332.3	34.97	10.504		
5,100.0	5,049.4	5,139.8	5,117.9	20.6	18.1	178.32	-200.4	-187.2	365.2	329.5	35.71	10.228		
5,200.0	5,148.1	5,255.1	5,230.5	21.0	18.6	178.31	-219.0	-203.1	360.0	323.7	36.32	9.911		
5,300.0	5,246.7	5,355.8	5,328.4	21.4	19.0	178.39	-237.3	-218.0	352.6	315.5	37.05	9.517		
5,400.0	5,345.4	5,450.5	5,420.7	21.9	19.4	178.47	-253.9	-231.4	346.1	308.2	37.84	9.146		
5,500.0	5,444.1	5,545.3	5,513.3	22.3	19.9	178.60	-269.5	-243.7	341.2	302.5	38.62	8.833		
5,600.0	5,542.8	5,649.1	5,614.9	22.8	20.3	178.75	-286.2	-256.8	336.9	297.6	39.33	8.566		
5,700.0	5,641.5	5,755.2	5,718.4	23.2	20.8	178.92	-304.9	-271.5	330.5	290.5	40.00	8.261		
5,800.0	5,740.2	5,854.6	5,815.0	23.7	21.2	178.91	-322.5	-286.6	323.1	282.4	40.75	7.930		
5,900.0	5,838.9	5,952.6	5,910.3	24.1	21.7	178.57	-338.4	-302.6	316.3	274.8	41.52	7.618		
6,000.0	5,937.5	6,048.1	6,003.5	24.5	22.1	178.16	-352.9	-317.9	310.4	268.1	42.31	7.336		
6,100.0	6,036.2	6,161.3	6,113.5	25.0	22.6	177.51	-370.9	-337.6	303.2	260.3	42.87	7.072		
6,200.0	6,134.9	6,258.5	6,207.5	25.4	23.1	176.73	-387.1	-356.3	294.1	250.4	43.66	6.735		
6,300.0	6,233.6	6,349.9	6,296.3	25.9	23.5	176.05	-401.3	-372.6	286.8	242.3	44.54	6.439		
6,400.0	6,332.3	6,443.5	6,387.8	26.3	23.9	175.63	-414.9	-386.7	282.3	236.9	45.37	6.222		
6,500.0	6,431.0	6,544.7	6,487.0	26.8	24.4	175.65	-430.5	-399.6	278.4	232.3	46.10	6.038		
6,600.0	6,529.6	6,644.4	6,584.6	27.2	24.9	176.16	-447.3	-410.5	274.4	227.6	46.85	5.857		
6,700.0	6,628.3	6,745.4	6,683.6	27.6	25.3	176.94	-465.2	-420.7	270.2	222.6	47.57	5.680		
6,800.0	6,727.0	6,850.4	6,786.2	28.1	25.8	177.67	-484.1	-432.2	265.4	217.1	48.25	5.500		
6,900.0	6,825.7	6,954.8	6,887.5	28.5	26.3	178.57	-505.5	-445.0	257.6	208.7	48.92	5.266		
7,000.0	6,924.4	7,049.0	6,979.1	29.0	26.7	179.69	-525.4	-455.4	250.4	200.6	49.77	5.030		
7,100.0	7,023.1	7,145.7	7,073.5	29.4	27.2	-178.98	-544.2	-464.2	245.8	195.2	50.58	4.859		
7,200.0	7,121.8	7,256.2	7,181.2	29.9	27.7	-178.25	-564.6	-477.9	239.9	188.8	51.15	4.690		
7,300.0	7,220.4	7,358.2	7,279.7	30.3	28.2	-178.79	-582.8	-496.9	230.0	178.2	51.84	4.437		
7,400.0	7,319.1	7,449.7	7,368.5	30.7	28.7	-179.12	-598.7	-512.5	221.8	169.0	52.78	4.202		
7,466.5	7,384.7	7,510.2	7,427.6	31.0	28.9	-179.07	-608.4	-520.6	218.6	165.2	53.37	4.095		
7,500.0	7,417.8	7,540.8	7,457.6	31.2	29.1	-179.02	-612.9	-524.3	217.5	163.8	53.66	4.053		
7,600.0	7,516.9	7,640.4	7,555.7	31.6	29.5	-178.80	-626.8	-535.4	213.6	159.2	54.41	3.925		
7,700.0	7,616.2	7,750.5	7,663.4	32.0	30.1	-179.03	-643.1	-550.9	204.5	149.5	54.97	3.719		
7,800.0	7,715.8	7,848.3	7,758.7	32.4	30.5	179.99	-657.6	-567.9	190.4	134.7	55.73	3.417		
7,900.0	7,815.6	7,940.8	7,849.1	32.8	31.0	179.01	-670.0	-582.6	176.0	119.4	56.58	3.111		
8,000.0	7,915.5	8,041.7	7,948.0	33.1	31.4	178.16	-683.8	-597.2	159.8	102.5	57.26	2.791		
8,086.5	8,002.0	8,126.2	8,030.8	33.3	31.8	38.47	-696.3	-608.9	143.3	85.4	57.87	2.476		
8,100.0	8,015.5	8,139.1	8,043.3	33.4	31.9	-51.67	-698.2	-610.6	140.5	82.5	57.98	2.423		
8,150.0	8,065.4	8,186.4	8,089.8	33.5	32.1	-54.12	-705.0	-616.8	128.8	70.5	58.35	2.208		
8,200.0	8,114.8	8,233.0	8,135.6	33.6	32.3	-58.90	-711.2	-622.9	115.3	56.6	58.77	1.963		
8,250.0	8,163.3	8,278.5	8,180.3	33.7	32.5	-66.81	-717.1	-628.7	100.9	41.6	59.37	1.700		
8,300.0	8,210.6	8,322.5	8,223.7	33.8	32.7	-78.69	-722.5	-634.1	87.6	27.1	60.53	1.448 Level 3		
8,350.0	8,256.3	8,364.8	8,265.3	33.8	32.9	-94.43	-727.5	-639.3	79.1	16.4	62.72	1.261 Level 3		
8,369.9	8,274.1	8,381.0	8,281.3	33.9	33.0	-101.30	-729.3	-641.3	78.2	14.4	63.84	1.225 Level 2		
8,400.0	8,300.1	8,409.2	8,304.8	33.9	33.1	-111.50	-732.1	-644.1	80.5	15.0	65.45	1.229 Level 2		
8,450.0	8,341.6	8,442.4	8,341.9	33.9	33.3	-126.39	-736.3	-648.6	94.4	27.4	66.98	1.410 Level 3		
8,500.0	8,380.6	8,477.1	8,376.1	33.9	33.4	-137.34	-740.2	-652.7	119.1	51.9	67.24	1.771		
8,550.0	8,416.6	8,508.6	8,407.2	33.9	33.5	-144.74	-743.8	-656.5	151.3	84.3	67.01	2.257		
8,600.0	8,449.5	8,537.4	8,435.6	33.9	33.7	-149.56	-747.0	-659.8	188.5	121.8	66.75	2.825		
8,650.0	8,479.0	8,562.9	8,460.8	33.9	33.8	-152.34	-749.7	-662.6	229.5	162.9	66.54	3.448		
8,700.0	8,504.8	8,584.8	8,482.4	33.9	33.9	-153.41	-752.0	-664.9	273.1	206.7	66.38	4.114		
8,750.0	8,526.9	8,602.8	8,500.3	33.8	33.9	-152.71	-753.8	-666.7	318.9	252.6	66.27	4.812		
8,800.0	8,544.9	8,616.5	8,513.8	33.8	34.0	-149.37	-755.1	-668.1	366.4	300.2	66.18	5.536		
8,850.0	8,558.8	8,626.0	8,523.3	33.8	34.0	-141.20	-756.0	-669.0	415.0	348.9	66.11	6.277		
8,900.0	8,568.4	8,631.1	8,528.3	33.7	34.1	-120.71	-756.5	-669.5	464.3	398.3	66.04	7.032		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-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		
8,950.0	8,573.8	8,631.7	8,528.9	33.7	34.1	-75.90	-756.6	-669.6	514.1	448.1	65.97	7.792		
8,986.5	8,575.0	8,629.1	8,526.3	33.7	34.1	-45.67	-756.3	-669.3	550.3	484.4	65.92	8.348		
8,993.2	8,575.0	8,628.4	8,525.6	33.8	34.1	-44.55	-756.3	-669.2	557.0	491.0	65.91	8.450		
9,000.0	8,575.0	8,627.7	8,524.9	33.8	34.1	-44.18	-756.2	-669.2	563.7	497.8	65.90	8.554		
9,100.0	8,575.0	8,617.0	8,514.4	33.9	34.0	-39.33	-755.2	-668.1	663.0	597.2	65.78	10.079		
9,200.0	8,575.0	8,606.4	8,503.9	34.4	34.0	-35.48	-754.1	-667.1	762.3	696.6	65.69	11.605		
9,300.0	8,575.0	8,594.6	8,492.2	35.3	33.9	-32.07	-753.0	-665.9	861.7	796.1	65.60	13.135		
9,400.0	8,575.0	8,582.3	8,480.0	36.3	33.9	-29.22	-751.7	-664.6	961.0	895.5	65.53	14.667		
9,500.0	8,575.0	8,569.4	8,467.2	37.6	33.8	-26.82	-750.4	-663.3	1,060.4	994.9	65.45	16.200		
9,600.0	8,575.0	8,555.9	8,453.9	38.9	33.7	-24.78	-748.9	-661.8	1,159.7	1,094.3	65.39	17.736		
9,700.0	8,575.0	10,980.9	9,832.9	40.4	43.8	-179.34	-788.8	577.2	1,258.1	1,227.4	30.69	40.997		
9,800.0	8,575.0	11,063.1	9,834.3	41.9	45.0	-179.44	-791.1	659.4	1,259.8	1,228.3	31.52	39.963		
9,900.0	8,575.0	11,134.8	9,836.9	43.6	46.1	-179.50	-792.3	731.1	1,263.3	1,231.0	32.31	39.099		
10,000.0	8,575.0	11,259.3	9,842.5	45.3	48.1	-179.58	-793.8	855.4	1,268.0	1,234.3	33.76	37.565		
10,100.0	8,575.0	11,409.0	9,842.0	47.0	50.6	-179.77	-797.8	1,005.0	1,267.1	1,231.5	35.64	35.550		
10,200.0	8,575.0	11,503.5	9,841.3	48.9	52.3	-179.85	-799.6	1,099.6	1,266.4	1,229.6	36.77	34.442		
10,300.0	8,575.0	11,601.8	9,840.6	50.8	54.0	-179.92	-801.0	1,197.8	1,265.6	1,227.6	37.98	33.320		
10,355.6	8,575.0	11,647.5	9,840.4	51.8	54.9	-179.96	-801.7	1,243.5	1,265.4	1,226.9	38.53	32.844		
10,400.0	8,575.0	11,674.6	9,840.6	52.7	55.4	-179.97	-802.0	1,270.7	1,265.8	1,227.0	38.83	32.599		
10,500.0	8,575.0	11,737.0	9,842.5	54.7	56.6	-180.00	-802.4	1,333.0	1,268.9	1,229.3	39.59	32.048		
10,600.0	8,575.0	11,809.3	9,846.6	56.7	58.0	-179.99	-802.6	1,405.1	1,274.5	1,233.9	40.56	31.425		
10,700.0	8,575.0	12,057.0	9,848.1	58.7	62.9	179.88	-804.7	1,652.7	1,274.6	1,230.5	44.16	28.863		
10,800.0	8,575.0	12,143.7	9,844.3	60.8	64.6	179.81	-806.3	1,739.2	1,270.2	1,225.0	45.25	28.073		
10,900.0	8,575.0	12,199.0	9,842.3	62.9	65.7	179.78	-806.8	1,794.5	1,267.4	1,221.5	45.83	27.652		
10,942.6	8,575.0	12,237.4	9,841.7	63.8	66.5	179.77	-807.1	1,832.9	1,266.8	1,220.4	46.35	27.331		
11,000.0	8,575.0	12,265.6	9,842.0	65.0	67.1	179.76	-807.3	1,861.1	1,267.4	1,220.8	46.68	27.154		
11,100.0	8,575.0	12,350.5	9,845.3	67.1	68.9	179.72	-808.0	1,945.9	1,271.1	1,223.3	47.83	26.576		
11,200.0	8,575.0	12,424.6	9,848.0	69.3	70.4	179.65	-809.4	2,020.0	1,275.0	1,226.1	48.84	26.108		
11,300.0	8,575.0	12,482.0	9,852.4	71.5	71.7	179.66	-809.3	2,077.2	1,282.4	1,232.8	49.66	25.824		
11,400.0	8,575.0	12,561.1	9,860.3	73.7	73.3	179.70	-808.3	2,155.8	1,292.4	1,241.6	50.81	25.435		
11,500.0	8,575.0	12,711.2	9,872.3	75.9	76.6	179.77	-806.6	2,305.4	1,300.1	1,247.2	52.93	24.562		
11,600.0	8,575.0	12,796.6	9,878.4	78.2	78.4	179.86	-804.6	2,390.6	1,307.2	1,253.0	54.18	24.128		
11,700.0	8,575.0	12,881.4	9,885.3	80.4	80.3	179.99	-801.5	2,475.1	1,315.4	1,260.0	55.44	23.728		
11,800.0	8,575.0	12,966.9	9,893.3	82.7	82.1	-179.86	-797.9	2,560.1	1,324.7	1,268.0	56.71	23.358		
11,900.0	8,575.0	13,250.2	9,905.1	84.9	88.4	-179.74	-794.7	2,842.7	1,331.2	1,270.2	61.02	21.816		
12,000.0	8,575.0	13,298.0	9,904.6	87.2	89.5	-179.77	-795.4	2,890.5	1,329.6	1,268.0	61.62	21.577		
12,000.6	8,575.0	13,298.3	9,904.6	87.2	89.5	-179.77	-795.4	2,890.8	1,329.6	1,268.0	61.63	21.575		
12,100.0	8,575.0	13,385.8	9,905.6	89.5	91.5	-179.83	-796.6	2,978.2	1,330.7	1,267.9	62.88	21.164		
12,200.0	8,575.0	13,573.0	9,899.2	91.8	95.7	180.00	-800.5	3,165.3	1,326.4	1,260.7	65.70	20.189		
12,300.0	8,575.0	13,675.7	9,893.7	94.1	98.0	179.76	-805.7	3,267.7	1,321.0	1,253.9	67.15	19.673		
12,400.0	8,575.0	13,766.4	9,888.5	96.4	100.1	179.49	-812.0	3,358.0	1,315.3	1,246.9	68.41	19.228		
12,500.0	8,575.0	13,845.1	9,885.0	98.7	101.9	179.28	-816.6	3,436.4	1,310.9	1,241.4	69.51	18.860		
12,600.0	8,575.0	13,923.1	9,882.9	101.0	103.7	179.21	-818.1	3,514.5	1,308.2	1,237.6	70.63	18.522		
12,700.0	8,575.0	14,008.6	9,881.9	103.4	105.7	179.21	-818.0	3,599.9	1,307.1	1,235.2	71.89	18.181		
12,791.8	8,575.0	14,090.8	9,881.4	105.5	107.6	179.24	-817.2	3,682.1	1,306.6	1,233.5	73.12	17.869		
12,800.0	8,575.0	14,096.7	9,881.4	105.7	107.7	179.24	-817.2	3,688.0	1,306.6	1,233.4	73.21	17.848		
12,900.0	8,575.0	14,171.3	9,882.4	108.0	109.4	179.32	-815.3	3,762.6	1,307.8	1,233.5	74.31	17.600		
13,000.0	8,575.0	14,271.3	9,884.5	110.4	111.7	179.49	-811.2	3,862.5	1,309.8	1,234.0	75.83	17.272		
13,100.0	8,575.0	14,357.5	9,886.8	112.7	113.7	179.70	-806.5	3,948.5	1,312.6	1,235.4	77.15	17.014		
13,200.0	8,575.0	14,457.4	9,890.0	115.1	116.0	179.87	-802.5	4,048.3	1,315.7	1,237.0	78.69	16.720		
13,300.0	8,575.0	14,551.0	9,893.3	117.5	118.2	179.96	-800.3	4,141.8	1,319.3	1,239.1	80.11	16.468		
13,400.0	8,575.0	14,665.4	9,896.6	119.8	120.9	179.96	-800.2	4,256.1	1,322.1	1,240.2	81.86	16.151		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-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		
13,500.0	8,575.0	14,750.5	9,899.1	122.2	122.9	179.93	-800.8	4,341.2	1,325.0	1,241.9	83.12	15.942		
13,600.0	8,575.0	14,947.7	9,901.6	124.6	127.5	179.78	-804.0	4,538.2	1,327.5	1,241.4	86.15	15.409		
13,700.0	8,575.0	15,047.5	9,898.3	126.9	129.9	179.68	-806.1	4,637.9	1,324.2	1,236.6	87.64	15.110		
13,800.0	8,575.0	15,147.4	9,894.3	129.3	132.2	179.64	-806.9	4,737.8	1,320.2	1,231.1	89.15	14.809		
13,900.0	8,575.0	15,237.2	9,891.6	131.7	134.3	179.66	-806.3	4,827.5	1,317.2	1,226.7	90.51	14.553		
14,000.0	8,575.0	15,317.4	9,889.5	134.1	136.2	179.70	-805.3	4,907.6	1,314.7	1,222.9	91.74	14.331		
14,038.4	8,575.0	15,338.4	9,889.4	135.0	136.7	179.72	-804.8	4,928.7	1,314.4	1,222.4	92.05	14.279		
14,100.0	8,575.0	15,384.0	9,890.0	136.4	137.8	179.79	-803.1	4,974.2	1,315.2	1,222.4	92.74	14.181		
14,200.0	8,575.0	15,420.6	9,891.7	138.8	138.7	179.87	-801.4	5,010.7	1,319.1	1,225.9	93.19	14.155		
14,300.0	8,575.0	15,478.0	9,896.6	141.2	140.0	179.98	-798.7	5,067.9	1,327.2	1,233.3	93.96	14.126		
14,400.0	8,575.0	15,522.4	9,902.0	143.6	141.1	-179.96	-797.3	5,112.0	1,338.9	1,244.5	94.41	14.181		
14,500.0	8,575.0	15,582.1	9,910.8	146.0	142.5	-179.96	-797.3	5,171.0	1,353.7	1,258.6	95.12	14.232		
14,600.0	8,575.0	15,652.2	9,922.9	148.4	144.1	179.88	-800.8	5,240.0	1,371.0	1,275.0	95.99	14.282		
14,700.0	8,575.0	15,814.2	9,949.6	150.8	147.9	179.18	-817.6	5,398.8	1,388.1	1,289.3	98.77	14.054		
14,800.0	8,575.0	16,101.8	9,964.7	153.2	154.7	178.78	-827.0	5,685.4	1,390.1	1,286.5	103.59	13.419		
14,900.0	8,575.0	16,213.7	9,964.8	155.6	157.4	178.82	-826.0	5,797.3	1,390.2	1,284.9	105.30	13.202		
15,000.0	8,575.0	16,323.0	9,963.9	158.0	160.0	178.94	-822.9	5,906.5	1,389.3	1,282.3	106.96	12.988		
15,100.0	8,575.0	16,416.5	9,963.1	160.4	162.2	179.07	-819.7	6,000.0	1,388.3	1,279.9	108.40	12.807		
15,200.0	8,575.0	16,570.1	9,958.3	162.8	165.9	179.26	-814.9	6,153.4	1,384.9	1,274.2	110.68	12.513		
15,300.0	8,575.0	16,666.7	9,954.0	165.2	168.2	179.43	-810.7	6,249.9	1,380.4	1,268.2	112.19	12.304		
15,400.0	8,575.0	16,773.3	9,949.4	167.6	170.7	179.64	-805.4	6,356.3	1,376.0	1,262.2	113.83	12.088		
15,500.0	8,575.0	16,879.2	9,944.0	170.0	173.2	179.83	-800.8	6,461.9	1,370.9	1,255.5	115.47	11.872		
15,600.0	8,575.0	16,978.3	9,938.9	172.5	175.6	-179.99	-796.4	6,560.7	1,365.7	1,248.7	117.04	11.669		
15,700.0	8,575.0	17,065.4	9,934.7	174.9	177.7	-179.85	-792.8	6,647.7	1,361.0	1,242.5	118.45	11.490		
15,800.0	8,575.0	17,136.5	9,932.4	177.3	179.4	-179.72	-789.7	6,718.6	1,357.7	1,238.1	119.62	11.350		
15,900.0	8,575.0	17,214.8	9,931.6	179.7	181.3	-179.58	-786.4	6,796.9	1,356.7	1,235.8	120.88	11.223		
16,000.0	8,575.0	17,316.4	9,931.2	182.1	183.7	-179.40	-781.9	6,898.4	1,356.3	1,233.8	122.52	11.070		
16,100.0	8,575.0	17,416.8	9,930.3	184.5	186.1	-179.25	-778.2	6,998.7	1,355.5	1,231.3	124.13	10.920		
16,151.1	8,575.0	17,463.4	9,930.1	185.8	187.2	-179.20	-777.1	7,045.3	1,355.2	1,230.4	124.87	10.853		
16,200.0	8,575.0	17,483.0	9,930.3	187.0	187.7	-179.18	-776.6	7,064.9	1,355.7	1,230.5	125.15	10.832		
16,300.0	8,575.0	17,527.6	9,932.0	189.4	188.7	-179.12	-775.2	7,109.4	1,359.6	1,233.9	125.71	10.815		
16,400.0	8,575.0	17,629.4	9,939.1	191.8	191.2	-178.98	-771.5	7,210.9	1,366.7	1,239.3	127.36	10.731		
16,500.0	8,575.0	17,740.1	9,944.8	194.2	193.8	-178.89	-769.1	7,321.5	1,371.8	1,242.7	129.17	10.621		
16,600.0	8,575.0	17,856.5	9,950.4	196.6	196.6	-178.79	-766.4	7,437.7	1,376.7	1,245.6	131.08	10.503		
16,700.0	8,575.0	17,991.0	9,952.5	199.1	199.9	-178.81	-766.8	7,572.2	1,378.0	1,244.7	133.21	10.344		
16,800.0	8,575.0	18,072.4	9,954.1	201.5	201.9	-178.83	-767.1	7,653.5	1,379.9	1,245.5	134.44	10.264		
16,900.0	8,575.0	18,206.1	9,957.2	203.9	205.1	-178.86	-767.7	7,787.2	1,382.4	1,245.9	136.53	10.126		
17,000.0	8,575.0	18,321.2	9,956.4	206.3	207.9	-179.00	-770.9	7,902.2	1,381.7	1,243.5	138.23	9.995		
17,039.9	8,575.0	18,349.1	9,956.3	207.3	208.5	-179.03	-771.6	7,930.1	1,381.5	1,242.9	138.65	9.964		
17,100.0	8,575.0	18,391.2	9,956.6	208.8	209.6	-179.07	-772.4	7,972.2	1,381.9	1,242.6	139.27	9.922		
17,200.0	8,575.0	18,468.8	9,958.3	211.2	211.4	-179.10	-773.1	8,049.8	1,384.1	1,243.6	140.42	9.856		
17,300.0	8,575.0	18,563.1	9,961.4	213.6	213.7	-179.12	-773.3	8,144.0	1,387.4	1,245.5	141.86	9.780		
17,400.0	8,575.0	18,697.5	9,964.4	216.0	217.0	-179.15	-773.9	8,278.4	1,389.6	1,245.6	143.99	9.651		
17,500.0	8,575.0	18,799.4	9,965.0	218.5	219.4	-179.17	-774.2	8,380.3	1,390.2	1,244.6	145.56	9.551		
17,600.0	8,575.0	18,882.8	9,966.1	220.9	221.5	-179.17	-774.1	8,463.7	1,391.5	1,244.7	146.84	9.477		
17,700.0	8,575.0	18,976.0	9,968.1	223.3	223.7	-179.16	-773.9	8,556.9	1,393.7	1,245.4	148.28	9.399		
17,800.0	8,575.0	19,070.9	9,970.5	225.8	226.0	-179.16	-773.6	8,651.7	1,396.2	1,246.5	149.74	9.324		
17,900.0	8,575.0	19,900.0	9,973.1	228.2	197.6	-179.18	-773.9	8,791.7	1,398.3	1,256.5	141.81	9.860		
18,000.0	8,575.0	19,362.6	9,968.8	230.6	233.1	-179.36	-778.1	8,943.2	1,394.9	1,240.8	154.12	9.051		
18,100.0	8,575.0	19,436.0	9,965.8	233.0	234.9	-179.46	-780.7	9,016.5	1,391.2	1,235.9	155.28	8.959		
18,169.5	8,575.0	19,479.3	9,964.9	234.7	235.9	-179.51	-781.7	9,059.8	1,390.0	1,234.0	155.96	8.912		
18,200.0	8,575.0	19,491.9	9,965.0	235.5	236.2	-179.52	-781.9	9,072.4	1,390.2	1,234.0	156.14	8.903		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 176-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	8,575.0	19,538.0	9,966.6	237.9	237.3	-179.52	-781.8	9,118.5	1,393.5	1,236.8	156.72	8.892		
18,400.0	8,575.0	19,637.5	9,971.7	240.3	239.8	-179.50	-781.2	9,217.9	1,398.7	1,240.4	158.27	8.837		
18,500.0	8,575.0	19,731.4	9,976.7	242.8	242.0	-179.47	-780.4	9,311.6	1,404.0	1,244.3	159.72	8.790		
18,600.0	8,575.0	19,807.5	9,981.6	245.2	243.9	-179.43	-779.4	9,387.5	1,410.4	1,249.6	160.79	8.772		
18,700.0	8,575.0	20,002.4	9,988.0	247.6	248.6	-179.66	-784.6	9,582.2	1,413.1	1,249.1	164.03	8.615		
18,800.0	8,575.0	20,093.8	9,988.9	250.1	250.8	-179.86	-789.5	9,673.4	1,414.0	1,248.6	165.39	8.549		
18,900.0	8,575.0	20,229.3	9,988.1	252.5	254.1	179.79	-798.1	9,808.6	1,413.2	1,245.8	167.40	8.442		
18,990.4	8,575.0	20,301.5	9,987.4	254.7	255.9	179.60	-802.5	9,880.7	1,412.5	1,243.9	168.54	8.381		
19,000.0	8,575.0	20,307.6	9,987.4	255.0	256.0	179.59	-802.8	9,886.8	1,412.5	1,243.9	168.64	8.376		
19,100.0	8,575.0	20,379.0	9,988.6	257.4	257.8	179.46	-805.9	9,958.1	1,414.0	1,244.3	169.74	8.331		
19,200.0	8,575.0	20,504.8	9,989.4	259.8	260.8	179.22	-811.8	10,083.7	1,414.6	1,242.9	171.73	8.237		
19,300.0	8,575.0	20,567.0	9,990.6	262.3	262.3	179.13	-813.9	10,145.9	1,416.4	1,243.8	172.69	8.202		
19,400.0	8,575.0	20,623.3	9,993.2	264.7	263.7	179.09	-814.9	10,202.1	1,421.1	1,247.7	173.42	8.195		
19,500.0	8,575.0	20,692.1	9,998.5	267.1	265.4	179.08	-815.2	10,270.7	1,428.7	1,254.4	174.31	8.196		
19,600.0	8,575.0	20,783.2	10,006.4	269.6	267.6	179.12	-814.1	10,361.5	1,437.4	1,261.7	175.66	8.183		
19,700.0	8,575.0	20,884.0	10,015.6	272.0	270.0	179.33	-808.8	10,461.7	1,446.5	1,269.3	177.19	8.163		
19,800.0	8,575.0	21,072.5	10,027.4	274.5	274.6	179.46	-805.5	10,649.7	1,453.1	1,272.6	180.52	8.050		
19,900.0	8,575.0	21,196.1	10,029.7	276.9	277.6	179.47	-805.2	10,773.3	1,454.8	1,272.4	182.46	7.973		
20,000.0	8,575.0	20,000.0	10,028.9	279.3	248.8	179.71	-798.7	10,946.6	1,455.1	1,280.7	174.36	8.345		
20,100.0	8,575.0	21,572.9	10,011.4	281.8	286.7	-179.81	-786.5	11,148.7	1,445.1	1,257.8	187.29	7.716		
20,200.0	8,575.0	21,665.4	10,001.3	284.2	288.9	-179.57	-780.3	11,240.4	1,434.2	1,245.3	188.91	7.592		
20,300.0	8,575.0	21,736.4	9,994.4	286.6	290.6	-179.42	-776.7	11,311.0	1,424.6	1,234.2	190.39	7.482		
20,400.0	8,575.0	21,789.0	9,990.5	289.1	291.8	-179.33	-774.3	11,363.4	1,417.5	1,225.8	191.64	7.396		
20,500.0	8,575.0	21,838.3	9,988.5	291.5	293.0	-179.23	-771.9	11,412.6	1,413.8	1,221.1	192.68	7.338		
20,538.8	8,575.0	21,854.8	9,988.3	292.5	293.4	-179.19	-771.0	11,429.1	1,413.5	1,220.5	192.98	7.324		
20,600.0	8,575.0	21,883.0	9,988.7	294.0	294.1	-179.13	-769.3	11,457.2	1,414.3	1,220.8	193.43	7.311		
20,700.0	8,575.0	21,988.6	9,991.1	296.4	296.7	-178.86	-762.7	11,562.6	1,416.6	1,221.3	195.26	7.255		
20,800.0	8,575.0	22,072.0	9,993.2	298.9	298.7	-178.65	-757.3	11,645.8	1,419.3	1,222.6	196.68	7.216		
20,900.0	8,575.0	22,162.2	9,996.1	301.3	300.9	-178.41	-751.2	11,735.7	1,422.7	1,224.5	198.26	7.176		
21,000.0	8,575.0	22,240.2	9,999.6	303.7	302.7	-178.20	-745.7	11,813.4	1,427.3	1,227.7	199.58	7.152		
21,100.0	8,575.0	22,311.9	10,003.9	306.2	304.5	-177.99	-740.4	11,884.8	1,433.7	1,232.9	200.73	7.142		
21,200.0	8,575.0	22,383.0	10,009.7	308.6	306.2	-177.79	-734.9	11,955.5	1,442.0	1,240.2	201.82	7.145		
21,213.6	8,575.0	22,392.9	10,010.6	309.0	306.4	-177.76	-734.2	11,965.3	1,443.3	1,241.3	201.97	7.146		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-14.51	2,249.3	-582.0	2,323.7					
100.0	100.0	61.0	61.0	0.1	0.1	-14.51	2,249.3	-582.0	2,323.3	2,323.1	0.21	N/A		
200.0	200.0	161.0	161.0	0.5	0.3	-14.51	2,249.3	-582.0	2,323.3	2,322.5	0.83	2,787.638		
300.0	300.0	261.0	261.0	0.8	0.7	-14.51	2,249.3	-582.0	2,323.3	2,321.8	1.55	1,498.557		
400.0	400.0	361.0	361.0	1.2	1.1	-14.51	2,249.3	-582.0	2,323.3	2,321.1	2.27	1,024.705		
500.0	500.0	461.0	461.0	1.6	1.4	-14.51	2,249.3	-582.0	2,323.3	2,320.4	2.98	778.530		
600.0	600.0	561.0	561.0	1.9	1.8	-14.51	2,249.3	-582.0	2,323.3	2,319.6	3.70	627.725		
700.0	700.0	661.0	661.0	2.3	2.1	-14.51	2,249.3	-582.0	2,323.3	2,318.9	4.42	525.863		
800.0	800.0	761.0	761.0	2.6	2.5	-14.51	2,249.3	-582.0	2,323.3	2,318.2	5.14	452.444		
900.0	900.0	861.0	861.0	3.0	2.9	-14.51	2,249.3	-582.0	2,323.3	2,317.5	5.85	397.015		
1,000.0	1,000.0	961.0	961.0	3.4	3.2	-14.51	2,249.3	-582.0	2,323.3	2,316.8	6.57	353.684	CC, ES	
1,100.0	1,100.0	1,061.0	1,061.0	3.7	3.6	124.70	2,249.3	-582.0	2,324.6	2,317.3	7.27	319.724		
1,200.0	1,199.7	1,160.7	1,160.7	4.0	3.9	124.75	2,249.3	-582.0	2,328.3	2,320.4	7.96	292.419		
1,300.0	1,299.1	1,260.1	1,260.1	4.4	4.3	124.84	2,249.3	-582.0	2,334.6	2,325.9	8.66	269.536		
1,372.0	1,370.4	1,331.4	1,331.4	4.6	4.5	124.93	2,249.3	-582.0	2,340.6	2,331.4	9.17	255.222		
1,400.0	1,398.0	1,359.0	1,359.0	4.7	4.6	125.02	2,249.3	-582.0	2,343.2	2,333.9	9.37	250.063		
1,500.0	1,496.7	1,457.7	1,457.7	5.1	5.0	125.34	2,249.3	-582.0	2,352.6	2,342.5	10.09	233.239		
1,600.0	1,595.4	1,540.6	1,540.6	5.5	5.3	125.60	2,249.4	-582.1	2,362.3	2,351.5	10.75	219.683		
1,700.0	1,694.1	1,611.5	1,611.5	5.9	5.5	125.82	2,250.2	-582.6	2,373.1	2,361.7	11.38	208.523		
1,800.0	1,792.7	1,682.3	1,682.2	6.3	5.8	126.03	2,251.7	-583.6	2,385.0	2,373.0	12.01	198.603		
1,900.0	1,891.4	1,752.9	1,752.8	6.7	6.0	126.24	2,254.0	-585.0	2,398.2	2,385.6	12.64	189.748		
2,000.0	1,990.1	1,823.4	1,823.2	7.1	6.3	126.43	2,257.0	-586.9	2,412.6	2,399.4	13.27	181.822		
2,100.0	2,088.8	1,900.0	1,899.7	7.5	6.6	126.63	2,261.1	-589.4	2,428.2	2,414.3	13.92	174.397		
2,200.0	2,187.5	1,963.8	1,963.3	7.9	6.8	126.78	2,265.2	-592.0	2,445.0	2,430.4	14.53	168.310		
2,300.0	2,286.2	2,033.7	2,032.9	8.3	7.1	126.95	2,270.3	-595.2	2,462.9	2,447.7	15.15	162.535		
2,400.0	2,384.9	2,100.0	2,098.9	8.8	7.3	127.10	2,275.9	-598.7	2,481.9	2,466.2	15.76	157.459		
2,500.0	2,483.5	2,172.7	2,171.2	9.2	7.6	127.25	2,282.7	-602.9	2,502.1	2,485.7	16.40	152.585		
2,600.0	2,582.2	2,241.8	2,239.7	9.6	7.8	127.39	2,289.9	-607.5	2,523.5	2,506.4	17.02	148.292		
2,700.0	2,680.9	2,310.6	2,307.9	10.1	8.1	127.51	2,297.8	-612.4	2,545.9	2,528.3	17.63	144.390		
2,800.0	2,779.6	2,379.1	2,375.7	10.5	8.3	127.63	2,306.3	-617.7	2,569.5	2,551.2	18.24	140.836		
2,900.0	2,878.3	2,447.3	2,442.9	10.9	8.6	127.74	2,315.5	-623.5	2,594.1	2,575.2	18.85	137.595		
3,000.0	2,977.0	2,521.5	2,516.1	11.3	8.9	127.85	2,326.2	-630.2	2,619.8	2,600.3	19.49	134.418		
3,100.0	3,075.7	2,617.8	2,611.0	11.8	9.3	127.99	2,340.4	-639.0	2,645.8	2,625.6	20.24	130.734		
3,200.0	3,174.3	2,714.2	2,705.8	12.2	9.6	128.12	2,354.6	-647.9	2,671.9	2,650.9	20.99	127.300		
3,300.0	3,273.0	2,810.5	2,800.7	12.6	10.0	128.26	2,368.8	-656.8	2,697.9	2,676.2	21.74	124.092		
3,400.0	3,371.7	2,906.9	2,895.6	13.1	10.4	128.39	2,383.0	-665.7	2,724.0	2,701.5	22.50	121.090		
3,500.0	3,470.4	3,003.2	2,990.5	13.5	10.8	128.51	2,397.1	-674.5	2,750.1	2,726.8	23.25	118.274		
3,600.0	3,569.1	3,100.4	3,085.4	14.0	11.2	128.64	2,411.3	-683.4	2,776.2	2,752.2	24.01	115.614		
3,700.0	3,667.8	3,204.0	3,180.3	14.4	11.7	128.76	2,425.5	-692.3	2,802.3	2,777.5	24.80	113.000		
3,800.0	3,766.5	3,292.3	3,275.2	14.8	12.0	128.88	2,439.7	-701.2	2,828.4	2,802.9	25.53	110.792		
3,900.0	3,865.1	3,390.0	3,453.4	15.3	14.5	129.13	2,463.7	-716.2	2,853.0	2,824.7	28.33	100.723		
4,000.0	3,963.8	4,000.0	3,756.3	15.7	14.8	129.67	2,488.7	-731.8	2,871.0	2,841.7	29.24	98.178		
4,100.0	4,062.5	4,044.5	4,023.5	16.1	14.9	130.29	2,494.1	-735.2	2,882.4	2,852.6	29.84	96.599		
4,200.0	4,161.2	4,143.2	4,122.2	16.6	15.2	130.53	2,494.1	-735.2	2,893.0	2,862.4	30.59	94.574		
4,300.0	4,259.9	4,241.9	4,220.9	17.0	15.6	130.77	2,494.1	-735.2	2,903.6	2,872.2	31.34	92.648		
4,400.0	4,358.6	4,340.6	4,319.6	17.5	15.9	131.01	2,494.1	-735.2	2,914.2	2,882.1	32.09	90.813		
4,500.0	4,457.3	4,439.3	4,418.3	17.9	16.2	131.25	2,494.1	-735.2	2,924.9	2,892.1	32.84	89.064		
4,600.0	4,555.9	4,538.0	4,516.9	18.3	16.6	131.48	2,494.1	-735.2	2,935.7	2,902.1	33.59	87.396		
4,700.0	4,654.6	4,636.6	4,615.6	18.8	16.9	131.71	2,494.1	-735.2	2,946.5	2,912.2	34.34	85.801		
4,800.0	4,753.3	4,735.3	4,714.3	19.2	17.2	131.95	2,494.1	-735.2	2,957.4	2,922.3	35.09	84.277		
4,900.0	4,852.0	4,834.0	4,813.0	19.7	17.6	132.18	2,494.1	-735.2	2,968.3	2,932.4	35.84	82.818		
5,000.0	4,950.7	4,932.7	4,911.7	20.1	17.9	132.41	2,494.1	-735.2	2,979.2	2,942.6	36.59	81.421		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,031.4	5,010.4	20.6	18.3	132.63	2,494.1	-735.2	2,990.2	2,952.9	37.34	80.082		
5,200.0	5,148.1	5,130.1	5,109.1	21.0	18.6	132.86	2,494.1	-735.2	3,001.3	2,963.2	38.09	78.797		
5,300.0	5,246.7	5,228.8	5,207.7	21.4	19.0	133.08	2,494.1	-735.2	3,012.4	2,973.5	38.84	77.563		
5,400.0	5,345.4	5,327.4	5,306.4	21.9	19.3	133.30	2,494.1	-735.2	3,023.5	2,983.9	39.59	76.377		
5,500.0	5,444.1	5,426.1	5,405.1	22.3	19.6	133.52	2,494.1	-735.2	3,034.7	2,994.4	40.33	75.238		
5,600.0	5,542.8	5,524.8	5,503.8	22.8	20.0	133.74	2,494.1	-735.2	3,045.9	3,004.8	41.08	74.141		
5,700.0	5,641.5	5,623.5	5,602.5	23.2	20.3	133.96	2,494.1	-735.2	3,057.2	3,015.4	41.83	73.085		
5,800.0	5,740.2	5,722.2	5,701.2	23.7	20.7	134.18	2,494.1	-735.2	3,068.5	3,025.9	42.58	72.067		
5,900.0	5,838.9	5,820.9	5,799.9	24.1	21.0	134.39	2,494.1	-735.2	3,079.9	3,036.5	43.33	71.086		
6,000.0	5,937.5	5,919.6	5,898.5	24.5	21.4	134.60	2,494.1	-735.2	3,091.3	3,047.2	44.07	70.140		
6,100.0	6,036.2	6,018.2	5,997.2	25.0	21.7	134.81	2,494.1	-735.2	3,102.7	3,057.9	44.82	69.226		
6,200.0	6,134.9	6,116.9	6,095.9	25.4	22.0	135.02	2,494.1	-735.2	3,114.2	3,068.6	45.57	68.344		
6,300.0	6,233.6	6,215.6	6,194.6	25.9	22.4	135.23	2,494.1	-735.2	3,125.7	3,079.4	46.31	67.492		
6,400.0	6,332.3	6,314.3	6,293.3	26.3	22.7	135.44	2,494.1	-735.2	3,137.3	3,090.2	47.06	66.668		
6,500.0	6,431.0	6,413.0	6,392.0	26.8	23.1	135.64	2,494.1	-735.2	3,148.9	3,101.1	47.80	65.871		
6,600.0	6,529.6	6,511.7	6,490.6	27.2	23.4	135.85	2,494.1	-735.2	3,160.6	3,112.0	48.55	65.099		
6,700.0	6,628.3	6,610.4	6,589.3	27.6	23.8	136.05	2,494.1	-735.2	3,172.2	3,122.9	49.29	64.353		
6,800.0	6,727.0	6,709.0	6,688.0	28.1	24.1	136.25	2,494.1	-735.2	3,184.0	3,133.9	50.04	63.629		
6,900.0	6,825.7	6,807.7	6,786.7	28.5	24.5	136.45	2,494.1	-735.2	3,195.7	3,145.0	50.78	62.928		
7,000.0	6,924.4	6,906.4	6,885.4	29.0	24.8	136.65	2,494.1	-735.2	3,207.5	3,156.0	51.53	62.248		
7,100.0	7,023.1	7,005.1	6,984.1	29.4	25.2	136.84	2,494.1	-735.2	3,219.4	3,167.1	52.27	61.589		
7,200.0	7,121.8	7,103.8	7,082.8	29.9	25.5	137.04	2,494.1	-735.2	3,231.3	3,178.2	53.02	60.949		
7,300.0	7,220.4	7,202.5	7,181.4	30.3	25.9	137.23	2,494.1	-735.2	3,243.2	3,189.4	53.76	60.328		
7,400.0	7,319.1	7,301.2	7,280.1	30.7	26.2	137.42	2,494.1	-735.2	3,255.1	3,200.6	54.50	59.725		
7,466.5	7,384.7	7,366.7	7,345.7	31.0	26.4	137.55	2,494.1	-735.2	3,263.1	3,208.1	55.00	59.333		
7,500.0	7,417.8	7,400.1	7,378.8	31.2	26.6	137.65	2,494.1	-735.2	3,267.0	3,211.8	55.25	59.136		
7,600.0	7,516.9	7,501.1	7,477.9	31.6	26.9	137.92	2,494.1	-735.2	3,277.4	3,221.4	55.99	58.539		
7,700.0	7,616.2	7,601.8	7,577.2	32.0	27.3	138.14	2,494.1	-735.2	3,285.9	3,229.2	56.72	57.936		
7,800.0	7,715.8	7,702.2	7,676.8	32.4	27.6	138.31	2,494.1	-735.2	3,292.5	3,235.1	57.43	57.326		
7,900.0	7,815.6	7,802.4	7,776.6	32.8	28.0	138.42	2,494.1	-735.2	3,297.1	3,239.0	58.14	56.709		
8,000.0	7,915.5	7,902.4	7,876.5	33.1	28.3	138.49	2,494.1	-735.2	3,299.8	3,241.0	58.84	56.085		
8,086.5	8,002.0	7,984.0	7,963.0	33.3	28.6	-0.68	2,494.1	-735.2	3,300.5	3,241.1	59.40	55.563		
8,100.0	8,015.5	8,002.4	7,976.5	33.4	28.7	-90.48	2,494.1	-735.2	3,300.5	3,241.0	59.51	55.464		
8,150.0	8,065.4	8,047.4	8,026.4	33.5	28.8	-90.53	2,494.1	-735.2	3,300.6	3,240.8	59.81	55.189		
8,200.0	8,114.8	8,103.2	8,075.8	33.6	29.0	-90.66	2,494.1	-735.2	3,300.6	3,240.5	60.13	54.895		
8,250.0	8,163.3	8,145.4	8,124.3	33.7	29.2	-90.84	2,494.1	-735.2	3,300.8	3,240.4	60.39	54.663		
8,300.0	8,210.6	8,207.3	8,171.6	33.8	29.4	-91.08	2,494.1	-735.2	3,301.1	3,240.4	60.70	54.383		
8,350.0	8,256.3	8,238.4	8,217.3	33.8	29.5	-91.35	2,494.1	-735.2	3,301.6	3,240.7	60.90	54.217		
8,400.0	8,300.1	8,282.1	8,261.1	33.9	29.7	-91.65	2,494.1	-735.2	3,302.3	3,241.2	61.13	54.025		
8,450.0	8,341.6	8,323.7	8,302.6	33.9	29.8	-91.94	2,494.1	-735.2	3,303.3	3,242.0	61.34	53.852		
8,500.0	8,380.6	8,362.6	8,341.6	33.9	30.0	-92.22	2,494.1	-735.2	3,304.8	3,243.3	61.55	53.697		
8,550.0	8,416.6	8,401.4	8,377.6	33.9	30.1	-92.45	2,494.1	-735.2	3,306.8	3,245.0	61.75	53.550		
8,600.0	8,449.5	8,431.5	8,410.5	33.9	30.2	-92.63	2,494.1	-735.2	3,309.3	3,247.4	61.93	53.434		
8,650.0	8,479.0	8,461.0	8,440.0	33.9	30.3	-92.72	2,494.1	-735.2	3,312.5	3,250.4	62.12	53.322		
8,700.0	8,504.8	8,486.8	8,465.8	33.9	30.4	-92.71	2,494.1	-735.2	3,316.5	3,254.1	62.32	53.220		
8,750.0	8,526.9	8,508.9	8,487.9	33.8	30.5	-92.58	2,494.1	-735.2	3,321.2	3,258.7	62.52	53.126		
8,800.0	8,544.9	8,526.9	8,505.9	33.8	30.5	-92.31	2,494.1	-735.2	3,326.7	3,264.0	62.72	53.039		
8,850.0	8,558.8	8,540.8	8,519.8	33.8	30.6	-91.90	2,494.1	-735.2	3,333.1	3,270.1	62.94	52.959		
8,900.0	8,568.4	8,550.5	8,529.4	33.7	30.6	-91.34	2,494.1	-735.2	3,340.3	3,277.1	63.16	52.886		
8,950.0	8,573.8	8,555.8	8,534.8	33.7	30.6	-90.62	2,494.1	-735.2	3,348.3	3,284.9	63.39	52.822		
8,986.5	8,575.0	8,557.0	8,536.0	33.7	30.6	-90.00	2,494.1	-735.2	3,354.6	3,291.0	63.56	52.782		
8,993.2	8,575.0	8,557.0	8,536.0	33.8	30.6	-90.00	2,494.1	-735.2	3,355.8	3,292.2	63.59	52.776		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
9,000.0	8,575.0	8,557.0	8,536.0	33.8	30.6	-90.00	2,494.1	-735.2	3,357.1	3,293.4	63.62	52.769		
9,100.0	8,575.0	8,557.0	8,536.0	33.9	30.6	-90.00	2,494.1	-735.2	3,377.0	3,312.9	64.16	52.632		
9,200.0	8,575.0	8,557.0	8,536.0	34.4	30.6	-90.00	2,494.1	-735.2	3,399.8	3,335.0	64.82	52.446		
9,300.0	8,575.0	8,557.0	8,536.0	35.3	30.6	-90.00	2,494.1	-735.2	3,425.3	3,359.7	65.59	52.225		
9,400.0	8,575.0	8,557.0	8,536.0	36.3	30.6	-90.00	2,494.1	-735.2	3,453.6	3,387.1	66.44	51.981		
9,500.0	8,575.0	8,557.0	8,536.0	37.6	30.6	-90.00	2,494.1	-735.2	3,484.5	3,417.1	67.36	51.726		
9,600.0	8,575.0	8,557.0	8,536.0	38.9	30.6	-90.00	2,494.1	-735.2	3,517.9	3,449.6	68.35	51.473		
9,700.0	8,575.0	8,557.0	8,536.0	40.4	30.6	-90.00	2,494.1	-735.2	3,553.9	3,484.5	69.37	51.229		
9,800.0	8,575.0	11,057.3	9,896.6	41.9	47.3	-112.41	2,495.8	663.9	3,568.7	3,484.7	84.06	42.456		
9,900.0	8,575.0	11,157.3	9,898.2	43.6	48.9	-112.44	2,495.9	763.9	3,569.4	3,482.3	87.11	40.977		
10,000.0	8,575.0	11,257.3	9,899.9	45.3	50.7	-112.46	2,496.0	863.9	3,570.0	3,479.7	90.28	39.542		
10,100.0	8,575.0	11,357.3	9,901.5	47.0	52.5	-112.49	2,496.2	963.8	3,570.6	3,477.1	93.58	38.157		
10,200.0	8,575.0	11,457.2	9,903.2	48.9	54.3	-112.51	2,496.3	1,063.8	3,571.3	3,474.3	96.97	36.828		
10,300.0	8,575.0	11,557.2	9,904.8	50.8	56.2	-112.53	2,496.4	1,163.8	3,571.9	3,471.5	100.46	35.557		
10,400.0	8,575.0	11,657.2	9,906.4	52.7	58.1	-112.56	2,496.5	1,263.8	3,572.5	3,468.5	104.02	34.343		
10,500.0	8,575.0	11,757.2	9,908.1	54.7	60.1	-112.58	2,496.7	1,363.7	3,573.2	3,465.5	107.67	33.187		
10,600.0	8,575.0	11,857.2	9,909.7	56.7	62.1	-112.61	2,496.8	1,463.7	3,573.8	3,462.4	111.38	32.088		
10,700.0	8,575.0	11,957.2	9,911.4	58.7	64.1	-112.63	2,496.9	1,563.7	3,574.5	3,459.3	115.14	31.043		
10,800.0	8,575.0	12,057.2	9,913.0	60.8	66.2	-112.65	2,497.0	1,663.7	3,575.1	3,456.1	118.97	30.051		
10,900.0	8,575.0	12,157.1	9,914.6	62.9	68.3	-112.68	2,497.1	1,763.6	3,575.7	3,452.9	122.84	29.109		
11,000.0	8,575.0	12,257.1	9,916.3	65.0	70.4	-112.70	2,497.3	1,863.6	3,576.4	3,449.6	126.75	28.215		
11,100.0	8,575.0	12,357.1	9,917.9	67.1	72.5	-112.73	2,497.4	1,963.6	3,577.0	3,446.3	130.71	27.366		
11,200.0	8,575.0	12,457.1	9,919.6	69.3	74.7	-112.75	2,497.5	2,063.5	3,577.7	3,443.0	134.70	26.560		
11,300.0	8,575.0	12,557.1	9,921.2	71.5	76.9	-112.78	2,497.6	2,163.5	3,578.3	3,439.6	138.72	25.794		
11,400.0	8,575.0	12,657.1	9,922.8	73.7	79.1	-112.80	2,497.8	2,263.5	3,578.9	3,436.2	142.78	25.066		
11,500.0	8,575.0	12,757.1	9,924.5	75.9	81.3	-112.82	2,497.9	2,363.5	3,579.6	3,432.7	146.86	24.374		
11,600.0	8,575.0	12,857.1	9,926.1	78.2	83.5	-112.85	2,498.0	2,463.4	3,580.2	3,429.3	150.97	23.715		
11,700.0	8,575.0	12,957.0	9,927.8	80.4	85.7	-112.87	2,498.1	2,563.4	3,580.9	3,425.8	155.10	23.087		
11,800.0	8,575.0	13,057.0	9,929.4	82.7	88.0	-112.90	2,498.2	2,663.4	3,581.5	3,422.3	159.25	22.490		
11,900.0	8,575.0	13,157.0	9,931.0	84.9	90.2	-112.92	2,498.4	2,763.4	3,582.2	3,418.7	163.42	21.920		
12,000.0	8,575.0	13,257.0	9,932.7	87.2	92.5	-112.94	2,498.5	2,863.3	3,582.8	3,415.2	167.61	21.376		
12,100.0	8,575.0	13,357.0	9,934.3	89.5	94.8	-112.97	2,498.6	2,963.3	3,583.4	3,411.6	171.82	20.856		
12,200.0	8,575.0	13,457.0	9,936.0	91.8	97.0	-112.99	2,498.7	3,063.3	3,584.1	3,408.1	176.04	20.360		
12,300.0	8,575.0	13,557.0	9,937.6	94.1	99.3	-113.02	2,498.9	3,163.3	3,584.7	3,404.5	180.27	19.885		
12,400.0	8,575.0	13,656.9	9,939.2	96.4	101.6	-113.04	2,499.0	3,263.2	3,585.4	3,400.9	184.52	19.431		
12,500.0	8,575.0	13,756.9	9,940.9	98.7	103.9	-113.07	2,499.1	3,363.2	3,586.0	3,397.3	188.78	18.996		
12,600.0	8,575.0	13,856.9	9,942.5	101.0	106.3	-113.09	2,499.2	3,463.2	3,586.7	3,393.6	193.05	18.579		
12,700.0	8,575.0	13,956.9	9,944.2	103.4	108.6	-113.11	2,499.3	3,563.1	3,587.3	3,390.0	197.33	18.180		
12,800.0	8,575.0	14,056.9	9,945.8	105.7	110.9	-113.14	2,499.5	3,663.1	3,588.0	3,386.4	201.61	17.796		
12,900.0	8,575.0	14,156.9	9,947.4	108.0	113.2	-113.16	2,499.6	3,763.1	3,588.6	3,382.7	205.91	17.428		
13,000.0	8,575.0	14,256.9	9,949.1	110.4	115.6	-113.19	2,499.7	3,863.1	3,589.3	3,379.1	210.22	17.074		
13,100.0	8,575.0	14,356.9	9,950.7	112.7	117.9	-113.21	2,499.8	3,963.0	3,589.9	3,375.4	214.53	16.734		
13,200.0	8,575.0	14,456.8	9,952.4	115.1	120.2	-113.23	2,500.0	4,063.0	3,590.6	3,371.7	218.85	16.406		
13,300.0	8,575.0	14,556.8	9,954.0	117.5	122.6	-113.26	2,500.1	4,163.0	3,591.3	3,368.1	223.18	16.091		
13,400.0	8,575.0	14,656.8	9,955.6	119.8	125.0	-113.28	2,500.2	4,263.0	3,591.9	3,364.4	227.51	15.788		
13,500.0	8,575.0	14,756.8	9,957.3	122.2	127.3	-113.31	2,500.3	4,362.9	3,592.6	3,360.7	231.85	15.495		
13,600.0	8,575.0	14,856.8	9,958.9	124.6	129.7	-113.33	2,500.4	4,462.9	3,593.2	3,357.0	236.20	15.213		
13,700.0	8,575.0	14,956.8	9,960.6	126.9	132.0	-113.35	2,500.6	4,562.9	3,593.9	3,353.3	240.54	14.941		
13,800.0	8,575.0	15,056.8	9,962.2	129.3	134.4	-113.38	2,500.7	4,662.8	3,594.5	3,349.6	244.90	14.678		
13,900.0	8,575.0	15,156.7	9,963.8	131.7	136.8	-113.40	2,500.8	4,762.8	3,595.2	3,345.9	249.25	14.424		
14,000.0	8,575.0	15,256.7	9,965.5	134.1	139.1	-113.43	2,500.9	4,862.8	3,595.8	3,342.2	253.62	14.178		
14,100.0	8,575.0	15,356.7	9,967.1	136.4	141.5	-113.45	2,501.1	4,962.8	3,596.5	3,338.5	257.98	13.941		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	8,575.0	15,456.7	9,968.8	138.8	143.9	-113.47	2,501.2	5,062.7	3,597.2	3,334.8	262.35	13.711		
14,300.0	8,575.0	15,556.7	9,970.4	141.2	146.3	-113.50	2,501.3	5,162.7	3,597.8	3,331.1	266.72	13.489		
14,400.0	8,575.0	15,656.7	9,972.0	143.6	148.7	-113.52	2,501.4	5,262.7	3,598.5	3,327.4	271.09	13.274		
14,500.0	8,575.0	15,756.7	9,973.7	146.0	151.1	-113.54	2,501.5	5,362.7	3,599.1	3,323.7	275.47	13.065		
14,600.0	8,575.0	15,856.7	9,975.3	148.4	153.4	-113.57	2,501.7	5,462.6	3,599.8	3,320.0	279.85	12.863		
14,700.0	8,575.0	15,956.6	9,977.0	150.8	155.8	-113.59	2,501.8	5,562.6	3,600.5	3,316.2	284.23	12.667		
14,800.0	8,575.0	16,056.6	9,978.6	153.2	158.2	-113.62	2,501.9	5,662.6	3,601.1	3,312.5	288.62	12.477		
14,900.0	8,575.0	16,156.6	9,980.2	155.6	160.6	-113.64	2,502.0	5,762.5	3,601.8	3,308.8	293.00	12.293		
15,000.0	8,575.0	16,256.6	9,981.9	158.0	163.0	-113.66	2,502.2	5,862.5	3,602.5	3,305.1	297.39	12.114		
15,100.0	8,575.0	16,356.6	9,983.5	160.4	165.4	-113.69	2,502.3	5,962.5	3,603.1	3,301.4	301.78	11.940		
15,200.0	8,575.0	16,456.6	9,985.2	162.8	167.8	-113.71	2,502.4	6,062.5	3,603.8	3,297.6	306.17	11.771		
15,300.0	8,575.0	16,556.6	9,986.8	165.2	170.2	-113.74	2,502.5	6,162.4	3,604.5	3,293.9	310.56	11.606		
15,400.0	8,575.0	16,656.5	9,988.4	167.6	172.6	-113.76	2,502.6	6,262.4	3,605.1	3,290.2	314.96	11.446		
15,500.0	8,575.0	16,756.5	9,990.1	170.0	175.0	-113.78	2,502.8	6,362.4	3,605.8	3,286.4	319.35	11.291		
15,600.0	8,575.0	16,856.5	9,991.7	172.5	177.4	-113.81	2,502.9	6,462.4	3,606.5	3,282.7	323.75	11.140		
15,700.0	8,575.0	16,956.5	9,993.4	174.9	179.8	-113.83	2,503.0	6,562.3	3,607.1	3,279.0	328.14	10.993		
15,800.0	8,575.0	17,056.5	9,995.0	177.3	182.2	-113.85	2,503.1	6,662.3	3,607.8	3,275.3	332.54	10.849		
15,900.0	8,575.0	17,156.5	9,996.6	179.7	184.7	-113.88	2,503.3	6,762.3	3,608.5	3,271.5	336.94	10.710		
16,000.0	8,575.0	17,256.5	9,998.3	182.1	187.1	-113.90	2,503.4	6,862.3	3,609.1	3,267.8	341.34	10.574		
16,100.0	8,575.0	17,356.5	9,999.9	184.5	189.5	-113.93	2,503.5	6,962.2	3,609.8	3,264.1	345.73	10.441		
16,200.0	8,575.0	17,456.4	10,001.6	187.0	191.9	-113.95	2,503.6	7,062.2	3,610.5	3,260.4	350.13	10.312		
16,300.0	8,575.0	17,556.4	10,003.2	189.4	194.3	-113.97	2,503.7	7,162.2	3,611.2	3,256.6	354.53	10.186		
16,400.0	8,575.0	17,656.4	10,004.8	191.8	196.7	-114.00	2,503.9	7,262.1	3,611.8	3,252.9	358.93	10.063		
16,500.0	8,575.0	17,756.4	10,006.5	194.2	199.1	-114.02	2,504.0	7,362.1	3,612.5	3,249.2	363.34	9.943		
16,600.0	8,575.0	17,856.4	10,008.1	196.6	201.6	-114.04	2,504.1	7,462.1	3,613.2	3,245.4	367.74	9.825		
16,700.0	8,575.0	17,956.4	10,009.8	199.1	204.0	-114.07	2,504.2	7,562.1	3,613.9	3,241.7	372.14	9.711		
16,800.0	8,575.0	18,056.4	10,011.4	201.5	206.4	-114.09	2,504.3	7,662.0	3,614.5	3,238.0	376.54	9.599		
16,900.0	8,575.0	18,156.3	10,013.1	203.9	208.8	-114.12	2,504.5	7,762.0	3,615.2	3,234.3	380.94	9.490		
17,000.0	8,575.0	18,256.3	10,014.7	206.3	211.2	-114.14	2,504.6	7,862.0	3,615.9	3,230.6	385.34	9.384		
17,100.0	8,575.0	18,356.3	10,016.3	208.8	213.7	-114.16	2,504.7	7,962.0	3,616.6	3,226.8	389.74	9.279		
17,200.0	8,575.0	18,456.3	10,018.0	211.2	216.1	-114.19	2,504.8	8,061.9	3,617.2	3,223.1	394.14	9.178		
17,300.0	8,575.0	18,556.3	10,019.6	213.6	218.5	-114.21	2,505.0	8,161.9	3,617.9	3,219.4	398.54	9.078		
17,400.0	8,575.0	18,656.3	10,021.3	216.0	220.9	-114.23	2,505.1	8,261.9	3,618.6	3,215.7	402.94	8.980		
17,500.0	8,575.0	18,756.3	10,022.9	218.5	223.3	-114.26	2,505.2	8,361.8	3,619.3	3,211.9	407.34	8.885		
17,600.0	8,575.0	18,856.2	10,024.5	220.9	225.8	-114.28	2,505.3	8,461.8	3,620.0	3,208.2	411.74	8.792		
17,700.0	8,575.0	18,956.2	10,026.2	223.3	228.2	-114.30	2,505.4	8,561.8	3,620.6	3,204.5	416.14	8.700		
17,800.0	8,575.0	19,056.2	10,027.8	225.8	230.6	-114.33	2,505.6	8,661.8	3,621.3	3,200.8	420.54	8.611		
17,900.0	8,575.0	19,156.2	10,029.5	228.2	233.1	-114.35	2,505.7	8,761.7	3,622.0	3,197.1	424.94	8.524		
18,000.0	8,575.0	19,256.2	10,031.1	230.6	235.5	-114.38	2,505.8	8,861.7	3,622.7	3,193.4	429.34	8.438		
18,100.0	8,575.0	19,356.2	10,032.7	233.0	237.9	-114.40	2,505.9	8,961.7	3,623.4	3,189.6	433.74	8.354		
18,200.0	8,575.0	19,456.2	10,034.4	235.5	240.3	-114.42	2,506.1	9,061.7	3,624.1	3,185.9	438.13	8.272		
18,300.0	8,575.0	19,556.2	10,036.0	237.9	242.8	-114.45	2,506.2	9,161.6	3,624.7	3,182.2	442.53	8.191		
18,400.0	8,575.0	19,656.1	10,037.7	240.3	245.2	-114.47	2,506.3	9,261.6	3,625.4	3,178.5	446.93	8.112		
18,500.0	8,575.0	19,756.1	10,039.3	242.8	247.6	-114.49	2,506.4	9,361.6	3,626.1	3,174.8	451.32	8.034		
18,600.0	8,575.0	19,856.1	10,040.9	245.2	250.1	-114.52	2,506.5	9,461.6	3,626.8	3,171.1	455.72	7.958		
18,700.0	8,575.0	19,956.1	10,042.6	247.6	252.5	-114.54	2,506.7	9,561.5	3,627.5	3,167.4	460.11	7.884		
18,800.0	8,575.0	20,056.1	10,044.2	250.1	254.9	-114.56	2,506.8	9,661.5	3,628.2	3,163.7	464.50	7.811		
18,900.0	8,575.0	20,156.1	10,045.9	252.5	257.3	-114.59	2,506.9	9,761.5	3,628.9	3,160.0	468.90	7.739		
19,000.0	8,575.0	20,256.1	10,047.5	255.0	259.8	-114.61	2,507.0	9,861.4	3,629.6	3,156.3	473.29	7.669		
19,100.0	8,575.0	20,356.0	10,049.1	257.4	262.2	-114.63	2,507.2	9,961.4	3,630.3	3,152.6	477.68	7.600		
19,200.0	8,575.0	20,456.0	10,050.8	259.8	264.6	-114.66	2,507.3	10,061.4	3,630.9	3,148.9	482.07	7.532		
19,300.0	8,575.0	20,556.0	10,052.4	262.3	267.1	-114.68	2,507.4	10,161.4	3,631.6	3,145.2	486.46	7.465		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #224H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	8,575.0	20,656.0	10,054.1	264.7	269.5	-114.70	2,507.5	10,261.3	3,632.3	3,141.5	490.85	7.400	
19,500.0	8,575.0	20,756.0	10,055.7	267.1	272.0	-114.73	2,507.6	10,361.3	3,633.0	3,137.8	495.24	7.336	
19,600.0	8,575.0	20,856.0	10,057.3	269.6	274.4	-114.75	2,507.8	10,461.3	3,633.7	3,134.1	499.62	7.273	
19,700.0	8,575.0	20,956.0	10,059.0	272.0	276.8	-114.78	2,507.9	10,561.3	3,634.4	3,130.4	504.01	7.211	
19,800.0	8,575.0	21,056.0	10,060.6	274.5	279.3	-114.80	2,508.0	10,661.2	3,635.1	3,126.7	508.40	7.150	
19,900.0	8,575.0	21,155.9	10,062.3	276.9	281.7	-114.82	2,508.1	10,761.2	3,635.8	3,123.0	512.78	7.090	
20,000.0	8,575.0	21,255.9	10,063.9	279.3	284.1	-114.85	2,508.3	10,861.2	3,636.5	3,119.3	517.16	7.032	
20,100.0	8,575.0	21,355.9	10,065.5	281.8	286.6	-114.87	2,508.4	10,961.1	3,637.2	3,115.6	521.55	6.974	
20,200.0	8,575.0	21,455.9	10,067.2	284.2	289.0	-114.89	2,508.5	11,061.1	3,637.9	3,112.0	525.93	6.917	
20,300.0	8,575.0	21,555.9	10,068.8	286.6	291.4	-114.92	2,508.6	11,161.1	3,638.6	3,108.3	530.31	6.861	
20,400.0	8,575.0	21,655.9	10,070.5	289.1	293.9	-114.94	2,508.7	11,261.1	3,639.3	3,104.6	534.69	6.806	
20,500.0	8,575.0	21,755.9	10,072.1	291.5	296.3	-114.96	2,508.9	11,361.0	3,640.0	3,100.9	539.07	6.752	
20,600.0	8,575.0	21,855.8	10,073.7	294.0	298.8	-114.99	2,509.0	11,461.0	3,640.7	3,097.2	543.44	6.699	
20,700.0	8,575.0	21,955.8	10,075.4	296.4	301.2	-115.01	2,509.1	11,561.0	3,641.4	3,093.6	547.82	6.647	
20,800.0	8,575.0	22,055.8	10,077.0	298.9	303.6	-115.03	2,509.2	11,661.0	3,642.1	3,089.9	552.19	6.596	
20,900.0	8,575.0	22,155.8	10,078.7	301.3	306.1	-115.06	2,509.4	11,760.9	3,642.8	3,086.2	556.57	6.545	
21,000.0	8,575.0	22,255.8	10,080.3	303.7	308.5	-115.08	2,509.5	11,860.9	3,643.5	3,082.5	560.94	6.495	
21,100.0	8,575.0	22,355.8	10,081.9	306.2	310.9	-115.10	2,509.6	11,960.9	3,644.2	3,078.9	565.31	6.446	
21,200.0	8,575.0	22,459.4	10,083.2	308.6	313.5	-115.12	2,509.9	12,064.4	3,644.8	3,075.0	569.80	6.397	
21,213.6	8,575.0	22,472.9	10,083.4	309.0	313.8	-115.12	2,509.9	12,078.0	3,644.9	3,074.5	570.40	6.390 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	-15.73	2,169.1	-610.9	2,253.8					
100.0	100.0	63.0	63.0	0.1	0.1	-15.73	2,169.1	-610.9	2,253.5	2,253.3	0.21	N/A		
200.0	200.0	163.0	163.0	0.5	0.4	-15.73	2,169.1	-610.9	2,253.5	2,252.6	0.84	2,680.760		
300.0	300.0	263.0	263.0	0.8	0.7	-15.73	2,169.1	-610.9	2,253.5	2,251.9	1.56	1,446.809		
400.0	400.0	363.0	363.0	1.2	1.1	-15.73	2,169.1	-610.9	2,253.5	2,251.2	2.27	990.762		
500.0	500.0	463.0	463.0	1.6	1.4	-15.73	2,169.1	-610.9	2,253.5	2,250.5	2.99	753.311		
600.0	600.0	563.0	563.0	1.9	1.8	-15.73	2,169.1	-610.9	2,253.5	2,249.8	3.71	607.674		
700.0	700.0	663.0	663.0	2.3	2.1	-15.73	2,169.1	-610.9	2,253.5	2,249.1	4.43	509.225		
800.0	800.0	763.0	763.0	2.6	2.5	-15.73	2,169.1	-610.9	2,253.5	2,248.3	5.14	438.228		
900.0	900.0	863.0	863.0	3.0	2.9	-15.73	2,169.1	-610.9	2,253.5	2,247.6	5.86	384.606		
1,000.0	1,000.0	963.0	963.0	3.4	3.2	-15.73	2,169.1	-610.9	2,253.5	2,246.9	6.58	342.676		
1,100.0	1,100.0	1,063.0	1,063.0	3.7	3.6	123.48	2,169.1	-610.9	2,254.7	2,247.4	7.28	309.805		
1,200.0	1,199.7	1,162.7	1,162.7	4.0	3.9	123.54	2,169.1	-610.9	2,258.3	2,250.3	7.97	283.373		
1,300.0	1,299.1	1,262.1	1,262.1	4.4	4.3	123.65	2,169.1	-610.9	2,264.4	2,255.7	8.67	261.214		
1,372.0	1,370.4	1,333.4	1,333.4	4.6	4.5	123.74	2,169.1	-610.9	2,270.2	2,261.1	9.18	247.349		
1,400.0	1,398.0	1,361.0	1,361.0	4.7	4.6	123.84	2,169.1	-610.9	2,272.8	2,263.4	9.38	242.352		
1,500.0	1,496.7	1,459.7	1,459.7	5.1	5.0	124.17	2,169.1	-610.9	2,281.9	2,271.8	10.09	226.046		
1,600.0	1,595.4	1,593.1	1,593.1	5.5	5.5	124.61	2,168.4	-611.0	2,290.7	2,279.7	10.93	209.621		
1,700.0	1,694.1	1,751.4	1,751.3	5.9	6.0	125.09	2,163.6	-611.5	2,297.1	2,285.3	11.82	194.342		
1,800.0	1,792.7	1,910.5	1,910.1	6.3	6.5	125.54	2,154.5	-612.6	2,301.1	2,288.4	12.72	180.888		
1,900.0	1,891.4	2,070.1	2,069.2	6.7	7.1	125.94	2,141.0	-614.1	2,302.6	2,288.9	13.63	168.940		
2,000.0	1,990.1	2,230.0	2,228.1	7.1	7.6	126.31	2,123.0	-616.2	2,301.4	2,286.9	14.54	158.276		
2,100.0	2,088.8	2,356.0	2,352.9	7.5	8.1	126.58	2,106.0	-618.2	2,298.2	2,282.8	15.36	149.660		
2,200.0	2,187.5	2,455.6	2,451.5	7.9	8.4	126.79	2,092.2	-619.8	2,294.6	2,278.5	16.10	142.528		
2,300.0	2,286.2	2,555.2	2,550.1	8.3	8.8	127.00	2,078.5	-621.4	2,291.2	2,274.3	16.85	135.993		
2,400.0	2,384.9	2,654.8	2,648.8	8.8	9.2	127.21	2,064.7	-623.0	2,287.7	2,270.1	17.60	129.989		
2,500.0	2,483.5	2,754.4	2,747.4	9.2	9.6	127.42	2,050.9	-624.7	2,284.3	2,266.0	18.35	124.458		
2,600.0	2,582.2	2,854.0	2,846.0	9.6	10.0	127.63	2,037.2	-626.3	2,280.9	2,261.8	19.11	119.350		
2,700.0	2,680.9	2,953.6	2,944.6	10.1	10.3	127.84	2,023.4	-627.9	2,277.6	2,257.7	19.87	114.619		
2,800.0	2,779.6	3,053.1	3,043.2	10.5	10.7	128.05	2,009.6	-629.5	2,274.2	2,253.6	20.63	110.229		
2,900.0	2,878.3	3,152.7	3,141.8	10.9	11.1	128.27	1,995.9	-631.1	2,271.0	2,249.6	21.40	106.144		
3,000.0	2,977.0	3,252.3	3,240.5	11.3	11.5	128.48	1,982.1	-632.7	2,267.7	2,245.5	22.16	102.336		
3,100.0	3,075.7	3,351.9	3,339.1	11.8	11.9	128.69	1,968.3	-634.3	2,264.5	2,241.5	22.92	98.778		
3,200.0	3,174.3	3,451.5	3,437.7	12.2	12.3	128.91	1,954.6	-635.9	2,261.3	2,237.6	23.69	95.448		
3,300.0	3,273.0	3,551.1	3,536.3	12.6	12.7	129.12	1,940.8	-637.5	2,258.1	2,233.7	24.46	92.324		
3,400.0	3,371.7	3,650.7	3,634.9	13.1	13.1	129.34	1,927.0	-639.1	2,255.0	2,229.8	25.23	89.390		
3,500.0	3,470.4	3,750.3	3,733.5	13.5	13.5	129.56	1,913.3	-640.7	2,251.9	2,225.9	25.99	86.628		
3,600.0	3,569.1	3,849.8	3,832.2	14.0	13.9	129.77	1,899.5	-642.3	2,248.8	2,222.1	26.76	84.025		
3,700.0	3,667.8	3,949.4	3,930.8	14.4	14.3	129.99	1,885.7	-643.9	2,245.8	2,218.2	27.53	81.568		
3,800.0	3,766.5	4,049.0	4,029.4	14.8	14.7	130.21	1,872.0	-645.5	2,242.8	2,214.5	28.30	79.244		
3,900.0	3,865.1	4,148.6	4,128.0	15.3	15.1	130.43	1,858.2	-647.1	2,239.8	2,210.7	29.07	77.044		
4,000.0	3,963.8	4,248.2	4,226.6	15.7	15.5	130.65	1,844.4	-648.7	2,236.9	2,207.0	29.84	74.959		
4,100.0	4,062.5	4,347.8	4,325.2	16.1	15.9	130.87	1,830.7	-650.3	2,234.0	2,203.4	30.61	72.980		
4,200.0	4,161.2	4,447.4	4,423.9	16.6	16.4	131.09	1,816.9	-651.9	2,231.1	2,199.7	31.38	71.098		
4,300.0	4,259.9	4,546.9	4,522.5	17.0	16.8	131.31	1,803.1	-653.6	2,228.3	2,196.1	32.15	69.308		
4,400.0	4,358.6	4,646.5	4,621.1	17.5	17.2	131.53	1,789.4	-655.2	2,225.5	2,192.5	32.92	67.603		
4,500.0	4,457.3	4,746.1	4,719.7	17.9	17.6	131.75	1,775.6	-656.8	2,222.7	2,189.0	33.69	65.978		
4,600.0	4,555.9	4,845.7	4,818.3	18.3	18.0	131.98	1,761.8	-658.4	2,220.0	2,185.5	34.46	64.426		
4,700.0	4,654.6	4,945.3	4,916.9	18.8	18.4	132.20	1,748.1	-660.0	2,217.3	2,182.0	35.23	62.943		
4,800.0	4,753.3	5,044.9	5,015.6	19.2	18.8	132.42	1,734.3	-661.6	2,214.6	2,178.6	36.00	61.525		
4,900.0	4,852.0	5,144.5	5,114.2	19.7	19.2	132.65	1,720.5	-663.2	2,212.0	2,175.2	36.76	60.168		
5,000.0	4,950.7	5,244.0	5,212.8	20.1	19.7	132.87	1,706.8	-664.8	2,209.4	2,171.8	37.53	58.868		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	5,049.4	5,343.6	5,311.4	20.6	20.1	133.10	1,693.0	-666.4	2,206.8	2,168.5	38.30	57.621		
5,200.0	5,148.1	5,443.2	5,410.0	21.0	20.5	133.32	1,679.2	-668.0	2,204.3	2,165.2	39.07	56.425		
5,300.0	5,246.7	5,542.8	5,508.6	21.4	20.9	133.55	1,665.5	-669.6	2,201.8	2,161.9	39.83	55.276		
5,400.0	5,345.4	5,642.4	5,607.3	21.9	21.3	133.78	1,651.7	-671.2	2,199.3	2,158.7	40.60	54.172		
5,500.0	5,444.1	5,742.0	5,705.9	22.3	21.7	134.00	1,637.9	-672.8	2,196.9	2,155.5	41.36	53.110		
5,600.0	5,542.8	5,841.6	5,804.5	22.8	22.1	134.23	1,624.2	-674.4	2,194.5	2,152.4	42.13	52.088		
5,700.0	5,641.5	5,941.1	5,903.1	23.2	22.6	134.46	1,610.4	-676.0	2,192.1	2,149.3	42.90	51.105		
5,800.0	5,740.2	6,040.7	6,001.7	23.7	23.0	134.69	1,596.6	-677.6	2,189.8	2,146.2	43.66	50.156		
5,900.0	5,838.9	6,140.3	6,100.4	24.1	23.4	134.92	1,582.9	-679.2	2,187.5	2,143.1	44.42	49.242		
6,000.0	5,937.5	6,239.9	6,199.0	24.5	23.8	135.15	1,569.1	-680.9	2,185.3	2,140.1	45.19	48.360		
6,100.0	6,036.2	6,339.5	6,297.6	25.0	24.2	135.38	1,555.3	-682.5	2,183.1	2,137.1	45.95	47.509		
6,200.0	6,134.9	6,439.1	6,396.2	25.4	24.6	135.61	1,541.6	-684.1	2,180.9	2,134.2	46.71	46.687		
6,300.0	6,233.6	6,538.7	6,494.8	25.9	25.1	135.84	1,527.8	-685.7	2,178.8	2,131.3	47.48	45.892		
6,400.0	6,332.3	6,638.3	6,593.4	26.3	25.5	136.07	1,514.0	-687.3	2,176.7	2,128.4	48.24	45.124		
6,500.0	6,431.0	6,737.8	6,692.1	26.8	25.9	136.30	1,500.3	-688.9	2,174.6	2,125.6	49.00	44.380		
6,600.0	6,529.6	6,837.4	6,790.7	27.2	26.3	136.54	1,486.5	-690.5	2,172.5	2,122.8	49.76	43.661		
6,700.0	6,628.3	6,937.0	6,889.3	27.6	26.7	136.77	1,472.7	-692.1	2,170.5	2,120.0	50.52	42.965		
6,800.0	6,727.0	7,036.6	6,987.9	28.1	27.2	137.00	1,459.0	-693.7	2,168.6	2,117.3	51.28	42.290		
6,900.0	6,825.7	7,136.2	7,086.5	28.5	27.6	137.24	1,445.2	-695.3	2,166.7	2,114.6	52.04	41.636		
7,000.0	6,924.4	7,235.8	7,185.1	29.0	28.0	137.47	1,431.4	-696.9	2,164.8	2,112.0	52.80	41.002		
7,100.0	7,023.1	7,335.4	7,283.8	29.4	28.4	137.71	1,417.7	-698.5	2,162.9	2,109.4	53.55	40.387		
7,200.0	7,121.8	7,434.9	7,382.4	29.9	28.8	137.94	1,403.9	-700.1	2,161.1	2,106.8	54.31	39.790		
7,300.0	7,220.4	7,534.5	7,481.0	30.3	29.2	138.18	1,390.1	-701.7	2,159.3	2,104.2	55.07	39.211		
7,400.0	7,319.1	7,634.1	7,579.6	30.7	29.7	138.41	1,376.4	-703.3	2,157.6	2,101.7	55.83	38.648		
7,466.5	7,384.7	7,700.3	7,645.1	31.0	29.9	138.57	1,367.2	-704.4	2,156.4	2,100.1	56.33	38.283		
7,500.0	7,417.8	7,733.7	7,678.2	31.2	30.1	138.64	1,362.6	-704.9	2,155.8	2,099.2	56.58	38.100		
7,600.0	7,516.9	7,833.4	7,776.9	31.6	30.5	138.81	1,348.8	-706.5	2,152.4	2,095.1	57.33	37.545		
7,700.0	7,616.2	7,933.1	7,875.6	32.0	30.9	138.91	1,335.0	-708.2	2,147.2	2,089.1	58.07	36.977		
7,800.0	7,715.8	8,032.7	7,974.3	32.4	31.3	138.95	1,321.3	-709.8	2,140.0	2,081.2	58.80	36.396		
7,900.0	7,815.6	8,132.3	8,072.9	32.8	31.8	138.92	1,307.5	-711.4	2,130.8	2,071.3	59.51	35.803		
8,000.0	7,915.5	8,231.6	8,171.3	33.1	32.2	138.82	1,293.8	-713.0	2,119.6	2,059.4	60.22	35.197		
8,086.5	8,002.0	8,300.0	8,239.0	33.3	32.5	-0.49	1,284.3	-714.1	2,108.5	2,047.7	60.77	34.698		
8,100.0	8,015.5	8,315.8	8,254.7	33.4	32.5	-90.48	1,282.2	-714.3	2,106.7	2,045.8	60.86	34.613		
8,150.0	8,065.4	8,347.8	8,286.4	33.5	32.7	-91.19	1,278.2	-714.8	2,100.4	2,039.3	61.14	34.355		
8,200.0	8,114.8	8,379.4	8,317.8	33.6	32.8	-91.92	1,274.4	-715.2	2,094.6	2,033.2	61.40	34.115		
8,250.0	8,163.3	8,400.0	8,338.2	33.7	32.9	-92.57	1,272.1	-715.5	2,089.4	2,027.8	61.61	33.917		
8,300.0	8,210.6	8,441.0	8,379.0	33.8	33.0	-93.40	1,267.8	-716.0	2,084.9	2,023.0	61.87	33.698		
8,350.0	8,256.3	8,470.4	8,408.3	33.8	33.2	-94.11	1,265.0	-716.3	2,081.2	2,019.1	62.09	33.521		
8,400.0	8,300.1	8,500.0	8,437.8	33.9	33.3	-94.80	1,262.4	-716.6	2,078.3	2,016.0	62.29	33.363		
8,450.0	8,341.6	8,525.4	8,463.1	33.9	33.4	-95.38	1,260.4	-716.9	2,076.5	2,014.0	62.48	33.233		
8,500.0	8,380.6	8,550.5	8,488.1	33.9	33.5	-95.89	1,258.6	-717.1	2,075.8	2,013.1	62.67	33.122		
8,505.0	8,384.3	8,552.9	8,490.5	33.9	33.5	-95.94	1,258.4	-717.1	2,075.8	2,013.1	62.69	33.112 CC, ES		
8,550.0	8,416.6	8,573.8	8,511.3	33.9	33.5	-96.29	1,257.0	-717.3	2,076.3	2,013.4	62.86	33.032		
8,600.0	8,449.5	8,600.0	8,537.5	33.9	33.6	-96.66	1,255.4	-717.4	2,078.1	2,015.1	63.07	32.951		
8,650.0	8,479.0	8,614.1	8,551.6	33.9	33.7	-96.66	1,254.6	-717.5	2,081.3	2,018.1	63.24	32.913		
8,700.0	8,504.8	8,630.8	8,568.3	33.9	33.8	-96.59	1,253.7	-717.6	2,086.0	2,022.6	63.44	32.881		
8,750.0	8,526.9	8,645.1	8,582.6	33.8	33.8	-96.33	1,253.0	-717.7	2,092.2	2,028.5	63.65	32.868		
8,800.0	8,544.9	8,656.8	8,594.2	33.8	33.8	-95.85	1,252.5	-717.8	2,099.9	2,036.0	63.88	32.872		
8,850.0	8,558.8	8,665.7	8,603.2	33.8	33.9	-95.16	1,252.2	-717.8	2,109.1	2,045.0	64.12	32.893		
8,900.0	8,568.4	8,671.9	8,609.3	33.7	33.9	-94.23	1,251.9	-717.8	2,119.8	2,055.4	64.37	32.931		
8,950.0	8,573.8	8,675.3	8,612.7	33.7	33.9	-93.08	1,251.8	-717.9	2,131.9	2,067.3	64.63	32.988		
8,986.5	8,575.0	8,675.9	8,613.4	33.7	33.9	-92.10	1,251.7	-717.9	2,141.6	2,076.7	64.82	33.040		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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		
8,993.2	8,575.0	8,675.9	8,613.3	33.8	33.9	-92.10	1,251.7	-717.9	2,143.4	2,078.6	64.85	33.051		
9,000.0	8,575.0	8,675.9	8,613.3	33.8	33.9	-92.10	1,251.8	-717.9	2,145.3	2,080.4	64.89	33.062		
9,100.0	8,575.0	8,675.6	8,613.0	33.9	33.9	-92.09	1,251.8	-717.9	2,175.7	2,110.2	65.47	33.232		
9,200.0	8,575.0	8,675.3	8,612.7	34.4	33.9	-92.08	1,251.8	-717.9	2,210.1	2,144.0	66.13	33.420		
9,300.0	8,575.0	8,675.0	8,612.4	35.3	33.9	-92.07	1,251.8	-717.9	2,248.5	2,181.7	66.86	33.632		
9,400.0	8,575.0	8,674.7	8,612.1	36.3	33.9	-92.07	1,251.8	-717.9	2,290.6	2,223.0	67.62	33.873		
9,500.0	8,575.0	8,674.4	8,611.8	37.6	33.9	-92.06	1,251.8	-717.9	2,336.3	2,267.9	68.42	34.146		
9,600.0	8,575.0	8,674.1	8,611.5	38.9	33.9	-92.05	1,251.8	-717.9	2,385.2	2,316.0	69.23	34.454		
9,700.0	8,575.0	11,042.6	9,949.0	40.4	46.7	-125.48	1,176.3	566.2	2,431.2	2,355.2	76.04	31.974		
9,800.0	8,575.0	11,142.6	9,950.6	41.9	48.2	-125.51	1,176.4	666.2	2,432.1	2,353.5	78.63	30.933		
9,900.0	8,575.0	11,242.6	9,952.1	43.6	49.8	-125.54	1,176.6	766.2	2,433.0	2,351.7	81.34	29.913		
10,000.0	8,575.0	11,342.6	9,953.6	45.3	51.5	-125.57	1,176.7	866.1	2,433.9	2,349.8	84.15	28.922		
10,100.0	8,575.0	11,442.6	9,955.2	47.0	53.3	-125.60	1,176.8	966.1	2,434.8	2,347.8	87.07	27.964		
10,200.0	8,575.0	11,542.6	9,956.7	48.9	55.1	-125.63	1,176.9	1,066.1	2,435.7	2,345.7	90.08	27.040		
10,300.0	8,575.0	11,642.6	9,958.3	50.8	56.9	-125.66	1,177.0	1,166.1	2,436.6	2,343.5	93.16	26.155		
10,400.0	8,575.0	11,742.6	9,959.8	52.7	58.8	-125.69	1,177.2	1,266.0	2,437.5	2,341.2	96.32	25.307		
10,500.0	8,575.0	11,842.6	9,961.3	54.7	60.8	-125.71	1,177.3	1,366.0	2,438.4	2,338.9	99.54	24.497		
10,600.0	8,575.0	11,942.5	9,962.9	56.7	62.8	-125.74	1,177.4	1,466.0	2,439.3	2,336.5	102.82	23.725		
10,700.0	8,575.0	12,042.5	9,964.4	58.7	64.8	-125.77	1,177.5	1,566.0	2,440.2	2,334.1	106.15	22.989		
10,800.0	8,575.0	12,142.5	9,966.0	60.8	66.8	-125.80	1,177.6	1,665.9	2,441.1	2,331.6	109.53	22.288		
10,900.0	8,575.0	12,242.5	9,967.5	62.9	68.9	-125.83	1,177.8	1,765.9	2,442.0	2,329.1	112.95	21.621		
11,000.0	8,575.0	12,342.5	9,969.0	65.0	71.0	-125.86	1,177.9	1,865.9	2,443.0	2,326.5	116.41	20.986		
11,100.0	8,575.0	12,442.5	9,970.6	67.1	73.1	-125.89	1,178.0	1,965.9	2,443.9	2,324.0	119.90	20.382		
11,200.0	8,575.0	12,542.5	9,972.1	69.3	75.2	-125.92	1,178.1	2,065.9	2,444.8	2,321.3	123.43	19.807		
11,300.0	8,575.0	12,642.5	9,973.6	71.5	77.4	-125.95	1,178.2	2,165.8	2,445.7	2,318.7	126.98	19.260		
11,400.0	8,575.0	12,742.4	9,975.2	73.7	79.5	-125.98	1,178.3	2,265.8	2,446.6	2,316.0	130.56	18.739		
11,500.0	8,575.0	12,842.4	9,976.7	75.9	81.7	-126.01	1,178.5	2,365.8	2,447.5	2,313.3	134.17	18.242		
11,600.0	8,575.0	12,942.4	9,978.3	78.2	83.9	-126.04	1,178.6	2,465.8	2,448.4	2,310.6	137.80	17.768		
11,700.0	8,575.0	13,042.4	9,979.8	80.4	86.1	-126.06	1,178.7	2,565.7	2,449.3	2,307.9	141.44	17.317		
11,800.0	8,575.0	13,142.4	9,981.3	82.7	88.4	-126.09	1,178.8	2,665.7	2,450.2	2,305.1	145.11	16.886		
11,900.0	8,575.0	13,242.4	9,982.9	84.9	90.6	-126.12	1,178.9	2,765.7	2,451.1	2,302.3	148.79	16.474		
12,000.0	8,575.0	13,342.4	9,984.4	87.2	92.9	-126.15	1,179.1	2,865.7	2,452.0	2,299.5	152.49	16.080		
12,100.0	8,575.0	13,442.4	9,986.0	89.5	95.1	-126.18	1,179.2	2,965.6	2,452.9	2,296.7	156.20	15.704		
12,200.0	8,575.0	13,542.4	9,987.5	91.8	97.4	-126.21	1,179.3	3,065.6	2,453.9	2,293.9	159.92	15.344		
12,300.0	8,575.0	13,642.3	9,989.0	94.1	99.7	-126.24	1,179.4	3,165.6	2,454.8	2,291.1	163.65	15.000		
12,400.0	8,575.0	13,742.3	9,990.6	96.4	102.0	-126.27	1,179.5	3,265.6	2,455.7	2,288.3	167.40	14.669		
12,500.0	8,575.0	13,842.3	9,992.1	98.7	104.3	-126.30	1,179.7	3,365.5	2,456.6	2,285.4	171.16	14.353		
12,600.0	8,575.0	13,942.3	9,993.7	101.0	106.6	-126.33	1,179.8	3,465.5	2,457.5	2,282.6	174.92	14.049		
12,700.0	8,575.0	14,042.3	9,995.2	103.4	108.9	-126.35	1,179.9	3,565.5	2,458.4	2,279.7	178.70	13.758		
12,800.0	8,575.0	14,142.3	9,996.7	105.7	111.2	-126.38	1,180.0	3,665.5	2,459.3	2,276.9	182.48	13.478		
12,900.0	8,575.0	14,242.3	9,998.3	108.0	113.5	-126.41	1,180.1	3,765.5	2,460.3	2,274.0	186.26	13.208		
13,000.0	8,575.0	14,342.3	9,999.8	110.4	115.8	-126.44	1,180.2	3,865.4	2,461.2	2,271.1	190.06	12.950		
13,100.0	8,575.0	14,442.2	10,001.3	112.7	118.2	-126.47	1,180.4	3,965.4	2,462.1	2,268.2	193.86	12.700		
13,200.0	8,575.0	14,542.2	10,002.9	115.1	120.5	-126.50	1,180.5	4,065.4	2,463.0	2,265.3	197.66	12.461		
13,300.0	8,575.0	14,642.2	10,004.4	117.5	122.8	-126.53	1,180.6	4,165.4	2,463.9	2,262.4	201.47	12.229		
13,400.0	8,575.0	14,742.2	10,006.0	119.8	125.2	-126.56	1,180.7	4,265.3	2,464.8	2,259.6	205.29	12.007		
13,500.0	8,575.0	14,842.2	10,007.5	122.2	127.5	-126.58	1,180.8	4,365.3	2,465.8	2,256.7	209.11	11.792		
13,600.0	8,575.0	14,942.2	10,009.0	124.6	129.9	-126.61	1,181.0	4,465.3	2,466.7	2,253.8	212.93	11.584		
13,700.0	8,575.0	15,042.2	10,010.6	126.9	132.2	-126.64	1,181.1	4,565.3	2,467.6	2,250.8	216.76	11.384		
13,800.0	8,575.0	15,142.2	10,012.1	129.3	134.6	-126.67	1,181.2	4,665.2	2,468.5	2,247.9	220.59	11.191		
13,900.0	8,575.0	15,242.1	10,013.7	131.7	137.0	-126.70	1,181.3	4,765.2	2,469.4	2,245.0	224.42	11.004		
14,000.0	8,575.0	15,342.1	10,015.2	134.1	139.3	-126.73	1,181.4	4,865.2	2,470.4	2,242.1	228.25	10.823		

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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	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	8,575.0	15,442.1	10,016.7	136.4	141.7	-126.76	1,181.6	4,965.2	2,471.3	2,239.2	232.09	10.648		
14,200.0	8,575.0	15,542.1	10,018.3	138.8	144.1	-126.78	1,181.7	5,065.1	2,472.2	2,236.3	235.93	10.479		
14,300.0	8,575.0	15,642.1	10,019.8	141.2	146.5	-126.81	1,181.8	5,165.1	2,473.1	2,233.4	239.77	10.315		
14,400.0	8,575.0	15,742.1	10,021.3	143.6	148.8	-126.84	1,181.9	5,265.1	2,474.1	2,230.5	243.61	10.156		
14,500.0	8,575.0	15,842.1	10,022.9	146.0	151.2	-126.87	1,182.0	5,365.1	2,475.0	2,227.5	247.46	10.002		
14,600.0	8,575.0	15,942.1	10,024.4	148.4	153.6	-126.90	1,182.1	5,465.0	2,475.9	2,224.6	251.30	9.852		
14,700.0	8,575.0	16,042.1	10,026.0	150.8	156.0	-126.93	1,182.3	5,565.0	2,476.8	2,221.7	255.15	9.708		
14,800.0	8,575.0	16,142.0	10,027.5	153.2	158.4	-126.95	1,182.4	5,665.0	2,477.8	2,218.8	258.99	9.567		
14,900.0	8,575.0	16,242.0	10,029.0	155.6	160.8	-126.98	1,182.5	5,765.0	2,478.7	2,215.9	262.84	9.430		
15,000.0	8,575.0	16,342.0	10,030.6	158.0	163.2	-127.01	1,182.6	5,865.0	2,479.6	2,212.9	266.69	9.298		
15,100.0	8,575.0	16,442.0	10,032.1	160.4	165.6	-127.04	1,182.7	5,964.9	2,480.6	2,210.0	270.54	9.169		
15,200.0	8,575.0	16,542.0	10,033.7	162.8	168.0	-127.07	1,182.9	6,064.9	2,481.5	2,207.1	274.39	9.044		
15,300.0	8,575.0	16,642.0	10,035.2	165.2	170.3	-127.10	1,183.0	6,164.9	2,482.4	2,204.2	278.24	8.922		
15,400.0	8,575.0	16,742.0	10,036.7	167.6	172.7	-127.12	1,183.1	6,264.9	2,483.4	2,201.3	282.09	8.804		
15,500.0	8,575.0	16,842.0	10,038.3	170.0	175.1	-127.15	1,183.2	6,364.8	2,484.3	2,198.4	285.94	8.688		
15,600.0	8,575.0	16,941.9	10,039.8	172.5	177.6	-127.18	1,183.3	6,464.8	2,485.2	2,195.4	289.79	8.576		
15,700.0	8,575.0	17,041.9	10,041.4	174.9	180.0	-127.21	1,183.5	6,564.8	2,486.2	2,192.5	293.63	8.467		
15,800.0	8,575.0	17,141.9	10,042.9	177.3	182.4	-127.24	1,183.6	6,664.8	2,487.1	2,189.6	297.48	8.360		
15,900.0	8,575.0	17,241.9	10,044.4	179.7	184.8	-127.27	1,183.7	6,764.7	2,488.0	2,186.7	301.33	8.257		
16,000.0	8,575.0	17,341.9	10,046.0	182.1	187.2	-127.29	1,183.8	6,864.7	2,489.0	2,183.8	305.18	8.156		
16,100.0	8,575.0	17,441.9	10,047.5	184.5	189.6	-127.32	1,183.9	6,964.7	2,489.9	2,180.9	309.03	8.057		
16,200.0	8,575.0	17,541.9	10,049.0	187.0	192.0	-127.35	1,184.1	7,064.7	2,490.8	2,178.0	312.87	7.961		
16,300.0	8,575.0	17,641.9	10,050.6	189.4	194.4	-127.38	1,184.2	7,164.6	2,491.8	2,175.0	316.72	7.867		
16,400.0	8,575.0	17,741.9	10,052.1	191.8	196.8	-127.41	1,184.3	7,264.6	2,492.7	2,172.1	320.56	7.776		
16,500.0	8,575.0	17,841.8	10,053.7	194.2	199.2	-127.43	1,184.4	7,364.6	2,493.6	2,169.2	324.41	7.687		
16,600.0	8,575.0	17,941.8	10,055.2	196.6	201.6	-127.46	1,184.5	7,464.6	2,494.6	2,166.3	328.25	7.600		
16,700.0	8,575.0	18,041.8	10,056.7	199.1	204.1	-127.49	1,184.6	7,564.5	2,495.5	2,163.4	332.09	7.515		
16,800.0	8,575.0	18,141.8	10,058.3	201.5	206.5	-127.52	1,184.8	7,664.5	2,496.5	2,160.5	335.94	7.431		
16,900.0	8,575.0	18,241.8	10,059.8	203.9	208.9	-127.55	1,184.9	7,764.5	2,497.4	2,157.6	339.78	7.350		
17,000.0	8,575.0	18,341.8	10,061.4	206.3	211.3	-127.57	1,185.0	7,864.5	2,498.3	2,154.7	343.61	7.271		
17,100.0	8,575.0	18,441.8	10,062.9	208.8	213.7	-127.60	1,185.1	7,964.5	2,499.3	2,151.8	347.45	7.193		
17,200.0	8,575.0	18,541.8	10,064.4	211.2	216.1	-127.63	1,185.2	8,064.4	2,500.2	2,148.9	351.29	7.117		
17,300.0	8,575.0	18,641.7	10,066.0	213.6	218.6	-127.66	1,185.4	8,164.4	2,501.2	2,146.0	355.13	7.043		
17,400.0	8,575.0	18,741.7	10,067.5	216.0	221.0	-127.68	1,185.5	8,264.4	2,502.1	2,143.2	358.96	6.970		
17,500.0	8,575.0	18,841.7	10,069.0	218.5	223.4	-127.71	1,185.6	8,364.4	2,503.1	2,140.3	362.79	6.899		
17,600.0	8,575.0	18,941.7	10,070.6	220.9	225.8	-127.74	1,185.7	8,464.3	2,504.0	2,137.4	366.62	6.830		
17,700.0	8,575.0	19,041.7	10,072.1	223.3	228.3	-127.77	1,185.8	8,564.3	2,504.9	2,134.5	370.45	6.762		
17,800.0	8,575.0	19,141.7	10,073.7	225.8	230.7	-127.80	1,186.0	8,664.3	2,505.9	2,131.6	374.28	6.695		
17,900.0	8,575.0	19,241.7	10,075.2	228.2	233.1	-127.82	1,186.1	8,764.3	2,506.8	2,128.7	378.11	6.630		
18,000.0	8,575.0	19,341.7	10,076.7	230.6	235.5	-127.85	1,186.2	8,864.2	2,507.8	2,125.8	381.94	6.566		
18,100.0	8,575.0	19,441.7	10,078.3	233.0	238.0	-127.88	1,186.3	8,964.2	2,508.7	2,123.0	385.76	6.503		
18,200.0	8,575.0	19,541.6	10,079.8	235.5	240.4	-127.91	1,186.4	9,064.2	2,509.7	2,120.1	389.58	6.442		
18,300.0	8,575.0	19,641.6	10,081.4	237.9	242.8	-127.93	1,186.5	9,164.2	2,510.6	2,117.2	393.40	6.382		
18,400.0	8,575.0	19,741.6	10,082.9	240.3	245.2	-127.96	1,186.7	9,264.1	2,511.6	2,114.4	397.22	6.323		
18,500.0	8,575.0	19,841.6	10,084.4	242.8	247.7	-127.99	1,186.8	9,364.1	2,512.5	2,111.5	401.04	6.265		
18,600.0	8,575.0	19,941.6	10,086.0	245.2	250.1	-128.02	1,186.9	9,464.1	2,513.5	2,108.6	404.86	6.208		
18,700.0	8,575.0	20,041.6	10,087.5	247.6	252.5	-128.04	1,187.0	9,564.1	2,514.4	2,105.8	408.67	6.153		
18,800.0	8,575.0	20,141.6	10,089.1	250.1	255.0	-128.07	1,187.1	9,664.0	2,515.4	2,102.9	412.49	6.098		
18,900.0	8,575.0	20,241.6	10,090.6	252.5	257.4	-128.10	1,187.3	9,764.0	2,516.3	2,100.0	416.30	6.045		
19,000.0	8,575.0	20,341.5	10,092.1	255.0	259.8	-128.13	1,187.4	9,864.0	2,517.3	2,097.2	420.11	5.992		
19,100.0	8,575.0	20,441.5	10,093.7	257.4	262.2	-128.15	1,187.5	9,964.0	2,518.2	2,094.3	423.91	5.940		
19,200.0	8,575.0	20,541.5	10,095.2	259.8	264.7	-128.18	1,187.6	10,064.0	2,519.2	2,091.5	427.72	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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

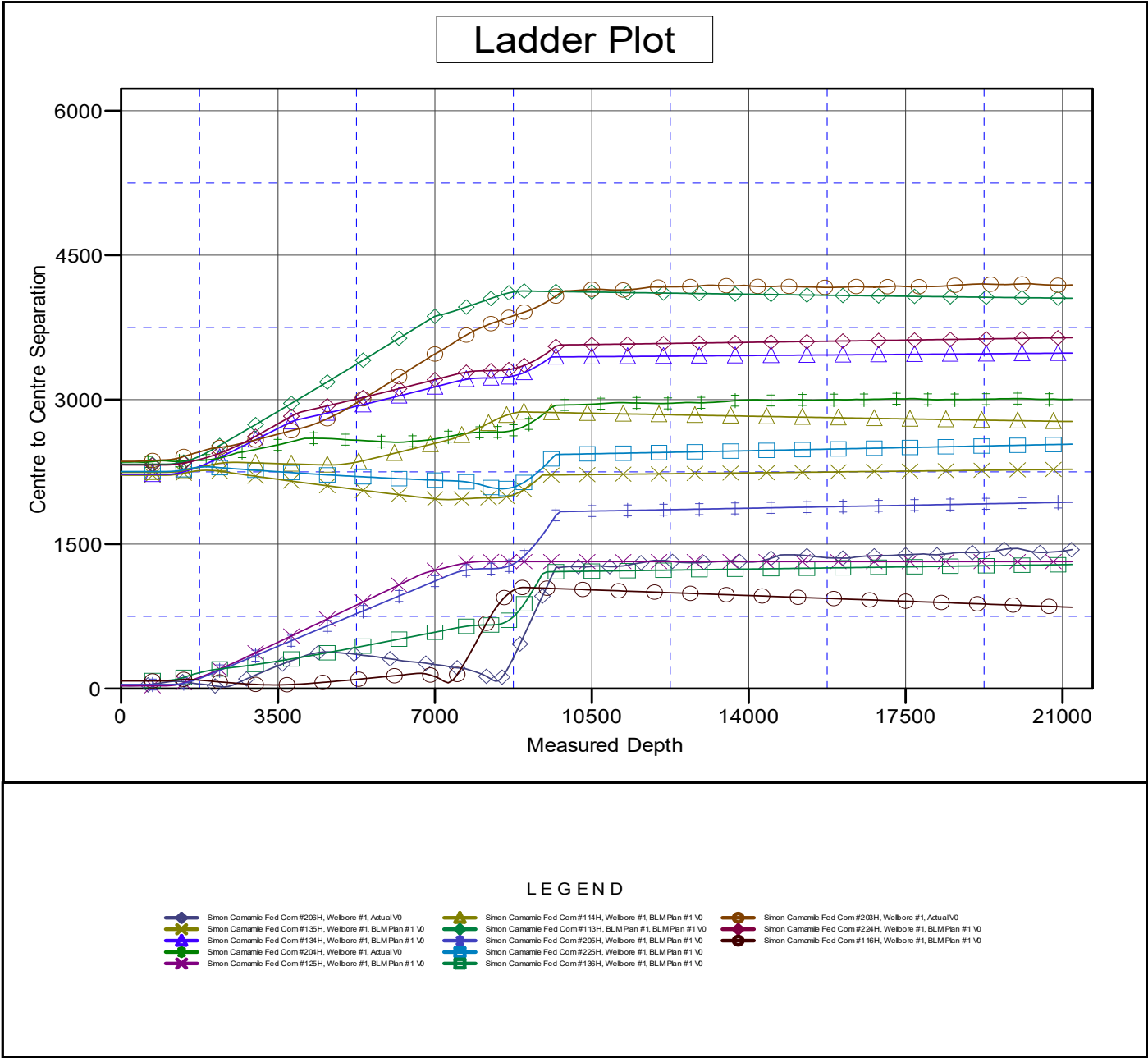
Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #225H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	8,575.0	20,641.5	10,096.7	262.3	267.1	-128.21	1,187.7	10,163.9	2,520.1	2,088.6	431.52	5.840	
19,400.0	8,575.0	20,741.5	10,098.3	264.7	269.5	-128.24	1,187.9	10,263.9	2,521.1	2,085.8	435.33	5.791	
19,500.0	8,575.0	20,841.5	10,099.8	267.1	272.0	-128.26	1,188.0	10,363.9	2,522.1	2,082.9	439.13	5.743	
19,600.0	8,575.0	20,941.5	10,101.4	269.6	274.4	-128.29	1,188.1	10,463.9	2,523.0	2,080.1	442.92	5.696	
19,700.0	8,575.0	21,041.5	10,102.9	272.0	276.8	-128.32	1,188.2	10,563.8	2,524.0	2,077.3	446.72	5.650	
19,800.0	8,575.0	21,141.5	10,104.4	274.5	279.3	-128.35	1,188.3	10,663.8	2,524.9	2,074.4	450.52	5.605	
19,900.0	8,575.0	21,241.4	10,106.0	276.9	281.7	-128.37	1,188.4	10,763.8	2,525.9	2,071.6	454.31	5.560	
20,000.0	8,575.0	21,341.4	10,107.5	279.3	284.1	-128.40	1,188.6	10,863.8	2,526.8	2,068.7	458.10	5.516	
20,100.0	8,575.0	21,441.4	10,109.1	281.8	286.6	-128.43	1,188.7	10,963.7	2,527.8	2,065.9	461.89	5.473	
20,200.0	8,575.0	21,541.4	10,110.6	284.2	289.0	-128.46	1,188.8	11,063.7	2,528.8	2,063.1	465.67	5.430	
20,300.0	8,575.0	21,641.4	10,112.1	286.6	291.5	-128.48	1,188.9	11,163.7	2,529.7	2,060.3	469.46	5.389	
20,400.0	8,575.0	21,741.4	10,113.7	289.1	293.9	-128.51	1,189.0	11,263.7	2,530.7	2,057.4	473.24	5.348	
20,500.0	8,575.0	21,841.4	10,115.2	291.5	296.3	-128.54	1,189.2	11,363.6	2,531.6	2,054.6	477.02	5.307	
20,600.0	8,575.0	21,941.4	10,116.7	294.0	298.8	-128.56	1,189.3	11,463.6	2,532.6	2,051.8	480.80	5.267	
20,700.0	8,575.0	22,041.3	10,118.3	296.4	301.2	-128.59	1,189.4	11,563.6	2,533.6	2,049.0	484.58	5.228	
20,800.0	8,575.0	22,141.3	10,119.8	298.9	303.6	-128.62	1,189.5	11,663.6	2,534.5	2,046.2	488.35	5.190	
20,900.0	8,575.0	22,241.3	10,121.4	301.3	306.1	-128.65	1,189.6	11,763.6	2,535.5	2,043.4	492.13	5.152	
21,000.0	8,575.0	22,341.3	10,122.9	303.7	308.5	-128.67	1,189.8	11,863.5	2,536.5	2,040.6	495.90	5.115	
21,100.0	8,575.0	22,441.3	10,124.4	306.2	311.0	-128.70	1,189.9	11,963.5	2,537.4	2,037.8	499.67	5.078	
21,200.0	8,575.0	22,541.3	10,126.0	308.6	313.4	-128.73	1,190.0	12,063.5	2,538.4	2,035.0	503.43	5.042	
21,213.6	8,575.0	22,554.9	10,126.2	309.0	313.7	-128.73	1,190.0	12,077.0	2,538.5	2,034.6	503.94	5.037 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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3377.5usft	Coordinates are relative to: Simon Camamile Fed Com #126H
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: 0.15°



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 Simon Camamile Fed Com #126H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3377.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3377.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #126H	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 #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3377.5usft

Offset Depths are relative to Offset Datum

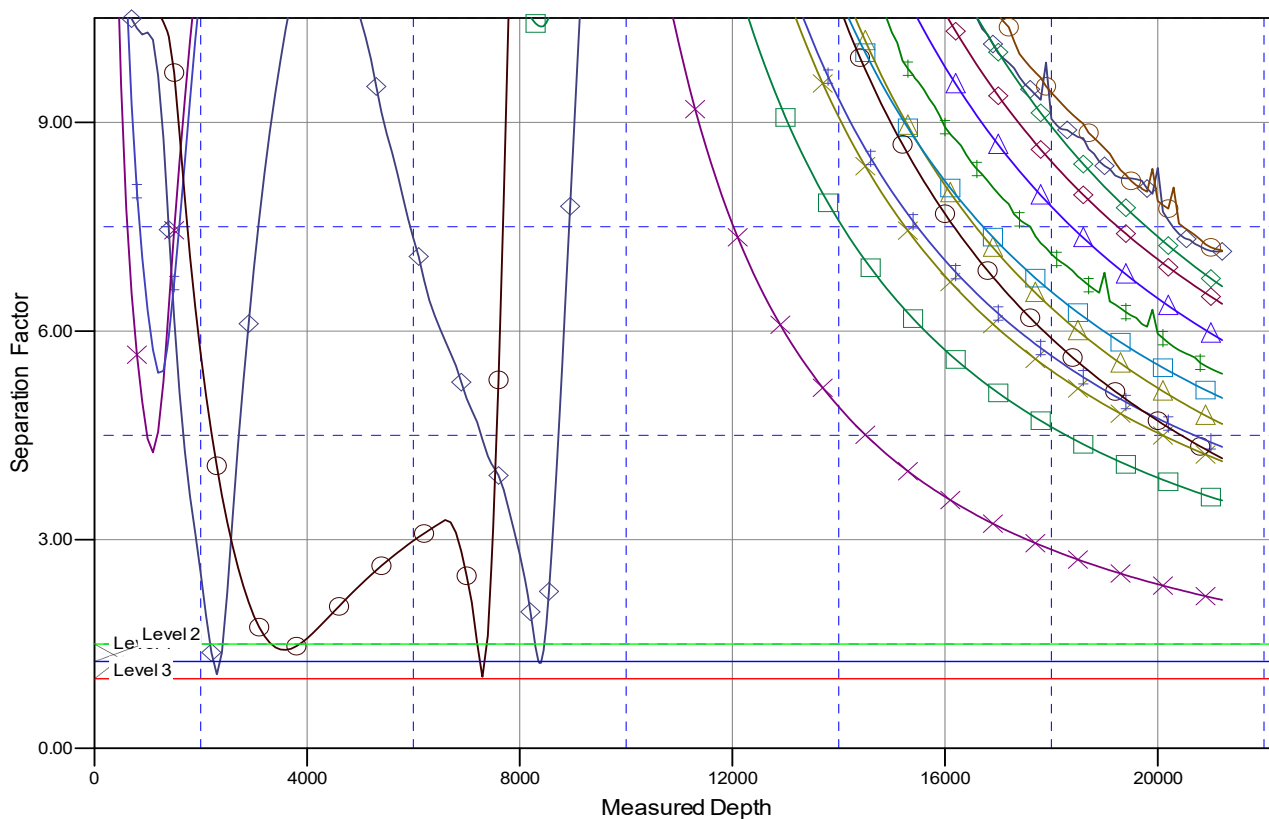
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile Fed Com #126H

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

Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

Simon Camamile Fed Com #206H, Wellbore #1, Actual VO	Simon Camamile Fed Com #114H, Wellbore #1, BLM Plan #1 VO	Simon Camamile Fed Com #203H, Wellbore #1, Actual VO
Simon Camamile Fed Com #135H, Wellbore #1, BLM Plan #1 VO	Simon Camamile Fed Com #113H, BLM Plan #1 VO	Simon Camamile Fed Com #224H, Wellbore #1, BLM Plan #1 VO
Simon Camamile Fed Com #134H, Wellbore #1, BLM Plan #1 VO	Simon Camamile Fed Com #205H, Wellbore #1, BLM Plan #1 VO	Simon Camamile Fed Com #116H, Wellbore #1, BLM Plan #1 VO
Simon Camamile Fed Com #208H, Wellbore #1, Actual VO	Simon Camamile Fed Com #225H, Wellbore #1, BLM Plan #1 VO	
Simon Camamile Fed Com #125H, Wellbore #1, BLM Plan #1 VO	Simon Camamile Fed Com #136H, Wellbore #1, BLM Plan #1 VO	

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



SURVEY PROGRAM

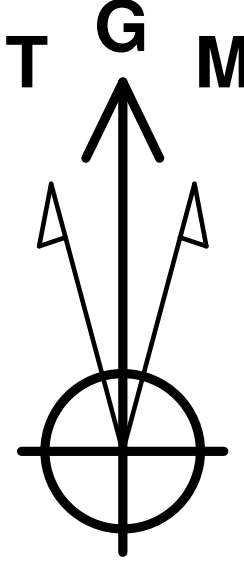
WELL DETAILS: Simon Camamile Fed Com #126H

Depth From	Depth To	Survey/Plan	Tool	+N/-S	+E/-W	Northing	GL @ 3349.0	KB @ 3377.5usft	Eastings	Latitude	Longitude	Slot
0.0	21213.6	BLM Plan #1 (Wellbore #1)	MWD	0.0	0.0	547670.12			583395.13	32° 30' 19.313 N	104° 3' 46.146 W	

Company: Matador Production Company
Well: Simon Camamile Fed Com #126H
County: Eddy County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 03/28/2024

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 6.56°
To convert a Magnetic Direction to a True Direction, Add 6.71° East
To convert a True Direction to a Grid Direction, Subtract 0.15°



Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.56°

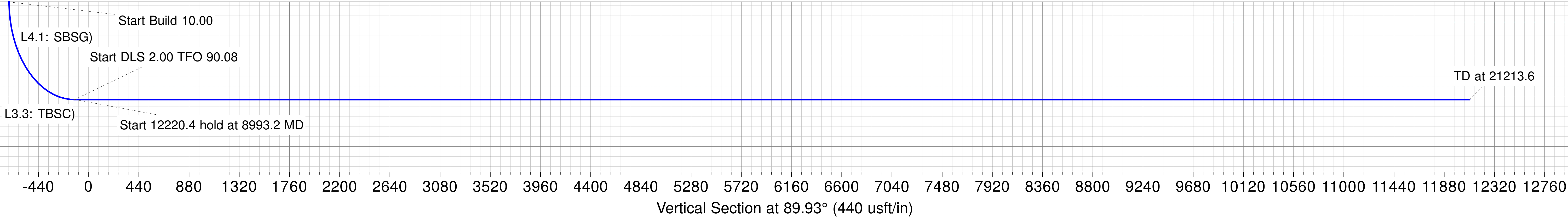
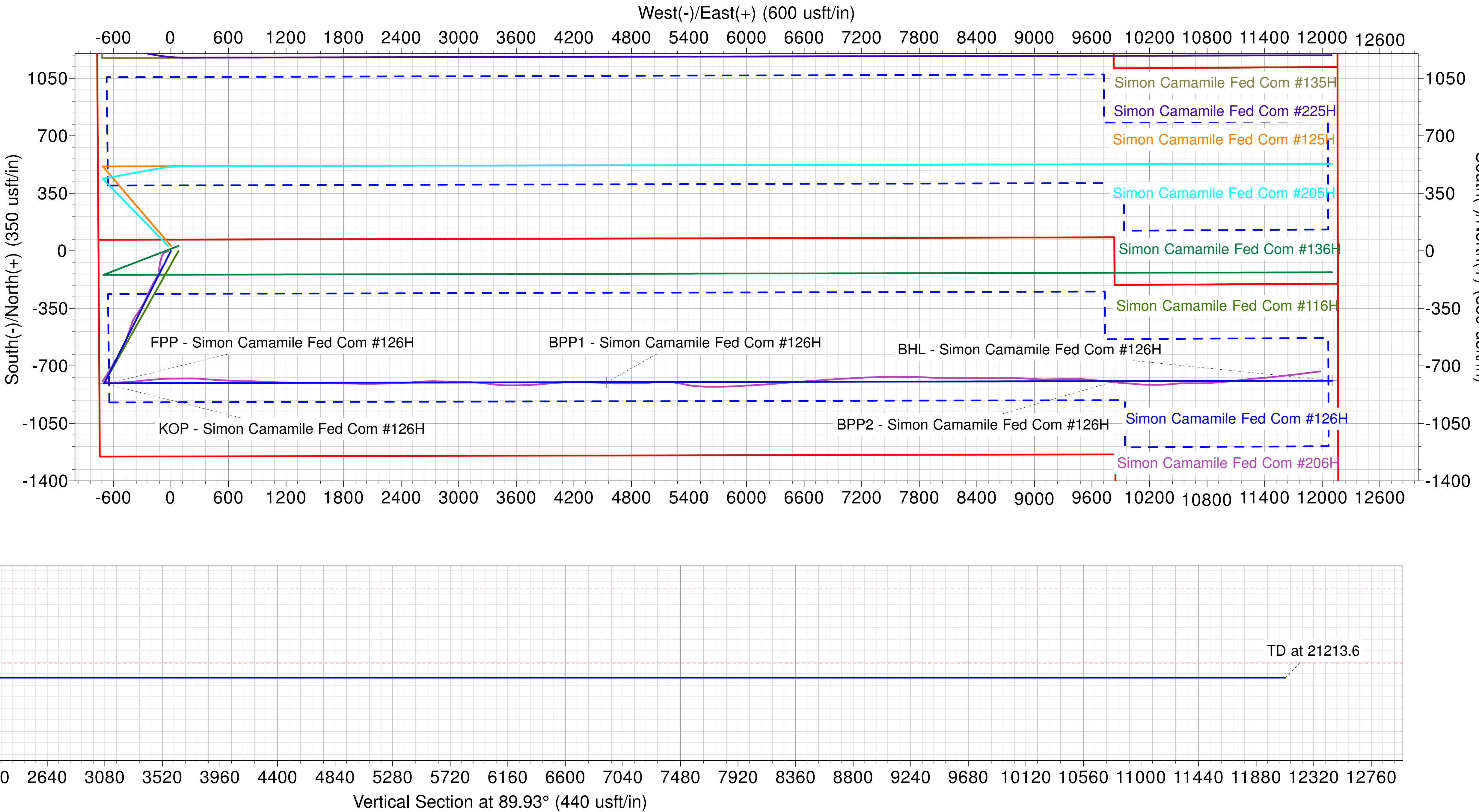
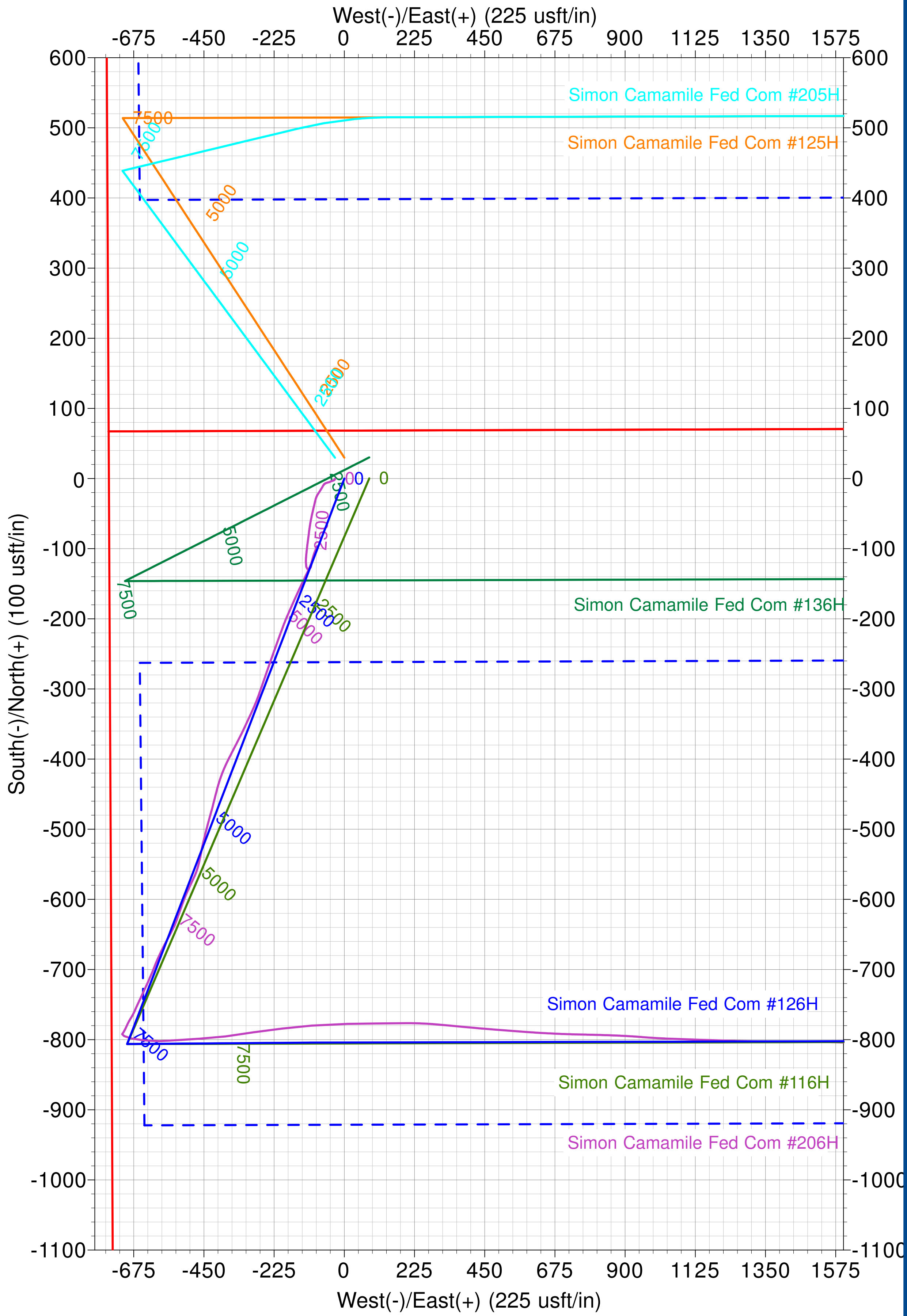
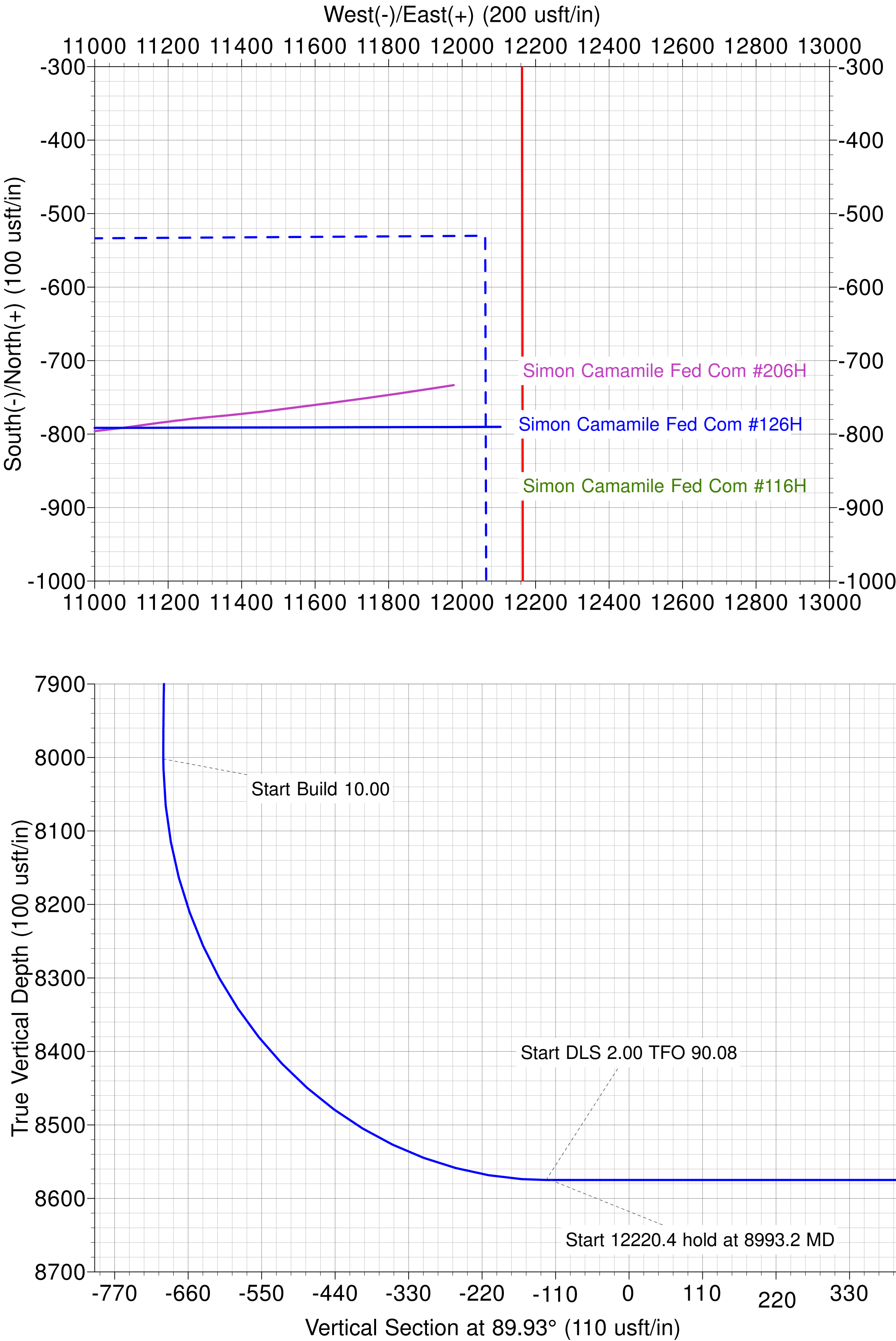
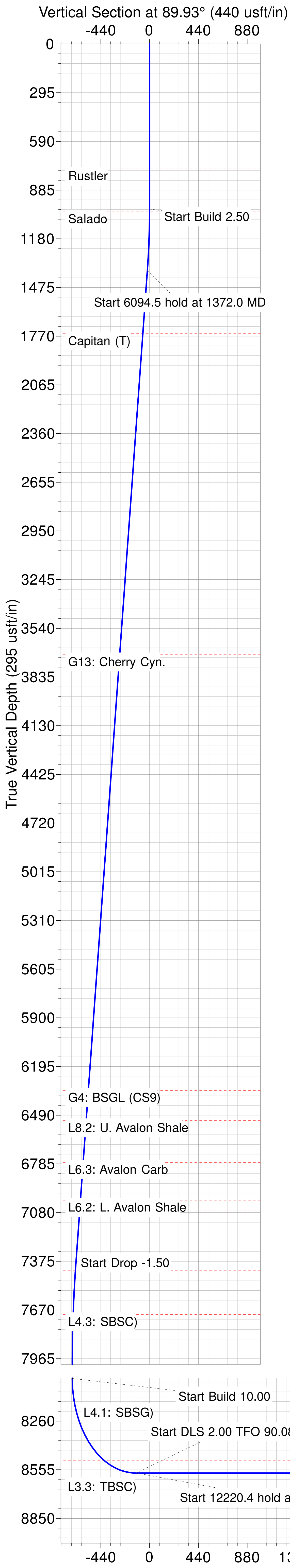
Magnetic Field
Strength: 47583.1snT
Dip Angle: 60.18°
Date: 1/11/2022
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude
KOP - Simon Camamile Fed Com #126H	8002.0	-806.2	-696.2	546864.00	582699.00	32° 30' 11.353 N	104° 3' 54.299 W
BHL - Simon Camamile Fed Com #126H	8575.0	-790.2	-696.2	546879.98	595498.78	32° 30' 11.168 N	104° 1' 24.833 W
BPP1 - Simon Camamile Fed Com #126H	8575.0	-800.2	4538.1	546870.00	587933.00	32° 30' 11.278 N	104° 2' 53.180 W
BPP2 - Simon Camamile Fed Com #126H	8575.0	-793.1	9839.1	546877.00	593234.00	32° 30' 11.202 N	104° 1' 51.280 W
FPP - Simon Camamile Fed Com #126H	8575.0	-806.2	-646.2	546864.00	582749.00	32° 30' 11.351 N	104° 3' 53.715 W

SECTION DETIALS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.50
1372.0	9.30	220.81	1370.4	-22.8	-19.7	2.50	220.81	-19.7	Start 6094.5 hold at 1372.0 MD
7466.5	9.30	220.81	7384.7	-768.2	-663.4	0.00	0.00	-664.3	Start Drop -1.50
8086.5	0.00	0.00	8002.0	-806.2	-696.2	1.50	180.00	-697.2	Start Build 10.00
8986.5	90.00	89.80	8575.0	-804.2	-123.3	10.00	89.80	-124.2	Start DLS 2.00 TFO 90.08
8993.2	90.00	89.93	8575.0	-804.2	-116.6	2.00	90.08	-117.5	Start 12220.4 hold at 8993.2 MD
21213.6	90.00	89.93	8575.0	-790.2	12103.8	0.00	0.00	12102.9	TD at 21213.6



Matador Production Company

Ranger/Arrowhead

Simon Camamile Fed Com

Simon Camamile Fed Com #126H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

28 March, 2024

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project	Ranger/Arrowhead		
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		Simon Camamile Fed Com				
Site Position:		Northing:	547,700.30 usft	Latitude:	32° 30' 19.609 N	
From:	Lat/Long	Easting:	583,475.03 usft	Longitude:	104° 3' 45.212 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Simon Camamile Fed Com #126H					
Well Position	+N/-S	-30.2 usft	Northing:	547,670.12 usft	Latitude:	32° 30' 19.313 N
	+E/-W	-79.9 usft	Easting:	583,395.13 usft	Longitude:	104° 3' 46.146 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,349.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/11/2022	6.71	60.18	47,583.07799402

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	89.93

Plan Survey Tool Program	Date	3/28/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,213.6	BLM Plan #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,372.0	9.30	220.81	1,370.4	-22.8	-19.7	2.50	2.50	0.00	220.81	
7,466.5	9.30	220.81	7,384.7	-768.2	-663.4	0.00	0.00	0.00	0.00	
8,086.5	0.00	0.00	8,002.0	-806.2	-696.2	1.50	-1.50	0.00	180.00	KOP - Simon Camam
8,986.5	90.00	89.80	8,575.0	-804.2	-123.3	10.00	10.00	0.00	89.80	
8,993.2	90.00	89.93	8,575.0	-804.2	-116.6	2.00	0.00	2.00	90.08	
21,213.6	90.00	89.93	8,575.0	-790.2	12,103.8	0.00	0.00	0.00	0.00	BHL - Simon Camami

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
756.1	0.00	0.00	756.1	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.50									
1,016.7	0.42	220.81	1,016.7	0.0	0.0	0.0	2.50	2.50	0.00
Salado									
1,100.0	2.50	220.81	1,100.0	-1.7	-1.4	-1.4	2.50	2.50	0.00
1,200.0	5.00	220.81	1,199.7	-6.6	-5.7	-5.7	2.50	2.50	0.00
1,300.0	7.50	220.81	1,299.1	-14.8	-12.8	-12.8	2.50	2.50	0.00
1,372.0	9.30	220.81	1,370.4	-22.8	-19.7	-19.7	2.50	2.50	0.00
Start 6094.5 hold at 1372.0 MD									
1,400.0	9.30	220.81	1,398.0	-26.2	-22.6	-22.7	0.00	0.00	0.00
1,500.0	9.30	220.81	1,496.7	-38.5	-33.2	-33.3	0.00	0.00	0.00
1,600.0	9.30	220.81	1,595.4	-50.7	-43.8	-43.8	0.00	0.00	0.00
1,700.0	9.30	220.81	1,694.1	-62.9	-54.3	-54.4	0.00	0.00	0.00
1,762.0	9.30	220.81	1,755.2	-70.5	-60.9	-61.0	0.00	0.00	0.00
Capitan (T)									
1,800.0	9.30	220.81	1,792.7	-75.1	-64.9	-65.0	0.00	0.00	0.00
1,900.0	9.30	220.81	1,891.4	-87.4	-75.5	-75.6	0.00	0.00	0.00
2,000.0	9.30	220.81	1,990.1	-99.6	-86.0	-86.1	0.00	0.00	0.00
2,100.0	9.30	220.81	2,088.8	-111.8	-96.6	-96.7	0.00	0.00	0.00
2,200.0	9.30	220.81	2,187.5	-124.1	-107.1	-107.3	0.00	0.00	0.00
2,300.0	9.30	220.81	2,286.2	-136.3	-117.7	-117.9	0.00	0.00	0.00
2,400.0	9.30	220.81	2,384.9	-148.5	-128.3	-128.4	0.00	0.00	0.00
2,500.0	9.30	220.81	2,483.5	-160.8	-138.8	-139.0	0.00	0.00	0.00
2,600.0	9.30	220.81	2,582.2	-173.0	-149.4	-149.6	0.00	0.00	0.00
2,700.0	9.30	220.81	2,680.9	-185.2	-160.0	-160.2	0.00	0.00	0.00
2,800.0	9.30	220.81	2,779.6	-197.5	-170.5	-170.8	0.00	0.00	0.00
2,900.0	9.30	220.81	2,878.3	-209.7	-181.1	-181.3	0.00	0.00	0.00
3,000.0	9.30	220.81	2,977.0	-221.9	-191.6	-191.9	0.00	0.00	0.00
3,100.0	9.30	220.81	3,075.7	-234.2	-202.2	-202.5	0.00	0.00	0.00
3,200.0	9.30	220.81	3,174.3	-246.4	-212.8	-213.1	0.00	0.00	0.00
3,300.0	9.30	220.81	3,273.0	-258.6	-223.3	-223.6	0.00	0.00	0.00
3,400.0	9.30	220.81	3,371.7	-270.8	-233.9	-234.2	0.00	0.00	0.00
3,500.0	9.30	220.81	3,470.4	-283.1	-244.5	-244.8	0.00	0.00	0.00
3,600.0	9.30	220.81	3,569.1	-295.3	-255.0	-255.4	0.00	0.00	0.00
3,700.0	9.30	220.81	3,667.8	-307.5	-265.6	-266.0	0.00	0.00	0.00
3,732.8	9.30	220.81	3,700.1	-311.5	-269.0	-269.4	0.00	0.00	0.00
G13: Cherry Cyn.									
3,800.0	9.30	220.81	3,766.5	-319.8	-276.1	-276.5	0.00	0.00	0.00
3,900.0	9.30	220.81	3,865.1	-332.0	-286.7	-287.1	0.00	0.00	0.00
4,000.0	9.30	220.81	3,963.8	-344.2	-297.3	-297.7	0.00	0.00	0.00
4,100.0	9.30	220.81	4,062.5	-356.5	-307.8	-308.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	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)	
4,200.0	9.30	220.81	4,161.2	-368.7	-318.4	-318.8	0.00	0.00	0.00	
4,300.0	9.30	220.81	4,259.9	-380.9	-329.0	-329.4	0.00	0.00	0.00	
4,400.0	9.30	220.81	4,358.6	-393.2	-339.5	-340.0	0.00	0.00	0.00	
4,500.0	9.30	220.81	4,457.3	-405.4	-350.1	-350.6	0.00	0.00	0.00	
4,600.0	9.30	220.81	4,555.9	-417.6	-360.6	-361.1	0.00	0.00	0.00	
4,700.0	9.30	220.81	4,654.6	-429.9	-371.2	-371.7	0.00	0.00	0.00	
4,800.0	9.30	220.81	4,753.3	-442.1	-381.8	-382.3	0.00	0.00	0.00	
4,900.0	9.30	220.81	4,852.0	-454.3	-392.3	-392.9	0.00	0.00	0.00	
5,000.0	9.30	220.81	4,950.7	-466.5	-402.9	-403.5	0.00	0.00	0.00	
5,100.0	9.30	220.81	5,049.4	-478.8	-413.4	-414.0	0.00	0.00	0.00	
5,200.0	9.30	220.81	5,148.1	-491.0	-424.0	-424.6	0.00	0.00	0.00	
5,300.0	9.30	220.81	5,246.7	-503.2	-434.6	-435.2	0.00	0.00	0.00	
5,400.0	9.30	220.81	5,345.4	-515.5	-445.1	-445.8	0.00	0.00	0.00	
5,500.0	9.30	220.81	5,444.1	-527.7	-455.7	-456.3	0.00	0.00	0.00	
5,600.0	9.30	220.81	5,542.8	-539.9	-466.3	-466.9	0.00	0.00	0.00	
5,700.0	9.30	220.81	5,641.5	-552.2	-476.8	-477.5	0.00	0.00	0.00	
5,800.0	9.30	220.81	5,740.2	-564.4	-487.4	-488.1	0.00	0.00	0.00	
5,900.0	9.30	220.81	5,838.9	-576.6	-497.9	-498.7	0.00	0.00	0.00	
6,000.0	9.30	220.81	5,937.5	-588.9	-508.5	-509.2	0.00	0.00	0.00	
6,100.0	9.30	220.81	6,036.2	-601.1	-519.1	-519.8	0.00	0.00	0.00	
6,200.0	9.30	220.81	6,134.9	-613.3	-529.6	-530.4	0.00	0.00	0.00	
6,300.0	9.30	220.81	6,233.6	-625.5	-540.2	-541.0	0.00	0.00	0.00	
6,400.0	9.30	220.81	6,332.3	-637.8	-550.8	-551.5	0.00	0.00	0.00	
6,408.2	9.30	220.81	6,340.4	-638.8	-551.6	-552.4	0.00	0.00	0.00	
G4: BSGI (CS9)										
6,500.0	9.30	220.81	6,431.0	-650.0	-561.3	-562.1	0.00	0.00	0.00	
6,592.9	9.30	220.81	6,522.6	-661.4	-571.1	-571.9	0.00	0.00	0.00	
L8.2: U. Avalon Shale										
6,600.0	9.30	220.81	6,529.6	-662.2	-571.9	-572.7	0.00	0.00	0.00	
6,700.0	9.30	220.81	6,628.3	-674.5	-582.4	-583.3	0.00	0.00	0.00	
6,800.0	9.30	220.81	6,727.0	-686.7	-593.0	-593.8	0.00	0.00	0.00	
6,850.1	9.30	220.81	6,776.5	-692.8	-598.3	-599.1	0.00	0.00	0.00	
L6.3: Avalon Carb										
6,900.0	9.30	220.81	6,825.7	-698.9	-603.6	-604.4	0.00	0.00	0.00	
7,000.0	9.30	220.81	6,924.4	-711.2	-614.1	-615.0	0.00	0.00	0.00	
7,082.2	9.30	220.81	7,005.5	-721.2	-622.8	-623.7	0.00	0.00	0.00	
L6.2: L. Avalon Shale										
7,100.0	9.30	220.81	7,023.1	-723.4	-624.7	-625.6	0.00	0.00	0.00	
7,142.6	9.30	220.81	7,065.1	-728.6	-629.2	-630.1	0.00	0.00	0.00	
L5.3: FBSC)										
7,200.0	9.30	220.81	7,121.8	-735.6	-635.3	-636.2	0.00	0.00	0.00	
7,300.0	9.30	220.81	7,220.4	-747.9	-645.8	-646.7	0.00	0.00	0.00	
7,400.0	9.30	220.81	7,319.1	-760.1	-656.4	-657.3	0.00	0.00	0.00	
7,466.5	9.30	220.81	7,384.7	-768.2	-663.4	-664.3	0.00	0.00	0.00	
Start Drop -1.50										
7,500.0	8.80	220.81	7,417.8	-772.2	-666.8	-667.8	1.50	-1.50	0.00	
7,514.1	8.59	220.81	7,431.8	-773.8	-668.2	-669.2	1.50	-1.50	0.00	
L5.1: FBSC)										
7,600.0	7.30	220.81	7,516.9	-782.8	-676.0	-677.0	1.50	-1.50	0.00	
7,700.0	5.80	220.81	7,616.2	-791.4	-683.4	-684.4	1.50	-1.50	0.00	
7,782.0	4.57	220.81	7,697.9	-797.0	-688.3	-689.3	1.50	-1.50	0.00	
L4.3: SBSC)										
7,800.0	4.30	220.81	7,715.8	-798.1	-689.2	-690.2	1.50	-1.50	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	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)
7,900.0	2.80	220.81	7,815.6	-802.8	-693.2	-694.2	1.50	-1.50	0.00
8,000.0	1.30	220.81	7,915.5	-805.5	-695.6	-696.6	1.50	-1.50	0.00
8,086.5	0.00	0.00	8,002.0	-806.2	-696.2	-697.2	1.50	-1.50	160.99
Start Build 10.00 - KOP - Simon Camamile Fed Com #126H									
8,100.0	1.35	89.80	8,015.5	-806.2	-696.1	-697.0	10.00	10.00	663.13
8,200.0	11.35	89.80	8,114.8	-806.2	-685.0	-686.0	10.00	10.00	0.00
8,205.1	11.86	89.80	8,119.8	-806.2	-684.0	-685.0	10.00	10.00	0.00
L4.1: SBSG)									
8,300.0	21.35	89.80	8,210.6	-806.1	-656.9	-657.9	10.00	10.00	0.00
8,400.0	31.35	89.80	8,300.1	-805.9	-612.5	-613.5	10.00	10.00	0.00
8,500.0	41.35	89.80	8,380.6	-805.7	-553.3	-554.3	10.00	10.00	0.00
8,567.1	48.06	89.80	8,428.2	-805.6	-506.2	-507.2	10.00	10.00	0.00
FPP - Simon Camamile Fed Com #126H									
8,600.0	51.35	89.80	8,449.5	-805.5	-481.1	-482.1	10.00	10.00	0.00
8,691.1	60.46	89.80	8,500.5	-805.2	-405.7	-406.7	10.00	10.00	0.00
L3.3: TBSC)									
8,700.0	61.35	89.80	8,504.8	-805.2	-397.9	-398.9	10.00	10.00	0.00
8,800.0	71.35	89.80	8,544.9	-804.9	-306.4	-307.4	10.00	10.00	0.00
8,900.0	81.35	89.80	8,568.4	-804.5	-209.4	-210.4	10.00	10.00	0.00
8,986.5	90.00	89.80	8,575.0	-804.2	-123.3	-124.2	10.00	10.00	0.00
Start DLS 2.00 TFO 90.08									
8,993.2	90.00	89.93	8,575.0	-804.2	-116.6	-117.5	2.00	0.00	2.00
Start 12220.4 hold at 8993.2 MD									
9,000.0	90.00	89.93	8,575.0	-804.2	-109.7	-110.7	0.00	0.00	0.00
9,100.0	90.00	89.93	8,575.0	-804.1	-9.7	-10.7	0.00	0.00	0.00
9,200.0	90.00	89.93	8,575.0	-804.0	90.3	89.3	0.00	0.00	0.00
9,300.0	90.00	89.93	8,575.0	-803.8	190.3	189.3	0.00	0.00	0.00
9,400.0	90.00	89.93	8,575.0	-803.7	290.3	289.3	0.00	0.00	0.00
9,500.0	90.00	89.93	8,575.0	-803.6	390.3	389.3	0.00	0.00	0.00
9,600.0	90.00	89.93	8,575.0	-803.5	490.3	489.3	0.00	0.00	0.00
9,700.0	90.00	89.93	8,575.0	-803.4	590.3	589.3	0.00	0.00	0.00
9,800.0	90.00	89.93	8,575.0	-803.3	690.3	689.3	0.00	0.00	0.00
9,900.0	90.00	89.93	8,575.0	-803.2	790.3	789.3	0.00	0.00	0.00
10,000.0	90.00	89.93	8,575.0	-803.0	890.3	889.3	0.00	0.00	0.00
10,100.0	90.00	89.93	8,575.0	-802.9	990.3	989.3	0.00	0.00	0.00
10,200.0	90.00	89.93	8,575.0	-802.8	1,090.3	1,089.3	0.00	0.00	0.00
10,300.0	90.00	89.93	8,575.0	-802.7	1,190.3	1,189.3	0.00	0.00	0.00
10,400.0	90.00	89.93	8,575.0	-802.6	1,290.3	1,289.3	0.00	0.00	0.00
10,500.0	90.00	89.93	8,575.0	-802.5	1,390.3	1,389.3	0.00	0.00	0.00
10,600.0	90.00	89.93	8,575.0	-802.4	1,490.3	1,489.3	0.00	0.00	0.00
10,700.0	90.00	89.93	8,575.0	-802.2	1,590.3	1,589.3	0.00	0.00	0.00
10,800.0	90.00	89.93	8,575.0	-802.1	1,690.3	1,689.3	0.00	0.00	0.00
10,900.0	90.00	89.93	8,575.0	-802.0	1,790.3	1,789.3	0.00	0.00	0.00
11,000.0	90.00	89.93	8,575.0	-801.9	1,890.3	1,889.3	0.00	0.00	0.00
11,100.0	90.00	89.93	8,575.0	-801.8	1,990.3	1,989.3	0.00	0.00	0.00
11,200.0	90.00	89.93	8,575.0	-801.7	2,090.3	2,089.3	0.00	0.00	0.00
11,300.0	90.00	89.93	8,575.0	-801.5	2,190.3	2,189.3	0.00	0.00	0.00
11,400.0	90.00	89.93	8,575.0	-801.4	2,290.3	2,289.3	0.00	0.00	0.00
11,500.0	90.00	89.93	8,575.0	-801.3	2,390.3	2,389.3	0.00	0.00	0.00
11,600.0	90.00	89.93	8,575.0	-801.2	2,490.3	2,489.3	0.00	0.00	0.00
11,700.0	90.00	89.93	8,575.0	-801.1	2,590.3	2,589.3	0.00	0.00	0.00
11,800.0	90.00	89.93	8,575.0	-801.0	2,690.3	2,689.3	0.00	0.00	0.00
11,900.0	90.00	89.93	8,575.0	-800.9	2,790.3	2,789.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	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)
12,000.0	90.00	89.93	8,575.0	-800.7	2,890.3	2,889.3	0.00	0.00	0.00
12,100.0	90.00	89.93	8,575.0	-800.6	2,990.3	2,989.3	0.00	0.00	0.00
12,200.0	90.00	89.93	8,575.0	-800.5	3,090.3	3,089.3	0.00	0.00	0.00
12,300.0	90.00	89.93	8,575.0	-800.4	3,190.3	3,189.3	0.00	0.00	0.00
12,400.0	90.00	89.93	8,575.0	-800.3	3,290.3	3,289.3	0.00	0.00	0.00
12,500.0	90.00	89.93	8,575.0	-800.2	3,390.3	3,389.3	0.00	0.00	0.00
12,600.0	90.00	89.93	8,575.0	-800.1	3,490.3	3,489.3	0.00	0.00	0.00
12,700.0	90.00	89.93	8,575.0	-799.9	3,590.3	3,589.3	0.00	0.00	0.00
12,800.0	90.00	89.93	8,575.0	-799.8	3,690.3	3,689.3	0.00	0.00	0.00
12,900.0	90.00	89.93	8,575.0	-799.7	3,790.3	3,789.3	0.00	0.00	0.00
13,000.0	90.00	89.93	8,575.0	-799.6	3,890.3	3,889.3	0.00	0.00	0.00
13,100.0	90.00	89.93	8,575.0	-799.5	3,990.3	3,989.3	0.00	0.00	0.00
13,200.0	90.00	89.93	8,575.0	-799.4	4,090.3	4,089.3	0.00	0.00	0.00
13,300.0	90.00	89.93	8,575.0	-799.3	4,190.3	4,189.3	0.00	0.00	0.00
13,400.0	90.00	89.93	8,575.0	-799.1	4,290.3	4,289.3	0.00	0.00	0.00
13,500.0	90.00	89.93	8,575.0	-799.0	4,390.3	4,389.3	0.00	0.00	0.00
13,600.0	90.00	89.93	8,575.0	-798.9	4,490.3	4,489.3	0.00	0.00	0.00
13,647.9	90.00	89.93	8,575.0	-798.9	4,538.1	4,537.2	0.00	0.00	0.00
BPP1 - Simon Camamile Fed Com #126H									
13,700.0	90.00	89.93	8,575.0	-798.8	4,590.3	4,589.3	0.00	0.00	0.00
13,800.0	90.00	89.93	8,575.0	-798.7	4,690.3	4,689.3	0.00	0.00	0.00
13,900.0	90.00	89.93	8,575.0	-798.6	4,790.3	4,789.3	0.00	0.00	0.00
14,000.0	90.00	89.93	8,575.0	-798.4	4,890.3	4,889.3	0.00	0.00	0.00
14,100.0	90.00	89.93	8,575.0	-798.3	4,990.3	4,989.3	0.00	0.00	0.00
14,200.0	90.00	89.93	8,575.0	-798.2	5,090.3	5,089.3	0.00	0.00	0.00
14,300.0	90.00	89.93	8,575.0	-798.1	5,190.3	5,189.3	0.00	0.00	0.00
14,400.0	90.00	89.93	8,575.0	-798.0	5,290.3	5,289.3	0.00	0.00	0.00
14,500.0	90.00	89.93	8,575.0	-797.9	5,390.3	5,389.3	0.00	0.00	0.00
14,600.0	90.00	89.93	8,575.0	-797.8	5,490.3	5,489.3	0.00	0.00	0.00
14,700.0	90.00	89.93	8,575.0	-797.6	5,590.3	5,589.3	0.00	0.00	0.00
14,800.0	90.00	89.93	8,575.0	-797.5	5,690.3	5,689.3	0.00	0.00	0.00
14,900.0	90.00	89.93	8,575.0	-797.4	5,790.3	5,789.3	0.00	0.00	0.00
15,000.0	90.00	89.93	8,575.0	-797.3	5,890.3	5,889.3	0.00	0.00	0.00
15,100.0	90.00	89.93	8,575.0	-797.2	5,990.3	5,989.3	0.00	0.00	0.00
15,200.0	90.00	89.93	8,575.0	-797.1	6,090.3	6,089.3	0.00	0.00	0.00
15,300.0	90.00	89.93	8,575.0	-797.0	6,190.3	6,189.3	0.00	0.00	0.00
15,400.0	90.00	89.93	8,575.0	-796.8	6,290.3	6,289.3	0.00	0.00	0.00
15,500.0	90.00	89.93	8,575.0	-796.7	6,390.3	6,389.3	0.00	0.00	0.00
15,600.0	90.00	89.93	8,575.0	-796.6	6,490.3	6,489.3	0.00	0.00	0.00
15,700.0	90.00	89.93	8,575.0	-796.5	6,590.3	6,589.3	0.00	0.00	0.00
15,800.0	90.00	89.93	8,575.0	-796.4	6,690.3	6,689.3	0.00	0.00	0.00
15,900.0	90.00	89.93	8,575.0	-796.3	6,790.3	6,789.3	0.00	0.00	0.00
16,000.0	90.00	89.93	8,575.0	-796.1	6,890.3	6,889.3	0.00	0.00	0.00
16,100.0	90.00	89.93	8,575.0	-796.0	6,990.3	6,989.3	0.00	0.00	0.00
16,200.0	90.00	89.93	8,575.0	-795.9	7,090.3	7,089.3	0.00	0.00	0.00
16,300.0	90.00	89.93	8,575.0	-795.8	7,190.3	7,189.3	0.00	0.00	0.00
16,400.0	90.00	89.93	8,575.0	-795.7	7,290.3	7,289.3	0.00	0.00	0.00
16,500.0	90.00	89.93	8,575.0	-795.6	7,390.3	7,389.3	0.00	0.00	0.00
16,600.0	90.00	89.93	8,575.0	-795.5	7,490.3	7,489.3	0.00	0.00	0.00
16,700.0	90.00	89.93	8,575.0	-795.3	7,590.3	7,589.3	0.00	0.00	0.00
16,800.0	90.00	89.93	8,575.0	-795.2	7,690.3	7,689.3	0.00	0.00	0.00
16,900.0	90.00	89.93	8,575.0	-795.1	7,790.3	7,789.3	0.00	0.00	0.00
17,000.0	90.00	89.93	8,575.0	-795.0	7,890.3	7,889.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	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)
17,100.0	90.00	89.93	8,575.0	-794.9	7,990.3	7,989.3	0.00	0.00	0.00
17,200.0	90.00	89.93	8,575.0	-794.8	8,090.3	8,089.3	0.00	0.00	0.00
17,300.0	90.00	89.93	8,575.0	-794.7	8,190.3	8,189.3	0.00	0.00	0.00
17,400.0	90.00	89.93	8,575.0	-794.5	8,290.3	8,289.3	0.00	0.00	0.00
17,500.0	90.00	89.93	8,575.0	-794.4	8,390.3	8,389.3	0.00	0.00	0.00
17,600.0	90.00	89.93	8,575.0	-794.3	8,490.3	8,489.3	0.00	0.00	0.00
17,700.0	90.00	89.93	8,575.0	-794.2	8,590.3	8,589.3	0.00	0.00	0.00
17,800.0	90.00	89.93	8,575.0	-794.1	8,690.3	8,689.3	0.00	0.00	0.00
17,900.0	90.00	89.93	8,575.0	-794.0	8,790.3	8,789.3	0.00	0.00	0.00
18,000.0	90.00	89.93	8,575.0	-793.8	8,890.3	8,889.3	0.00	0.00	0.00
18,100.0	90.00	89.93	8,575.0	-793.7	8,990.3	8,989.3	0.00	0.00	0.00
18,200.0	90.00	89.93	8,575.0	-793.6	9,090.3	9,089.3	0.00	0.00	0.00
18,300.0	90.00	89.93	8,575.0	-793.5	9,190.3	9,189.3	0.00	0.00	0.00
18,400.0	90.00	89.93	8,575.0	-793.4	9,290.3	9,289.3	0.00	0.00	0.00
18,500.0	90.00	89.93	8,575.0	-793.3	9,390.3	9,389.3	0.00	0.00	0.00
18,600.0	90.00	89.93	8,575.0	-793.2	9,490.3	9,489.3	0.00	0.00	0.00
18,700.0	90.00	89.93	8,575.0	-793.0	9,590.3	9,589.3	0.00	0.00	0.00
18,800.0	90.00	89.93	8,575.0	-792.9	9,690.3	9,689.3	0.00	0.00	0.00
18,900.0	90.00	89.93	8,575.0	-792.8	9,790.3	9,789.3	0.00	0.00	0.00
18,948.8	90.00	89.93	8,575.0	-792.8	9,839.1	9,838.1	0.00	0.00	0.00
BPP2 - Simon Camamile Fed Com #126H									
19,000.0	90.00	89.93	8,575.0	-792.7	9,890.3	9,889.3	0.00	0.00	0.00
19,100.0	90.00	89.93	8,575.0	-792.6	9,990.3	9,989.3	0.00	0.00	0.00
19,200.0	90.00	89.93	8,575.0	-792.5	10,090.3	10,089.3	0.00	0.00	0.00
19,300.0	90.00	89.93	8,575.0	-792.4	10,190.3	10,189.3	0.00	0.00	0.00
19,400.0	90.00	89.93	8,575.0	-792.2	10,290.3	10,289.3	0.00	0.00	0.00
19,500.0	90.00	89.93	8,575.0	-792.1	10,390.3	10,389.3	0.00	0.00	0.00
19,600.0	90.00	89.93	8,575.0	-792.0	10,490.3	10,489.3	0.00	0.00	0.00
19,700.0	90.00	89.93	8,575.0	-791.9	10,590.3	10,589.3	0.00	0.00	0.00
19,800.0	90.00	89.93	8,575.0	-791.8	10,690.3	10,689.3	0.00	0.00	0.00
19,900.0	90.00	89.93	8,575.0	-791.7	10,790.3	10,789.3	0.00	0.00	0.00
20,000.0	90.00	89.93	8,575.0	-791.5	10,890.3	10,889.3	0.00	0.00	0.00
20,100.0	90.00	89.93	8,575.0	-791.4	10,990.3	10,989.3	0.00	0.00	0.00
20,200.0	90.00	89.93	8,575.0	-791.3	11,090.3	11,089.3	0.00	0.00	0.00
20,300.0	90.00	89.93	8,575.0	-791.2	11,190.3	11,189.3	0.00	0.00	0.00
20,400.0	90.00	89.93	8,575.0	-791.1	11,290.3	11,289.3	0.00	0.00	0.00
20,500.0	90.00	89.93	8,575.0	-791.0	11,390.3	11,389.3	0.00	0.00	0.00
20,600.0	90.00	89.93	8,575.0	-790.9	11,490.3	11,489.3	0.00	0.00	0.00
20,700.0	90.00	89.93	8,575.0	-790.7	11,590.3	11,589.3	0.00	0.00	0.00
20,800.0	90.00	89.93	8,575.0	-790.6	11,690.3	11,689.3	0.00	0.00	0.00
20,900.0	90.00	89.93	8,575.0	-790.5	11,790.3	11,789.3	0.00	0.00	0.00
21,000.0	90.00	89.93	8,575.0	-790.4	11,890.3	11,889.3	0.00	0.00	0.00
21,100.0	90.00	89.93	8,575.0	-790.3	11,990.3	11,989.3	0.00	0.00	0.00
21,200.0	90.00	89.93	8,575.0	-790.2	12,090.3	12,089.3	0.00	0.00	0.00
21,213.6	90.00	89.93	8,575.0	-790.2	12,103.8	12,102.9	0.00	0.00	0.00
TD at 21213.6 - BHL - Simon Camamile Fed Com #126H									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #126H
Company:	Matador Production Company	TVD Reference:	KB @ 3377.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3377.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP - Simon Camamile - plan hits target center - Point	0.00	0.01	8,002.0	-806.2	-696.2	546,864.00	582,699.00	32° 30' 11.353 N	104° 3' 54.299 W
BPP1 - Simon Camamile - plan misses target center by 1.3usft at 13647.9usft MD (8575.0 TVD, -798.9 N, 4538.1 E) - Point	0.00	0.00	8,575.0	-800.2	4,538.1	546,870.00	587,933.00	32° 30' 11.278 N	104° 2' 53.180 W
BHL - Simon Camamile - plan hits target center - Point	0.00	0.00	8,575.0	-790.2	12,103.8	546,879.98	595,498.79	32° 30' 11.168 N	104° 1' 24.833 W
BPP2 - Simon Camamile - plan misses target center by 0.4usft at 18948.8usft MD (8575.0 TVD, -792.8 N, 9839.1 E) - Point	0.00	0.00	8,575.0	-793.1	9,839.1	546,877.00	593,234.00	32° 30' 11.202 N	104° 1' 51.280 W
FPP - Simon Camamile - plan misses target center by 202.9usft at 8567.1usft MD (8428.2 TVD, -805.6 N, -506.2 E) - Point	0.00	0.00	8,575.0	-806.2	-646.2	546,864.00	582,749.00	32° 30' 11.351 N	104° 3' 53.715 W

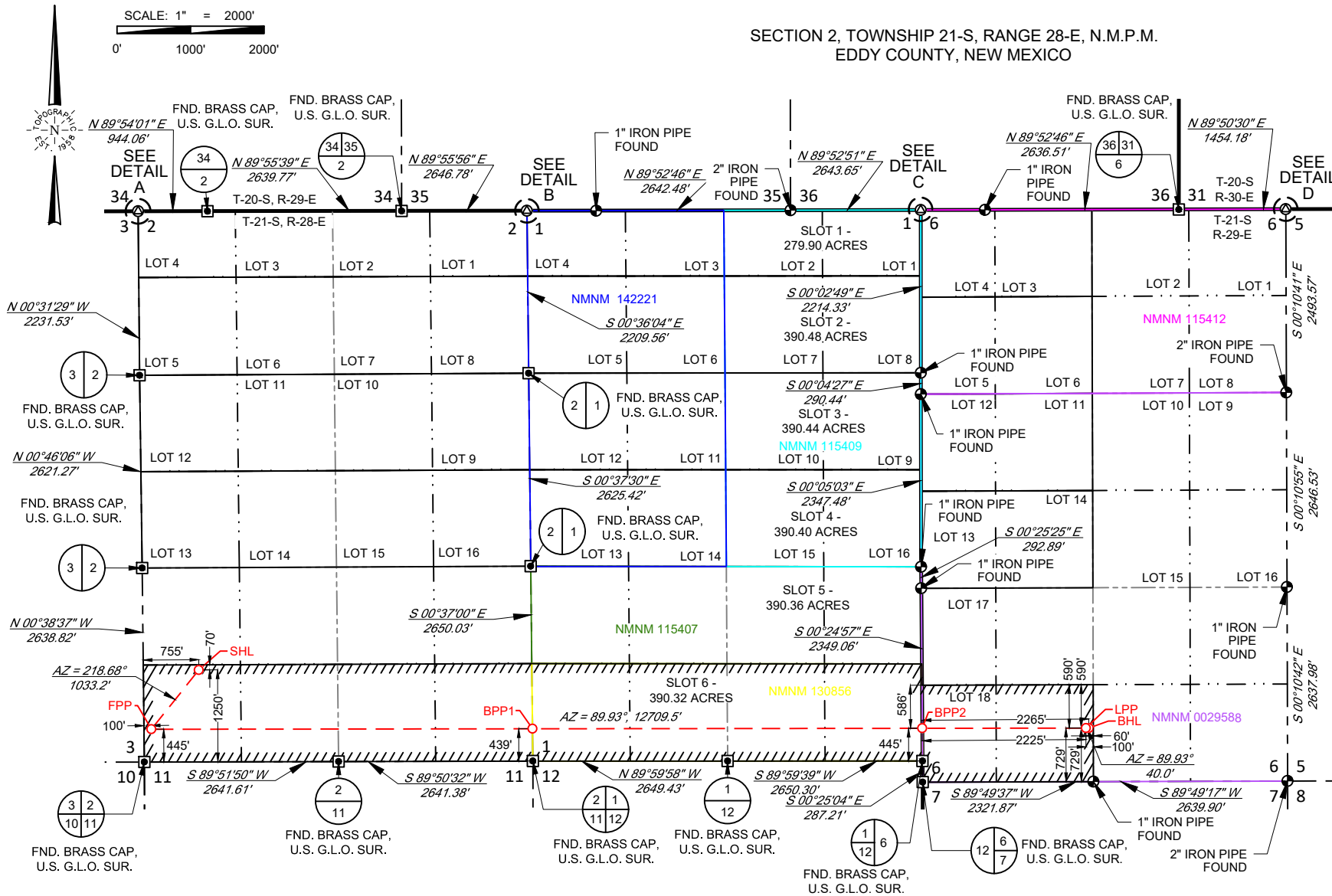
Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
756.1	755.1	Rustler			
1,016.7	1,015.7	Salado			
1,762.0	1,754.2	Capitan (T)			
3,732.8	3,699.1	G13: Cherry Cyn.			
6,408.2	6,339.4	G4: BSGl (CS9)			
6,592.9	6,521.6	L8.2: U. Avalon Shale			
6,850.1	6,775.5	L6.3: Avalon Carb			
7,082.2	7,004.5	L6.2: L. Avalon Shale			
7,142.6	7,064.1	L5.3: FBSC)			
7,514.1	7,430.8	L5.1: FBSC)			
7,782.0	7,696.9	L4.3: SBSC)			
8,205.1	8,118.8	L4.1: SBSG)			
8,691.1	8,499.5	L3.3: TBSC)			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.50
1,372.0	1,370.4	-22.8	-19.7	Start 6094.5 hold at 1372.0 MD
7,466.5	7,384.7	-768.2	-663.4	Start Drop -1.50
8,086.5	8,002.0	-806.2	-696.2	Start Build 10.00
8,986.5	8,575.0	-804.2	-123.3	Start DLS 2.00 TFO 90.08
8,993.2	8,575.0	-804.2	-116.6	Start 12220.4 hold at 8993.2 MD
21,213.6	8,575.0	-790.2	12,103.8	TD at 21213.6

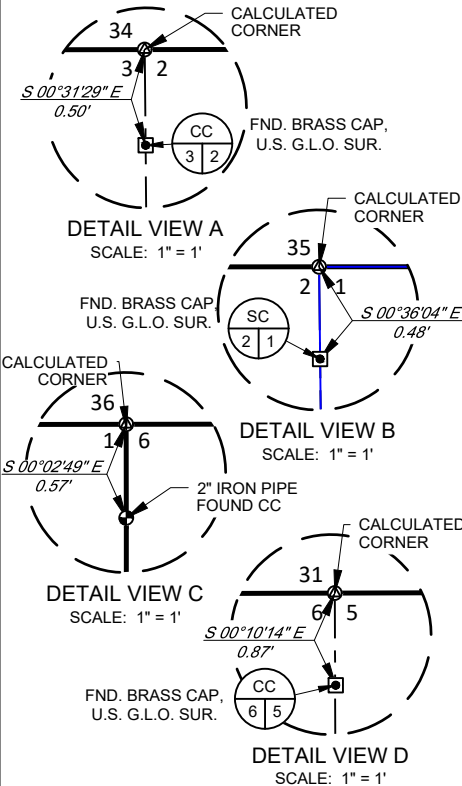
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ **AMENDED REPORT**

SECTION 2, TOWNSHIP 21-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
1250' FSL - SEC. 2 755' FWL - SEC. 2 X=624576 Y=547731 LAT.: N 32.5054836 LONG.: W 104.0633201
FIRST PERFORATION POINT (FPP)
445' FSL - SEC. 2 100' FWL - SEC. 2 X=623930 Y=546925 LAT.: N 32.5032716 LONG.: W 104.0654214
BLM PERF. POINT (BPP1)
439' FSL - SEC. 2 0' FEL - SEC. 2 X=629114 Y=546931 LAT.: N 32.5032530 LONG.: W 104.0486083
BLM PERF. POINT (BPP2)
445' FSL - SEC. 1 0' FEL - SEC. 1 X=634415 Y=546938 LAT.: N 32.5032318 LONG.: W 104.0314125
LAST PERFORATION POINT (LPP)
729' FSL - SEC. 6 2225' FWL - SEC. 6 X=636640 Y=546941 LAT.: N 32.5032222 LONG.: W 104.0241951
BOTTOM HOLE LOCATION (BHL)
729' FSL - SEC. 6 2265' FWL - SEC. 6 X=636680 Y=546941 LAT.: N 32.5032220 LONG.: W 104.0240654



Angel M. Baeza, P.S. No. 25116
March 11, 2024

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 116H

SECTION 2 TWP 21-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1250' FSL & 835' FWL

DISTANCE & DIRECTION
FROM INT. OF HWY-285, & US-180 E/US-62 E HEAD EAST ON US-180
E/US-62 E ±11.9 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD.
±0.7 MILES, THENCE SOUTHWEST (RIGHT) ON A PROPOSED RD.
±85 FEET TO A POINT ±479 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.

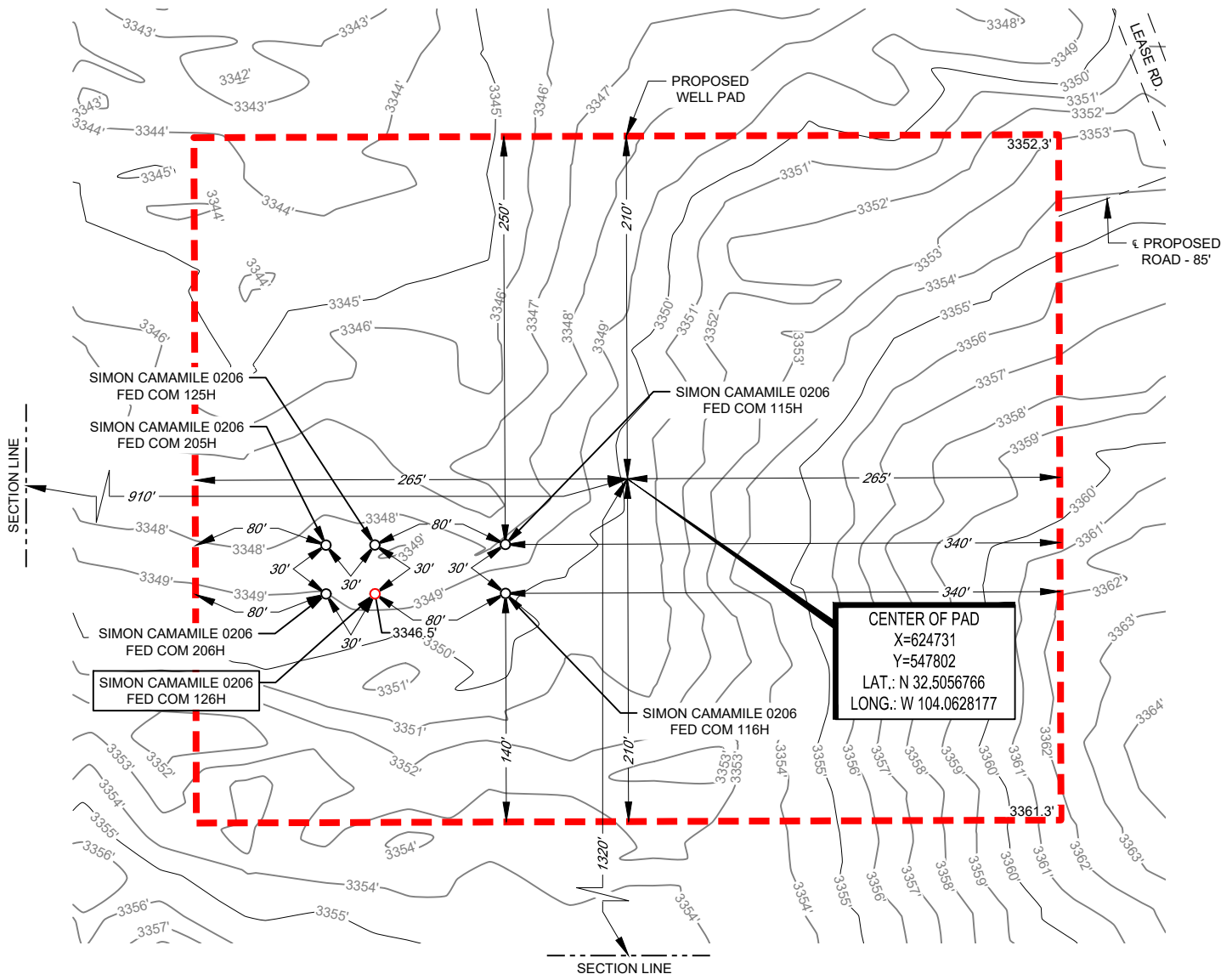
LEGEND

--- SECTION LINE
 - - - PROPOSED ROAD
 = = = ROAD WAY



SECTION 2, TOWNSHIP 21-S, RANGE 28-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

DETAIL VIEW
 SCALE: 1" = 100'



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

March 11, 2024

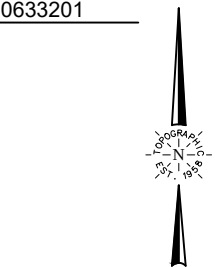
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

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"

LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 126H
 126H LATITUDE N 32.5054836 126H LONGITUDE W 104.0633201

CENTER OF PAD IS 1320' FSL & 910' FWL



SCALE: 1" = 100'

0' 50' 100'

TOPOGRAPHIC
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Drill Plan

Simon Camamile 0206 Fed Com 126H
SHL: 1250' FSL & 755' FWL Section 2
BHL: 729' FSL & 2265' FWL Section 6
Township/Range: 21S 28E
Elevation Above Sea Level: 3347

Sundry Request

Matador request the option to amend the well design of the Simon Camamile 0206 Fed Com #226H and make the following changes to the current APD:

- Change the well name from Simon Camamile 0206 Fed Com #226H to the Simon Camamile 0206 Fed Com #126H
- Change BHL from 1389' FSL & 2268' FWL to 729' FSL & 2265' FWL. All perforations will be within the setback requirements as previously approved.
- Shallow target formation from Wolfcamp to Second Bone Spring
- Amend casing and cementing plan by changing 9.625" Int 2 string to 8.625" and revising set depths as described below

Drilling Operation Plan

Proposed Drilling Depth: 21213' MD / 8575' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.5032716 N / -104.0654214 W

TD Lat/Long (NAD83): 32.5032220 N / -104.0240654 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	595	595	420	Anhydrite	Barren
Salado (Top of Salt)	1,016	1,015	739	Salt	Barren
Capitan	1,762	1,754	2,155	Limestone	Barren
Cherry Canyon	3,942	3,909	1,039	Sandstone	Oil/Natural Gas
Brushy Canyon	4,996	4,948	1,391	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,408	6,339	1,091	Limestone	Oil/Natural Gas
1st Bone Spring Sand	7,514	7,430	266	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,782	7,696	422	Carbonate	Oil/Natural Gas
KOP	8,086	8,002	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	8,205	8,118	-	Sandstone	Oil/Natural Gas
TD	21,213	8,575	-	Sandstone	Oil/Natural Gas

2. Notable Zones

Second 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 50'.

3. Pressure Control

Equipment

Matador requests a variance for a 2M annular to be installed after running 20" casing.

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, Intermediate 2, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

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

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

Matador requests a variance for the use of a diverter along with a 2000-psi annular to be installed after running 20" casing.

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

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

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

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

Drill Plan**4. Casing & Cement**

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 665	0 - 665	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1650	0 - 1650	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3992	0 - 3959	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21213	0 - 8575	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

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

Variance Request

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

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	480	1.72	823	13.5	50%	0	C	5% NaCl + LCM
	Tail	550	1.38	757	14.8	50%	365	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 715'	Stg 2 Tail	400	1.78	716	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	770	1.84	1410	12.5	50%	0	C	5% NaCl + LCM
	Stg 1 Tail	280	1.33	379	14.8	50%	1320	C	5% NaCl + LCM
Intermediate 2 w/ DV @ 1700'	Stg 2 Tail	440	1.78	785	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	210	3.66	752	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	320	1.38	445	13.2	35%	3194	A/C	5% NaCl + LCM
Production	Lead	250	3.66	922	12.5	25%	3792	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2110	1.35	2843	13.2	25%	8086	A/C	Fluid Loss + Dispersant + Retarder

Drill Plan**5. Mud Program**

An electronic Pason mud monitoring system complying with Title 43 CFR 3172 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 665	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	665 - 1650	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Fresh Water	1650 - 3992	8.4 - 8.8	28-30	NC
Production	7.875	OBM/Cut Brine	3992 - 21213	8.6 - 9.4	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve. We will be running a Neutron log on one of the wells on

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 4191 psi. Maximum anticipated surface pressure is 2305 psi. Expected bottom hole temperature is 131 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.

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

CONDITIONS

Action 334863

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334863
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	5/31/2024