

Well Name: SIMON CAMAMILE 0206 FED COM	Well Location: T21S / R28E / SEC 02 / SWSW / 32.5055661 / -104.0633202	County or Parish/State: EDDY / NM
Well Number: 115H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM115407	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001554312	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2782905

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/02/2024	Time Sundry Submitted: 09:41
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 #115H and make the following changes to the current APD: - Change the well name from Simon Camamile 0206 Fed Com #115H to the Simon Camamile 0206 Fed Com #125H - Deepen target formation from First Bone Spring 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 in attached Simon Camamile 0206 Fed Com 125H Sundry Info.

NOI Attachments

Procedure Description

- LO_SIMON_CAMAMILE_0206_FED_COM_125H_REV1_S_20240402093305.pdf
- Simon_Camamile_0206_Fed_Com_125H_4_String_Wellhead_Diagram_20240402093305.pdf
- Simon_Camamile_0206_Fed_Com_125H_Co_Flex_Hose_Certs_20240402093237.pdf
- Simon_Camamile_0206_Fed_Com_125H_Casing_Table_Spec_20240402093237.pdf
- Simon_Camamile_0206_Fed_Com_125H_Break_Testing_Sundry_20240402093237.pdf
- Simon_Camamile_0206_Fed_Com_125H_Offline_Cementing___Int_20240402093159.pdf
- Simon_Camamile_0206_Fed_Com_125H_Offline_Cementing___Surface_20240402093159.pdf
- Simon_Camamile_0206_Fed_Com_125H_Csg_Specs_8.625in_32lb_TLW_20240402093159.pdf

Received by OCD: 4/18/2024 7:55:53 AM

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Simon_Camamile_Fed_Com_125H_Directional_Well_Plan_v1_20240402093124.pdf

Simon_Camamile_Fed_Com_125H_Directional_AC_Report_v1_20240402093124.pdf

Simon_Camamile_Fed_Com_125H_Directional_Wall_Plot_v1_20240402093124.pdf

Simon_Camamile_0206_Fed_Com_125H_Sundry_Info_20240402093007.pdf

Conditions of Approval

Additional

Simon_Camamile_0206_Fed_Com_125H__Engineering_COA_20240410114717.pdf

LO_SIMON_CAMAMILE_0206_FED_COM_125H_REV1_S__002__20240410113650.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 09:37 AM

Name: MATADOR PRODUCTION COMPANY

Title: BLM Tech

Street Address: 5400 LBJ FREEWAY

City: DALLASState: 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

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well	
☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ 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 / 1280 FSL / 755 FWL / TWSP: 21S / RANGE: 28E / SECTION: 02 / LAT: 32.5055661 / LONG: -104.0633202 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 1759 FSL / 0 FWL / TWSP: 21S / RANGE: 28E / SECTION: 01 / LAT: 32.5068815 / LONG: -104.048643 (TVD: 7590 feet, MD: 12600 feet)

PPP: LOT 17 / 1765 FSL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5068602 / LONG: -104.0314315 (TVD: 7695 feet, MD: 17900 feet)

BHL: NESW / 2049 FSL / 2271 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5068504 / LONG: -104.0240655 (TVD: 7739 feet, MD: 20136 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	SIMON CAMAMILE 0206 FED COM 125H
APD ID:	10400082744
SURFACE HOLE FOOTAGE:	1280'/S & 755'/W
BOTTOM HOLE FOOTAGE:	2049'/S & 2271'/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 **3,984 ft.** (3,952 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 **21,212 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

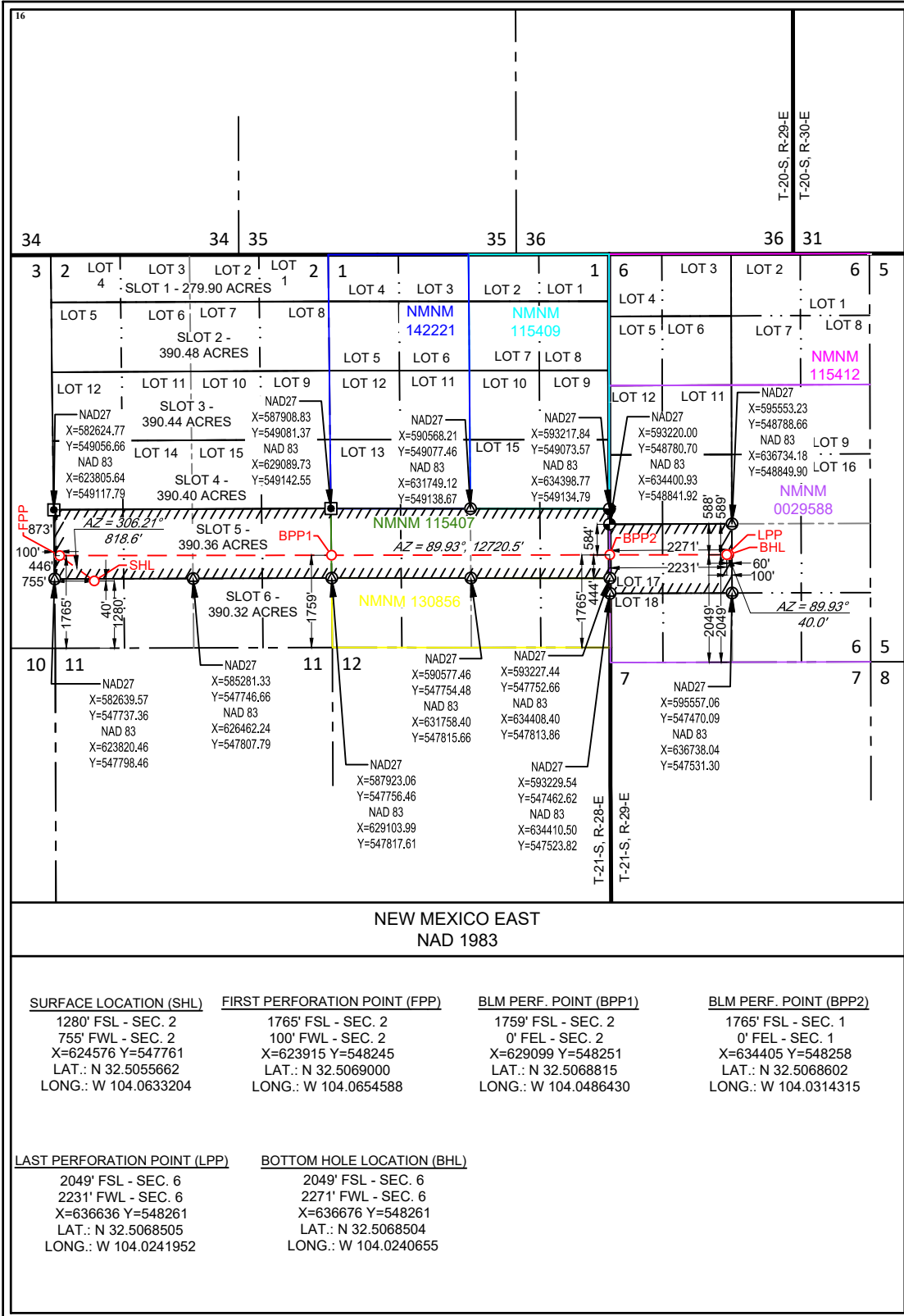
¹ API Number 30-025-	² Pool Code 97995	³ Pool Name WC-015 G-05 S202935P; BONE SPRING
⁴ Property Code	⁵ Property Name SIMON CAMAMILE 0206 FED COM	⁶ Well Number 125H
⁷ OGRID No. 7377	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3347'

¹⁰ Surface Location									
UL or lot no. M	Section 2	Township 21-S	Range 28-E	Lot Idn -	Feet from the 1280'	North/South line SOUTH	Feet from the 755'	East/West line WEST	County EDDY

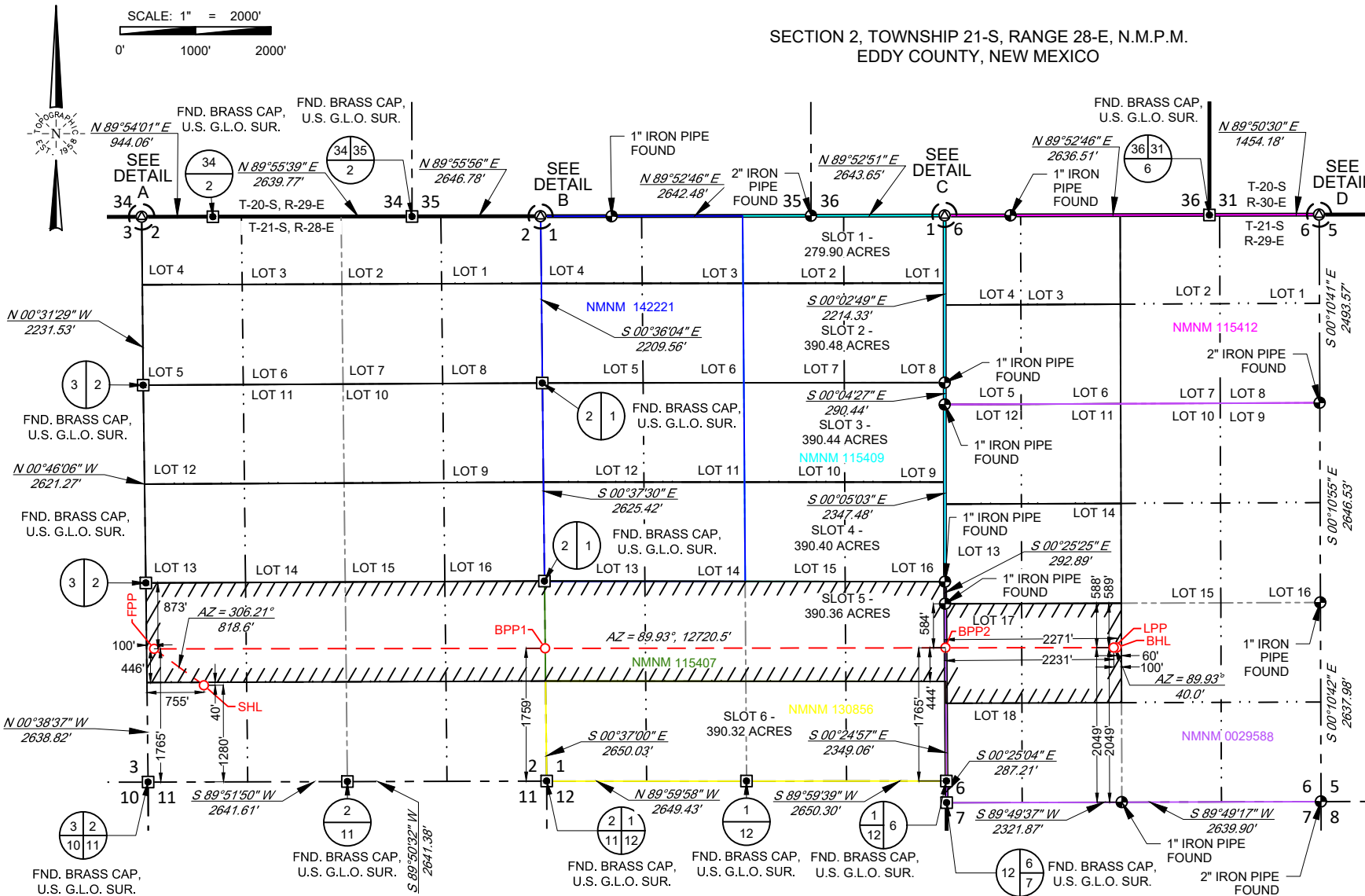
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. K	Section 6	Township 21-S	Range 29-E	Lot Idn -	Feet from the 2049'	North/South line SOUTH	Feet from the 2271'	East/West line WEST	County EDDY

¹² Dedicated Acres 390.36	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.



¹⁷ OPERATOR CERTIFICATION <i>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.</i> Cassie Hahn 4/10/24 Signature Date Cassie Hahn Printed Name chahn@matadorresources.com E-mail Address	
¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 07/29/2021 Date of Survey Signature and Seal of Professional Surveyor 	
Certificate Number	
NEW MEXICO EAST NAD 1927	
<u>SURFACE LOCATION (SHL)</u> X=583395 Y=547700 LAT.: N 32.5054468 LONG.: W 104.0628187	<u>FIRST PERFORATION POINT (FPP)</u> X=582735 Y=548184 LAT.: N 32.5067806 LONG.: W 104.0649569
<u>BLM PERF. POINT (BPP1)</u> X=587918 Y=548190 LAT.: N 32.5067619 LONG.: W 104.0481416	<u>BLM PERF. POINT (BPP2)</u> X=582735 Y=548197 LAT.: N 32.5067404 LONG.: W 104.0309306
<u>LAST PERFORATION POINT (LPP)</u> X=595455 Y=548200 LAT.: N 32.5067307 LONG.: W 104.0236946	<u>BOTTOM HOLE LOCATION (BHL)</u> X=595495 Y=548200 LAT.: N 32.5067305 LONG.: W 104.0235648



LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 125H

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

COUNTY EDDY STATE NM

DESCRIPTION 1280' FSL & 755' 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.

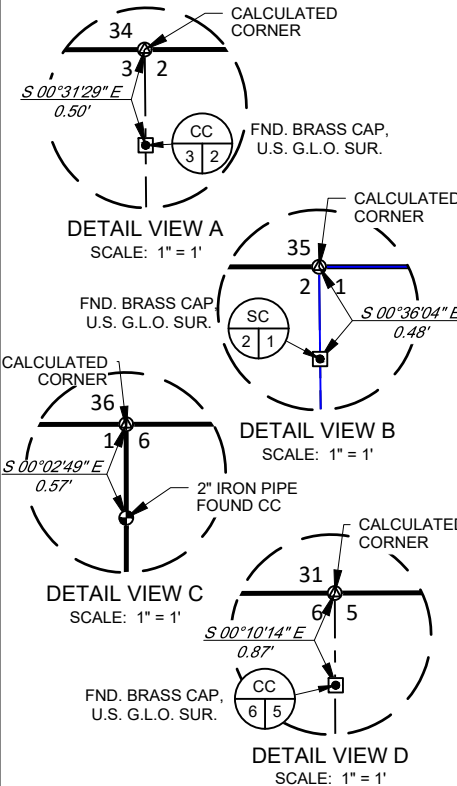
±85 FEET TO A POINT ±465 FEET NORTHEAST OF THE LOCATION.

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)
1280' FSL - SEC. 2
755' FWL - SEC. 2
X=624576 Y=547761
LAT.: N 32.5055662
LONG.: W 104.0633204
FIRST PERFORATION POINT (FPP)
1765' FSL - SEC. 2
100' FWL - SEC. 2
X=623915 Y=548245
LAT.: N 32.5069000
LONG.: W 104.0654588
BLM PERF. POINT (BPP1)
1759' FSL - SEC. 2
0' FEL - SEC. 2
X=629099 Y=548251
LAT.: N 32.5068815
LONG.: W 104.0486430
BLM PERF. POINT (BPP2)
1765' FSL - SEC. 1
0' FEL - SEC. 1
X=634405 Y=548258
LAT.: N 32.5068602
LONG.: W 104.0314315
LAST PERFORATION POINT (LPP)
2049' FSL - SEC. 6
2231' FWL - SEC. 6
X=636636 Y=548261
LAT.: N 32.5068505
LONG.: W 104.0241952
BOTTOM HOLE LOCATION (BHL)
2049' FSL - SEC. 6
2271' FWL - SEC. 6
X=636676 Y=548261
LAT.: N 32.5068504
LONG.: W 104.0240655



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

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

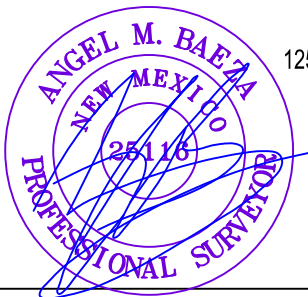
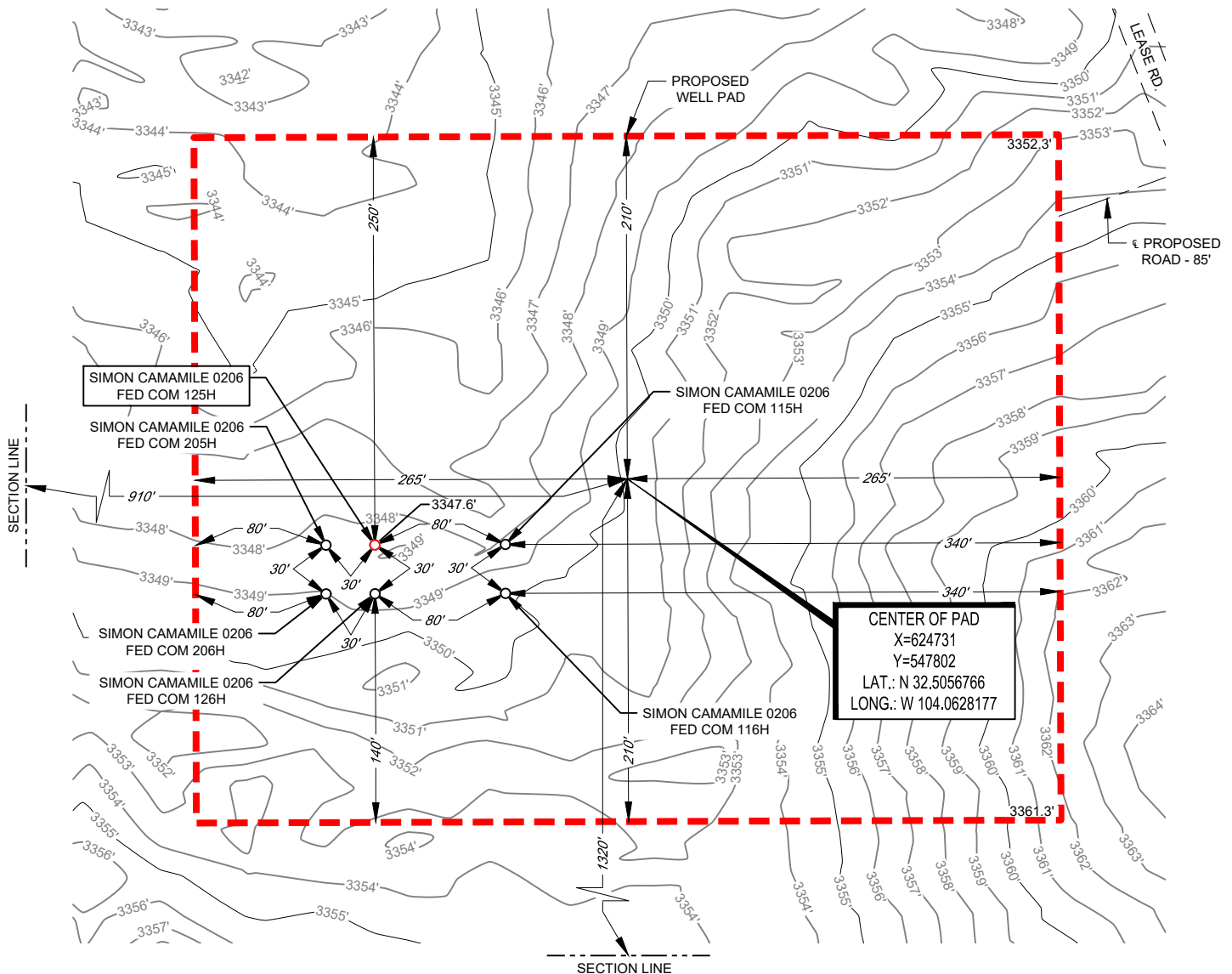
LEGEND

--- 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 125H
 125H LATITUDE N 32.5055661 125H LONGITUDE W 104.0633202

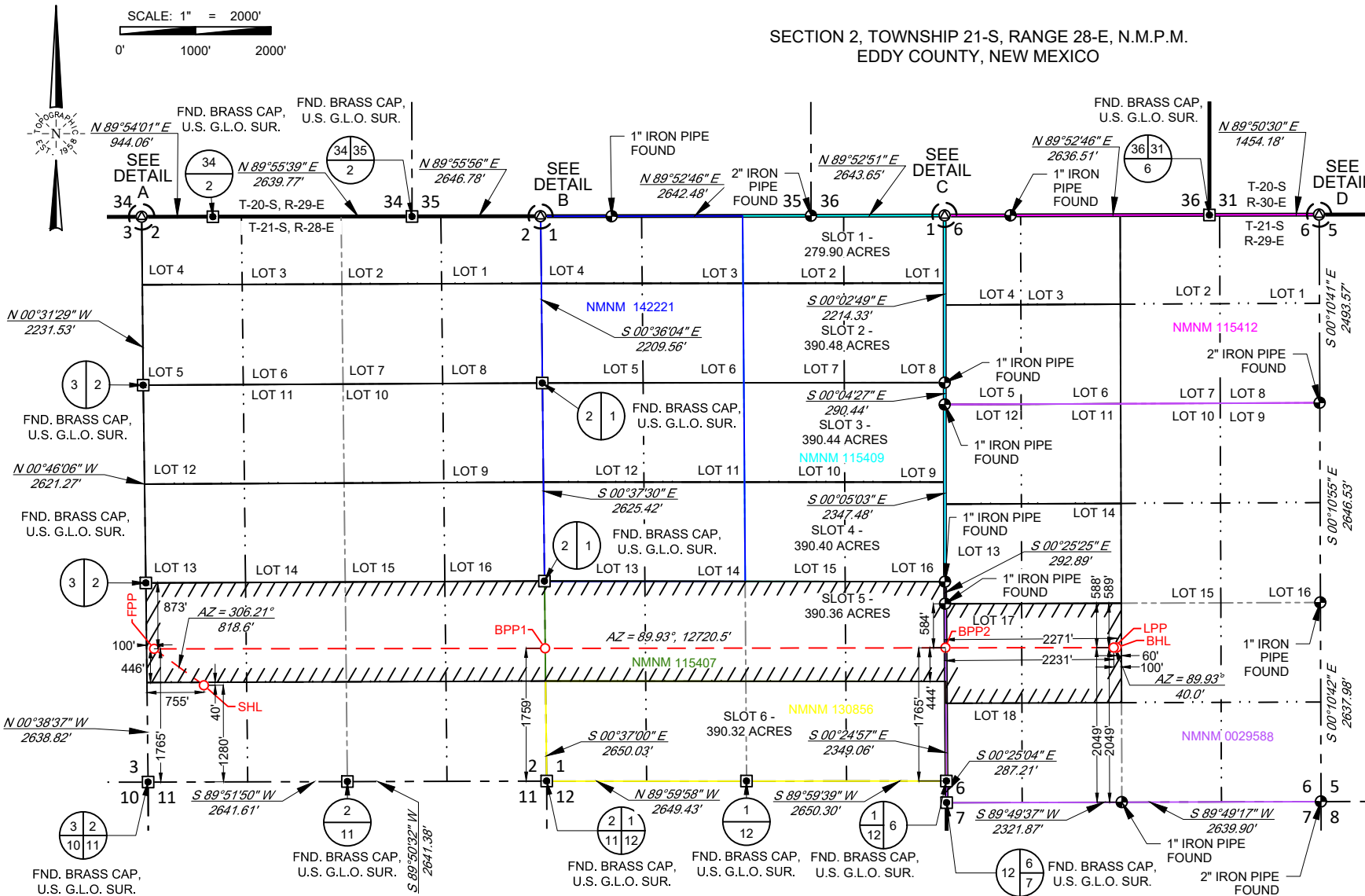
CENTER OF PAD IS 1320' FSL & 910' FWL

SCALE: 1" = 100'

0' 50' 100'

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 481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 TEXAS FIRM REGISTRATION NO. 10042504
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FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ **AMENDED REPORT**



LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 125H

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

COUNTY EDDY STATE NM

DESCRIPTION 1280' FSL & 755' FWL

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

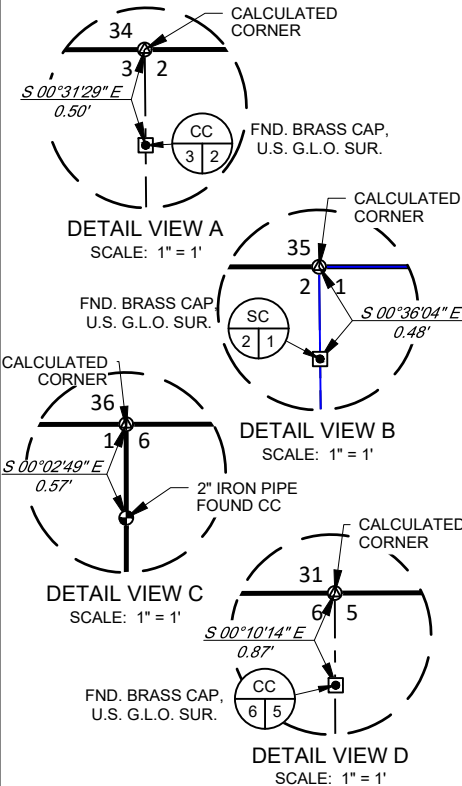
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Angel M. Baeza, P.S. No. 25116
March 11, 2024

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
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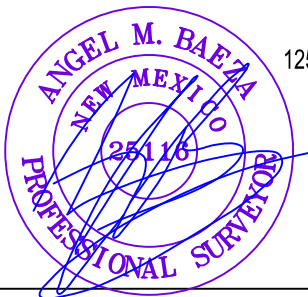
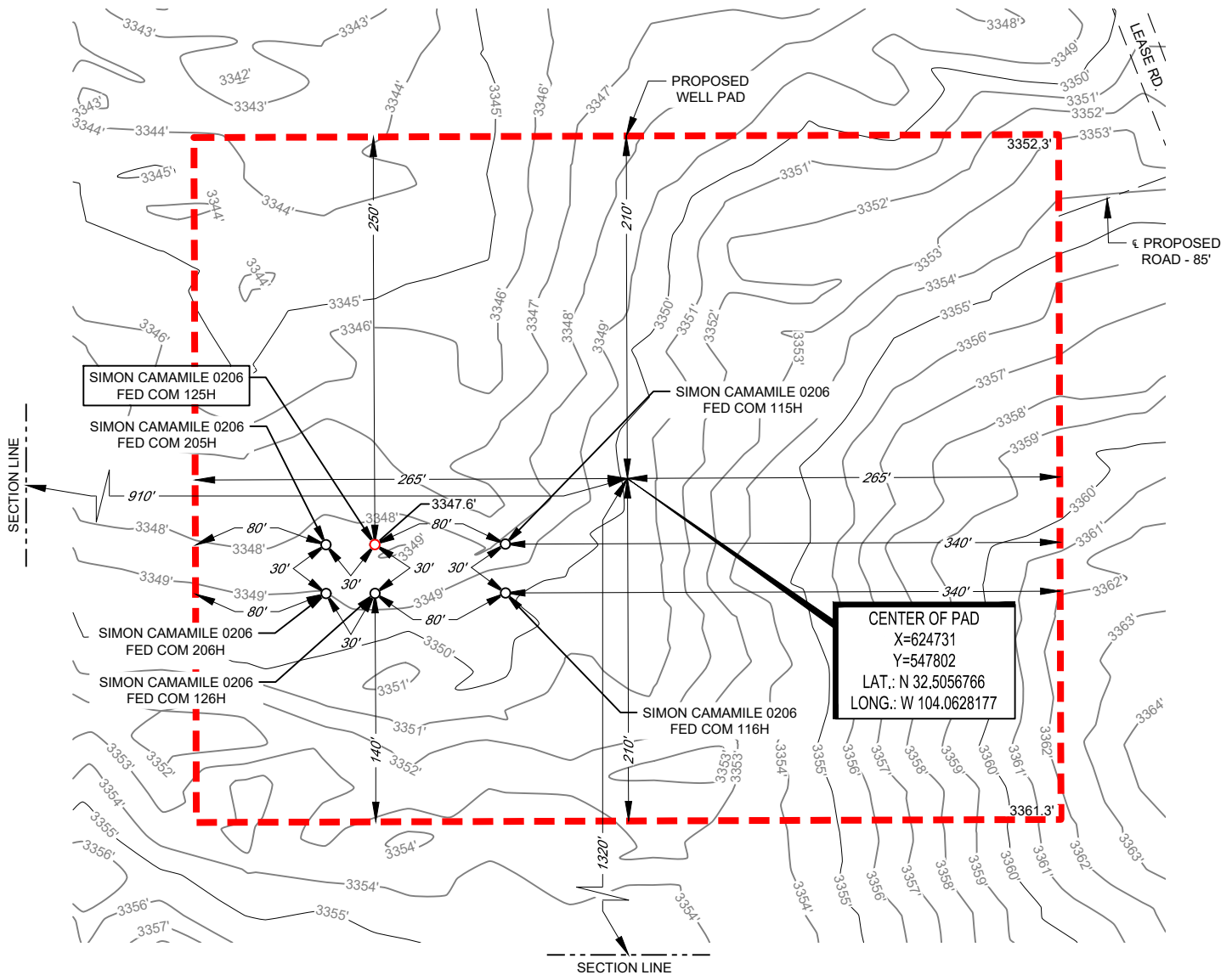
LEGEND

--- 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

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

LEASE NAME & WELL NO.: SIMON CAMAMILE 0206 FED COM 125H
 125H LATITUDE N 32.5055661 125H LONGITUDE W 104.0633202

CENTER OF PAD IS 1320' FSL & 910' FWL

SCALE: 1" = 100'

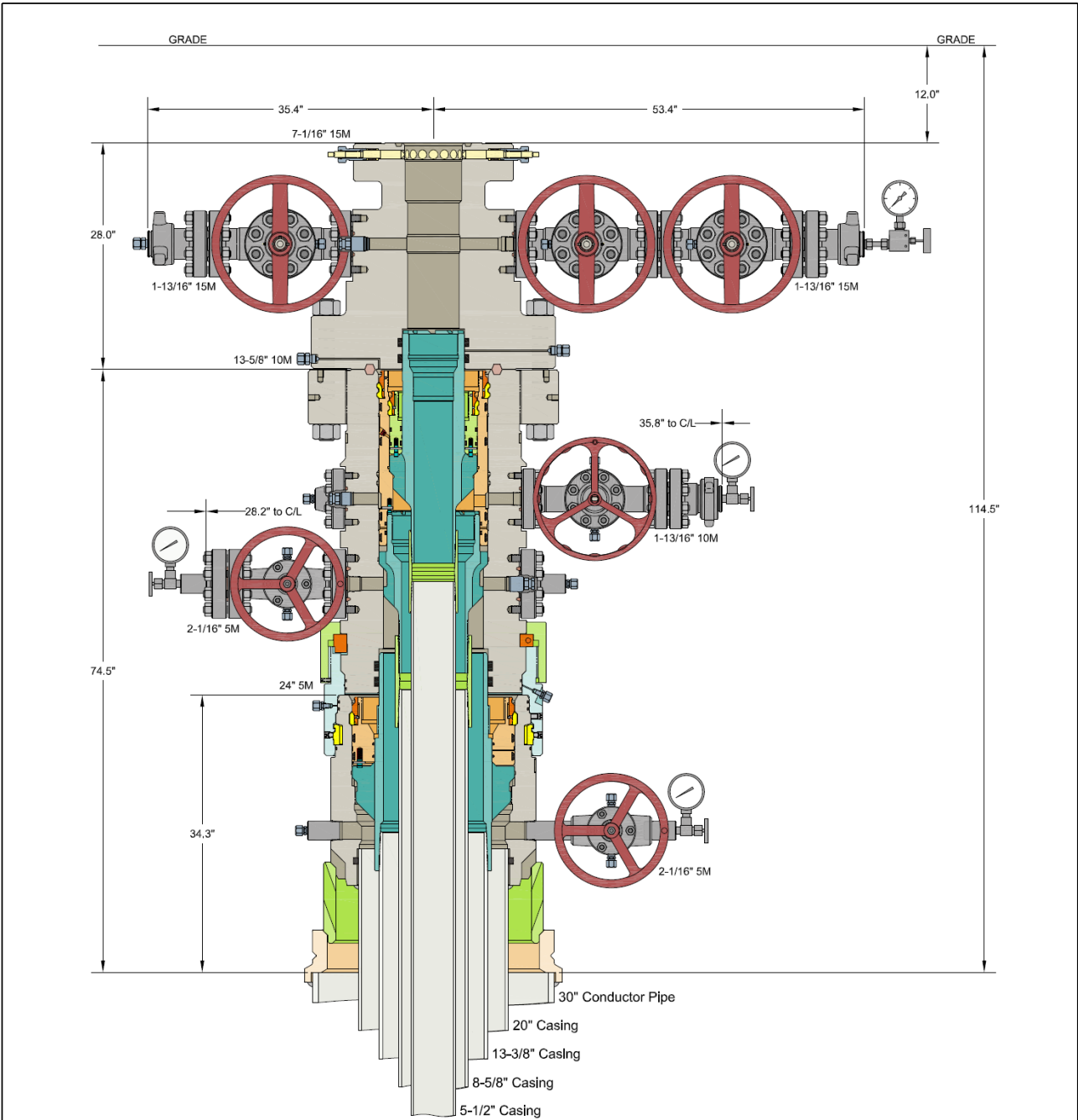
0' 50' 100'

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

4-String Wellhead Diagram

Simon Camamile 0206 Fed Com 125H
SHL: 1280' 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 125H
SHL: 1280' 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

POWERTRACK

HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

№: 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

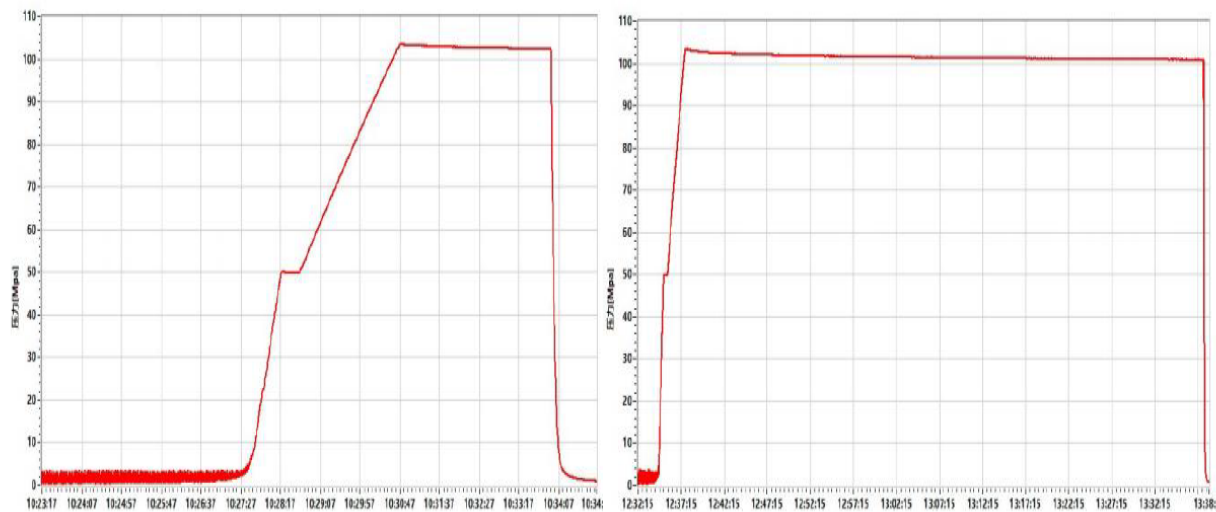
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than 65 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

LTTY/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

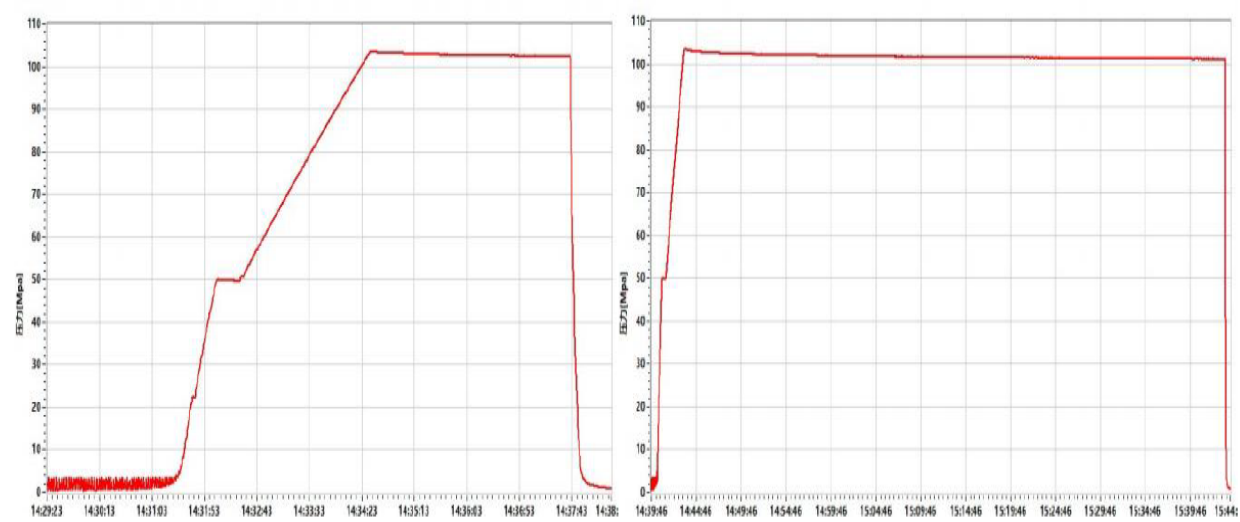
Rate of length change

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



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



Casing Table Specification Sheet

Simon Camamile 0206 Fed Com 125H

SHL: 1280' FSL & 755' FWL Section 2

BHL: 2049' FSL & 2271' 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 - 1762	0 - 799	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3984	0 - 3952	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21212	0 - 8575	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Modified BOP Testing Procedure for Batch Drilling

Simon Camamile 0206 Fed Com 125H
SHL: 1280' FSL & 755' FWL Section 2

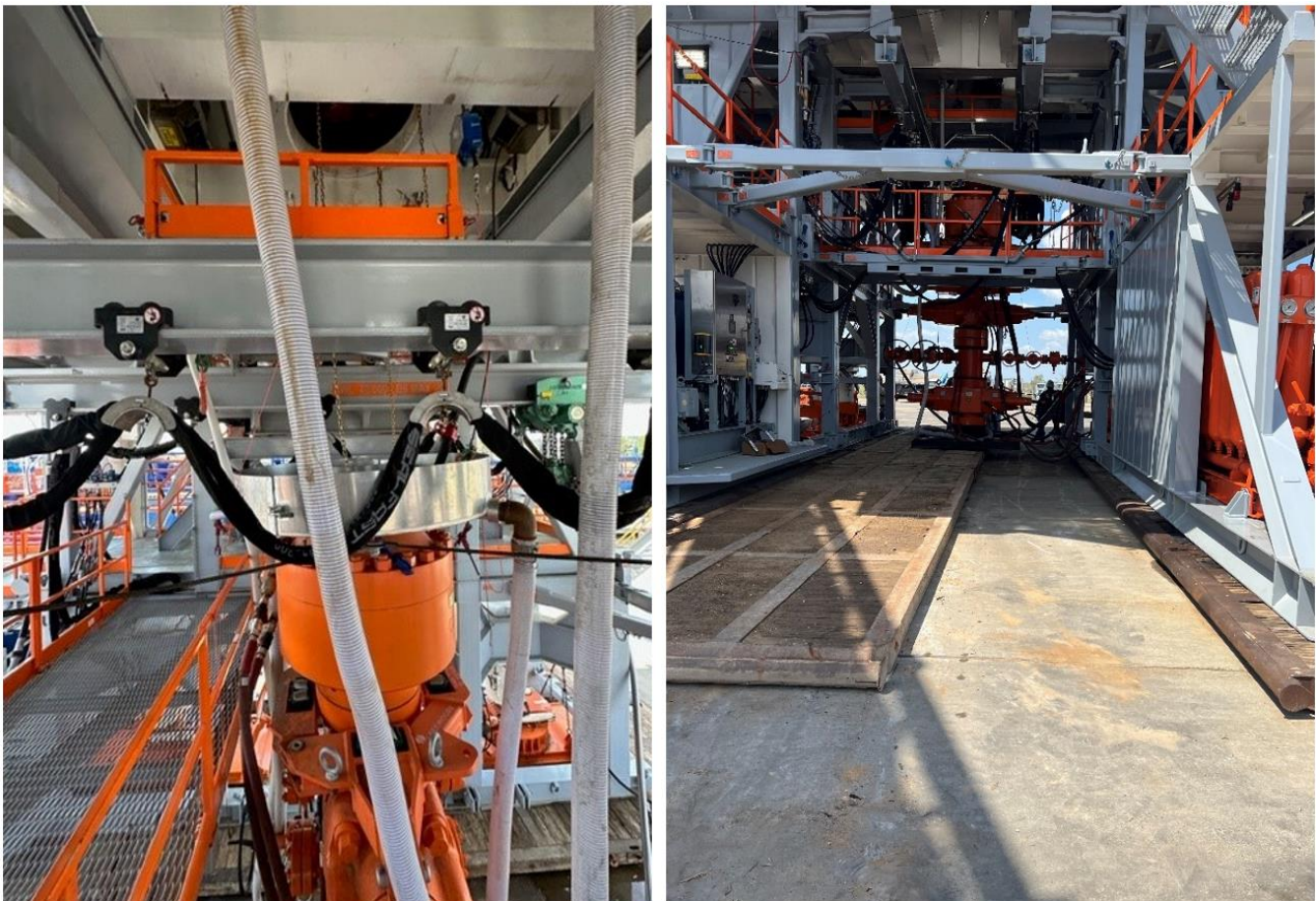
Township/Range: 21S 28E
Elevation Above Sea Level: 3347'

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).

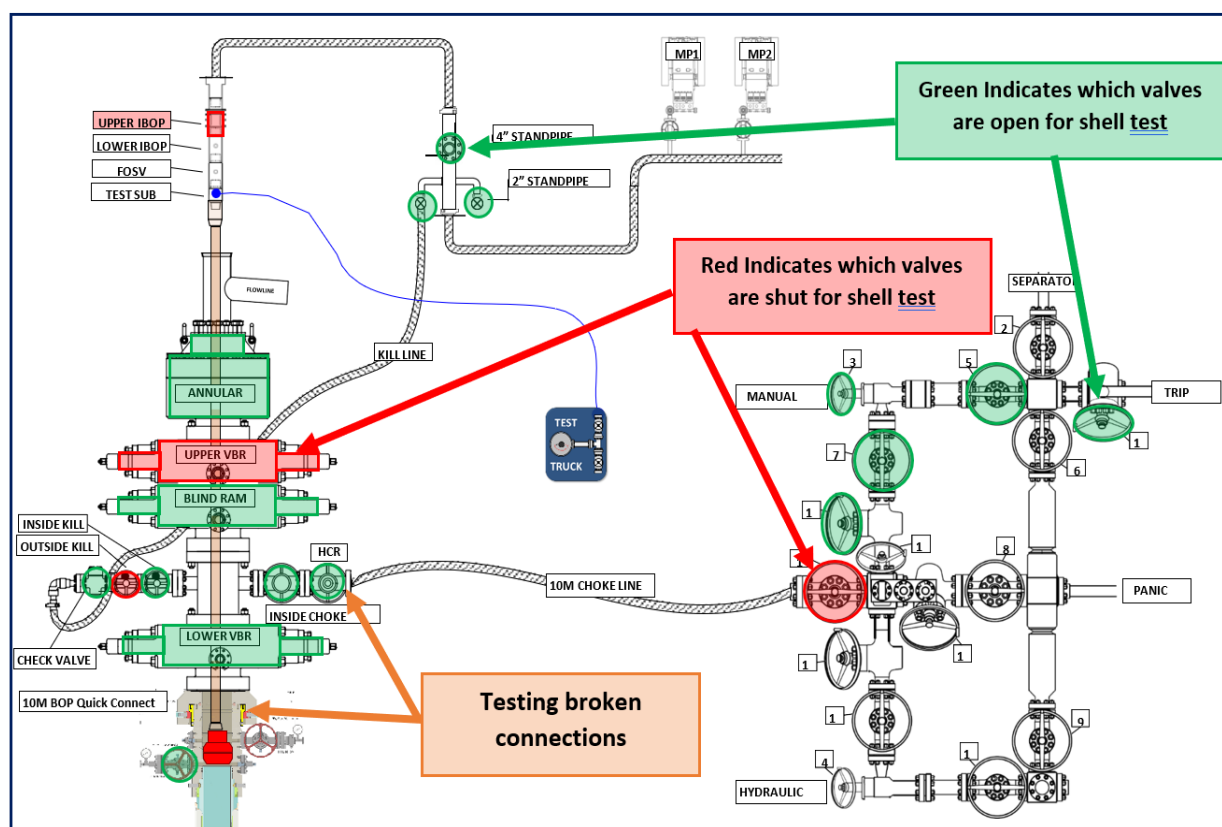
This variance request will be referenced and attached in all APDs seeking approval for break testing and will receive approval prior to implementing this variance.

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.

The diagram illustrates a wellhead and its associated piping system. Key components and connections include:

- Wellhead Assembly:**
 - UPPER IBOP (Upper Inflow Control Valve)
 - LOWER IBOP (Lower Inflow Control Valve)
 - FOSV (Flow Shut-off Valve)
 - TEST SUB (Test Sub)
 - ANNULAR (Annular BOP)
 - UPPER VBR (Upper Valve Bore)
 - BLIND RAM (Blind Ram)
 - LOWER VBR (Lower Valve Bore)
 - 10M BOP Quick Connect (10M Bore Pressure Quick Connect)
- Piping and Standpipes:**
 - 4" STANDPIPE (4-inch Standpipe)
 - 2" STANDPIPE (2-inch Standpipe)
 - KILL LINE (Kill Line)
 - 10M CHOKE LINE (10M Choke Line)
- Manifold and Control Systems:**
 - MP1 (Manifold Pump 1)
 - MP2 (Manifold Pump 2)
 - SEPARATOR (Separator)
 - MANUAL (Manual Control)
 - TRIP (Trip Line)
 - PANIC (Panic Line)
 - HYDRAULIC (Hydraulic Control)
- Valves and Safety Features:**
 - INSIDE KILL (Inside Kill Valve)
 - OUTSIDE KILL (Outside Kill Valve)
 - CHECK VALVE (Check Valve)
 - HCR (Hydraulic Control Ram)
 - INSIDE CHOKE (Inside Choke Valve)
- Broken Connections:** A red box labeled "Broken connections during skid" points to the HCR and the 10M BOP Quick Connect area, indicating a failure point during a skid event.



Offline Cementing - Intermediate Casing

Simon Camamile 0206 Fed Com 125H
SHL: 1280' 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.

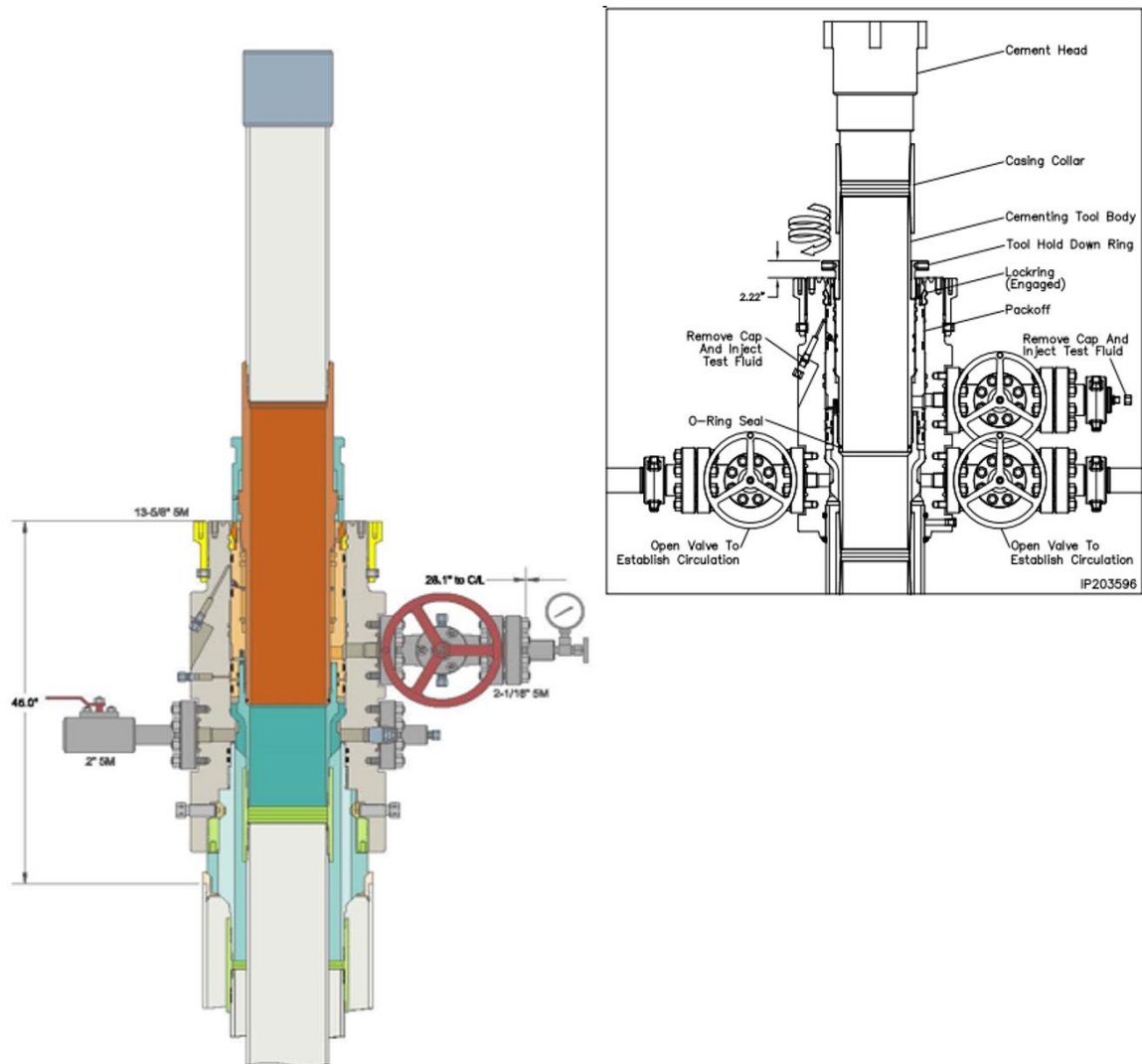
Offline Cementing Procedure

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

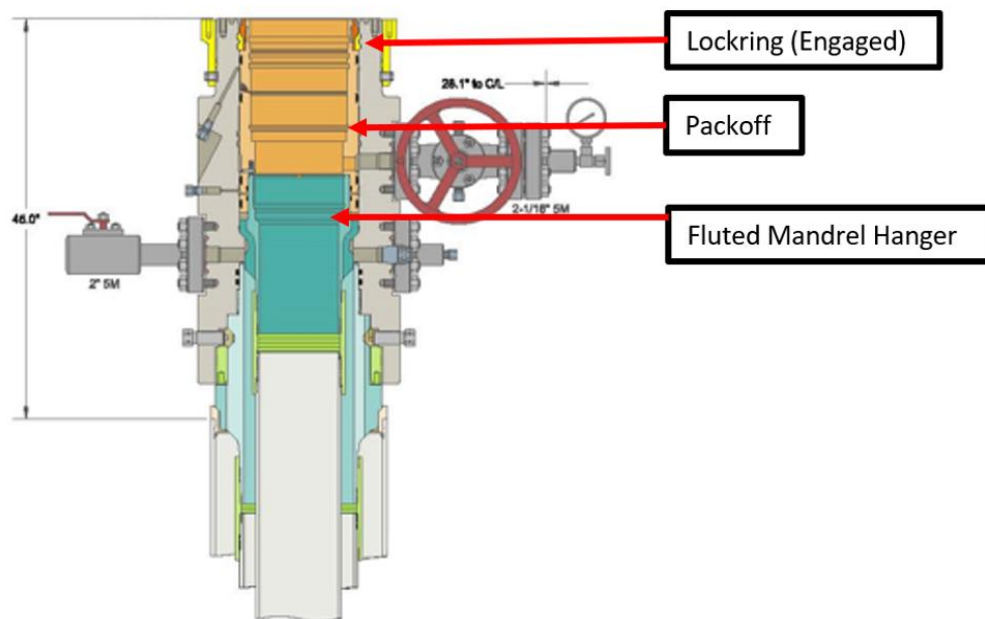
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



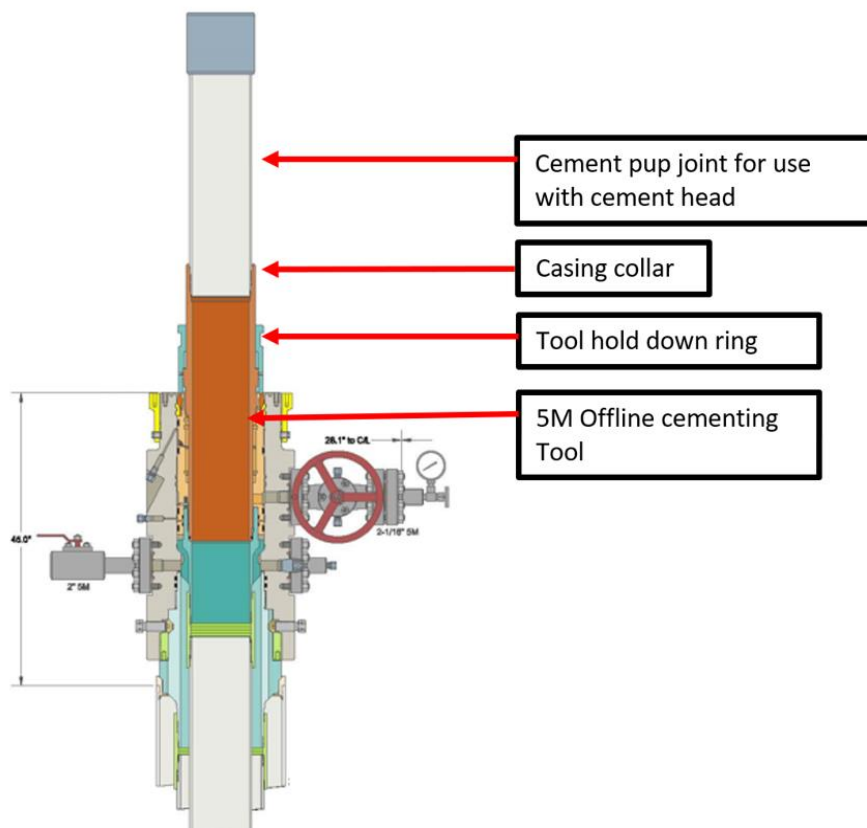
Offline Cementing - Intermediate Casing

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.

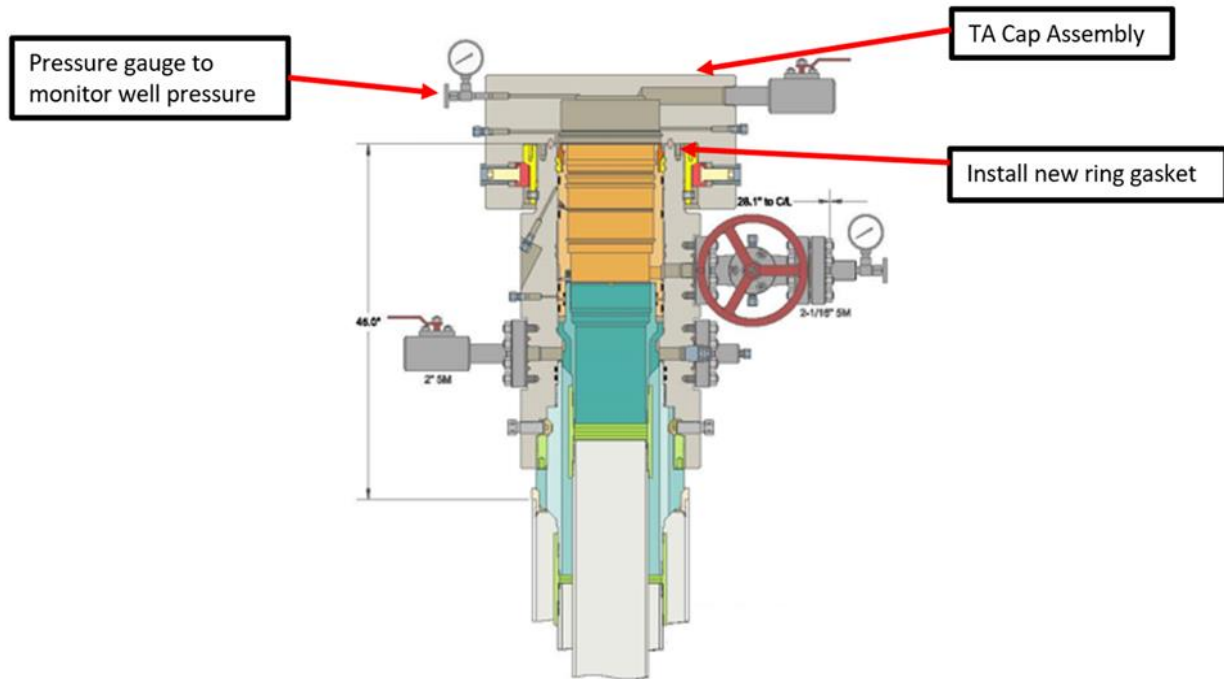


Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing

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



Offline Cementing - Surface Casing

Simon Camamile 0206 Fed Com 125H
SHL: 1280' 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.

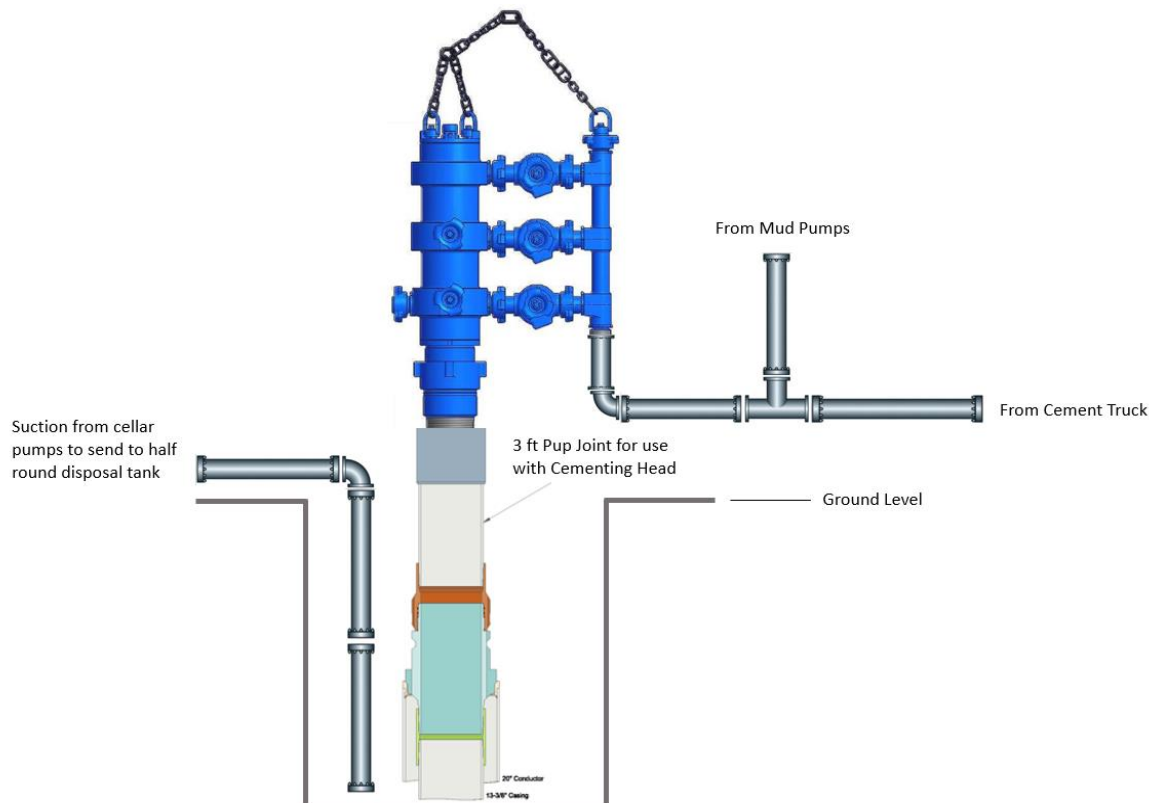
Cement Program

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.

Casing Specs - 8.625" 32lb Hunting TLW

Simon Camamile 0206 Fed Com 125H

Township/Range: 21S 28E

SHL: 1280' 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*lb
Optimum Makeup Torque:	33,600	ft*lb
Maximum Makeup Torque:	74,300	ft*lb
Minimum Yield:	82,600	ft*lb
Makeup Loss:	5.97	in

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



Generated on 7/26/2022

Matador Production Company

Ranger/Arrowhead

Simon Camamile Fed Com

Simon Camamile Fed Com #125H

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 #125H
Company:	Matador Production Company	TVD Reference:	KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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 #125H					
Well Position	+N/-S	-0.3 usft	Northing:	547,699.99 usft	Latitude:	32° 30' 19.608 N
	+E/-W	-80.0 usft	Easting:	583,395.03 usft	Longitude:	104° 3' 46.147 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,348.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/7/2022	6.71	60.18	47,584.25976758

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	21,212.2	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	10.00	304.28	1,997.5	24.5	-36.0	2.00	2.00	0.00	304.28	
6,498.0	10.00	304.28	6,427.1	464.5	-681.3	0.00	0.00	0.00	0.00	
6,898.0	0.00	0.00	6,825.1	484.1	-710.1	2.50	-2.50	0.00	180.00	
8,074.9	0.00	0.00	8,002.0	484.1	-710.1	0.00	0.00	0.00	0.00	KOP - Simon Camam
8,971.9	89.70	89.93	8,574.9	484.8	-140.2	10.00	10.00	0.00	89.93	
9,318.4	90.00	89.93	8,575.8	485.2	206.4	0.09	0.09	0.00	-0.22	
21,212.2	90.00	89.93	8,575.0	500.0	12,100.1	0.00	0.00	0.00	0.00	BHL - Simon Camami

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Well:	Simon Camamile Fed Com #125H	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
749.0	0.00	0.00	749.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,298.0	0.00	0.00	1,298.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (G30:CS14-CSB): Base Salt									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,600.0	2.00	304.28	1,600.0	1.0	-1.4	-1.4	2.00	2.00	0.00
1,700.0	4.00	304.28	1,699.8	3.9	-5.8	-5.8	2.00	2.00	0.00
1,712.1	4.24	304.28	1,711.9	4.4	-6.5	-6.5	2.00	2.00	0.00
Z (Capitan (T))									
1,800.0	6.00	304.28	1,799.5	8.8	-13.0	-13.0	2.00	2.00	0.00
1,900.0	8.00	304.28	1,898.7	15.7	-23.0	-23.0	2.00	2.00	0.00
2,000.0	10.00	304.28	1,997.5	24.5	-36.0	-35.9	2.00	2.00	0.00
Start 4498.0 hold at 2000.0 MD									
2,100.0	10.00	304.28	2,095.9	34.3	-50.3	-50.3	0.00	0.00	0.00
2,200.0	10.00	304.28	2,194.4	44.1	-64.7	-64.6	0.00	0.00	0.00
2,300.0	10.00	304.28	2,292.9	53.9	-79.0	-78.9	0.00	0.00	0.00
2,400.0	10.00	304.28	2,391.4	63.6	-93.4	-93.3	0.00	0.00	0.00
2,500.0	10.00	304.28	2,489.9	73.4	-107.7	-107.6	0.00	0.00	0.00
2,600.0	10.00	304.28	2,588.3	83.2	-122.1	-121.9	0.00	0.00	0.00
2,700.0	10.00	304.28	2,686.8	93.0	-136.4	-136.3	0.00	0.00	0.00
2,800.0	10.00	304.28	2,785.3	102.8	-150.7	-150.6	0.00	0.00	0.00
2,900.0	10.00	304.28	2,883.8	112.5	-165.1	-165.0	0.00	0.00	0.00
3,000.0	10.00	304.28	2,982.3	122.3	-179.4	-179.3	0.00	0.00	0.00
3,100.0	10.00	304.28	3,080.8	132.1	-193.8	-193.6	0.00	0.00	0.00
3,200.0	10.00	304.28	3,179.2	141.9	-208.1	-208.0	0.00	0.00	0.00
3,300.0	10.00	304.28	3,277.7	151.7	-222.5	-222.3	0.00	0.00	0.00
3,400.0	10.00	304.28	3,376.2	161.4	-236.8	-236.6	0.00	0.00	0.00
3,500.0	10.00	304.28	3,474.7	171.2	-251.2	-251.0	0.00	0.00	0.00
3,600.0	10.00	304.28	3,573.2	181.0	-265.5	-265.3	0.00	0.00	0.00
3,700.0	10.00	304.28	3,671.6	190.8	-279.9	-279.6	0.00	0.00	0.00
3,800.0	10.00	304.28	3,770.1	200.6	-294.2	-294.0	0.00	0.00	0.00
3,900.0	10.00	304.28	3,868.6	210.4	-308.6	-308.3	0.00	0.00	0.00
3,934.7	10.00	304.28	3,902.8	213.7	-313.6	-313.3	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
4,000.0	10.00	304.28	3,967.1	220.1	-322.9	-322.7	0.00	0.00	0.00
4,100.0	10.00	304.28	4,065.6	229.9	-337.3	-337.0	0.00	0.00	0.00
4,200.0	10.00	304.28	4,164.0	239.7	-351.6	-351.3	0.00	0.00	0.00

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Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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)
4,300.0	10.00	304.28	4,262.5	249.5	-366.0	-365.7	0.00	0.00	0.00
4,400.0	10.00	304.28	4,361.0	259.3	-380.3	-380.0	0.00	0.00	0.00
4,500.0	10.00	304.28	4,459.5	269.0	-394.7	-394.3	0.00	0.00	0.00
4,600.0	10.00	304.28	4,558.0	278.8	-409.0	-408.7	0.00	0.00	0.00
4,700.0	10.00	304.28	4,656.4	288.6	-423.4	-423.0	0.00	0.00	0.00
4,800.0	10.00	304.28	4,754.9	298.4	-437.7	-437.3	0.00	0.00	0.00
4,900.0	10.00	304.28	4,853.4	308.2	-452.1	-451.7	0.00	0.00	0.00
4,996.8	10.00	304.28	4,948.7	317.6	-465.9	-465.6	0.00	0.00	0.00
Z (G7: Brushy Cyn.)									
5,000.0	10.00	304.28	4,951.9	317.9	-466.4	-466.0	0.00	0.00	0.00
5,100.0	10.00	304.28	5,050.4	327.7	-480.8	-480.4	0.00	0.00	0.00
5,200.0	10.00	304.28	5,148.9	337.5	-495.1	-494.7	0.00	0.00	0.00
5,300.0	10.00	304.28	5,247.3	347.3	-509.5	-509.0	0.00	0.00	0.00
5,400.0	10.00	304.28	5,345.8	357.1	-523.8	-523.4	0.00	0.00	0.00
5,500.0	10.00	304.28	5,444.3	366.8	-538.1	-537.7	0.00	0.00	0.00
5,600.0	10.00	304.28	5,542.8	376.6	-552.5	-552.0	0.00	0.00	0.00
5,700.0	10.00	304.28	5,641.3	386.4	-566.8	-566.4	0.00	0.00	0.00
5,800.0	10.00	304.28	5,739.7	396.2	-581.2	-580.7	0.00	0.00	0.00
5,900.0	10.00	304.28	5,838.2	406.0	-595.5	-595.0	0.00	0.00	0.00
6,000.0	10.00	304.28	5,936.7	415.8	-609.9	-609.4	0.00	0.00	0.00
6,100.0	10.00	304.28	6,035.2	425.5	-624.2	-623.7	0.00	0.00	0.00
6,161.2	10.00	304.28	6,095.4	431.5	-633.0	-632.5	0.00	0.00	0.00
Z (G5: L. Brushy Cyn.)									
6,200.0	10.00	304.28	6,133.7	435.3	-638.6	-638.1	0.00	0.00	0.00
6,300.0	10.00	304.28	6,232.1	445.1	-652.9	-652.4	0.00	0.00	0.00
6,382.9	10.00	304.28	6,313.8	453.2	-664.8	-664.3	0.00	0.00	0.00
Z (G4: BSG (CS9))									
6,400.0	10.00	304.28	6,330.6	454.9	-667.3	-666.7	0.00	0.00	0.00
6,498.0	10.00	304.28	6,427.1	464.5	-681.3	-680.8	0.00	0.00	0.00
Start Drop -2.50									
6,500.0	9.95	304.28	6,429.1	464.7	-681.6	-681.1	2.50	-2.50	0.00
6,600.0	7.45	304.28	6,527.9	473.2	-694.1	-693.5	2.50	-2.50	0.00
6,700.0	4.95	304.28	6,627.3	479.3	-703.0	-702.5	2.50	-2.50	0.00
6,754.8	3.58	304.28	6,682.0	481.6	-706.4	-705.8	2.50	-2.50	0.00
Z (L8.2: U. Avalon Shale)									
6,800.0	2.45	304.28	6,727.1	482.9	-708.4	-707.8	2.50	-2.50	0.00
6,825.8	1.81	304.28	6,752.9	483.4	-709.2	-708.6	2.50	-2.50	0.00
Z (L6.3: Avalon Carb)									
6,898.0	0.00	0.00	6,825.1	484.1	-710.1	-709.5	2.50	-2.50	0.00
Start 1176.9 hold at 6898.0 MD									
6,900.0	0.00	0.00	6,827.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,927.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,055.8	0.00	0.00	6,982.9	484.1	-710.1	-709.5	0.00	0.00	0.00
Z (L6.2: L. Avalon Shale)									
7,100.0	0.00	0.00	7,027.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,127.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,227.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,327.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,494.8	0.00	0.00	7,421.9	484.1	-710.1	-709.5	0.00	0.00	0.00
Z (L5.1: FB SG)									
7,500.0	0.00	0.00	7,427.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,527.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,627.1	484.1	-710.1	-709.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Company:	Matador Production Company	TVD Reference:	KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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)
7,738.8	0.00	0.00	7,665.9	484.1	-710.1	-709.5	0.00	0.00	0.00
Z (L4.3: SBSC)									
7,800.0	0.00	0.00	7,727.1	484.1	-710.1	-709.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,827.1	484.1	-710.1	-709.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,927.1	484.1	-710.1	-709.5	0.00	0.00	0.00
8,074.9	0.00	0.00	8,002.0	484.1	-710.1	-709.5	0.00	0.00	0.00
Start Build 10.00 - KOP - Simon Camamile Fed Com #125H									
8,100.0	2.51	89.93	8,027.1	484.1	-709.6	-709.0	10.00	10.00	0.00
8,200.0	12.51	89.93	8,126.1	484.1	-696.5	-695.9	10.00	10.00	0.00
8,207.3	13.24	89.93	8,133.2	484.1	-694.9	-694.3	10.00	10.00	0.00
Z (L4.1: SBSG)									
8,300.0	22.51	89.93	8,221.4	484.1	-666.5	-665.9	10.00	10.00	0.00
8,400.0	32.51	89.93	8,309.9	484.2	-620.3	-619.7	10.00	10.00	0.00
8,500.0	42.51	89.93	8,389.2	484.3	-559.5	-558.9	10.00	10.00	0.00
8,551.4	47.65	89.93	8,425.5	484.3	-523.1	-522.5	10.00	10.00	0.00
FPP - Simon Camamile Fed Com #125H									
8,600.0	52.51	89.93	8,456.6	484.3	-485.9	-485.3	10.00	10.00	0.00
8,647.8	57.29	89.93	8,484.1	484.4	-446.7	-446.1	10.00	10.00	0.00
Z (L3.3: TBSC)									
8,700.0	62.51	89.93	8,510.3	484.4	-401.6	-401.0	10.00	10.00	0.00
8,800.0	72.51	89.93	8,548.5	484.6	-309.3	-308.8	10.00	10.00	0.00
8,900.0	82.51	89.93	8,570.1	484.7	-211.8	-211.2	10.00	10.00	0.00
8,971.9	89.70	89.93	8,574.9	484.8	-140.2	-139.6	10.00	10.00	0.00
Start DLS 0.09 TFO -0.22									
9,000.0	89.72	89.93	8,575.1	484.8	-112.1	-111.5	0.09	0.09	0.00
9,100.0	89.81	89.93	8,575.5	484.9	-12.1	-11.5	0.09	0.09	0.00
9,200.0	89.90	89.93	8,575.7	485.0	87.9	88.5	0.09	0.09	0.00
9,300.0	89.99	89.93	8,575.8	485.2	187.9	188.5	0.09	0.09	0.00
9,318.4	90.00	89.93	8,575.8	485.2	206.4	207.0	0.09	0.09	0.00
Start 11893.8 hold at 9318.4 MD									
9,400.0	90.00	89.93	8,575.8	485.3	287.9	288.5	0.00	0.00	0.00
9,500.0	90.00	89.93	8,575.8	485.4	387.9	388.5	0.00	0.00	0.00
9,600.0	90.00	89.93	8,575.8	485.5	487.9	488.5	0.00	0.00	0.00
9,700.0	90.00	89.93	8,575.8	485.7	587.9	588.5	0.00	0.00	0.00
9,800.0	90.00	89.93	8,575.8	485.8	687.9	688.5	0.00	0.00	0.00
9,900.0	90.00	89.93	8,575.8	485.9	787.9	788.5	0.00	0.00	0.00
10,000.0	90.00	89.93	8,575.8	486.0	887.9	888.5	0.00	0.00	0.00
10,100.0	90.00	89.93	8,575.8	486.2	987.9	988.5	0.00	0.00	0.00
10,200.0	90.00	89.93	8,575.8	486.3	1,087.9	1,088.5	0.00	0.00	0.00
10,300.0	90.00	89.93	8,575.8	486.4	1,187.9	1,188.5	0.00	0.00	0.00
10,400.0	90.00	89.93	8,575.8	486.5	1,287.9	1,288.5	0.00	0.00	0.00
10,500.0	90.00	89.93	8,575.8	486.7	1,387.9	1,388.5	0.00	0.00	0.00
10,600.0	90.00	89.93	8,575.8	486.8	1,487.9	1,488.5	0.00	0.00	0.00
10,700.0	90.00	89.93	8,575.7	486.9	1,587.9	1,588.5	0.00	0.00	0.00
10,800.0	90.00	89.93	8,575.7	487.0	1,687.9	1,688.5	0.00	0.00	0.00
10,900.0	90.00	89.93	8,575.7	487.2	1,787.9	1,788.5	0.00	0.00	0.00
11,000.0	90.00	89.93	8,575.7	487.3	1,887.9	1,888.5	0.00	0.00	0.00
11,100.0	90.00	89.93	8,575.7	487.4	1,987.9	1,988.5	0.00	0.00	0.00
11,200.0	90.00	89.93	8,575.7	487.5	2,087.9	2,088.5	0.00	0.00	0.00
11,300.0	90.00	89.93	8,575.7	487.7	2,187.9	2,188.5	0.00	0.00	0.00
11,400.0	90.00	89.93	8,575.7	487.8	2,287.9	2,288.5	0.00	0.00	0.00
11,500.0	90.00	89.93	8,575.7	487.9	2,387.9	2,388.5	0.00	0.00	0.00
11,600.0	90.00	89.93	8,575.7	488.0	2,487.9	2,488.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Company:	Matador Production Company	TVD Reference:	KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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)
11,700.0	90.00	89.93	8,575.7	488.2	2,587.9	2,588.5	0.00	0.00	0.00
11,800.0	90.00	89.93	8,575.7	488.3	2,687.9	2,688.5	0.00	0.00	0.00
11,900.0	90.00	89.93	8,575.7	488.4	2,787.9	2,788.5	0.00	0.00	0.00
12,000.0	90.00	89.93	8,575.7	488.5	2,887.9	2,888.5	0.00	0.00	0.00
12,100.0	90.00	89.93	8,575.6	488.7	2,987.9	2,988.5	0.00	0.00	0.00
12,200.0	90.00	89.93	8,575.6	488.8	3,087.9	3,088.5	0.00	0.00	0.00
12,300.0	90.00	89.93	8,575.6	488.9	3,187.9	3,188.5	0.00	0.00	0.00
12,400.0	90.00	89.93	8,575.6	489.0	3,287.9	3,288.5	0.00	0.00	0.00
12,500.0	90.00	89.93	8,575.6	489.1	3,387.9	3,388.5	0.00	0.00	0.00
12,600.0	90.00	89.93	8,575.6	489.3	3,487.9	3,488.5	0.00	0.00	0.00
12,700.0	90.00	89.93	8,575.6	489.4	3,587.9	3,588.5	0.00	0.00	0.00
12,800.0	90.00	89.93	8,575.6	489.5	3,687.9	3,688.5	0.00	0.00	0.00
12,900.0	90.00	89.93	8,575.6	489.6	3,787.9	3,788.5	0.00	0.00	0.00
13,000.0	90.00	89.93	8,575.6	489.8	3,887.9	3,888.5	0.00	0.00	0.00
13,100.0	90.00	89.93	8,575.6	489.9	3,987.9	3,988.5	0.00	0.00	0.00
13,200.0	90.00	89.93	8,575.6	490.0	4,087.9	4,088.5	0.00	0.00	0.00
13,300.0	90.00	89.93	8,575.6	490.1	4,187.9	4,188.5	0.00	0.00	0.00
13,400.0	90.00	89.93	8,575.6	490.3	4,287.9	4,288.5	0.00	0.00	0.00
13,500.0	90.00	89.93	8,575.5	490.4	4,387.9	4,388.5	0.00	0.00	0.00
13,600.0	90.00	89.93	8,575.5	490.5	4,487.9	4,488.5	0.00	0.00	0.00
13,633.7	90.00	89.93	8,575.5	490.6	4,521.6	4,522.2	0.00	0.00	0.00
BPP1 - Simon Camamile Fed Com #125H									
13,700.0	90.00	89.93	8,575.5	490.6	4,587.9	4,588.5	0.00	0.00	0.00
13,800.0	90.00	89.93	8,575.5	490.8	4,687.9	4,688.5	0.00	0.00	0.00
13,900.0	90.00	89.93	8,575.5	490.9	4,787.9	4,788.5	0.00	0.00	0.00
14,000.0	90.00	89.93	8,575.5	491.0	4,887.9	4,888.5	0.00	0.00	0.00
14,100.0	90.00	89.93	8,575.5	491.1	4,987.9	4,988.5	0.00	0.00	0.00
14,200.0	90.00	89.93	8,575.5	491.3	5,087.9	5,088.5	0.00	0.00	0.00
14,300.0	90.00	89.93	8,575.5	491.4	5,187.9	5,188.5	0.00	0.00	0.00
14,400.0	90.00	89.93	8,575.5	491.5	5,287.9	5,288.5	0.00	0.00	0.00
14,500.0	90.00	89.93	8,575.5	491.6	5,387.9	5,388.5	0.00	0.00	0.00
14,600.0	90.00	89.93	8,575.5	491.8	5,487.9	5,488.5	0.00	0.00	0.00
14,700.0	90.00	89.93	8,575.5	491.9	5,587.9	5,588.5	0.00	0.00	0.00
14,800.0	90.00	89.93	8,575.5	492.0	5,687.9	5,688.5	0.00	0.00	0.00
14,900.0	90.00	89.93	8,575.4	492.1	5,787.9	5,788.5	0.00	0.00	0.00
15,000.0	90.00	89.93	8,575.4	492.3	5,887.9	5,888.5	0.00	0.00	0.00
15,100.0	90.00	89.93	8,575.4	492.4	5,987.9	5,988.5	0.00	0.00	0.00
15,200.0	90.00	89.93	8,575.4	492.5	6,087.9	6,088.5	0.00	0.00	0.00
15,300.0	90.00	89.93	8,575.4	492.6	6,187.9	6,188.5	0.00	0.00	0.00
15,400.0	90.00	89.93	8,575.4	492.8	6,287.9	6,288.5	0.00	0.00	0.00
15,500.0	90.00	89.93	8,575.4	492.9	6,387.9	6,388.5	0.00	0.00	0.00
15,600.0	90.00	89.93	8,575.4	493.0	6,487.9	6,488.5	0.00	0.00	0.00
15,700.0	90.00	89.93	8,575.4	493.1	6,587.9	6,588.5	0.00	0.00	0.00
15,800.0	90.00	89.93	8,575.4	493.2	6,687.9	6,688.5	0.00	0.00	0.00
15,900.0	90.00	89.93	8,575.4	493.4	6,787.9	6,788.5	0.00	0.00	0.00
16,000.0	90.00	89.93	8,575.4	493.5	6,887.9	6,888.5	0.00	0.00	0.00
16,100.0	90.00	89.93	8,575.4	493.6	6,987.9	6,988.5	0.00	0.00	0.00
16,200.0	90.00	89.93	8,575.4	493.7	7,087.9	7,088.5	0.00	0.00	0.00
16,300.0	90.00	89.93	8,575.3	493.9	7,187.9	7,188.5	0.00	0.00	0.00
16,400.0	90.00	89.93	8,575.3	494.0	7,287.9	7,288.5	0.00	0.00	0.00
16,500.0	90.00	89.93	8,575.3	494.1	7,387.9	7,388.5	0.00	0.00	0.00
16,600.0	90.00	89.93	8,575.3	494.2	7,487.9	7,488.5	0.00	0.00	0.00
16,700.0	90.00	89.93	8,575.3	494.4	7,587.9	7,588.5	0.00	0.00	0.00
16,800.0	90.00	89.93	8,575.3	494.5	7,687.9	7,688.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Company:	Matador Production Company	TVD Reference:	KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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)
16,900.0	90.00	89.93	8,575.3	494.6	7,787.9	7,788.5	0.00	0.00	0.00
17,000.0	90.00	89.93	8,575.3	494.7	7,887.9	7,888.5	0.00	0.00	0.00
17,100.0	90.00	89.93	8,575.3	494.9	7,987.9	7,988.5	0.00	0.00	0.00
17,200.0	90.00	89.93	8,575.3	495.0	8,087.9	8,088.5	0.00	0.00	0.00
17,300.0	90.00	89.93	8,575.3	495.1	8,187.9	8,188.5	0.00	0.00	0.00
17,400.0	90.00	89.93	8,575.3	495.2	8,287.9	8,288.5	0.00	0.00	0.00
17,500.0	90.00	89.93	8,575.3	495.4	8,387.9	8,388.5	0.00	0.00	0.00
17,600.0	90.00	89.93	8,575.3	495.5	8,487.9	8,488.5	0.00	0.00	0.00
17,700.0	90.00	89.93	8,575.2	495.6	8,587.9	8,588.5	0.00	0.00	0.00
17,800.0	90.00	89.93	8,575.2	495.7	8,687.9	8,688.5	0.00	0.00	0.00
17,900.0	90.00	89.93	8,575.2	495.9	8,787.9	8,788.5	0.00	0.00	0.00
18,000.0	90.00	89.93	8,575.2	496.0	8,887.9	8,888.5	0.00	0.00	0.00
18,100.0	90.00	89.93	8,575.2	496.1	8,987.9	8,988.5	0.00	0.00	0.00
18,200.0	90.00	89.93	8,575.2	496.2	9,087.9	9,088.5	0.00	0.00	0.00
18,300.0	90.00	89.93	8,575.2	496.4	9,187.9	9,188.5	0.00	0.00	0.00
18,400.0	90.00	89.93	8,575.2	496.5	9,287.9	9,288.5	0.00	0.00	0.00
18,500.0	90.00	89.93	8,575.2	496.6	9,387.9	9,388.5	0.00	0.00	0.00
18,600.0	90.00	89.93	8,575.2	496.7	9,487.9	9,488.5	0.00	0.00	0.00
18,700.0	90.00	89.93	8,575.2	496.8	9,587.9	9,588.5	0.00	0.00	0.00
18,800.0	90.00	89.93	8,575.2	497.0	9,687.9	9,688.5	0.00	0.00	0.00
18,900.0	90.00	89.93	8,575.2	497.1	9,787.9	9,788.5	0.00	0.00	0.00
18,941.3	90.00	89.93	8,575.2	497.1	9,829.2	9,829.8	0.00	0.00	0.00
BPP2 - Simon Camamile Fed Com #125H									
19,000.0	90.00	89.93	8,575.2	497.2	9,887.9	9,888.5	0.00	0.00	0.00
19,100.0	90.00	89.93	8,575.1	497.3	9,987.9	9,988.5	0.00	0.00	0.00
19,200.0	90.00	89.93	8,575.1	497.5	10,087.9	10,088.5	0.00	0.00	0.00
19,300.0	90.00	89.93	8,575.1	497.6	10,187.9	10,188.5	0.00	0.00	0.00
19,400.0	90.00	89.93	8,575.1	497.7	10,287.9	10,288.5	0.00	0.00	0.00
19,500.0	90.00	89.93	8,575.1	497.8	10,387.9	10,388.5	0.00	0.00	0.00
19,600.0	90.00	89.93	8,575.1	498.0	10,487.9	10,488.5	0.00	0.00	0.00
19,700.0	90.00	89.93	8,575.1	498.1	10,587.9	10,588.5	0.00	0.00	0.00
19,800.0	90.00	89.93	8,575.1	498.2	10,687.9	10,688.5	0.00	0.00	0.00
19,900.0	90.00	89.93	8,575.1	498.3	10,787.9	10,788.5	0.00	0.00	0.00
20,000.0	90.00	89.93	8,575.1	498.5	10,887.9	10,888.5	0.00	0.00	0.00
20,100.0	90.00	89.93	8,575.1	498.6	10,987.9	10,988.5	0.00	0.00	0.00
20,200.0	90.00	89.93	8,575.1	498.7	11,087.9	11,088.5	0.00	0.00	0.00
20,300.0	90.00	89.93	8,575.1	498.8	11,187.9	11,188.5	0.00	0.00	0.00
20,400.0	90.00	89.93	8,575.1	499.0	11,287.9	11,288.5	0.00	0.00	0.00
20,500.0	90.00	89.93	8,575.1	499.1	11,387.9	11,388.5	0.00	0.00	0.00
20,600.0	90.00	89.93	8,575.0	499.2	11,487.9	11,488.5	0.00	0.00	0.00
20,700.0	90.00	89.93	8,575.0	499.3	11,587.9	11,588.5	0.00	0.00	0.00
20,800.0	90.00	89.93	8,575.0	499.5	11,687.9	11,688.5	0.00	0.00	0.00
20,900.0	90.00	89.93	8,575.0	499.6	11,787.9	11,788.5	0.00	0.00	0.00
21,000.0	90.00	89.93	8,575.0	499.7	11,887.9	11,888.5	0.00	0.00	0.00
21,100.0	90.00	89.93	8,575.0	499.8	11,987.9	11,988.5	0.00	0.00	0.00
21,200.0	90.00	89.93	8,575.0	500.0	12,087.9	12,088.5	0.00	0.00	0.00
21,212.2	90.00	89.93	8,575.0	500.0	12,100.1	12,100.7	0.00	0.00	0.00
TD at 21212.2 - BHL - Simon Camamile Fed Com #125H									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Company:	Matador Production Company	TVD Reference:	KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #125H	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	0.00	8,002.0	484.1	-710.1	548,184.00	582,685.00	32° 30' 24.416 N	104° 3' 54.424 W
FPP - Simon Camamile - plan misses target center by 202.8usft at 8551.4usft MD (8425.5 TVD, 484.3 N, -523.1 E) - Point	0.00	0.00	8,575.0	484.1	-660.1	548,184.00	582,735.00	32° 30' 24.414 N	104° 3' 53.840 W
BHL - Simon Camamile - plan hits target center - Point	0.00	0.00	8,575.0	500.0	12,100.1	548,199.95	595,494.95	32° 30' 24.230 N	104° 1' 24.833 W
BPP2 - Simon Camamile - plan misses target center by 0.2usft at 18941.3usft MD (8575.2 TVD, 497.1 N, 9829.2 E) - Point	0.00	0.00	8,575.0	497.0	9,829.2	548,197.00	593,224.00	32° 30' 24.265 N	104° 1' 51.353 W
BPP1 - Simon Camamile - plan misses target center by 0.6usft at 13633.7usft MD (8575.5 TVD, 490.6 N, 4521.6 E) - Point	0.00	0.00	8,575.0	490.3	4,521.6	548,190.29	587,916.39	32° 30' 24.343 N	104° 2' 53.333 W

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
749.0	749.0	Z (Rustler)		1.14	89.93
1,298.0	1,298.0	Z (G30:CS14-CSB): Base Salt		1.14	89.93
1,712.1	1,711.9	Z (Capitan (T))		1.14	89.93
3,934.7	3,902.8	Z (G13: Cherry Cyn.)		1.14	89.93
4,996.8	4,948.7	Z (G7: Brushy Cyn.)		1.14	89.93
6,161.2	6,095.4	Z (G5: L. Brushy Cyn.)		1.14	89.93
6,382.9	6,313.8	Z (G4: BSG (CS9))		1.14	89.93
6,754.8	6,682.0	Z (L8.2: U. Avalon Shale)		1.14	89.93
6,825.8	6,752.9	Z (L6.3: Avalon Carb)		1.14	89.93
7,055.8	6,982.9	Z (L6.2: L. Avalon Shale)		1.14	89.93
7,494.8	7,421.9	Z (L5.1: FBSG)		1.14	89.93
7,738.8	7,665.9	Z (L4.3: SBSC)		1.14	89.93
8,207.3	8,133.2	Z (L4.1: SBSC)		1.14	89.93
8,647.8	8,484.1	Z (L3.3: TBSC)		1.14	89.93

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,000.0	1,997.5	24.5	-36.0	Start 4498.0 hold at 2000.0 MD
6,498.0	6,427.1	464.5	-681.3	Start Drop -2.50
6,898.0	6,825.1	484.1	-710.1	Start 1176.9 hold at 6898.0 MD
8,074.9	8,002.0	484.1	-710.1	Start Build 10.00
8,971.9	8,574.9	484.8	-140.2	Start DLS 0.09 TFO -0.22
9,318.4	8,575.8	485.2	206.4	Start 11893.8 hold at 9318.4 MD
21,212.2	8,575.0	500.0	12,100.1	TD at 21212.2

Matador Production Company

Ranger/Arrowhead

Simon Camamile Fed Com

Simon Camamile Fed Com #125H

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	21,212.2	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 #116H - Wellbore #1 - BLM P	1,531.1	1,535.7	78.5	68.1	7.497	CC, ES
Simon Camamile Fed Com #116H - Wellbore #1 - BLM P	21,212.2	20,196.6	1,568.1	1,036.6	2.950	SF
Simon Camamile Fed Com #126H - Wellbore #1 - BLM P	1,000.0	1,001.0	29.9	23.2	4.450	CC, ES
Simon Camamile Fed Com #126H - Wellbore #1 - BLM P	21,212.2	21,211.3	1,320.0	701.5	2.134	SF
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	1,500.0	1,500.0	80.0	69.7	7.773	CC
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	1,600.0	1,601.4	80.6	69.6	7.327	ES
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	21,212.2	22,187.4	1,288.3	925.5	3.551	SF
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	2,493.4	2,489.5	23.8	6.2	1.350	Level 3, CC
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	2,700.0	2,704.0	25.0	5.6	1.287	Level 3, ES
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	8,150.0	8,131.1	75.4	13.0	1.209	Level 2, SF
Simon Camamile Fed Com #206H - Wellbore #1 - BLM P	1,500.0	1,501.0	42.4	32.1	4.122	CC
Simon Camamile Fed Com #206H - Wellbore #1 - BLM P	1,600.0	1,600.2	43.0	32.1	3.916	ES
Simon Camamile Fed Com #206H - Wellbore #1 - BLM P	1,700.0	1,699.3	45.2	33.5	3.874	SF

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	2.0	2.0	0.0	0.0	110.31	-29.6	80.1	85.4				
100.0	100.0	102.0	102.0	0.1	0.1	110.31	-29.6	80.1	85.4	85.1	0.26	323.971	
200.0	200.0	202.0	202.0	0.5	0.5	110.31	-29.6	80.1	85.4	84.4	0.98	87.064	
300.0	300.0	302.0	302.0	0.8	0.9	110.31	-29.6	80.1	85.4	83.7	1.70	50.289	
400.0	400.0	402.0	402.0	1.2	1.2	110.31	-29.6	80.1	85.4	82.9	2.41	35.355	
500.0	500.0	502.0	502.0	1.6	1.6	110.31	-29.6	80.1	85.4	82.2	3.13	27.260	
600.0	600.0	602.0	602.0	1.9	1.9	110.31	-29.6	80.1	85.4	81.5	3.85	22.182	
700.0	700.0	702.0	702.0	2.3	2.3	110.31	-29.6	80.1	85.4	80.8	4.57	18.698	
800.0	800.0	802.0	802.0	2.6	2.6	110.31	-29.6	80.1	85.4	80.1	5.28	16.160	
900.0	900.0	902.0	902.0	3.0	3.0	110.31	-29.6	80.1	85.4	79.4	6.00	14.229	
1,000.0	1,000.0	1,002.0	1,002.0	3.4	3.4	110.31	-29.6	80.1	85.4	78.6	6.72	12.710	
1,100.0	1,100.0	1,102.0	1,102.0	3.7	3.7	110.31	-29.6	80.1	85.4	77.9	7.43	11.484	
1,200.0	1,200.0	1,202.0	1,202.0	4.1	4.1	110.31	-29.6	80.1	85.4	77.2	8.15	10.474	
1,300.0	1,300.0	1,303.8	1,303.7	4.4	4.4	112.07	-31.7	78.1	84.3	75.4	8.86	9.518	
1,400.0	1,400.0	1,404.9	1,404.5	4.8	4.8	117.40	-37.5	72.4	81.6	72.1	9.55	8.549	

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
1,500.0	1,500.0	1,504.9	1,503.6	5.1	5.1	126.71	-47.1	63.2	78.9	68.6	10.25	7.692		
1,531.1	1,531.1	1,535.7	1,533.9	5.3	5.2	-173.86	-50.8	59.7	78.5	68.1	10.48	7.497	CC, ES	
1,600.0	1,600.0	1,603.3	1,600.3	5.5	5.5	-164.67	-60.2	50.6	80.4	69.4	10.97	7.328		
1,700.0	1,699.8	1,701.1	1,696.0	5.9	5.8	-152.33	-74.9	36.5	89.6	77.9	11.68	7.674		
1,800.0	1,799.5	1,801.1	1,791.6	6.2	6.2	-143.60	-89.5	22.4	105.0	92.6	12.39	8.470		
1,900.0	1,898.7	1,903.6	1,887.0	6.6	6.7	-138.11	-104.1	8.4	124.6	111.5	13.13	9.490		
2,000.0	1,997.5	2,006.5	1,982.0	6.9	7.1	-134.96	-118.7	-5.6	147.4	133.5	13.89	10.614		
2,100.0	2,095.9	2,109.5	2,076.8	7.3	7.5	-133.33	-133.2	-19.6	171.6	156.9	14.66	11.706		
2,200.0	2,194.4	2,187.4	2,171.6	7.7	7.9	-132.10	-147.7	-33.6	195.8	180.5	15.33	12.775		
2,300.0	2,292.9	2,284.3	2,266.5	8.1	8.3	-131.14	-162.2	-47.6	220.2	204.1	16.09	13.683		
2,400.0	2,391.4	2,381.3	2,361.3	8.5	8.7	-130.38	-176.7	-61.5	244.6	227.7	16.86	14.504		
2,500.0	2,489.9	2,478.2	2,456.1	8.9	9.2	-129.75	-191.3	-75.5	269.0	251.4	17.64	15.248		
2,600.0	2,588.3	2,575.1	2,550.9	9.3	9.6	-129.23	-205.8	-89.5	293.5	275.0	18.43	15.926		
2,700.0	2,686.8	2,672.1	2,645.7	9.7	10.1	-128.78	-220.3	-103.5	317.9	298.7	19.22	16.545		
2,800.0	2,785.3	2,769.0	2,740.5	10.2	10.5	-128.41	-234.8	-117.4	342.4	322.4	20.01	17.112		
2,900.0	2,883.8	2,865.9	2,835.3	10.6	11.0	-128.08	-249.3	-131.4	366.9	346.1	20.81	17.632		
3,000.0	2,982.3	2,962.8	2,930.2	11.0	11.4	-127.79	-263.9	-145.4	391.4	369.8	21.61	18.111		
3,100.0	3,080.8	3,059.8	3,025.0	11.4	11.9	-127.54	-278.4	-159.4	416.0	393.5	22.42	18.553		
3,200.0	3,179.2	3,156.7	3,119.8	11.9	12.3	-127.31	-292.9	-173.3	440.5	417.3	23.23	18.962		
3,300.0	3,277.7	3,253.6	3,214.6	12.3	12.8	-127.11	-307.4	-187.3	465.0	441.0	24.04	19.342		
3,400.0	3,376.2	3,350.6	3,309.4	12.7	13.3	-126.93	-321.9	-201.3	489.6	464.7	24.86	19.695		
3,500.0	3,474.7	3,447.5	3,404.2	13.2	13.7	-126.76	-336.5	-215.3	514.1	488.4	25.67	20.025		
3,600.0	3,573.2	3,544.4	3,499.0	13.6	14.2	-126.61	-351.0	-229.2	538.6	512.1	26.49	20.332		
3,700.0	3,671.6	3,641.4	3,593.8	14.0	14.7	-126.48	-365.5	-243.2	563.2	535.9	27.31	20.620		
3,800.0	3,770.1	3,738.3	3,688.7	14.5	15.1	-126.35	-380.0	-257.2	587.7	559.6	28.14	20.890		
3,900.0	3,868.6	3,835.2	3,783.5	14.9	15.6	-126.24	-394.5	-271.2	612.3	583.3	28.96	21.143		
4,000.0	3,967.1	3,932.2	3,878.3	15.3	16.1	-126.13	-409.1	-285.1	636.8	607.1	29.78	21.381		
4,100.0	4,065.6	4,029.1	3,973.1	15.8	16.5	-126.03	-423.6	-299.1	661.4	630.8	30.61	21.606		
4,200.0	4,164.0	4,126.0	4,067.9	16.2	17.0	-125.94	-438.1	-313.1	686.0	654.5	31.44	21.818		
4,300.0	4,262.5	4,223.0	4,162.7	16.7	17.5	-125.86	-452.6	-327.1	710.5	678.2	32.27	22.019		
4,400.0	4,361.0	4,319.9	4,257.5	17.1	17.9	-125.78	-467.1	-341.0	735.1	702.0	33.10	22.209		
4,500.0	4,459.5	4,416.8	4,352.4	17.5	18.4	-125.70	-481.7	-355.0	759.6	725.7	33.93	22.389		
4,600.0	4,558.0	4,513.8	4,447.2	18.0	18.9	-125.63	-496.2	-369.0	784.2	749.4	34.76	22.559		
4,700.0	4,656.4	4,610.7	4,542.0	18.4	19.3	-125.57	-510.7	-383.0	808.8	773.2	35.59	22.722		
4,800.0	4,754.9	4,707.6	4,636.8	18.9	19.8	-125.51	-525.2	-396.9	833.3	796.9	36.43	22.876		
4,900.0	4,853.4	4,804.6	4,731.6	19.3	20.3	-125.45	-539.8	-410.9	857.9	820.6	37.26	23.023		
5,000.0	4,951.9	4,901.5	4,826.4	19.8	20.8	-125.40	-554.3	-424.9	882.5	844.4	38.10	23.163		
5,100.0	5,050.4	5,001.6	4,921.2	20.2	21.2	-125.34	-568.8	-438.9	907.0	868.1	38.95	23.289		
5,200.0	5,148.9	5,104.6	5,016.1	20.6	21.7	-125.30	-583.3	-452.8	931.6	891.8	39.81	23.401		
5,300.0	5,247.3	5,207.7	5,110.9	21.1	22.3	-125.25	-597.8	-466.8	956.2	915.5	40.67	23.508		
5,400.0	5,345.8	5,289.2	5,205.7	21.5	22.6	-125.21	-612.4	-480.8	980.7	939.3	41.44	23.665		
5,500.0	5,444.3	5,386.2	5,300.5	22.0	23.1	-125.16	-626.9	-494.8	1,005.3	963.0	42.28	23.777		
5,600.0	5,542.8	5,483.1	5,395.3	22.4	23.6	-125.12	-641.4	-508.7	1,029.9	986.7	43.12	23.884		
5,700.0	5,641.3	5,580.0	5,490.1	22.9	24.1	-125.09	-655.9	-522.7	1,054.4	1,010.5	43.96	23.988		
5,800.0	5,739.7	5,677.0	5,584.9	23.3	24.5	-125.05	-670.4	-536.7	1,079.0	1,034.2	44.80	24.087		
5,900.0	5,838.2	5,773.9	5,679.8	23.8	25.0	-125.01	-685.0	-550.7	1,103.6	1,057.9	45.64	24.182		
6,000.0	5,936.7	5,870.8	5,774.6	24.2	25.5	-124.98	-699.5	-564.6	1,128.2	1,081.7	46.48	24.274		
6,100.0	6,035.2	5,967.7	5,869.4	24.7	26.0	-124.95	-714.0	-578.6	1,152.7	1,105.4	47.32	24.362		
6,200.0	6,133.7	6,064.7	5,964.2	25.1	26.4	-124.92	-728.5	-592.6	1,177.3	1,129.1	48.16	24.447		
6,300.0	6,232.1	6,161.6	6,059.0	25.6	26.9	-124.89	-743.0	-606.6	1,201.9	1,152.9	49.00	24.529		
6,400.0	6,330.6	6,258.5	6,153.8	26.0	27.4	-124.86	-757.6	-620.5	1,226.4	1,176.6	49.84	24.607		
6,498.0	6,427.1	6,353.5	6,246.7	26.4	27.9	-124.84	-771.8	-634.2	1,250.5	1,199.9	50.67	24.682		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
6,500.0	6,429.1	6,355.5	6,248.6	26.5	27.9	-124.85	-772.1	-634.5	1,251.0	1,200.3	50.68	24.684		
6,600.0	6,527.9	6,452.7	6,343.7	26.9	28.3	-125.22	-786.6	-648.5	1,274.3	1,222.8	51.51	24.740		
6,700.0	6,627.3	6,550.3	6,439.2	27.3	28.8	-125.39	-801.3	-662.6	1,295.2	1,242.9	52.30	24.763		
6,800.0	6,727.1	6,697.6	6,583.8	27.6	29.5	-125.18	-821.7	-682.3	1,312.9	1,259.5	53.48	24.550		
6,898.0	6,825.1	6,898.0	6,767.5	28.0	30.3	179.33	-834.7	-694.7	1,320.2	1,265.5	54.73	24.124		
6,900.0	6,827.1	6,931.0	6,816.1	28.0	30.4	179.39	-836.0	-696.0	1,320.2	1,265.4	54.85	24.070		
7,000.0	6,927.1	7,044.0	6,929.1	28.3	30.7	179.39	-836.1	-696.1	1,320.3	1,264.8	55.49	23.792		
7,000.4	6,927.5	7,044.4	6,929.5	28.3	30.7	179.39	-836.1	-696.1	1,320.3	1,264.8	55.49	23.791		
7,100.0	7,027.1	7,141.9	7,026.8	28.6	30.9	179.18	-836.1	-691.2	1,320.3	1,264.2	56.07	23.546		
7,200.0	7,127.1	7,235.2	7,117.9	28.9	31.1	178.32	-836.1	-671.4	1,320.8	1,264.2	56.59	23.339		
7,300.0	7,227.1	7,320.2	7,197.0	29.2	31.1	177.00	-836.0	-640.9	1,322.3	1,265.3	57.05	23.179		
7,400.0	7,327.1	7,394.7	7,262.1	29.5	31.2	175.43	-836.0	-604.6	1,326.0	1,268.5	57.43	23.089		
7,500.0	7,427.1	7,458.5	7,313.7	29.8	31.2	173.82	-835.9	-567.1	1,332.7	1,275.0	57.70	23.097		
7,600.0	7,527.1	7,512.6	7,353.9	30.1	31.2	172.27	-835.9	-531.0	1,343.5	1,285.7	57.84	23.230		
7,700.0	7,627.1	7,558.2	7,385.1	30.5	31.1	170.86	-835.9	-497.7	1,359.0	1,301.2	57.80	23.513		
7,800.0	7,727.1	7,600.0	7,411.2	30.8	31.1	169.48	-835.8	-465.1	1,379.6	1,322.0	57.59	23.956		
7,900.0	7,827.1	7,629.4	7,428.2	31.1	31.1	168.48	-835.8	-441.1	1,405.4	1,348.3	57.15	24.593		
8,000.0	7,927.1	7,650.0	7,439.3	31.4	31.1	167.76	-835.8	-423.7	1,436.6	1,380.2	56.48	25.436		
8,074.9	8,002.0	7,675.6	7,452.2	31.6	31.1	166.85	-835.7	-401.6	1,463.4	1,407.4	55.98	26.141		
8,100.0	8,027.1	7,681.5	7,455.1	31.7	31.1	75.71	-835.7	-396.5	1,472.9	1,417.1	55.77	26.410		
8,150.0	8,076.9	7,700.0	7,463.6	31.8	31.1	73.10	-835.7	-380.1	1,492.0	1,436.6	55.37	26.945		
8,200.0	8,126.1	7,700.0	7,463.6	32.0	31.1	71.13	-835.7	-380.1	1,511.1	1,456.4	54.79	27.582		
8,250.0	8,174.4	7,721.2	7,472.8	32.1	31.0	68.58	-835.7	-361.0	1,530.0	1,475.7	54.36	28.145		
8,300.0	8,221.4	7,735.7	7,478.6	32.1	31.0	66.35	-835.7	-347.7	1,548.6	1,494.7	53.87	28.749		
8,350.0	8,266.7	7,750.0	7,484.1	32.2	31.0	64.25	-835.7	-334.5	1,566.6	1,513.2	53.36	29.358		
8,400.0	8,309.9	7,766.3	7,489.9	32.3	31.0	62.26	-835.6	-319.3	1,583.8	1,530.9	52.89	29.947		
8,450.0	8,350.9	7,782.2	7,495.1	32.3	31.0	60.43	-835.6	-304.3	1,600.1	1,547.7	52.42	30.523		
8,500.0	8,389.2	7,800.0	7,500.5	32.3	31.0	58.74	-835.6	-287.3	1,615.4	1,563.4	52.00	31.063		
8,550.0	8,424.5	7,814.9	7,504.5	32.4	31.0	57.27	-835.6	-272.9	1,629.5	1,577.9	51.61	31.576		
8,600.0	8,456.6	7,831.7	7,508.7	32.4	31.0	55.95	-835.6	-256.7	1,642.3	1,591.0	51.27	32.031		
8,650.0	8,485.3	7,850.0	7,512.7	32.4	31.0	54.78	-835.5	-238.8	1,653.7	1,602.7	51.01	32.420		
8,700.0	8,510.3	7,865.8	7,515.7	32.5	31.0	53.82	-835.5	-223.2	1,663.6	1,612.8	50.80	32.746		
8,750.0	8,531.4	7,883.1	7,518.4	32.5	31.0	53.01	-835.5	-206.2	1,671.9	1,621.2	50.68	32.986		
8,800.0	8,548.5	7,900.0	7,520.6	32.6	31.0	52.37	-835.5	-189.4	1,678.5	1,627.9	50.65	33.141		
8,850.0	8,561.4	7,918.1	7,522.4	32.8	31.0	51.89	-835.5	-171.4	1,683.5	1,632.8	50.72	33.195		
8,900.0	8,570.1	7,950.0	7,524.2	32.9	31.0	51.55	-835.4	-139.6	1,687.0	1,636.0	50.94	33.115		
8,950.0	8,574.4	7,953.3	7,524.3	33.1	31.0	51.45	-835.4	-136.3	1,688.3	1,637.2	51.12	33.025		
8,971.9	8,574.9	7,968.8	7,524.6	33.2	31.0	51.44	-835.4	-120.8	1,688.4	1,637.1	51.30	32.912		
9,000.0	8,575.1	8,003.1	7,525.1	33.3	31.1	51.45	-835.4	-92.7	1,688.2	1,636.6	51.63	32.700		
9,100.0	8,575.5	8,103.1	7,526.7	34.0	31.4	51.48	-835.2	7.3	1,687.4	1,634.5	52.85	31.926		
9,200.0	8,575.7	8,203.1	7,528.4	34.8	31.9	51.52	-835.1	107.3	1,686.5	1,632.2	54.34	31.034		
9,300.0	8,575.8	8,303.1	7,530.1	35.7	32.8	51.56	-835.0	207.3	1,685.5	1,629.4	56.08	30.055		
9,318.4	8,575.8	8,315.3	7,530.4	35.9	33.0	51.57	-835.0	225.7	1,685.3	1,629.0	56.37	29.898		
9,400.0	8,575.8	8,403.1	7,531.8	36.9	34.0	51.61	-834.9	307.2	1,684.5	1,626.4	58.04	29.023		
9,500.0	8,575.8	8,503.1	7,533.5	38.1	35.3	51.65	-834.7	407.2	1,683.4	1,623.2	60.20	27.963		
9,600.0	8,575.8	8,596.8	7,535.2	39.5	36.6	51.70	-834.6	507.2	1,682.4	1,619.9	62.47	26.932		
9,700.0	8,575.8	8,703.2	7,536.8	40.9	38.3	51.74	-834.5	607.1	1,681.3	1,616.3	65.05	25.846		
9,800.0	8,575.8	8,803.2	7,538.5	42.5	39.9	51.79	-834.4	707.1	1,680.3	1,612.6	67.70	24.819		
9,900.0	8,575.8	8,903.2	7,540.2	44.1	41.6	51.83	-834.2	807.1	1,679.2	1,608.7	70.48	23.825		
10,000.0	8,575.8	9,003.2	7,541.9	45.9	43.5	51.88	-834.1	907.1	1,678.2	1,604.8	73.38	22.870		
10,100.0	8,575.8	9,103.2	7,543.6	47.6	45.3	51.93	-834.0	1,007.0	1,677.1	1,600.8	76.38	21.958		
10,200.0	8,575.8	9,203.2	7,545.3	49.5	47.2	51.97	-833.9	1,107.0	1,676.1	1,596.6	79.47	21.091		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
10,300.0	8,575.8	9,303.3	7,546.9	51.4	49.2	52.02	-833.7	1,207.0	1,675.0	1,592.4	82.64	20.268		
10,400.0	8,575.8	9,403.3	7,548.6	53.3	51.2	52.06	-833.6	1,306.9	1,674.0	1,588.1	85.89	19.490		
10,500.0	8,575.8	9,503.3	7,550.3	55.3	53.3	52.11	-833.5	1,406.9	1,673.0	1,583.8	89.21	18.754		
10,600.0	8,575.8	9,596.7	7,552.0	57.3	55.2	52.15	-833.4	1,506.9	1,671.9	1,579.5	92.47	18.081		
10,700.0	8,575.7	9,703.3	7,553.7	59.3	57.4	52.20	-833.2	1,606.9	1,670.9	1,574.9	96.01	17.404		
10,800.0	8,575.7	9,803.3	7,555.4	61.4	59.6	52.24	-833.1	1,706.8	1,669.8	1,570.4	99.48	16.785		
10,900.0	8,575.7	9,903.3	7,557.0	63.5	61.7	52.29	-833.0	1,806.8	1,668.8	1,565.8	103.00	16.201		
11,000.0	8,575.7	10,003.4	7,558.7	65.7	63.9	52.34	-832.9	1,906.8	1,667.8	1,561.2	106.57	15.650		
11,100.0	8,575.7	10,103.4	7,560.4	67.8	66.1	52.38	-832.7	2,006.7	1,666.7	1,556.6	110.16	15.130		
11,200.0	8,575.7	10,203.4	7,562.1	70.0	68.3	52.43	-832.6	2,106.7	1,665.7	1,551.9	113.80	14.638		
11,300.0	8,575.7	10,303.4	7,563.8	72.2	70.6	52.47	-832.5	2,206.7	1,664.7	1,547.2	117.46	14.172		
11,400.0	8,575.7	10,403.4	7,565.5	74.4	72.8	52.52	-832.4	2,306.7	1,663.6	1,542.5	121.15	13.732		
11,500.0	8,575.7	10,503.4	7,567.2	76.6	75.1	52.57	-832.2	2,406.6	1,662.6	1,537.7	124.87	13.314		
11,600.0	8,575.7	10,603.4	7,568.8	78.8	77.3	52.61	-832.1	2,506.6	1,661.6	1,533.0	128.62	12.919		
11,700.0	8,575.7	10,696.5	7,570.5	81.1	79.5	52.66	-832.0	2,606.6	1,660.6	1,528.3	132.26	12.556		
11,800.0	8,575.7	10,796.5	7,572.2	83.3	81.8	52.71	-831.9	2,706.5	1,659.5	1,523.5	136.04	12.198		
11,900.0	8,575.7	10,896.5	7,573.9	85.6	84.1	52.75	-831.7	2,806.5	1,658.5	1,518.7	139.85	11.859		
12,000.0	8,575.7	11,003.5	7,575.6	87.9	86.5	52.80	-831.6	2,906.5	1,657.5	1,513.7	143.81	11.525		
12,100.0	8,575.6	11,103.5	7,577.3	90.2	88.8	52.85	-831.5	3,006.5	1,656.5	1,508.8	147.66	11.218		
12,200.0	8,575.6	11,196.5	7,578.9	92.5	91.0	52.89	-831.3	3,106.4	1,655.4	1,504.1	151.39	10.935		
12,300.0	8,575.6	11,303.5	7,580.6	94.8	93.5	52.94	-831.2	3,206.4	1,654.4	1,499.0	155.40	10.646		
12,400.0	8,575.6	11,403.6	7,582.3	97.1	95.8	52.99	-831.1	3,306.4	1,653.4	1,494.1	159.29	10.380		
12,500.0	8,575.6	11,503.6	7,584.0	99.4	98.2	53.03	-831.0	3,406.3	1,652.4	1,489.2	163.20	10.125		
12,600.0	8,575.6	11,603.6	7,585.7	101.7	100.5	53.08	-830.8	3,506.3	1,651.4	1,484.2	167.12	9.881		
12,700.0	8,575.6	11,703.6	7,587.4	104.1	102.9	53.13	-830.7	3,606.3	1,650.3	1,479.3	171.05	9.648		
12,800.0	8,575.6	11,803.6	7,589.0	106.4	105.2	53.17	-830.6	3,706.3	1,649.3	1,474.3	175.00	9.425		
12,900.0	8,575.6	11,896.4	7,590.7	108.7	107.4	53.22	-830.5	3,806.2	1,648.3	1,469.5	178.82	9.218		
13,000.0	8,575.6	12,003.6	7,592.4	111.1	110.0	53.27	-830.3	3,906.2	1,647.3	1,464.4	182.93	9.005		
13,100.0	8,575.6	12,103.7	7,594.1	113.4	112.3	53.31	-830.2	4,006.2	1,646.3	1,459.4	186.91	8.808		
13,200.0	8,575.6	12,203.7	7,595.8	115.8	114.7	53.36	-830.1	4,106.1	1,645.3	1,454.4	190.90	8.618		
13,300.0	8,575.6	12,303.7	7,597.5	118.2	117.1	53.41	-830.0	4,206.1	1,644.3	1,449.4	194.90	8.436		
13,400.0	8,575.6	12,403.7	7,599.1	120.5	119.5	53.46	-829.8	4,306.1	1,643.3	1,444.3	198.92	8.261		
13,500.0	8,575.5	12,503.7	7,600.8	122.9	121.8	53.50	-829.7	4,406.1	1,642.2	1,439.3	202.94	8.092		
13,600.0	8,575.5	12,603.7	7,602.5	125.3	124.2	53.55	-829.6	4,506.0	1,641.2	1,434.3	206.97	7.930		
13,700.0	8,575.5	12,703.7	7,604.2	127.6	126.6	53.60	-829.5	4,606.0	1,640.2	1,429.2	211.01	7.773		
13,800.0	8,575.5	12,803.8	7,605.9	130.0	129.0	53.65	-829.3	4,706.0	1,639.2	1,424.2	215.05	7.622		
13,900.0	8,575.5	12,896.2	7,607.6	132.4	131.2	53.69	-829.2	4,805.9	1,638.2	1,419.3	218.96	7.482		
14,000.0	8,575.5	13,003.8	7,609.2	134.8	133.8	53.74	-829.1	4,905.9	1,637.2	1,414.1	223.17	7.336		
14,100.0	8,575.5	13,103.8	7,610.9	137.2	136.2	53.79	-829.0	5,005.9	1,636.2	1,409.0	227.25	7.200		
14,200.0	8,575.5	13,203.8	7,612.6	139.5	138.6	53.84	-828.8	5,105.9	1,635.2	1,403.9	231.33	7.069		
14,300.0	8,575.5	13,296.2	7,614.3	141.9	140.8	53.88	-828.7	5,205.8	1,634.2	1,399.0	235.26	6.946		
14,400.0	8,575.5	13,396.2	7,616.0	144.3	143.2	53.93	-828.6	5,305.8	1,633.2	1,393.9	239.36	6.823		
14,500.0	8,575.5	13,503.9	7,617.7	146.7	145.8	53.98	-828.5	5,405.8	1,632.2	1,388.6	243.61	6.700		
14,600.0	8,575.5	13,603.9	7,619.4	149.1	148.2	54.03	-828.3	5,505.7	1,631.2	1,383.5	247.72	6.585		
14,700.0	8,575.5	13,703.9	7,621.0	151.5	150.6	54.08	-828.2	5,605.7	1,630.2	1,378.4	251.84	6.473		
14,800.0	8,575.5	13,803.9	7,622.7	153.9	153.0	54.12	-828.1	5,705.7	1,629.3	1,373.3	255.96	6.365		
14,900.0	8,575.4	13,896.1	7,624.4	156.3	155.3	54.17	-828.0	5,805.7	1,628.3	1,368.3	259.94	6.264		
15,000.0	8,575.4	14,003.9	7,626.1	158.7	157.9	54.22	-827.8	5,905.6	1,627.3	1,363.0	264.23	6.159		
15,100.0	8,575.4	14,103.9	7,627.8	161.1	160.3	54.27	-827.7	6,005.6	1,626.3	1,357.9	268.37	6.060		
15,200.0	8,575.4	14,204.0	7,629.5	163.5	162.7	54.32	-827.6	6,105.6	1,625.3	1,352.8	272.52	5.964		
15,300.0	8,575.4	14,304.0	7,631.1	165.9	165.1	54.37	-827.5	6,205.5	1,624.3	1,347.6	276.68	5.871		
15,400.0	8,575.4	14,396.0	7,632.8	168.3	167.3	54.41	-827.3	6,305.5	1,623.3	1,342.6	280.68	5.783		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
15,500.0	8,575.4	14,496.0	7,634.5	170.8	169.7	54.46	-827.2	6,405.5	1,622.3	1,337.5	284.85	5.695		
15,600.0	8,575.4	14,604.0	7,636.2	173.2	172.4	54.51	-827.1	6,505.5	1,621.4	1,332.2	289.19	5.607		
15,700.0	8,575.4	14,704.0	7,637.9	175.6	174.8	54.56	-827.0	6,605.4	1,620.4	1,327.0	293.37	5.523		
15,800.0	8,575.4	14,796.0	7,639.6	178.0	177.0	54.61	-826.8	6,705.4	1,619.4	1,322.0	297.39	5.445		
15,900.0	8,575.4	14,904.1	7,641.2	180.4	179.6	54.66	-826.7	6,805.4	1,618.4	1,316.7	301.75	5.363		
16,000.0	8,575.4	15,004.1	7,642.9	182.8	182.0	54.71	-826.6	6,905.3	1,617.4	1,311.5	305.95	5.287		
16,100.0	8,575.4	15,104.1	7,644.6	185.2	184.5	54.76	-826.4	7,005.3	1,616.4	1,306.3	310.15	5.212		
16,200.0	8,575.4	15,204.1	7,646.3	187.7	186.9	54.80	-826.3	7,105.3	1,615.5	1,301.1	314.36	5.139		
16,300.0	8,575.3	15,304.1	7,648.0	190.1	189.3	54.85	-826.2	7,205.3	1,614.5	1,295.9	318.58	5.068		
16,400.0	8,575.3	15,404.1	7,649.7	192.5	191.7	54.90	-826.1	7,305.2	1,613.5	1,290.7	322.80	4.999		
16,500.0	8,575.3	15,504.1	7,651.3	194.9	194.2	54.95	-825.9	7,405.2	1,612.6	1,285.5	327.03	4.931		
16,600.0	8,575.3	15,595.8	7,653.0	197.4	196.4	55.00	-825.8	7,505.2	1,611.6	1,280.5	331.09	4.867		
16,700.0	8,575.3	15,704.2	7,654.7	199.8	199.0	55.05	-825.7	7,605.1	1,610.6	1,275.1	335.50	4.801		
16,800.0	8,575.3	15,804.2	7,656.4	202.2	201.5	55.10	-825.6	7,705.1	1,609.6	1,269.9	339.74	4.738		
16,900.0	8,575.3	15,904.2	7,658.1	204.6	203.9	55.15	-825.4	7,805.1	1,608.7	1,264.7	343.99	4.676		
17,000.0	8,575.3	16,004.2	7,659.8	207.0	206.3	55.20	-825.3	7,905.1	1,607.7	1,259.5	348.24	4.617		
17,100.0	8,575.3	16,104.2	7,661.5	209.5	208.7	55.25	-825.2	8,005.0	1,606.7	1,254.2	352.50	4.558		
17,200.0	8,575.3	16,204.2	7,663.1	211.9	211.2	55.30	-825.1	8,105.0	1,605.8	1,249.0	356.77	4.501		
17,300.0	8,575.3	16,304.3	7,664.8	214.3	213.6	55.35	-824.9	8,205.0	1,604.8	1,243.8	361.04	4.445		
17,400.0	8,575.3	16,404.3	7,666.5	216.8	216.0	55.40	-824.8	8,304.9	1,603.8	1,238.5	365.31	4.390		
17,500.0	8,575.3	16,504.3	7,668.2	219.2	218.5	55.45	-824.7	8,404.9	1,602.9	1,233.3	369.59	4.337		
17,600.0	8,575.3	16,604.3	7,669.9	221.6	220.9	55.50	-824.6	8,504.9	1,601.9	1,228.0	373.88	4.285		
17,700.0	8,575.2	16,704.3	7,671.6	224.0	223.3	55.55	-824.4	8,604.9	1,601.0	1,222.8	378.17	4.233		
17,800.0	8,575.2	16,804.3	7,673.2	226.5	225.8	55.60	-824.3	8,704.8	1,600.0	1,217.5	382.47	4.183		
17,900.0	8,575.2	16,904.3	7,674.9	228.9	228.2	55.65	-824.2	8,804.8	1,599.1	1,212.3	386.77	4.134		
18,000.0	8,575.2	17,004.4	7,676.6	231.3	230.7	55.70	-824.1	8,904.8	1,598.1	1,207.0	391.07	4.086		
18,100.0	8,575.2	17,104.4	7,678.3	233.8	233.1	55.75	-823.9	9,004.7	1,597.1	1,201.8	395.38	4.039		
18,200.0	8,575.2	17,204.4	7,680.0	236.2	235.5	55.80	-823.8	9,104.7	1,596.2	1,196.5	399.70	3.993		
18,300.0	8,575.2	17,295.6	7,681.7	238.6	237.7	55.85	-823.7	9,204.7	1,595.2	1,191.4	403.84	3.950		
18,400.0	8,575.2	17,404.4	7,683.3	241.1	240.4	55.90	-823.6	9,304.7	1,594.3	1,185.9	408.34	3.904		
18,500.0	8,575.2	17,504.4	7,685.0	243.5	242.8	55.95	-823.4	9,404.6	1,593.3	1,180.7	412.68	3.861		
18,600.0	8,575.2	17,604.4	7,686.7	245.9	245.3	56.00	-823.3	9,504.6	1,592.4	1,175.4	417.01	3.819		
18,700.0	8,575.2	17,695.5	7,688.4	248.4	247.5	56.05	-823.2	9,604.6	1,591.4	1,170.3	421.17	3.779		
18,800.0	8,575.2	17,804.5	7,690.1	250.8	250.2	56.10	-823.1	9,704.5	1,590.5	1,164.8	425.70	3.736		
18,900.0	8,575.2	17,904.5	7,691.8	253.2	252.6	56.15	-822.9	9,804.5	1,589.6	1,159.5	430.05	3.696		
19,000.0	8,575.2	18,004.5	7,693.4	255.7	255.0	56.20	-822.8	9,904.5	1,588.6	1,154.2	434.40	3.657		
19,100.0	8,575.1	18,095.5	7,695.1	258.1	257.3	56.25	-822.7	10,004.5	1,587.7	1,149.1	438.57	3.620		
19,200.0	8,575.1	18,204.5	7,696.8	260.6	259.9	56.30	-822.6	10,104.4	1,586.7	1,143.6	443.12	3.581		
19,300.0	8,575.1	18,295.5	7,698.5	263.0	262.1	56.35	-822.4	10,204.4	1,585.8	1,138.5	447.31	3.545		
19,400.0	8,575.1	18,404.6	7,700.2	265.4	264.8	56.40	-822.3	10,304.4	1,584.9	1,133.0	451.87	3.507		
19,500.0	8,575.1	18,504.6	7,701.9	267.9	267.2	56.45	-822.2	10,404.3	1,583.9	1,127.7	456.25	3.472		
19,600.0	8,575.1	18,604.6	7,703.5	270.3	269.7	56.50	-822.1	10,504.3	1,583.0	1,122.4	460.63	3.437		
19,700.0	8,575.1	18,704.6	7,705.2	272.7	272.1	56.56	-821.9	10,604.3	1,582.0	1,117.0	465.02	3.402		
19,800.0	8,575.1	18,804.6	7,706.9	275.2	274.6	56.61	-821.8	10,704.3	1,581.1	1,111.7	469.41	3.368		
19,900.0	8,575.1	18,895.4	7,708.6	277.6	276.8	56.66	-821.7	10,804.2	1,580.2	1,106.6	473.61	3.336		
20,000.0	8,575.1	19,004.6	7,710.3	280.1	279.4	56.71	-821.6	10,904.2	1,579.3	1,101.0	478.21	3.302		
20,100.0	8,575.1	19,104.7	7,712.0	282.5	281.9	56.76	-821.4	11,004.2	1,578.3	1,095.7	482.62	3.270		
20,200.0	8,575.1	19,195.3	7,713.7	284.9	284.1	56.81	-821.3	11,104.1	1,577.4	1,090.6	486.83	3.240		
20,300.0	8,575.1	19,304.7	7,715.3	287.4	286.8	56.86	-821.2	11,204.1	1,576.5	1,085.0	491.44	3.208		
20,400.0	8,575.1	19,404.7	7,717.0	289.8	289.2	56.91	-821.0	11,304.1	1,575.5	1,079.7	495.86	3.177		
20,500.0	8,575.1	19,495.3	7,718.7	292.3	291.4	56.97	-820.9	11,404.1	1,574.6	1,074.5	500.09	3.149		
20,600.0	8,575.0	19,604.7	7,720.4	294.7	294.1	57.02	-820.8	11,504.0	1,573.7	1,069.0	504.72	3.118		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	
20,700.0	8,575.0	19,704.7	7,722.1	297.1	296.5	57.07	-820.7	11,604.0	1,572.8	1,063.6	509.15	3.089	
20,800.0	8,575.0	19,795.2	7,723.8	299.6	298.8	57.12	-820.5	11,704.0	1,571.9	1,058.5	513.39	3.062	
20,900.0	8,575.0	19,904.8	7,725.4	302.0	301.4	57.17	-820.4	11,803.9	1,570.9	1,052.9	518.03	3.032	
21,000.0	8,575.0	20,004.8	7,727.1	304.5	303.9	57.22	-820.3	11,903.9	1,570.0	1,047.5	522.48	3.005	
21,100.0	8,575.0	20,095.2	7,728.8	306.9	306.1	57.28	-820.2	12,003.9	1,569.1	1,042.4	526.73	2.979	
21,200.0	8,575.0	20,195.2	7,730.5	309.3	308.5	57.33	-820.0	12,103.9	1,568.2	1,037.0	531.19	2.952	
21,212.2	8,575.0	20,196.6	7,730.5	309.6	308.6	57.33	-820.0	12,105.3	1,568.1	1,036.6	531.52	2.950 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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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 #126H - 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		
0.0	0.0	1.0	1.0	0.0	0.0	179.80	-29.9	0.1	29.9					
100.0	100.0	101.0	101.0	0.1	0.1	179.80	-29.9	0.1	29.9	29.6	0.26	114.930		
200.0	200.0	201.0	201.0	0.5	0.5	179.80	-29.9	0.1	29.9	28.9	0.98	30.578		
300.0	300.0	301.0	301.0	0.8	0.8	179.80	-29.9	0.1	29.9	28.2	1.69	17.635		
400.0	400.0	401.0	401.0	1.2	1.2	179.80	-29.9	0.1	29.9	27.5	2.41	12.390		
500.0	500.0	501.0	501.0	1.6	1.6	179.80	-29.9	0.1	29.9	26.7	3.13	9.550		
600.0	600.0	601.0	601.0	1.9	1.9	179.80	-29.9	0.1	29.9	26.0	3.84	7.769		
700.0	700.0	701.0	701.0	2.3	2.3	179.80	-29.9	0.1	29.9	25.3	4.56	6.548		
800.0	800.0	801.0	801.0	2.6	2.6	179.80	-29.9	0.1	29.9	24.6	5.28	5.659		
900.0	900.0	901.0	901.0	3.0	3.0	179.80	-29.9	0.1	29.9	23.9	6.00	4.982		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	179.80	-29.9	0.1	29.9	23.2	6.71	4.450 CC, ES		
1,100.0	1,100.0	1,100.0	1,099.9	3.7	3.7	-177.61	-31.5	-1.3	31.6	24.2	7.41	4.260		
1,200.0	1,200.0	1,198.5	1,198.3	4.1	4.0	-171.39	-36.4	-5.5	36.9	28.8	8.09	4.560		
1,300.0	1,300.0	1,296.4	1,295.6	4.4	4.4	-164.38	-44.4	-12.4	46.4	37.6	8.76	5.295		
1,400.0	1,400.0	1,393.7	1,391.8	4.8	4.7	-158.43	-55.3	-21.9	60.2	50.8	9.42	6.391		
1,500.0	1,500.0	1,492.4	1,489.2	5.1	5.1	-154.39	-67.4	-32.3	75.7	65.6	10.11	7.486		
1,600.0	1,600.0	1,591.1	1,586.6	5.5	5.5	-96.80	-79.5	-42.7	91.6	80.8	10.80	8.478		
1,700.0	1,699.8	1,689.7	1,683.9	5.9	5.8	-97.24	-91.5	-53.1	107.9	96.4	11.50	9.386		
1,800.0	1,799.5	1,788.2	1,781.1	6.2	6.2	-99.08	-103.6	-63.5	124.8	112.6	12.20	10.225		
1,900.0	1,898.7	1,886.4	1,878.0	6.6	6.6	-101.77	-115.6	-73.9	142.5	129.5	12.92	11.024		
2,000.0	1,997.5	1,984.1	1,974.5	6.9	7.0	-104.98	-127.5	-84.2	161.3	147.7	13.66	11.811		
2,100.0	2,095.9	2,081.6	2,070.7	7.3	7.4	-108.34	-139.5	-94.5	181.2	166.8	14.41	12.577		
2,200.0	2,194.4	2,179.1	2,166.9	7.7	7.8	-111.03	-151.4	-104.8	201.6	186.4	15.17	13.292		
2,300.0	2,292.9	2,276.6	2,263.1	8.1	8.3	-113.22	-163.3	-115.1	222.3	206.4	15.93	13.954		
2,400.0	2,391.4	2,374.2	2,359.3	8.5	8.7	-115.04	-175.2	-125.4	243.3	226.6	16.70	14.567		
2,500.0	2,489.9	2,471.7	2,455.6	8.9	9.1	-116.58	-187.2	-135.7	264.5	247.0	17.48	15.133		
2,600.0	2,588.3	2,569.2	2,551.8	9.3	9.5	-117.88	-199.1	-146.0	285.8	267.5	18.26	15.655		
2,700.0	2,686.8	2,666.7	2,648.0	9.7	9.9	-119.01	-211.0	-156.3	307.2	288.2	19.04	16.138		
2,800.0	2,785.3	2,764.2	2,744.2	10.2	10.3	-119.98	-222.9	-166.6	328.8	309.0	19.82	16.586		
2,900.0	2,883.8	2,861.7	2,840.5	10.6	10.7	-120.84	-234.9	-176.9	350.4	329.8	20.61	17.001		
3,000.0	2,982.3	2,959.2	2,936.7	11.0	11.2	-121.60	-246.8	-187.2	372.1	350.7	21.40	17.386		
3,100.0	3,080.8	3,056.7	3,032.9	11.4	11.6	-122.27	-258.7	-197.5	393.9	371.7	22.20	17.745		
3,200.0	3,179.2	3,154.2	3,129.1	11.9	12.0	-122.88	-270.7	-207.8	415.7	392.7	22.99	18.080		
3,300.0	3,277.7	3,251.7	3,225.4	12.3	12.4	-123.42	-282.6	-218.1	437.5	413.7	23.79	18.392		
3,400.0	3,376.2	3,349.2	3,321.6	12.7	12.9	-123.91	-294.5	-228.4	459.4	434.8	24.59	18.685		
3,500.0	3,474.7	3,446.7	3,417.8	13.2	13.3	-124.36	-306.4	-238.7	481.3	455.9	25.39	18.959		
3,600.0	3,573.2	3,544.2	3,514.0	13.6	13.7	-124.77	-318.4	-249.0	503.2	477.1	26.19	19.216		
3,700.0	3,671.6	3,641.7	3,610.3	14.0	14.1	-125.14	-330.3	-259.3	525.2	498.2	26.99	19.459		
3,800.0	3,770.1	3,739.2	3,706.5	14.5	14.6	-125.49	-342.2	-269.6	547.2	519.4	27.79	19.687		
3,900.0	3,868.6	3,836.7	3,802.7	14.9	15.0	-125.81	-354.1	-279.9	569.2	540.6	28.60	19.902		
4,000.0	3,967.1	3,934.2	3,898.9	15.3	15.4	-126.10	-366.1	-290.2	591.2	561.8	29.40	20.106		
4,100.0	4,065.6	4,031.7	3,995.2	15.8	15.8	-126.37	-378.0	-300.5	613.2	583.0	30.21	20.298		
4,200.0	4,164.0	4,129.3	4,091.4	16.2	16.3	-126.63	-389.9	-310.8	635.2	604.2	31.01	20.481		
4,300.0	4,262.5	4,226.8	4,187.6	16.7	16.7	-126.87	-401.8	-321.1	657.3	625.4	31.82	20.654		
4,400.0	4,361.0	4,324.3	4,283.8	17.1	17.1	-127.09	-413.8	-331.4	679.3	646.7	32.63	20.818		
4,500.0	4,459.5	4,421.8	4,380.0	17.5	17.6	-127.29	-425.7	-341.7	701.4	667.9	33.44	20.975		
4,600.0	4,558.0	4,519.3	4,476.3	18.0	18.0	-127.49	-437.6	-352.0	723.4	689.2	34.25	21.124		
4,700.0	4,656.4	4,616.8	4,572.5	18.4	18.4	-127.67	-449.5	-362.3	745.5	710.5	35.06	21.266		
4,800.0	4,754.9	4,714.3	4,668.7	18.9	18.9	-127.85	-461.5	-372.6	767.6	731.7	35.87	21.401		
4,900.0	4,853.4	4,811.8	4,764.9	19.3	19.3	-128.01	-473.4	-382.9	789.7	753.0	36.68	21.530		
5,000.0	4,951.9	4,909.3	4,861.2	19.8	19.7	-128.16	-485.3	-393.2	811.8	774.3	37.49	21.654		
5,100.0	5,050.4	5,006.8	4,957.4	20.2	20.1	-128.31	-497.2	-403.5	833.9	795.6	38.30	21.772		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
5,200.0	5,148.9	5,104.3	5,053.6	20.6	20.6	-128.45	-509.2	-413.8	856.0	816.9	39.11	21.886		
5,300.0	5,247.3	5,201.8	5,149.8	21.1	21.0	-128.58	-521.1	-424.1	878.1	838.2	39.92	21.994		
5,400.0	5,345.8	5,300.7	5,246.1	21.5	21.4	-128.71	-533.0	-434.4	900.2	859.5	40.74	22.096		
5,500.0	5,444.3	5,403.2	5,342.3	22.0	21.9	-128.83	-544.9	-444.7	922.3	880.8	41.58	22.185		
5,600.0	5,542.8	5,505.7	5,438.5	22.4	22.3	-128.94	-556.9	-455.0	944.5	902.1	42.41	22.270		
5,700.0	5,641.3	5,608.2	5,534.7	22.9	22.8	-129.05	-568.8	-465.3	966.6	923.3	43.24	22.353		
5,800.0	5,739.7	5,689.3	5,631.0	23.3	23.2	-129.15	-580.7	-475.6	988.7	944.7	43.99	22.476		
5,900.0	5,838.2	5,786.8	5,727.2	23.8	23.6	-129.25	-592.7	-485.9	1,010.9	966.0	44.80	22.562		
6,000.0	5,936.7	5,884.3	5,823.4	24.2	24.0	-129.35	-604.6	-496.2	1,033.0	987.4	45.62	22.644		
6,100.0	6,035.2	5,981.9	5,919.6	24.7	24.5	-129.44	-616.5	-506.5	1,055.1	1,008.7	46.43	22.724		
6,200.0	6,133.7	6,079.4	6,015.9	25.1	24.9	-129.52	-628.4	-516.8	1,077.3	1,030.0	47.25	22.801		
6,300.0	6,232.1	6,176.9	6,112.1	25.6	25.3	-129.61	-640.4	-527.1	1,099.4	1,051.3	48.06	22.875		
6,400.0	6,330.6	6,274.4	6,208.3	26.0	25.8	-129.69	-652.3	-537.4	1,121.6	1,072.7	48.88	22.947		
6,498.0	6,427.1	6,369.9	6,302.6	26.4	26.2	-129.76	-664.0	-547.5	1,143.3	1,093.6	49.68	23.014		
6,500.0	6,429.1	6,371.9	6,304.5	26.5	26.2	-129.77	-664.2	-547.7	1,143.7	1,094.0	49.69	23.016		
6,600.0	6,527.9	6,469.7	6,401.1	26.9	26.6	-130.17	-676.2	-558.0	1,164.4	1,113.9	50.50	23.060		
6,700.0	6,627.3	6,568.0	6,498.1	27.3	27.1	-130.34	-688.2	-568.4	1,182.4	1,131.1	51.28	23.059		
6,800.0	6,727.1	6,666.6	6,595.4	27.6	27.5	-130.30	-700.3	-578.8	1,197.6	1,145.6	52.03	23.016		
6,898.0	6,825.1	6,763.3	6,690.8	28.0	27.9	174.22	-712.1	-589.0	1,209.9	1,157.1	52.75	22.936		
6,900.0	6,827.1	6,765.3	6,692.8	28.0	27.9	174.23	-712.3	-589.2	1,210.1	1,157.3	52.76	22.935		
7,000.0	6,927.1	6,864.0	6,790.1	28.3	28.4	174.78	-724.4	-599.7	1,221.3	1,167.8	53.48	22.838		
7,100.0	7,027.1	6,962.7	6,887.5	28.6	28.8	175.31	-736.5	-610.1	1,232.7	1,178.5	54.19	22.746		
7,200.0	7,127.1	7,061.3	6,984.9	28.9	29.2	175.84	-748.5	-620.5	1,244.1	1,189.2	54.91	22.659		
7,300.0	7,227.1	7,160.0	7,082.3	29.2	29.7	176.36	-760.6	-630.9	1,255.7	1,200.1	55.62	22.576		
7,400.0	7,327.1	7,258.7	7,179.7	29.5	30.1	176.87	-772.7	-641.4	1,267.3	1,211.0	56.33	22.498		
7,500.0	7,427.1	7,357.4	7,277.1	29.8	30.6	177.37	-784.7	-651.8	1,279.1	1,222.1	57.04	22.423		
7,600.0	7,527.1	7,456.1	7,374.5	30.1	31.0	177.86	-796.8	-662.2	1,291.0	1,233.2	57.75	22.353		
7,700.0	7,627.1	7,584.7	7,501.6	30.5	31.5	178.43	-811.2	-674.6	1,301.9	1,243.2	58.69	22.181		
7,800.0	7,727.1	7,717.9	7,634.0	30.8	32.1	178.88	-822.6	-684.5	1,310.3	1,250.7	59.62	21.980		
7,900.0	7,827.1	7,852.0	7,767.7	31.1	32.6	179.18	-830.6	-691.4	1,316.2	1,255.8	60.48	21.762		
8,000.0	7,927.1	7,986.7	7,902.3	31.4	33.0	179.35	-835.1	-695.3	1,319.5	1,258.2	61.30	21.526		
8,074.9	8,002.0	8,087.8	8,003.3	31.6	33.4	179.39	-836.1	-696.1	1,320.2	1,258.4	61.86	21.343		
8,080.4	8,007.5	8,095.2	8,010.8	31.7	33.4	89.46	-836.1	-696.1	1,320.2	1,258.3	61.90	21.329		
8,100.0	8,027.1	8,112.1	8,027.7	31.7	33.4	89.46	-836.1	-695.5	1,320.2	1,258.2	62.00	21.292		
8,150.0	8,076.9	8,161.3	8,076.7	31.8	33.5	89.46	-836.1	-691.2	1,320.2	1,258.0	62.27	21.203		
8,200.0	8,126.1	8,210.5	8,125.1	32.0	33.6	89.47	-836.0	-682.7	1,320.2	1,257.7	62.49	21.126		
8,250.0	8,174.4	8,259.7	8,172.6	32.1	33.7	89.47	-836.0	-670.1	1,320.2	1,257.5	62.68	21.061		
8,300.0	8,221.4	8,308.9	8,218.9	32.1	33.8	89.49	-835.9	-653.5	1,320.1	1,257.3	62.84	21.007		
8,350.0	8,266.7	8,358.2	8,263.6	32.2	33.8	89.50	-835.9	-632.9	1,320.1	1,257.1	62.97	20.962		
8,400.0	8,309.9	8,407.4	8,306.4	32.3	33.9	89.52	-835.8	-608.5	1,320.0	1,256.9	63.09	20.924		
8,450.0	8,350.9	8,456.7	8,347.0	32.3	33.9	89.55	-835.7	-580.6	1,320.0	1,256.8	63.19	20.890		
8,500.0	8,389.2	8,506.0	8,385.1	32.3	33.9	89.57	-835.6	-549.2	1,319.9	1,256.6	63.28	20.857		
8,550.0	8,424.5	8,555.4	8,420.3	32.4	33.9	89.60	-835.5	-514.7	1,319.8	1,256.4	63.38	20.823		
8,600.0	8,456.6	8,604.8	8,452.5	32.4	33.9	89.64	-835.3	-477.2	1,319.7	1,256.2	63.50	20.782		
8,650.0	8,485.3	8,654.2	8,481.3	32.4	33.9	89.67	-835.2	-437.1	1,319.6	1,256.0	63.65	20.733		
8,700.0	8,510.3	8,703.8	8,506.6	32.5	33.8	89.71	-835.0	-394.5	1,319.5	1,255.7	63.83	20.671		
8,750.0	8,531.4	8,753.3	8,528.2	32.5	33.8	89.75	-834.9	-349.9	1,319.4	1,255.3	64.07	20.593		
8,800.0	8,548.5	8,803.0	8,545.8	32.6	33.8	89.79	-834.7	-303.5	1,319.3	1,254.9	64.36	20.499		
8,850.0	8,561.4	8,852.6	8,559.4	32.8	33.8	89.84	-834.5	-255.7	1,319.2	1,254.5	64.71	20.387		
8,900.0	8,570.1	8,902.4	8,568.8	32.9	33.7	89.88	-834.4	-206.9	1,319.1	1,253.9	65.12	20.255		
8,950.0	8,574.4	8,952.2	8,573.9	33.1	33.7	89.93	-834.2	-157.4	1,319.0	1,253.4	65.59	20.108		
8,971.9	8,574.9	8,974.1	8,574.8	33.2	33.7	89.95	-834.1	-135.5	1,318.9	1,253.1	65.82	20.038		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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)						
8,993.4	8,575.1	8,993.8	8,575.0	33.3	33.8	89.95	-834.1	-117.1	1,318.9	1,252.8	66.04	19.971		
9,000.0	8,575.1	9,000.9	8,575.0	33.3	33.8	89.95	-834.1	-110.5	1,318.9	1,252.8	66.12	19.948		
9,100.0	8,575.5	9,100.9	8,575.0	34.0	33.9	89.93	-833.9	-10.5	1,318.9	1,251.5	67.43	19.560		
9,200.0	8,575.7	9,200.9	8,575.0	34.8	34.4	89.92	-833.8	89.5	1,318.9	1,249.8	69.06	19.098		
9,300.0	8,575.8	9,300.9	8,575.0	35.7	35.3	89.92	-833.7	189.5	1,318.9	1,247.9	71.00	18.577		
9,318.4	8,575.8	9,317.5	8,575.0	35.9	35.5	89.92	-833.7	207.9	1,318.9	1,247.5	71.37	18.479		
9,400.0	8,575.8	9,400.9	8,575.0	36.9	36.4	89.92	-833.6	289.5	1,318.9	1,245.7	73.21	18.015		
9,500.0	8,575.8	9,500.9	8,575.0	38.1	37.6	89.92	-833.5	389.5	1,318.9	1,243.2	75.68	17.428		
9,600.0	8,575.8	9,600.9	8,575.0	39.5	38.9	89.92	-833.4	489.5	1,318.9	1,240.5	78.38	16.827		
9,700.0	8,575.8	9,700.9	8,575.0	40.9	40.4	89.92	-833.3	589.5	1,318.9	1,237.6	81.29	16.226		
9,800.0	8,575.8	9,800.9	8,575.0	42.5	41.9	89.92	-833.1	689.5	1,318.9	1,234.6	84.38	15.631		
9,900.0	8,575.8	9,900.9	8,575.0	44.1	43.6	89.92	-833.0	789.5	1,318.9	1,231.3	87.64	15.050		
10,000.0	8,575.8	10,000.9	8,575.0	45.9	45.3	89.92	-832.9	889.5	1,319.0	1,227.9	91.05	14.487		
10,100.0	8,575.8	10,100.9	8,575.0	47.6	47.1	89.92	-832.8	989.5	1,319.0	1,224.4	94.59	13.944		
10,200.0	8,575.8	10,200.9	8,575.0	49.5	48.9	89.92	-832.7	1,089.5	1,319.0	1,220.7	98.25	13.425		
10,300.0	8,575.8	10,300.9	8,575.0	51.4	50.8	89.92	-832.6	1,189.5	1,319.0	1,217.0	102.01	12.930		
10,400.0	8,575.8	10,400.9	8,575.0	53.3	52.7	89.92	-832.5	1,289.5	1,319.0	1,213.1	105.87	12.459		
10,500.0	8,575.8	10,500.9	8,575.0	55.3	54.7	89.92	-832.3	1,389.5	1,319.0	1,209.2	109.81	12.012		
10,600.0	8,575.8	10,600.9	8,575.0	57.3	56.7	89.92	-832.2	1,489.5	1,319.0	1,205.2	113.83	11.588		
10,700.0	8,575.7	10,700.9	8,575.0	59.3	58.7	89.92	-832.1	1,589.5	1,319.0	1,201.1	117.91	11.187		
10,800.0	8,575.7	10,800.9	8,575.0	61.4	60.8	89.92	-832.0	1,689.5	1,319.0	1,197.0	122.06	10.807		
10,900.0	8,575.7	10,900.9	8,575.0	63.5	62.9	89.92	-831.9	1,789.5	1,319.0	1,192.8	126.26	10.447		
11,000.0	8,575.7	11,000.9	8,575.0	65.7	65.0	89.92	-831.8	1,889.5	1,319.1	1,188.5	130.51	10.107		
11,100.0	8,575.7	11,100.9	8,575.0	67.8	67.2	89.92	-831.6	1,989.5	1,319.1	1,184.3	134.81	9.785		
11,200.0	8,575.7	11,200.9	8,575.0	70.0	69.3	89.92	-831.5	2,089.5	1,319.1	1,179.9	139.14	9.480		
11,300.0	8,575.7	11,300.9	8,575.0	72.2	71.5	89.92	-831.4	2,189.5	1,319.1	1,175.6	143.52	9.191		
11,400.0	8,575.7	11,400.9	8,575.0	74.4	73.7	89.92	-831.3	2,289.5	1,319.1	1,171.2	147.92	8.917		
11,500.0	8,575.7	11,500.9	8,575.0	76.6	75.9	89.93	-831.2	2,389.5	1,319.1	1,166.7	152.36	8.658		
11,600.0	8,575.7	11,600.9	8,575.0	78.8	78.2	89.93	-831.1	2,489.5	1,319.1	1,162.3	156.83	8.411		
11,700.0	8,575.7	11,700.9	8,575.0	81.1	80.4	89.93	-831.0	2,589.5	1,319.1	1,157.8	161.32	8.177		
11,800.0	8,575.7	11,800.9	8,575.0	83.3	82.7	89.93	-830.8	2,689.5	1,319.1	1,153.3	165.84	7.954		
11,900.0	8,575.7	11,900.9	8,575.0	85.6	84.9	89.93	-830.7	2,789.5	1,319.1	1,148.8	170.37	7.743		
12,000.0	8,575.7	12,000.9	8,575.0	87.9	87.2	89.93	-830.6	2,889.5	1,319.1	1,144.2	174.93	7.541		
12,100.0	8,575.6	12,100.9	8,575.0	90.2	89.5	89.93	-830.5	2,989.5	1,319.2	1,139.6	179.51	7.349		
12,200.0	8,575.6	12,200.9	8,575.0	92.5	91.8	89.93	-830.4	3,089.5	1,319.2	1,135.1	184.10	7.165		
12,300.0	8,575.6	12,300.9	8,575.0	94.8	94.1	89.93	-830.3	3,189.5	1,319.2	1,130.5	188.71	6.990		
12,400.0	8,575.6	12,400.9	8,575.0	97.1	96.4	89.93	-830.2	3,289.5	1,319.2	1,125.8	193.34	6.823		
12,500.0	8,575.6	12,500.9	8,575.0	99.4	98.7	89.93	-830.0	3,389.5	1,319.2	1,121.2	197.98	6.663		
12,600.0	8,575.6	12,600.9	8,575.0	101.7	101.1	89.93	-829.9	3,489.5	1,319.2	1,116.6	202.63	6.510		
12,700.0	8,575.6	12,700.9	8,575.0	104.1	103.4	89.93	-829.8	3,589.5	1,319.2	1,111.9	207.29	6.364		
12,800.0	8,575.6	12,800.9	8,575.0	106.4	105.7	89.93	-829.7	3,689.5	1,319.2	1,107.3	211.97	6.224		
12,900.0	8,575.6	12,900.9	8,575.0	108.7	108.1	89.93	-829.6	3,789.5	1,319.2	1,102.6	216.65	6.089		
13,000.0	8,575.6	13,000.9	8,575.0	111.1	110.4	89.93	-829.5	3,889.5	1,319.2	1,097.9	221.35	5.960		
13,100.0	8,575.6	13,100.9	8,575.0	113.4	112.8	89.93	-829.4	3,989.5	1,319.2	1,093.2	226.05	5.836		
13,200.0	8,575.6	13,200.9	8,575.0	115.8	115.1	89.93	-829.2	4,089.5	1,319.3	1,088.5	230.77	5.717		
13,300.0	8,575.6	13,300.9	8,575.0	118.2	117.5	89.93	-829.1	4,189.5	1,319.3	1,083.8	235.49	5.602		
13,400.0	8,575.6	13,400.9	8,575.0	120.5	119.8	89.93	-829.0	4,289.5	1,319.3	1,079.1	240.22	5.492		
13,500.0	8,575.5	13,500.9	8,575.0	122.9	122.2	89.93	-828.9	4,389.5	1,319.3	1,074.3	244.95	5.386		
13,600.0	8,575.5	13,600.9	8,575.0	125.3	124.6	89.93	-828.8	4,489.5	1,319.3	1,069.6	249.69	5.284		
13,700.0	8,575.5	13,700.9	8,575.0	127.6	126.9	89.93	-828.7	4,589.5	1,319.3	1,064.9	254.44	5.185		
13,800.0	8,575.5	13,800.9	8,575.0	130.0	129.3	89.93	-828.5	4,689.5	1,319.3	1,060.1	259.20	5.090		
13,900.0	8,575.5	13,900.9	8,575.0	132.4	131.7	89.93	-828.4	4,789.5	1,319.3	1,055.4	263.96	4.998		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
14,000.0	8,575.5	14,000.9	8,575.0	134.8	134.1	89.93	-828.3	4,889.5	1,319.3	1,050.6	268.73	4.910		
14,100.0	8,575.5	14,100.9	8,575.0	137.2	136.5	89.93	-828.2	4,989.5	1,319.3	1,045.8	273.50	4.824		
14,200.0	8,575.5	14,200.9	8,575.0	139.5	138.9	89.93	-828.1	5,089.5	1,319.3	1,041.1	278.27	4.741		
14,300.0	8,575.5	14,300.9	8,575.0	141.9	141.2	89.93	-828.0	5,189.5	1,319.4	1,036.3	283.05	4.661		
14,400.0	8,575.5	14,400.9	8,575.0	144.3	143.6	89.93	-827.9	5,289.5	1,319.4	1,031.5	287.84	4.584		
14,500.0	8,575.5	14,500.9	8,575.0	146.7	146.0	89.93	-827.7	5,389.5	1,319.4	1,026.7	292.63	4.509		
14,600.0	8,575.5	14,600.9	8,575.0	149.1	148.4	89.94	-827.6	5,489.5	1,319.4	1,022.0	297.42	4.436		
14,700.0	8,575.5	14,700.9	8,575.0	151.5	150.8	89.94	-827.5	5,589.5	1,319.4	1,017.2	302.22	4.366		
14,800.0	8,575.5	14,800.9	8,575.0	153.9	153.2	89.94	-827.4	5,689.5	1,319.4	1,012.4	307.02	4.297		
14,900.0	8,575.4	14,900.9	8,575.0	156.3	155.6	89.94	-827.3	5,789.5	1,319.4	1,007.6	311.83	4.231		
15,000.0	8,575.4	15,000.9	8,575.0	158.7	158.0	89.94	-827.2	5,889.5	1,319.4	1,002.8	316.63	4.167		
15,100.0	8,575.4	15,100.9	8,575.0	161.1	160.4	89.94	-827.1	5,989.5	1,319.4	998.0	321.45	4.105		
15,200.0	8,575.4	15,200.9	8,575.0	163.5	162.8	89.94	-826.9	6,089.5	1,319.4	993.2	326.26	4.044		
15,300.0	8,575.4	15,300.9	8,575.0	165.9	165.2	89.94	-826.8	6,189.5	1,319.4	988.4	331.08	3.985		
15,400.0	8,575.4	15,400.9	8,575.0	168.3	167.7	89.94	-826.7	6,289.5	1,319.5	983.6	335.90	3.928		
15,500.0	8,575.4	15,500.9	8,575.0	170.8	170.1	89.94	-826.6	6,389.5	1,319.5	978.7	340.72	3.873		
15,600.0	8,575.4	15,600.9	8,575.0	173.2	172.5	89.94	-826.5	6,489.5	1,319.5	973.9	345.54	3.819		
15,700.0	8,575.4	15,700.9	8,575.0	175.6	174.9	89.94	-826.4	6,589.5	1,319.5	969.1	350.37	3.766		
15,800.0	8,575.4	15,800.9	8,575.0	178.0	177.3	89.94	-826.2	6,689.5	1,319.5	964.3	355.20	3.715		
15,900.0	8,575.4	15,900.9	8,575.0	180.4	179.7	89.94	-826.1	6,789.5	1,319.5	959.5	360.03	3.665		
16,000.0	8,575.4	16,000.9	8,575.0	182.8	182.1	89.94	-826.0	6,889.5	1,319.5	954.6	364.87	3.616		
16,100.0	8,575.4	16,100.9	8,575.0	185.2	184.6	89.94	-825.9	6,989.5	1,319.5	949.8	369.70	3.569		
16,200.0	8,575.4	16,200.9	8,575.0	187.7	187.0	89.94	-825.8	7,089.5	1,319.5	945.0	374.54	3.523		
16,300.0	8,575.3	16,300.9	8,575.0	190.1	189.4	89.94	-825.7	7,189.5	1,319.5	940.2	379.38	3.478		
16,400.0	8,575.3	16,400.9	8,575.0	192.5	191.8	89.94	-825.6	7,289.5	1,319.6	935.3	384.22	3.434		
16,500.0	8,575.3	16,500.9	8,575.0	194.9	194.2	89.94	-825.4	7,389.5	1,319.6	930.5	389.06	3.392		
16,600.0	8,575.3	16,600.9	8,575.0	197.4	196.7	89.94	-825.3	7,489.5	1,319.6	925.7	393.91	3.350		
16,700.0	8,575.3	16,700.9	8,575.0	199.8	199.1	89.94	-825.2	7,589.5	1,319.6	920.8	398.76	3.309		
16,800.0	8,575.3	16,800.9	8,575.0	202.2	201.5	89.94	-825.1	7,689.5	1,319.6	916.0	403.60	3.270		
16,900.0	8,575.3	16,900.9	8,575.0	204.6	203.9	89.94	-825.0	7,789.5	1,319.6	911.1	408.45	3.231		
17,000.0	8,575.3	17,000.9	8,575.0	207.0	206.4	89.94	-824.9	7,889.5	1,319.6	906.3	413.30	3.193		
17,100.0	8,575.3	17,100.9	8,575.0	209.5	208.8	89.94	-824.8	7,989.5	1,319.6	901.5	418.16	3.156		
17,200.0	8,575.3	17,200.9	8,575.0	211.9	211.2	89.94	-824.6	8,089.5	1,319.6	896.6	423.01	3.120		
17,300.0	8,575.3	17,300.9	8,575.0	214.3	213.6	89.94	-824.5	8,189.5	1,319.6	891.8	427.87	3.084		
17,400.0	8,575.3	17,400.9	8,575.0	216.8	216.1	89.94	-824.4	8,289.5	1,319.6	886.9	432.72	3.050		
17,500.0	8,575.3	17,500.9	8,575.0	219.2	218.5	89.94	-824.3	8,389.5	1,319.7	882.1	437.58	3.016		
17,600.0	8,575.3	17,600.9	8,575.0	221.6	220.9	89.94	-824.2	8,489.5	1,319.7	877.2	442.44	2.983		
17,700.0	8,575.2	17,700.9	8,575.0	224.0	223.3	89.95	-824.1	8,589.5	1,319.7	872.4	447.30	2.950		
17,800.0	8,575.2	17,800.9	8,575.0	226.5	225.8	89.95	-823.9	8,689.5	1,319.7	867.5	452.16	2.919		
17,900.0	8,575.2	17,900.9	8,575.0	228.9	228.2	89.95	-823.8	8,789.5	1,319.7	862.7	457.02	2.888		
18,000.0	8,575.2	18,000.9	8,575.0	231.3	230.6	89.95	-823.7	8,889.5	1,319.7	857.8	461.89	2.857		
18,100.0	8,575.2	18,100.9	8,575.0	233.8	233.1	89.95	-823.6	8,989.5	1,319.7	853.0	466.75	2.827		
18,200.0	8,575.2	18,200.9	8,575.0	236.2	235.5	89.95	-823.5	9,089.5	1,319.7	848.1	471.62	2.798		
18,300.0	8,575.2	18,300.9	8,575.0	238.6	237.9	89.95	-823.4	9,189.5	1,319.7	843.2	476.48	2.770		
18,400.0	8,575.2	18,400.9	8,575.0	241.1	240.4	89.95	-823.3	9,289.5	1,319.7	838.4	481.35	2.742		
18,500.0	8,575.2	18,500.9	8,575.0	243.5	242.8	89.95	-823.1	9,389.5	1,319.7	833.5	486.22	2.714		
18,600.0	8,575.2	18,600.9	8,575.0	245.9	245.2	89.95	-823.0	9,489.5	1,319.8	828.7	491.09	2.687		
18,700.0	8,575.2	18,700.9	8,575.0	248.4	247.7	89.95	-822.9	9,589.5	1,319.8	823.8	495.96	2.661		
18,800.0	8,575.2	18,800.9	8,575.0	250.8	250.1	89.95	-822.8	9,689.5	1,319.8	818.9	500.83	2.635		
18,900.0	8,575.2	18,900.9	8,575.0	253.2	252.5	89.95	-822.7	9,789.5	1,319.8	814.1	505.70	2.610		
19,000.0	8,575.2	19,000.9	8,575.0	255.7	255.0	89.95	-822.6	9,889.5	1,319.8	809.2	510.57	2.585		
19,100.0	8,575.1	19,100.9	8,575.0	258.1	257.4	89.95	-822.5	9,989.5	1,319.8	804.4	515.45	2.561		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.1	19,200.9	8,575.0	260.6	259.8	89.95	-822.3	10,089.5	1,319.8	799.5	520.32	2.537	
19,300.0	8,575.1	19,300.9	8,575.0	263.0	262.3	89.95	-822.2	10,189.5	1,319.8	794.6	525.19	2.513	
19,400.0	8,575.1	19,400.9	8,575.0	265.4	264.7	89.95	-822.1	10,289.5	1,319.8	789.8	530.07	2.490	
19,500.0	8,575.1	19,500.9	8,575.0	267.9	267.2	89.95	-822.0	10,389.5	1,319.8	784.9	534.95	2.467	
19,600.0	8,575.1	19,600.9	8,575.0	270.3	269.6	89.95	-821.9	10,489.5	1,319.8	780.0	539.82	2.445	
19,700.0	8,575.1	19,700.9	8,575.0	272.7	272.0	89.95	-821.8	10,589.5	1,319.9	775.2	544.70	2.423	
19,800.0	8,575.1	19,800.9	8,575.0	275.2	274.5	89.95	-821.6	10,689.5	1,319.9	770.3	549.58	2.402	
19,900.0	8,575.1	19,900.9	8,575.0	277.6	276.9	89.95	-821.5	10,789.5	1,319.9	765.4	554.45	2.380	
20,000.0	8,575.1	20,000.9	8,575.0	280.1	279.4	89.95	-821.4	10,889.5	1,319.9	760.5	559.33	2.360	
20,100.0	8,575.1	20,100.9	8,575.0	282.5	281.8	89.95	-821.3	10,989.5	1,319.9	755.7	564.21	2.339	
20,200.0	8,575.1	20,200.9	8,575.0	284.9	284.2	89.95	-821.2	11,089.5	1,319.9	750.8	569.09	2.319	
20,300.0	8,575.1	20,300.9	8,575.0	287.4	286.7	89.95	-821.1	11,189.5	1,319.9	745.9	573.97	2.300	
20,400.0	8,575.1	20,400.9	8,575.0	289.8	289.1	89.95	-821.0	11,289.5	1,319.9	741.1	578.86	2.280	
20,500.0	8,575.1	20,500.9	8,575.0	292.3	291.6	89.95	-820.8	11,389.5	1,319.9	736.2	583.74	2.261	
20,600.0	8,575.0	20,600.9	8,575.0	294.7	294.0	89.95	-820.7	11,489.5	1,319.9	731.3	588.62	2.242	
20,700.0	8,575.0	20,700.9	8,575.0	297.1	296.4	89.95	-820.6	11,589.5	1,319.9	726.4	593.50	2.224	
20,800.0	8,575.0	20,800.9	8,575.0	299.6	298.9	89.96	-820.5	11,689.5	1,320.0	721.6	598.38	2.206	
20,900.0	8,575.0	20,900.9	8,575.0	302.0	301.3	89.96	-820.4	11,789.5	1,320.0	716.7	603.27	2.188	
21,000.0	8,575.0	21,000.9	8,575.0	304.5	303.8	89.96	-820.3	11,889.5	1,320.0	711.8	608.15	2.170	
21,100.0	8,575.0	21,100.9	8,575.0	306.9	306.2	89.96	-820.2	11,989.5	1,320.0	706.9	613.04	2.153	
21,200.0	8,575.0	21,199.1	8,575.0	309.3	308.6	89.96	-820.0	12,089.5	1,320.0	702.1	617.88	2.136	
21,212.2	8,575.0	21,211.3	8,575.0	309.6	308.9	89.96	-820.0	12,101.6	1,320.0	701.5	618.47	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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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 #136H - 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		
0.0	0.0	0.0	0.0	0.0	0.0	89.78	0.3	80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	89.78	0.3	80.0	80.0	79.8	0.26	312.151		
200.0	200.0	200.0	200.0	0.5	0.5	89.78	0.3	80.0	80.0	79.0	0.97	82.206		
300.0	300.0	300.0	300.0	0.8	0.8	89.78	0.3	80.0	80.0	78.3	1.69	47.336		
400.0	400.0	400.0	400.0	1.2	1.2	89.78	0.3	80.0	80.0	77.6	2.41	33.237		
500.0	500.0	500.0	500.0	1.6	1.6	89.78	0.3	80.0	80.0	76.9	3.12	25.610		
600.0	600.0	600.0	600.0	1.9	1.9	89.78	0.3	80.0	80.0	76.2	3.84	20.829		
700.0	700.0	700.0	700.0	2.3	2.3	89.78	0.3	80.0	80.0	75.4	4.56	17.553		
800.0	800.0	800.0	800.0	2.6	2.6	89.78	0.3	80.0	80.0	74.7	5.27	15.167		
900.0	900.0	900.0	900.0	3.0	3.0	89.78	0.3	80.0	80.0	74.0	5.99	13.353		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.78	0.3	80.0	80.0	73.3	6.71	11.926		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.78	0.3	80.0	80.0	72.6	7.43	10.774		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.78	0.3	80.0	80.0	71.9	8.14	9.826		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.78	0.3	80.0	80.0	71.1	8.86	9.030		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.78	0.3	80.0	80.0	70.4	9.58	8.354		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.78	0.3	80.0	80.0	69.7	10.29	7.773 CC		
1,600.0	1,600.0	1,601.4	1,601.4	5.5	5.5	146.34	0.1	79.1	80.6	69.6	11.00	7.327 ES		
1,700.0	1,699.8	1,702.7	1,702.6	5.9	5.8	148.79	-0.5	76.5	82.4	70.8	11.69	7.053		
1,800.0	1,799.5	1,803.9	1,803.7	6.2	6.2	152.63	-1.5	72.1	85.8	73.5	12.38	6.934		
1,900.0	1,898.7	1,904.9	1,904.6	6.6	6.5	157.47	-2.8	66.1	91.2	78.1	13.07	6.976		
2,000.0	1,997.5	2,005.7	2,005.0	6.9	6.9	162.86	-4.6	58.2	98.9	85.1	13.77	7.184		
2,100.0	2,095.9	2,106.4	2,105.3	7.3	7.3	168.22	-6.7	48.7	107.6	93.1	14.47	7.439		
2,200.0	2,194.4	2,207.1	2,205.3	7.7	7.6	173.30	-9.3	37.5	115.7	100.6	15.17	7.629		
2,300.0	2,292.9	2,307.9	2,305.2	8.1	8.0	178.25	-12.2	24.5	123.4	107.5	15.89	7.766		
2,400.0	2,391.4	2,406.9	2,403.3	8.5	8.4	-177.24	-15.2	11.1	131.4	114.8	16.63	7.901		
2,500.0	2,489.9	2,506.1	2,501.5	8.9	8.7	-173.25	-18.2	-2.4	140.1	122.7	17.38	8.063		
2,600.0	2,588.3	2,605.3	2,599.7	9.3	9.1	-169.74	-21.3	-15.8	149.4	131.3	18.13	8.240		
2,700.0	2,686.8	2,704.4	2,697.9	9.7	9.5	-166.65	-24.3	-29.3	159.2	140.3	18.89	8.426		
2,800.0	2,785.3	2,803.6	2,796.1	10.2	9.9	-163.92	-27.3	-42.8	169.4	149.7	19.66	8.616		
2,900.0	2,883.8	2,902.8	2,894.3	10.6	10.3	-161.50	-30.4	-56.2	180.0	159.5	20.44	8.805		
3,000.0	2,982.3	3,001.9	2,992.5	11.0	10.7	-159.36	-33.4	-69.7	190.8	169.6	21.22	8.991		
3,100.0	3,080.8	3,101.1	3,090.7	11.4	11.1	-157.44	-36.4	-83.2	201.8	179.8	22.01	9.172		
3,200.0	3,179.2	3,200.3	3,188.9	11.9	11.5	-155.73	-39.5	-96.6	213.1	190.3	22.80	9.348		
3,300.0	3,277.7	3,300.5	3,287.1	12.3	11.9	-154.19	-42.5	-110.1	224.5	200.9	23.60	9.516		
3,400.0	3,376.2	3,401.4	3,385.3	12.7	12.3	-152.80	-45.5	-123.6	236.1	211.7	24.40	9.677		
3,500.0	3,474.7	3,502.2	3,483.5	13.2	12.7	-151.54	-48.6	-137.0	247.8	222.6	25.21	9.831		
3,600.0	3,573.2	3,603.0	3,581.8	13.6	13.1	-150.39	-51.6	-150.5	259.6	233.6	26.02	9.978		
3,700.0	3,671.6	3,703.9	3,680.0	14.0	13.5	-149.34	-54.6	-164.0	271.5	244.7	26.83	10.119		
3,800.0	3,770.1	3,804.7	3,778.2	14.5	13.9	-148.38	-57.6	-177.4	283.5	255.9	27.65	10.254		
3,900.0	3,868.6	3,905.5	3,876.4	14.9	14.3	-147.50	-60.7	-190.9	295.6	267.1	28.47	10.383		
4,000.0	3,967.1	4,006.3	3,974.6	15.3	14.7	-146.69	-63.7	-204.3	307.7	278.4	29.29	10.506		
4,100.0	4,065.6	4,107.2	4,072.8	15.8	15.1	-145.94	-66.7	-217.8	319.9	289.8	30.11	10.623		
4,200.0	4,164.0	4,208.0	4,171.0	16.2	15.5	-145.24	-69.8	-231.3	332.1	301.2	30.94	10.735		
4,300.0	4,262.5	4,308.8	4,269.2	16.7	16.0	-144.59	-72.8	-244.7	344.4	312.6	31.76	10.843		
4,400.0	4,361.0	4,390.3	4,367.4	17.1	16.3	-143.99	-75.8	-258.2	356.7	324.2	32.51	10.972		
4,500.0	4,459.5	4,489.5	4,465.6	17.5	16.7	-143.43	-78.9	-271.7	369.1	335.7	33.33	11.072		
4,600.0	4,558.0	4,588.7	4,563.8	18.0	17.1	-142.91	-81.9	-285.1	381.4	347.3	34.15	11.168		
4,700.0	4,656.4	4,687.9	4,662.0	18.4	17.5	-142.41	-84.9	-298.6	393.9	358.9	34.98	11.260		
4,800.0	4,754.9	4,787.0	4,760.2	18.9	17.9	-141.95	-88.0	-312.1	406.3	370.5	35.80	11.348		
4,900.0	4,853.4	4,886.2	4,858.4	19.3	18.3	-141.52	-91.0	-325.5	418.8	382.1	36.63	11.432		
5,000.0	4,951.9	4,985.4	4,956.6	19.8	18.8	-141.11	-94.0	-339.0	431.2	393.8	37.46	11.513		
5,100.0	5,050.4	5,084.5	5,054.8	20.2	19.2	-140.72	-97.1	-352.5	443.8	405.5	38.28	11.591		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	
5,200.0	5,148.9	5,183.7	5,153.1	20.6	19.6	-140.36	-100.1	-365.9	456.3	417.2	39.11	11.666	
5,300.0	5,247.3	5,282.9	5,251.3	21.1	20.0	-140.01	-103.1	-379.4	468.8	428.9	39.94	11.738	
5,400.0	5,345.8	5,382.1	5,349.5	21.5	20.4	-139.68	-106.2	-392.9	481.4	440.6	40.77	11.807	
5,500.0	5,444.3	5,481.2	5,447.7	22.0	20.8	-139.37	-109.2	-406.3	494.0	452.4	41.60	11.874	
5,600.0	5,542.8	5,580.4	5,545.9	22.4	21.2	-139.08	-112.2	-419.8	506.5	464.1	42.43	11.938	
5,700.0	5,641.3	5,679.6	5,644.1	22.9	21.7	-138.80	-115.2	-433.3	519.1	475.9	43.26	12.000	
5,800.0	5,739.7	5,778.7	5,742.3	23.3	22.1	-138.53	-118.3	-446.7	531.8	487.7	44.10	12.059	
5,900.0	5,838.2	5,877.9	5,840.5	23.8	22.5	-138.27	-121.3	-460.2	544.4	499.5	44.93	12.117	
6,000.0	5,936.7	5,977.1	5,938.7	24.2	22.9	-138.03	-124.3	-473.6	557.0	511.3	45.76	12.172	
6,100.0	6,035.2	6,076.3	6,036.9	24.7	23.3	-137.79	-127.4	-487.1	569.7	523.1	46.59	12.226	
6,200.0	6,133.7	6,175.4	6,135.1	25.1	23.7	-137.57	-130.4	-500.6	582.3	534.9	47.43	12.278	
6,300.0	6,232.1	6,274.6	6,233.3	25.6	24.1	-137.36	-133.4	-514.0	595.0	546.7	48.26	12.328	
6,400.0	6,330.6	6,373.8	6,331.5	26.0	24.6	-137.15	-136.5	-527.5	607.6	558.5	49.10	12.376	
6,498.0	6,427.1	6,471.0	6,427.8	26.4	25.0	-136.96	-139.4	-540.7	620.1	570.1	49.92	12.422	
6,500.0	6,429.1	6,472.9	6,429.7	26.5	25.0	-136.96	-139.5	-541.0	620.3	570.4	49.93	12.423	
6,600.0	6,527.9	6,572.3	6,528.1	26.9	25.4	-136.82	-142.5	-554.5	631.4	580.6	50.76	12.437	
6,700.0	6,627.3	6,671.7	6,626.6	27.3	25.8	-136.37	-145.6	-568.0	639.3	587.7	51.59	12.392	
6,800.0	6,727.1	6,771.1	6,725.0	27.6	26.2	-135.61	-148.6	-581.5	644.1	591.7	52.40	12.293	
6,898.0	6,825.1	6,868.4	6,821.3	28.0	26.6	169.71	-151.6	-594.7	646.1	592.9	53.18	12.148	
6,900.0	6,827.1	6,870.3	6,823.3	28.0	26.6	169.73	-151.7	-594.9	646.1	592.9	53.20	12.145	
7,000.0	6,927.1	6,969.4	6,921.3	28.3	27.1	170.95	-154.7	-608.4	646.8	592.8	53.99	11.981	
7,100.0	7,027.1	7,068.4	7,019.4	28.6	27.5	172.17	-157.7	-621.8	647.9	593.1	54.77	11.828	
7,200.0	7,127.1	7,167.4	7,117.5	28.9	27.9	173.38	-160.7	-635.3	649.2	593.7	55.56	11.686	
7,300.0	7,227.1	7,266.5	7,215.5	29.2	28.3	174.59	-163.8	-648.7	650.8	594.5	56.33	11.553	
7,400.0	7,327.1	7,365.5	7,313.6	29.5	28.7	175.79	-166.8	-662.2	652.8	595.7	57.11	11.430	
7,500.0	7,427.1	7,466.4	7,413.6	29.8	29.1	176.95	-169.7	-675.3	654.9	597.0	57.89	11.313	
7,600.0	7,527.1	7,569.0	7,515.5	30.1	29.5	177.91	-172.2	-686.2	656.8	598.1	58.66	11.198	
7,700.0	7,627.1	7,672.0	7,618.3	30.5	29.9	178.63	-174.0	-694.4	658.4	599.0	59.40	11.084	
7,800.0	7,727.1	7,775.4	7,721.5	30.8	30.3	179.11	-175.3	-699.9	659.5	599.3	60.12	10.970	
7,900.0	7,827.1	7,879.1	7,825.1	31.1	30.7	179.36	-175.9	-702.7	660.0	599.2	60.81	10.854	
8,000.0	7,927.1	7,981.1	7,927.1	31.4	31.0	179.39	-176.0	-703.1	660.1	598.6	61.47	10.739	
8,074.9	8,002.0	8,056.0	8,002.0	31.6	31.2	179.39	-176.0	-703.1	660.1	598.2	61.95	10.656	
8,100.0	8,027.1	8,081.1	8,027.1	31.7	31.3	89.51	-176.0	-703.1	660.1	598.0	62.11	10.629	
8,150.0	8,076.9	8,130.8	8,076.9	31.8	31.5	89.89	-176.0	-703.1	660.1	597.7	62.40	10.578	
8,159.3	8,086.1	8,140.1	8,086.1	31.9	31.5	90.00	-176.0	-703.1	660.1	597.6	62.46	10.569	
8,200.0	8,126.1	8,180.1	8,126.1	32.0	31.6	90.63	-176.0	-703.1	660.1	597.4	62.69	10.530	
8,250.0	8,174.4	8,228.4	8,174.4	32.1	31.8	91.68	-176.0	-703.1	660.4	597.4	62.97	10.488	
8,300.0	8,221.4	8,275.3	8,221.4	32.1	31.9	93.00	-176.0	-703.1	661.1	597.9	63.22	10.458	
8,350.0	8,266.7	8,320.6	8,266.7	32.2	32.1	94.50	-176.0	-703.1	662.7	599.2	63.46	10.443	
8,400.0	8,309.9	8,363.9	8,309.9	32.3	32.2	96.09	-176.0	-703.1	665.4	601.7	63.67	10.450	
8,450.0	8,350.9	8,404.8	8,350.9	32.3	32.3	97.68	-176.0	-703.1	669.6	605.7	63.86	10.485	
8,500.0	8,389.2	8,443.1	8,389.2	32.3	32.4	99.16	-176.0	-703.1	675.7	611.7	64.02	10.555	
8,550.0	8,424.5	8,478.5	8,424.5	32.4	32.5	100.42	-176.0	-703.1	684.1	620.0	64.15	10.665	
8,600.0	8,456.6	8,510.6	8,456.6	32.4	32.7	101.37	-176.0	-703.1	695.2	630.9	64.25	10.820	
8,650.0	8,485.3	8,539.2	8,485.3	32.4	32.7	101.90	-176.0	-703.1	709.1	644.8	64.32	11.025	
8,700.0	8,510.3	8,564.2	8,510.3	32.5	32.8	101.94	-176.0	-703.1	726.0	661.6	64.36	11.280	
8,750.0	8,531.4	8,585.3	8,531.4	32.5	32.9	101.39	-176.0	-703.1	746.0	681.6	64.38	11.588	
8,800.0	8,548.5	8,602.4	8,548.5	32.6	32.9	100.18	-176.0	-703.1	769.0	704.6	64.37	11.947	
8,850.0	8,561.4	8,615.4	8,561.4	32.8	33.0	98.26	-176.0	-703.1	794.9	730.5	64.34	12.355	
8,900.0	8,570.1	8,624.0	8,570.1	32.9	33.0	95.55	-176.0	-703.1	823.3	759.0	64.29	12.807	
8,950.0	8,574.4	8,628.4	8,574.4	33.1	33.0	92.04	-176.0	-703.1	854.0	789.8	64.22	13.299	
8,971.9	8,574.9	8,628.9	8,574.9	33.2	33.0	90.26	-176.0	-703.1	868.1	803.9	64.18	13.525	

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.1	8,629.1	8,575.1	33.3	33.0	90.25	-176.0	-703.1	886.6	822.4	64.13	13.824		
9,100.0	8,575.5	8,629.5	8,575.5	34.0	33.0	90.20	-176.0	-703.1	956.2	892.2	64.00	14.941		
9,200.0	8,575.7	8,629.7	8,575.7	34.8	33.0	90.12	-176.0	-703.1	1,030.9	967.0	63.90	16.133		
9,300.0	8,575.8	8,629.8	8,575.8	35.7	33.0	90.02	-176.0	-703.1	1,109.6	1,045.7	63.83	17.383		
9,318.4	8,575.8	8,629.8	8,575.8	35.9	33.0	89.99	-176.0	-703.1	1,124.4	1,060.6	63.82	17.619		
9,400.0	8,575.8	8,629.8	8,575.8	36.9	33.0	89.99	-176.0	-703.1	1,191.4	1,127.6	63.78	18.680		
9,500.0	8,575.8	10,481.2	9,592.8	38.1	40.5	147.01	-174.7	381.1	1,212.4	1,162.9	49.51	24.490		
9,600.0	8,575.8	10,581.2	9,593.6	39.5	41.7	147.03	-174.6	481.1	1,213.1	1,161.9	51.14	23.721		
9,700.0	8,575.8	10,681.2	9,594.3	40.9	43.0	147.05	-174.4	581.1	1,213.7	1,160.8	52.89	22.948		
9,800.0	8,575.8	10,781.2	9,595.1	42.5	44.5	147.07	-174.3	681.1	1,214.4	1,159.6	54.74	22.183		
9,900.0	8,575.8	10,881.2	9,595.8	44.1	46.0	147.09	-174.2	781.1	1,215.0	1,158.3	56.69	21.432		
10,000.0	8,575.8	10,981.2	9,596.6	45.9	47.6	147.11	-174.1	881.1	1,215.6	1,156.9	58.72	20.701		
10,100.0	8,575.8	11,081.2	9,597.3	47.6	49.2	147.13	-173.9	981.1	1,216.3	1,155.4	60.83	19.994		
10,200.0	8,575.8	11,181.2	9,598.1	49.5	51.0	147.15	-173.8	1,081.1	1,216.9	1,153.9	63.01	19.314		
10,300.0	8,575.8	11,281.2	9,598.8	51.4	52.7	147.17	-173.7	1,181.1	1,217.5	1,152.3	65.24	18.662		
10,400.0	8,575.8	11,381.2	9,599.6	53.3	54.6	147.19	-173.6	1,281.1	1,218.2	1,150.6	67.53	18.038		
10,500.0	8,575.8	11,481.2	9,600.3	55.3	56.5	147.21	-173.5	1,381.1	1,218.8	1,148.9	69.87	17.444		
10,600.0	8,575.8	11,581.2	9,601.1	57.3	58.4	147.23	-173.3	1,481.1	1,219.5	1,147.2	72.26	16.877		
10,700.0	8,575.7	11,681.2	9,601.8	59.3	60.4	147.25	-173.2	1,581.1	1,220.1	1,145.4	74.68	16.338		
10,800.0	8,575.7	11,781.2	9,602.6	61.4	62.4	147.26	-173.1	1,681.0	1,220.7	1,143.6	77.13	15.826		
10,900.0	8,575.7	11,881.2	9,603.3	63.5	64.4	147.28	-173.0	1,781.0	1,221.4	1,141.8	79.62	15.339		
11,000.0	8,575.7	11,981.2	9,604.1	65.7	66.5	147.30	-172.8	1,881.0	1,222.0	1,139.9	82.14	14.877		
11,100.0	8,575.7	12,081.2	9,604.8	67.8	68.5	147.32	-172.7	1,981.0	1,222.7	1,138.0	84.68	14.438		
11,200.0	8,575.7	12,181.2	9,605.6	70.0	70.7	147.34	-172.6	2,081.0	1,223.3	1,136.0	87.25	14.020		
11,300.0	8,575.7	12,281.2	9,606.3	72.2	72.8	147.36	-172.5	2,181.0	1,223.9	1,134.1	89.84	13.623		
11,400.0	8,575.7	12,381.2	9,607.1	74.4	74.9	147.38	-172.4	2,281.0	1,224.6	1,132.1	92.45	13.246		
11,500.0	8,575.7	12,481.2	9,607.8	76.6	77.1	147.40	-172.2	2,381.0	1,225.2	1,130.1	95.07	12.887		
11,600.0	8,575.7	12,581.2	9,608.6	78.8	79.3	147.42	-172.1	2,481.0	1,225.8	1,128.1	97.71	12.545		
11,700.0	8,575.7	12,681.2	9,609.3	81.1	81.5	147.44	-172.0	2,581.0	1,226.5	1,126.1	100.37	12.220		
11,800.0	8,575.7	12,781.2	9,610.1	83.3	83.7	147.45	-171.9	2,681.0	1,227.1	1,124.1	103.04	11.910		
11,900.0	8,575.7	12,881.2	9,610.8	85.6	85.9	147.47	-171.7	2,781.0	1,227.8	1,122.0	105.72	11.614		
12,000.0	8,575.7	12,981.2	9,611.6	87.9	88.2	147.49	-171.6	2,881.0	1,228.4	1,120.0	108.41	11.331		
12,100.0	8,575.6	13,081.2	9,612.3	90.2	90.4	147.51	-171.5	2,981.0	1,229.0	1,117.9	111.11	11.062		
12,200.0	8,575.6	13,181.2	9,613.1	92.5	92.7	147.53	-171.4	3,081.0	1,229.7	1,115.9	113.82	10.804		
12,300.0	8,575.6	13,281.2	9,613.8	94.8	95.0	147.55	-171.3	3,181.0	1,230.3	1,113.8	116.54	10.557		
12,400.0	8,575.6	13,381.2	9,614.6	97.1	97.3	147.57	-171.1	3,281.0	1,231.0	1,111.7	119.26	10.322		
12,500.0	8,575.6	13,481.1	9,615.3	99.4	99.6	147.59	-171.0	3,380.9	1,231.6	1,109.6	121.99	10.096		
12,600.0	8,575.6	13,581.1	9,616.1	101.7	101.8	147.61	-170.9	3,480.9	1,232.2	1,107.5	124.73	9.879		
12,700.0	8,575.6	13,681.1	9,616.8	104.1	104.2	147.62	-170.8	3,580.9	1,232.9	1,105.4	127.48	9.671		
12,800.0	8,575.6	13,781.1	9,617.6	106.4	106.5	147.64	-170.6	3,680.9	1,233.5	1,103.3	130.23	9.472		
12,900.0	8,575.6	13,881.1	9,618.3	108.7	108.8	147.66	-170.5	3,780.9	1,234.2	1,101.2	132.98	9.281		
13,000.0	8,575.6	13,981.1	9,619.1	111.1	111.1	147.68	-170.4	3,880.9	1,234.8	1,099.1	135.74	9.097		
13,100.0	8,575.6	14,081.1	9,619.8	113.4	113.4	147.70	-170.3	3,980.9	1,235.5	1,096.9	138.50	8.920		
13,200.0	8,575.6	14,181.1	9,620.6	115.8	115.8	147.72	-170.2	4,080.9	1,236.1	1,094.8	141.27	8.750		
13,300.0	8,575.6	14,281.1	9,621.3	118.2	118.1	147.74	-170.0	4,180.9	1,236.7	1,092.7	144.04	8.586		
13,400.0	8,575.6	14,381.1	9,622.1	120.5	120.5	147.76	-169.9	4,280.9	1,237.4	1,090.6	146.81	8.428		
13,500.0	8,575.5	14,481.1	9,622.8	122.9	122.8	147.77	-169.8	4,380.9	1,238.0	1,088.4	149.59	8.276		
13,600.0	8,575.5	14,581.1	9,623.6	125.3	125.2	147.79	-169.7	4,480.9	1,238.7	1,086.3	152.36	8.130		
13,700.0	8,575.5	14,681.1	9,624.3	127.6	127.5	147.81	-169.5	4,580.9	1,239.3	1,084.2	155.14	7.988		
13,800.0	8,575.5	14,781.1	9,625.1	130.0	129.9	147.83	-169.4	4,680.9	1,239.9	1,082.0	157.93	7.851		
13,900.0	8,575.5	14,881.1	9,625.8	132.4	132.2	147.85	-169.3	4,780.9	1,240.6	1,079.9	160.71	7.719		
14,000.0	8,575.5	14,981.1	9,626.6	134.8	134.6	147.87	-169.2	4,880.9	1,241.2	1,077.7	163.49	7.592		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.5	15,081.1	9,627.3	137.2	137.0	147.89	-169.1	4,980.9	1,241.9	1,075.6	166.28	7.469		
14,200.0	8,575.5	15,181.1	9,628.1	139.5	139.3	147.90	-168.9	5,080.8	1,242.5	1,073.4	169.07	7.349		
14,300.0	8,575.5	15,281.1	9,628.8	141.9	141.7	147.92	-168.8	5,180.8	1,243.2	1,071.3	171.86	7.234		
14,400.0	8,575.5	15,381.1	9,629.6	144.3	144.1	147.94	-168.7	5,280.8	1,243.8	1,069.2	174.65	7.122		
14,500.0	8,575.5	15,481.1	9,630.3	146.7	146.5	147.96	-168.6	5,380.8	1,244.4	1,067.0	177.44	7.014		
14,600.0	8,575.5	15,581.1	9,631.1	149.1	148.9	147.98	-168.4	5,480.8	1,245.1	1,064.9	180.23	6.908		
14,700.0	8,575.5	15,681.1	9,631.8	151.5	151.2	148.00	-168.3	5,580.8	1,245.7	1,062.7	183.02	6.807		
14,800.0	8,575.5	15,781.1	9,632.6	153.9	153.6	148.01	-168.2	5,680.8	1,246.4	1,060.6	185.81	6.708		
14,900.0	8,575.4	15,881.1	9,633.3	156.3	156.0	148.03	-168.1	5,780.8	1,247.0	1,058.4	188.60	6.612		
15,000.0	8,575.4	15,981.1	9,634.1	158.7	158.4	148.05	-168.0	5,880.8	1,247.7	1,056.3	191.39	6.519		
15,100.0	8,575.4	16,081.1	9,634.8	161.1	160.8	148.07	-167.8	5,980.8	1,248.3	1,054.1	194.18	6.428		
15,200.0	8,575.4	16,181.1	9,635.6	163.5	163.2	148.09	-167.7	6,080.8	1,249.0	1,052.0	196.98	6.341		
15,300.0	8,575.4	16,281.1	9,636.3	165.9	165.6	148.11	-167.6	6,180.8	1,249.6	1,049.8	199.77	6.255		
15,400.0	8,575.4	16,381.1	9,637.1	168.3	168.0	148.12	-167.5	6,280.8	1,250.2	1,047.7	202.56	6.172		
15,500.0	8,575.4	16,481.1	9,637.8	170.8	170.4	148.14	-167.3	6,380.8	1,250.9	1,045.5	205.35	6.091		
15,600.0	8,575.4	16,581.1	9,638.6	173.2	172.8	148.16	-167.2	6,480.8	1,251.5	1,043.4	208.14	6.013		
15,700.0	8,575.4	16,681.1	9,639.3	175.6	175.2	148.18	-167.1	6,580.8	1,252.2	1,041.2	210.93	5.936		
15,800.0	8,575.4	16,781.1	9,640.1	178.0	177.6	148.20	-167.0	6,680.8	1,252.8	1,039.1	213.72	5.862		
15,900.0	8,575.4	16,881.1	9,640.8	180.4	180.0	148.22	-166.9	6,780.8	1,253.5	1,037.0	216.51	5.789		
16,000.0	8,575.4	16,981.0	9,641.6	182.8	182.4	148.23	-166.7	6,880.7	1,254.1	1,034.8	219.30	5.719		
16,100.0	8,575.4	17,081.0	9,642.3	185.2	184.8	148.25	-166.6	6,980.7	1,254.8	1,032.7	222.09	5.650		
16,200.0	8,575.4	17,181.0	9,643.1	187.7	187.3	148.27	-166.5	7,080.7	1,255.4	1,030.5	224.88	5.583		
16,300.0	8,575.3	17,281.0	9,643.8	190.1	189.7	148.29	-166.4	7,180.7	1,256.0	1,028.4	227.66	5.517		
16,400.0	8,575.3	17,381.0	9,644.6	192.5	192.1	148.31	-166.3	7,280.7	1,256.7	1,026.2	230.45	5.453		
16,500.0	8,575.3	17,481.0	9,645.3	194.9	194.5	148.32	-166.1	7,380.7	1,257.3	1,024.1	233.23	5.391		
16,600.0	8,575.3	17,581.0	9,646.1	197.4	196.9	148.34	-166.0	7,480.7	1,258.0	1,022.0	236.02	5.330		
16,700.0	8,575.3	17,681.0	9,646.8	199.8	199.3	148.36	-165.9	7,580.7	1,258.6	1,019.8	238.80	5.271		
16,800.0	8,575.3	17,781.0	9,647.6	202.2	201.7	148.38	-165.8	7,680.7	1,259.3	1,017.7	241.58	5.213		
16,900.0	8,575.3	17,881.0	9,648.3	204.6	204.2	148.40	-165.6	7,780.7	1,259.9	1,015.6	244.36	5.156		
17,000.0	8,575.3	17,981.0	9,649.1	207.0	206.6	148.41	-165.5	7,880.7	1,260.6	1,013.4	247.15	5.101		
17,100.0	8,575.3	18,081.0	9,649.8	209.5	209.0	148.43	-165.4	7,980.7	1,261.2	1,011.3	249.92	5.046		
17,200.0	8,575.3	18,181.0	9,650.6	211.9	211.4	148.45	-165.3	8,080.7	1,261.9	1,009.2	252.70	4.993		
17,300.0	8,575.3	18,281.0	9,651.3	214.3	213.8	148.47	-165.2	8,180.7	1,262.5	1,007.0	255.48	4.942		
17,400.0	8,575.3	18,381.0	9,652.1	216.8	216.3	148.49	-165.0	8,280.7	1,263.2	1,004.9	258.26	4.891		
17,500.0	8,575.3	18,481.0	9,652.8	219.2	218.7	148.50	-164.9	8,380.7	1,263.8	1,002.8	261.03	4.842		
17,600.0	8,575.3	18,581.0	9,653.6	221.6	221.1	148.52	-164.8	8,480.7	1,264.4	1,000.6	263.80	4.793		
17,700.0	8,575.2	18,681.0	9,654.4	224.0	223.5	148.54	-164.7	8,580.6	1,265.1	998.5	266.58	4.746		
17,800.0	8,575.2	18,781.0	9,655.1	226.5	226.0	148.56	-164.5	8,680.6	1,265.7	996.4	269.35	4.699		
17,900.0	8,575.2	18,881.0	9,655.9	228.9	228.4	148.57	-164.4	8,780.6	1,266.4	994.3	272.12	4.654		
18,000.0	8,575.2	18,981.0	9,656.6	231.3	230.8	148.59	-164.3	8,880.6	1,267.0	992.2	274.89	4.609		
18,100.0	8,575.2	19,081.0	9,657.4	233.8	233.2	148.61	-164.2	8,980.6	1,267.7	990.0	277.66	4.566		
18,200.0	8,575.2	19,181.0	9,658.1	236.2	235.7	148.63	-164.1	9,080.6	1,268.3	987.9	280.42	4.523		
18,300.0	8,575.2	19,281.0	9,658.9	238.6	238.1	148.65	-163.9	9,180.6	1,269.0	985.8	283.19	4.481		
18,400.0	8,575.2	19,381.0	9,659.6	241.1	240.5	148.66	-163.8	9,280.6	1,269.6	983.7	285.95	4.440		
18,500.0	8,575.2	19,481.0	9,660.4	243.5	242.9	148.68	-163.7	9,380.6	1,270.3	981.6	288.71	4.400		
18,600.0	8,575.2	19,581.0	9,661.1	245.9	245.4	148.70	-163.6	9,480.6	1,270.9	979.5	291.47	4.360		
18,700.0	8,575.2	19,681.0	9,661.9	248.4	247.8	148.72	-163.4	9,580.6	1,271.6	977.3	294.23	4.322		
18,800.0	8,575.2	19,781.0	9,662.6	250.8	250.2	148.73	-163.3	9,680.6	1,272.2	975.2	296.99	4.284		
18,900.0	8,575.2	19,881.0	9,663.4	253.2	252.7	148.75	-163.2	9,780.6	1,272.9	973.1	299.75	4.246		
19,000.0	8,575.2	19,981.0	9,664.1	255.7	255.1	148.77	-163.1	9,880.6	1,273.5	971.0	302.50	4.210		
19,100.0	8,575.1	20,081.0	9,664.9	258.1	257.5	148.79	-163.0	9,980.6	1,274.2	968.9	305.26	4.174		
19,200.0	8,575.1	20,181.0	9,665.6	260.6	260.0	148.80	-162.8	10,080.6	1,274.8	966.8	308.01	4.139		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.1	20,281.0	9,666.4	263.0	262.4	148.82	-162.7	10,180.6	1,275.5	964.7	310.76	4.104	
19,400.0	8,575.1	20,380.9	9,667.1	265.4	264.8	148.84	-162.6	10,280.5	1,276.1	962.6	313.51	4.070	
19,500.0	8,575.1	20,480.9	9,667.9	267.9	267.3	148.86	-162.5	10,380.5	1,276.8	960.5	316.26	4.037	
19,600.0	8,575.1	20,580.9	9,668.6	270.3	269.7	148.87	-162.3	10,480.5	1,277.4	958.4	319.00	4.004	
19,700.0	8,575.1	20,680.9	9,669.4	272.7	272.1	148.89	-162.2	10,580.5	1,278.1	956.3	321.75	3.972	
19,800.0	8,575.1	20,780.9	9,670.1	275.2	274.6	148.91	-162.1	10,680.5	1,278.7	954.2	324.49	3.941	
19,900.0	8,575.1	20,880.9	9,670.9	277.6	277.0	148.93	-162.0	10,780.5	1,279.4	952.1	327.23	3.910	
20,000.0	8,575.1	20,980.9	9,671.6	280.1	279.4	148.94	-161.9	10,880.5	1,280.0	950.0	329.97	3.879	
20,100.0	8,575.1	21,080.9	9,672.4	282.5	281.9	148.96	-161.7	10,980.5	1,280.7	948.0	332.71	3.849	
20,200.0	8,575.1	21,180.9	9,673.1	284.9	284.3	148.98	-161.6	11,080.5	1,281.3	945.9	335.45	3.820	
20,300.0	8,575.1	21,280.9	9,673.9	287.4	286.7	149.00	-161.5	11,180.5	1,282.0	943.8	338.19	3.791	
20,400.0	8,575.1	21,380.9	9,674.6	289.8	289.2	149.01	-161.4	11,280.5	1,282.6	941.7	340.92	3.762	
20,500.0	8,575.1	21,480.9	9,675.4	292.3	291.6	149.03	-161.2	11,380.5	1,283.3	939.6	343.65	3.734	
20,600.0	8,575.0	21,580.9	9,676.1	294.7	294.1	149.05	-161.1	11,480.5	1,283.9	937.5	346.38	3.707	
20,700.0	8,575.0	21,680.9	9,676.9	297.1	296.5	149.07	-161.0	11,580.5	1,284.6	935.5	349.11	3.680	
20,800.0	8,575.0	21,780.9	9,677.6	299.6	298.9	149.08	-160.9	11,680.5	1,285.2	933.4	351.84	3.653	
20,900.0	8,575.0	21,880.9	9,678.4	302.0	301.4	149.10	-160.8	11,780.5	1,285.9	931.3	354.57	3.627	
21,000.0	8,575.0	21,980.9	9,679.1	304.5	303.8	149.12	-160.6	11,880.5	1,286.5	929.2	357.29	3.601	
21,100.0	8,575.0	22,080.9	9,679.9	306.9	306.3	149.13	-160.5	11,980.5	1,287.2	927.2	360.02	3.575	
21,200.0	8,575.0	22,175.3	9,681.1	309.3	308.6	149.17	-160.1	12,074.8	1,288.2	925.7	362.46	3.554	
21,212.2	8,575.0	22,187.4	9,681.3	309.6	308.8	149.18	-160.1	12,087.0	1,288.3	925.5	362.77	3.551 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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	-90.18	-0.1	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-90.18	-0.1	-29.9	29.9	29.7	0.26	116.761		
200.0	200.0	200.0	200.0	0.5	0.5	-90.18	-0.1	-29.9	29.9	29.0	0.97	30.749		
300.0	300.0	300.0	300.0	0.8	0.8	-90.18	-0.1	-29.9	29.9	28.2	1.69	17.706		
400.0	400.0	400.0	400.0	1.2	1.2	-90.18	-0.1	-29.9	29.9	27.5	2.41	12.433		
500.0	500.0	500.0	500.0	1.6	1.6	-90.18	-0.1	-29.9	29.9	26.8	3.12	9.579		
600.0	600.0	600.0	600.0	1.9	1.9	-90.18	-0.1	-29.9	29.9	26.1	3.84	7.791		
700.0	700.0	700.0	700.0	2.3	2.3	-90.18	-0.1	-29.9	29.9	25.4	4.56	6.566		
800.0	800.0	800.0	800.0	2.6	2.6	-90.18	-0.1	-29.9	29.9	24.7	5.27	5.673		
900.0	900.0	900.0	900.0	3.0	3.0	-90.18	-0.1	-29.9	29.9	23.9	5.99	4.995		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.18	-0.1	-29.9	29.9	23.2	6.71	4.461		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.18	-0.1	-29.9	29.9	22.5	7.43	4.030		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.18	-0.1	-29.9	29.9	21.8	8.14	3.675		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.18	-0.1	-29.9	29.9	21.1	8.86	3.378		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.18	-0.1	-29.9	29.9	20.4	9.58	3.125		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-90.18	-0.1	-29.9	29.9	19.6	10.29	2.907		
1,600.0	1,600.0	1,599.1	1,599.1	5.5	5.5	-34.64	0.8	-31.4	30.0	19.0	11.00	2.726		
1,700.0	1,699.8	1,698.2	1,698.1	5.9	5.8	-35.16	3.4	-35.8	30.1	18.4	11.68	2.576		
1,800.0	1,799.5	1,797.3	1,796.8	6.2	6.2	-36.02	7.8	-43.1	30.3	17.9	12.36	2.452		
1,900.0	1,898.7	1,903.6	1,895.2	6.6	6.6	-37.20	14.0	-53.4	30.6	17.6	13.06	2.344		
2,000.0	1,997.5	2,003.6	1,994.2	6.9	7.0	-40.49	21.2	-65.3	29.7	16.0	13.78	2.158		
2,100.0	2,095.9	2,103.7	2,093.1	7.3	7.3	-46.47	28.3	-77.3	27.7	13.2	14.53	1.909		
2,200.0	2,194.4	2,203.7	2,192.1	7.7	7.7	-53.29	35.5	-89.2	26.1	10.8	15.30	1.705		
2,300.0	2,292.9	2,303.8	2,291.1	8.1	8.1	-60.90	42.6	-101.1	24.8	8.7	16.09	1.544		
2,400.0	2,391.4	2,396.1	2,390.0	8.5	8.4	-69.15	49.8	-113.0	24.1	7.2	16.88	1.426 Level 3		
2,493.4	2,483.4	2,489.5	2,482.5	8.9	8.8	-77.18	56.5	-124.2	23.8	6.2	17.66	1.350 Level 3, CC		
2,500.0	2,489.9	2,496.1	2,489.0	8.9	8.8	-77.75	57.0	-124.9	23.8	6.1	17.71	1.346 Level 3		
2,600.0	2,588.3	2,596.0	2,587.9	9.3	9.2	-86.32	64.1	-136.9	24.2	5.6	18.55	1.302 Level 3		
2,700.0	2,686.8	2,704.0	2,686.9	9.7	9.7	-94.50	71.3	-148.8	25.0	5.6	19.40	1.287 Level 3, ES		
2,800.0	2,785.3	2,804.1	2,785.9	10.2	10.1	-102.02	78.5	-160.7	26.3	6.1	20.21	1.300 Level 3		
2,900.0	2,883.8	2,904.2	2,884.8	10.6	10.5	-108.72	85.6	-172.6	28.0	7.0	21.00	1.333 Level 3		
3,000.0	2,982.3	3,004.2	2,983.8	11.0	10.9	-114.59	92.8	-184.6	30.0	8.3	21.77	1.379 Level 3		
3,100.0	3,080.8	3,104.3	3,082.8	11.4	11.3	-119.66	99.9	-196.5	32.3	9.8	22.52	1.436 Level 3		
3,200.0	3,179.2	3,204.4	3,181.7	11.9	11.7	-124.03	107.1	-208.4	34.9	11.6	23.27	1.499 Level 3		
3,300.0	3,277.7	3,304.4	3,280.7	12.3	12.1	-127.79	114.3	-220.3	37.6	13.6	24.02	1.565		
3,400.0	3,376.2	3,404.5	3,379.6	12.7	12.5	-131.03	121.4	-232.3	40.4	15.7	24.75	1.633		
3,500.0	3,474.7	3,504.6	3,478.6	13.2	12.9	-133.83	128.6	-244.2	43.4	17.9	25.49	1.702		
3,600.0	3,573.2	3,604.6	3,577.6	13.6	13.3	-136.28	135.7	-256.1	46.5	20.2	26.23	1.771		
3,700.0	3,671.6	3,704.7	3,676.5	14.0	13.7	-138.41	142.9	-268.0	49.6	22.6	26.97	1.838		
3,800.0	3,770.1	3,804.8	3,775.5	14.5	14.1	-140.30	150.1	-279.9	52.8	25.1	27.71	1.904		
3,900.0	3,868.6	3,904.8	3,874.5	14.9	14.5	-141.96	157.2	-291.9	56.0	27.6	28.45	1.969		
4,000.0	3,967.1	4,004.9	3,973.4	15.3	14.9	-143.45	164.4	-303.8	59.3	30.1	29.19	2.031		
4,100.0	4,065.6	4,105.0	4,072.4	15.8	15.3	-144.77	171.5	-315.7	62.6	32.7	29.93	2.091		
4,200.0	4,164.0	4,205.0	4,171.3	16.2	15.8	-145.97	178.7	-327.6	65.9	35.3	30.67	2.150		
4,300.0	4,262.5	4,305.1	4,270.3	16.7	16.2	-147.04	185.9	-339.6	69.3	37.9	31.42	2.206		
4,400.0	4,361.0	4,405.2	4,369.3	17.1	16.6	-148.02	193.0	-351.5	72.7	40.5	32.16	2.261		
4,500.0	4,459.5	4,505.2	4,468.2	17.5	17.0	-148.91	200.2	-363.4	76.1	43.2	32.91	2.313		
4,600.0	4,558.0	4,605.3	4,567.2	18.0	17.4	-149.72	207.4	-375.3	79.5	45.9	33.65	2.364		
4,700.0	4,656.4	4,705.3	4,666.2	18.4	17.8	-150.47	214.5	-387.3	83.0	48.6	34.40	2.413		
4,800.0	4,754.9	4,805.4	4,765.1	18.9	18.2	-151.16	221.7	-399.2	86.4	51.3	35.15	2.460		
4,900.0	4,853.4	4,905.5	4,864.1	19.3	18.6	-151.79	228.8	-411.1	89.9	54.0	35.90	2.505		
5,000.0	4,951.9	4,994.5	4,963.0	19.8	19.0	-152.38	236.0	-423.0	93.4	56.8	36.60	2.552		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	5,050.4	5,105.6	5,062.0	20.2	19.5	-152.92	243.2	-434.9	96.9	59.5	37.39	2.591		
5,200.0	5,148.9	5,205.7	5,161.0	20.6	19.9	-153.43	250.3	-446.9	100.4	62.2	38.14	2.631		
5,300.0	5,247.3	5,305.7	5,259.9	21.1	20.3	-153.90	257.5	-458.8	103.9	65.0	38.90	2.671		
5,400.0	5,345.8	5,405.8	5,358.9	21.5	20.7	-154.34	264.6	-470.7	107.4	67.7	39.65	2.709		
5,500.0	5,444.3	5,505.9	5,457.9	22.0	21.1	-154.76	271.8	-482.6	110.9	70.5	40.40	2.745		
5,600.0	5,542.8	5,605.9	5,556.8	22.4	21.6	-155.14	279.0	-494.6	114.4	73.3	41.15	2.781		
5,700.0	5,641.3	5,706.0	5,655.8	22.9	22.0	-155.51	286.1	-506.5	117.9	76.0	41.90	2.815		
5,800.0	5,739.7	5,806.1	5,754.7	23.3	22.4	-155.85	293.3	-518.4	121.5	78.8	42.66	2.848		
5,900.0	5,838.2	5,906.1	5,853.7	23.8	22.8	-156.18	300.4	-530.3	125.0	81.6	43.41	2.880		
6,000.0	5,936.7	6,006.2	5,952.7	24.2	23.2	-156.48	307.6	-542.3	128.6	84.4	44.16	2.911		
6,100.0	6,035.2	6,106.3	6,051.6	24.7	23.6	-156.77	314.8	-554.2	132.1	87.2	44.92	2.941		
6,200.0	6,133.7	6,206.3	6,150.6	25.1	24.1	-157.05	321.9	-566.1	135.6	90.0	45.67	2.970		
6,300.0	6,232.1	6,293.6	6,249.6	25.6	24.4	-157.31	329.1	-578.0	139.2	92.8	46.38	3.001		
6,400.0	6,330.6	6,406.4	6,348.5	26.0	24.9	-157.56	336.2	-589.9	142.7	95.6	47.18	3.025		
6,498.0	6,427.1	6,508.5	6,445.5	26.4	25.3	-157.79	343.3	-601.6	146.2	98.3	47.94	3.050		
6,500.0	6,429.1	6,506.5	6,447.5	26.5	25.3	-157.79	343.4	-601.9	146.3	98.4	47.94	3.052		
6,600.0	6,527.9	6,606.5	6,546.5	26.9	25.7	-157.70	350.6	-613.8	147.7	99.0	48.71	3.033		
6,700.0	6,627.3	6,693.4	6,645.5	27.3	26.1	-156.92	357.7	-625.7	145.2	95.7	49.46	2.935		
6,800.0	6,727.1	6,806.9	6,744.2	27.6	26.6	-155.34	364.9	-637.6	138.7	88.3	50.37	2.753		
6,898.0	6,825.1	6,909.6	6,840.6	28.0	27.0	151.52	371.9	-649.2	128.6	77.3	51.28	2.508		
6,900.0	6,827.1	6,907.6	6,842.5	28.0	27.0	151.58	372.0	-649.5	128.4	77.1	51.29	2.503		
7,000.0	6,927.1	7,008.6	6,940.6	28.3	27.4	155.05	379.1	-661.3	116.6	64.3	52.29	2.229		
7,100.0	7,027.1	7,090.5	7,038.6	28.6	27.7	159.28	386.2	-673.1	105.3	52.0	53.30	1.975		
7,200.0	7,127.1	7,189.5	7,136.7	28.9	28.2	164.49	393.3	-684.9	94.7	40.2	54.47	1.739		
7,300.0	7,227.1	7,287.0	7,233.4	29.2	28.6	170.24	399.7	-695.6	85.8	30.1	55.70	1.541		
7,400.0	7,327.1	7,384.8	7,330.7	29.5	28.9	175.29	404.5	-703.5	79.9	23.1	56.81	1.407 Level 3		
7,500.0	7,427.1	7,483.1	7,428.9	29.8	29.3	178.91	407.5	-708.7	76.6	18.8	57.76	1.326 Level 3		
7,600.0	7,527.1	7,581.7	7,527.4	30.1	29.6	-179.41	408.9	-710.9	75.2	16.7	58.51	1.285 Level 3		
7,645.2	7,572.3	7,626.6	7,572.3	30.3	29.8	-179.34	408.9	-711.0	75.1	16.3	58.80	1.278 Level 3		
7,700.0	7,627.1	7,681.4	7,627.1	30.5	29.9	-179.34	408.9	-711.0	75.1	16.0	59.15	1.270 Level 3		
7,800.0	7,727.1	7,781.4	7,727.1	30.8	30.3	-179.34	408.9	-711.0	75.1	15.3	59.80	1.256 Level 3		
7,900.0	7,827.1	7,881.4	7,827.1	31.1	30.6	-179.34	408.9	-711.0	75.1	14.7	60.45	1.243 Level 2		
8,000.0	7,927.1	7,981.4	7,927.1	31.4	30.9	-179.34	408.9	-711.0	75.1	14.0	61.11	1.230 Level 2		
8,074.9	8,002.0	8,056.3	8,002.0	31.6	31.2	-179.34	408.9	-711.0	75.1	13.5	61.60	1.220 Level 2		
8,100.0	8,027.1	8,081.3	8,027.1	31.7	31.2	91.15	408.9	-711.0	75.1	13.4	61.79	1.216 Level 2		
8,150.0	8,076.9	8,131.1	8,076.9	31.8	31.4	94.43	408.9	-711.0	75.4	13.0	62.32	1.209 Level 2, SF		
8,200.0	8,126.1	8,180.4	8,126.1	32.0	31.6	100.72	408.9	-711.0	76.5	13.5	62.98	1.215 Level 2		
8,250.0	8,174.4	8,228.6	8,174.4	32.1	31.7	109.25	408.9	-711.0	80.0	16.4	63.61	1.258 Level 3		
8,300.0	8,221.4	8,275.6	8,221.4	32.1	31.9	118.75	408.9	-711.0	87.4	23.4	64.00	1.365 Level 3		
8,350.0	8,266.7	8,320.9	8,266.7	32.2	32.0	127.82	408.9	-711.0	99.8	35.8	64.05	1.559		
8,400.0	8,309.9	8,364.2	8,309.9	32.3	32.2	135.53	408.9	-711.0	117.8	53.9	63.87	1.844		
8,450.0	8,350.9	8,405.1	8,350.9	32.3	32.3	141.58	408.9	-711.0	141.1	77.5	63.62	2.218		
8,500.0	8,389.2	8,443.4	8,389.2	32.3	32.4	146.08	408.9	-711.0	169.2	105.8	63.39	2.669		
8,550.0	8,424.5	8,478.7	8,424.5	32.4	32.5	149.24	408.9	-711.0	201.4	138.2	63.21	3.187		
8,600.0	8,456.6	8,510.9	8,456.6	32.4	32.6	151.27	408.9	-711.0	237.4	174.3	63.07	3.764		
8,650.0	8,485.3	8,539.5	8,485.3	32.4	32.7	152.28	408.9	-711.0	276.6	213.6	62.98	4.391		
8,700.0	8,510.3	8,564.5	8,510.3	32.5	32.8	152.26	408.9	-711.0	318.4	255.5	62.91	5.062		
8,750.0	8,531.4	8,585.6	8,531.4	32.5	32.9	151.03	408.9	-711.0	362.6	299.8	62.85	5.769		
8,800.0	8,548.5	8,602.7	8,548.5	32.6	32.9	148.11	408.9	-711.0	408.7	345.9	62.81	6.507		
8,850.0	8,561.4	8,615.6	8,561.4	32.8	33.0	142.33	408.9	-711.0	456.2	393.5	62.76	7.269		
8,900.0	8,570.1	8,624.3	8,570.1	32.9	33.0	130.90	408.9	-711.0	504.9	442.1	62.71	8.050		
8,950.0	8,574.4	8,628.7	8,574.4	33.1	33.0	107.61	408.9	-711.0	554.1	491.5	62.66	8.843		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
8,971.9	8,574.9	8,629.2	8,574.9	33.2	33.0	92.28	408.9	-711.0	575.8	513.2	62.64	9.193		
9,000.0	8,575.1	8,629.3	8,575.1	33.3	33.0	92.19	408.9	-711.0	603.7	541.1	62.61	9.642		
9,100.0	8,575.5	8,629.7	8,575.5	34.0	33.0	91.74	408.9	-711.0	703.0	640.5	62.53	11.244		
9,200.0	8,575.7	8,630.0	8,575.7	34.8	33.0	91.06	408.9	-711.0	802.5	740.1	62.47	12.848		
9,300.0	8,575.8	8,630.1	8,575.8	35.7	33.0	90.14	408.9	-711.0	902.2	839.7	62.42	14.453		
9,318.4	8,575.8	8,630.1	8,575.8	35.9	33.0	89.95	408.9	-711.0	920.5	858.1	62.41	14.748		
9,400.0	8,575.8	8,630.1	8,575.8	36.9	33.0	89.95	408.9	-711.0	1,001.8	939.5	62.39	16.058		
9,500.0	8,575.8	8,630.1	8,575.8	38.1	33.0	89.94	408.9	-711.0	1,101.6	1,039.2	62.36	17.664		
9,600.0	8,575.8	8,630.1	8,575.8	39.5	33.0	89.94	408.9	-711.0	1,201.4	1,139.0	62.34	19.271		
9,700.0	8,575.8	10,939.2	9,852.1	40.9	44.0	-179.99	485.8	572.6	1,276.4	1,246.8	29.54	43.205		
9,800.0	8,575.8	11,039.2	9,853.3	42.5	45.5	-179.99	485.9	672.6	1,277.6	1,246.9	30.64	41.691		
9,900.0	8,575.8	11,139.2	9,854.5	44.1	47.0	-179.99	486.1	772.6	1,278.8	1,247.0	31.78	40.233		
10,000.0	8,575.8	11,239.2	9,855.7	45.9	48.6	-179.99	486.2	872.6	1,280.0	1,247.0	32.96	38.834		
10,100.0	8,575.8	11,339.2	9,856.9	47.6	50.2	-179.99	486.3	972.6	1,281.2	1,247.0	34.17	37.498		
10,200.0	8,575.8	11,439.2	9,858.1	49.5	52.0	-179.99	486.4	1,072.5	1,282.4	1,247.0	35.40	36.224		
10,300.0	8,575.8	11,539.2	9,859.3	51.4	53.8	-179.99	486.5	1,172.5	1,283.6	1,246.9	36.66	35.011		
10,400.0	8,575.8	11,639.2	9,860.5	53.3	55.6	-179.99	486.7	1,272.5	1,284.8	1,246.9	37.95	33.859		
10,500.0	8,575.8	11,739.2	9,861.7	55.3	57.5	-179.99	486.8	1,372.5	1,286.0	1,246.8	39.25	32.765		
10,600.0	8,575.8	11,839.2	9,862.9	57.3	59.4	-179.99	486.9	1,472.5	1,287.2	1,246.7	40.57	31.727		
10,700.0	8,575.7	11,939.2	9,864.1	59.3	61.3	-179.99	487.0	1,572.5	1,288.4	1,246.5	41.91	30.742		
10,800.0	8,575.7	12,039.1	9,865.3	61.4	63.3	-179.99	487.1	1,672.5	1,289.6	1,246.4	43.27	29.807		
10,900.0	8,575.7	12,139.1	9,866.5	63.5	65.4	-179.99	487.3	1,772.4	1,290.9	1,246.2	44.63	28.921		
11,000.0	8,575.7	12,239.1	9,867.7	65.7	67.4	-179.99	487.4	1,872.4	1,292.1	1,246.0	46.02	28.079		
11,100.0	8,575.7	12,339.1	9,868.9	67.8	69.5	-179.99	487.5	1,972.4	1,293.3	1,245.9	47.41	27.279		
11,200.0	8,575.7	12,439.1	9,870.1	70.0	71.6	-179.99	487.6	2,072.4	1,294.5	1,245.7	48.81	26.519		
11,300.0	8,575.7	12,539.1	9,871.3	72.2	73.7	-179.99	487.8	2,172.4	1,295.7	1,245.5	50.23	25.797		
11,400.0	8,575.7	12,639.1	9,872.5	74.4	75.9	-180.00	487.9	2,272.4	1,296.9	1,245.2	51.65	25.110		
11,500.0	8,575.7	12,739.1	9,873.7	76.6	78.0	-180.00	488.0	2,372.4	1,298.1	1,245.0	53.08	24.456		
11,600.0	8,575.7	12,839.1	9,874.9	78.8	80.2	-180.00	488.1	2,472.3	1,299.3	1,244.8	54.52	23.833		
11,700.0	8,575.7	12,939.1	9,876.1	81.1	82.4	-180.00	488.2	2,572.3	1,300.5	1,244.6	55.96	23.239		
11,800.0	8,575.7	13,039.1	9,877.3	83.3	84.6	-180.00	488.4	2,672.3	1,301.7	1,244.3	57.41	22.673		
11,900.0	8,575.7	13,139.1	9,878.5	85.6	86.8	-180.00	488.5	2,772.3	1,302.9	1,244.1	58.87	22.132		
12,000.0	8,575.7	13,239.1	9,879.7	87.9	89.1	-180.00	488.6	2,872.3	1,304.1	1,243.8	60.33	21.615		
12,100.0	8,575.6	13,339.1	9,880.9	90.2	91.3	-180.00	488.7	2,972.3	1,305.3	1,243.5	61.80	21.121		
12,200.0	8,575.6	13,439.0	9,882.1	92.5	93.6	-180.00	488.8	3,072.3	1,306.6	1,243.3	63.28	20.649		
12,300.0	8,575.6	13,539.0	9,883.3	94.8	95.8	-180.00	489.0	3,172.2	1,307.8	1,243.0	64.75	20.196		
12,400.0	8,575.6	13,639.0	9,884.5	97.1	98.1	-180.00	489.1	3,272.2	1,309.0	1,242.7	66.24	19.763		
12,500.0	8,575.6	13,739.0	9,885.7	99.4	100.4	-180.00	489.2	3,372.2	1,310.2	1,242.5	67.72	19.347		
12,600.0	8,575.6	13,839.0	9,886.9	101.7	102.7	-180.00	489.3	3,472.2	1,311.4	1,242.2	69.21	18.948		
12,700.0	8,575.6	13,939.0	9,888.1	104.1	105.0	-180.00	489.4	3,572.2	1,312.6	1,241.9	70.70	18.565		
12,800.0	8,575.6	14,039.0	9,889.3	106.4	107.3	-180.00	489.6	3,672.2	1,313.8	1,241.6	72.20	18.197		
12,900.0	8,575.6	14,139.0	9,890.5	108.7	109.6	-180.00	489.7	3,772.2	1,315.0	1,241.3	73.70	17.843		
13,000.0	8,575.6	14,239.0	9,891.7	111.1	111.9	-180.00	489.8	3,872.1	1,316.2	1,241.0	75.20	17.503		
13,100.0	8,575.6	14,339.0	9,892.9	113.4	114.3	-180.00	489.9	3,972.1	1,317.4	1,240.7	76.71	17.175		
13,200.0	8,575.6	14,439.0	9,894.1	115.8	116.6	-180.00	490.1	4,072.1	1,318.6	1,240.4	78.21	16.860		
13,300.0	8,575.6	14,539.0	9,895.3	118.2	118.9	-180.00	490.2	4,172.1	1,319.8	1,240.1	79.72	16.555		
13,400.0	8,575.6	14,639.0	9,896.5	120.5	121.3	-180.00	490.3	4,272.1	1,321.0	1,239.8	81.23	16.262		
13,500.0	8,575.5	14,739.0	9,897.7	122.9	123.6	-180.00	490.4	4,372.1	1,322.3	1,239.5	82.75	15.979		
13,600.0	8,575.5	14,838.9	9,898.9	125.3	125.9	-180.00	490.5	4,472.1	1,323.5	1,239.2	84.26	15.706		
13,700.0	8,575.5	14,938.9	9,900.1	127.6	128.3	-180.00	490.7	4,572.0	1,324.7	1,238.9	85.78	15.442		
13,800.0	8,575.5	15,038.9	9,901.3	130.0	130.7	-180.00	490.8	4,672.0	1,325.9	1,238.6	87.30	15.187		
13,900.0	8,575.5	15,138.9	9,902.5	132.4	133.0	-180.00	490.9	4,772.0	1,327.1	1,238.3	88.82	14.941		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
14,000.0	8,575.5	15,238.9	9,903.7	134.8	135.4	-180.00	491.0	4,872.0	1,328.3	1,237.9	90.35	14.702		
14,100.0	8,575.5	15,338.9	9,904.9	137.2	137.7	-180.00	491.1	4,972.0	1,329.5	1,237.6	91.87	14.471		
14,200.0	8,575.5	15,438.9	9,906.1	139.5	140.1	-180.00	491.3	5,072.0	1,330.7	1,237.3	93.40	14.248		
14,300.0	8,575.5	15,538.9	9,907.3	141.9	142.5	-180.00	491.4	5,172.0	1,331.9	1,237.0	94.93	14.031		
14,400.0	8,575.5	15,638.9	9,908.5	144.3	144.9	-180.00	491.5	5,271.9	1,333.1	1,236.7	96.46	13.821		
14,500.0	8,575.5	15,738.9	9,909.7	146.7	147.2	-180.00	491.6	5,371.9	1,334.3	1,236.3	97.99	13.618		
14,600.0	8,575.5	15,838.9	9,910.9	149.1	149.6	-180.00	491.7	5,471.9	1,335.5	1,236.0	99.52	13.420		
14,700.0	8,575.5	15,938.9	9,912.1	151.5	152.0	-180.00	491.9	5,571.9	1,336.8	1,235.7	101.05	13.229		
14,800.0	8,575.5	16,038.9	9,913.3	153.9	154.4	-180.00	492.0	5,671.9	1,338.0	1,235.4	102.58	13.043		
14,900.0	8,575.4	16,138.8	9,914.5	156.3	156.8	-180.00	492.1	5,771.9	1,339.2	1,235.0	104.12	12.862		
15,000.0	8,575.4	16,238.8	9,915.7	158.7	159.2	180.00	492.2	5,871.8	1,340.4	1,234.7	105.65	12.686		
15,100.0	8,575.4	16,338.8	9,916.9	161.1	161.6	180.00	492.4	5,971.8	1,341.6	1,234.4	107.19	12.516		
15,200.0	8,575.4	16,438.8	9,918.1	163.5	163.9	180.00	492.5	6,071.8	1,342.8	1,234.1	108.73	12.350		
15,300.0	8,575.4	16,538.8	9,919.3	165.9	166.3	180.00	492.6	6,171.8	1,344.0	1,233.7	110.27	12.189		
15,400.0	8,575.4	16,638.8	9,920.5	168.3	168.7	180.00	492.7	6,271.8	1,345.2	1,233.4	111.81	12.032		
15,500.0	8,575.4	16,738.8	9,921.7	170.8	171.1	180.00	492.8	6,371.8	1,346.4	1,233.1	113.35	11.879		
15,600.0	8,575.4	16,838.8	9,922.9	173.2	173.5	180.00	493.0	6,471.8	1,347.6	1,232.7	114.89	11.730		
15,700.0	8,575.4	16,938.8	9,924.1	175.6	175.9	180.00	493.1	6,571.7	1,348.8	1,232.4	116.43	11.585		
15,800.0	8,575.4	17,038.8	9,925.3	178.0	178.3	180.00	493.2	6,671.7	1,350.0	1,232.1	117.97	11.444		
15,900.0	8,575.4	17,138.8	9,926.5	180.4	180.7	180.00	493.3	6,771.7	1,351.2	1,231.7	119.52	11.306		
16,000.0	8,575.4	17,238.8	9,927.7	182.8	183.2	180.00	493.4	6,871.7	1,352.5	1,231.4	121.06	11.172		
16,100.0	8,575.4	17,338.8	9,928.9	185.2	185.6	180.00	493.6	6,971.7	1,353.7	1,231.1	122.60	11.041		
16,200.0	8,575.4	17,438.8	9,930.1	187.7	188.0	180.00	493.7	7,071.7	1,354.9	1,230.7	124.15	10.913		
16,300.0	8,575.3	17,538.7	9,931.3	190.1	190.4	180.00	493.8	7,171.7	1,356.1	1,230.4	125.69	10.789		
16,400.0	8,575.3	17,638.7	9,932.5	192.5	192.8	180.00	493.9	7,271.6	1,357.3	1,230.0	127.24	10.667		
16,500.0	8,575.3	17,738.7	9,933.7	194.9	195.2	180.00	494.0	7,371.6	1,358.5	1,229.7	128.79	10.548		
16,600.0	8,575.3	17,838.7	9,934.9	197.4	197.6	180.00	494.2	7,471.6	1,359.7	1,229.4	130.34	10.432		
16,700.0	8,575.3	17,938.7	9,936.1	199.8	200.0	180.00	494.3	7,571.6	1,360.9	1,229.0	131.88	10.319		
16,800.0	8,575.3	18,038.7	9,937.3	202.2	202.4	180.00	494.4	7,671.6	1,362.1	1,228.7	133.43	10.208		
16,900.0	8,575.3	18,138.7	9,938.5	204.6	204.9	180.00	494.5	7,771.6	1,363.3	1,228.3	134.98	10.100		
17,000.0	8,575.3	18,238.7	9,939.7	207.0	207.3	180.00	494.7	7,871.6	1,364.5	1,228.0	136.53	9.994		
17,100.0	8,575.3	18,338.7	9,940.9	209.5	209.7	180.00	494.8	7,971.5	1,365.7	1,227.7	138.08	9.891		
17,200.0	8,575.3	18,438.7	9,942.1	211.9	212.1	180.00	494.9	8,071.5	1,366.9	1,227.3	139.63	9.790		
17,300.0	8,575.3	18,538.7	9,943.3	214.3	214.5	180.00	495.0	8,171.5	1,368.2	1,227.0	141.18	9.691		
17,400.0	8,575.3	18,638.7	9,944.5	216.8	216.9	180.00	495.1	8,271.5	1,369.4	1,226.6	142.73	9.594		
17,500.0	8,575.3	18,738.7	9,945.7	219.2	219.4	180.00	495.3	8,371.5	1,370.6	1,226.3	144.28	9.499		
17,600.0	8,575.3	18,838.7	9,946.9	221.6	221.8	180.00	495.4	8,471.5	1,371.8	1,225.9	145.84	9.406		
17,700.0	8,575.2	18,938.6	9,948.1	224.0	224.2	180.00	495.5	8,571.5	1,373.0	1,225.6	147.39	9.315		
17,800.0	8,575.2	19,038.6	9,949.3	226.5	226.6	180.00	495.6	8,671.4	1,374.2	1,225.3	148.94	9.226		
17,900.0	8,575.2	19,138.6	9,950.5	228.9	229.1	180.00	495.7	8,771.4	1,375.4	1,224.9	150.49	9.139		
18,000.0	8,575.2	19,238.6	9,951.7	231.3	231.5	180.00	495.9	8,871.4	1,376.6	1,224.6	152.05	9.054		
18,100.0	8,575.2	19,338.6	9,952.9	233.8	233.9	180.00	496.0	8,971.4	1,377.8	1,224.2	153.60	8.970		
18,200.0	8,575.2	19,438.6	9,954.1	236.2	236.3	180.00	496.1	9,071.4	1,379.0	1,223.9	155.16	8.888		
18,300.0	8,575.2	19,538.6	9,955.3	238.6	238.8	180.00	496.2	9,171.4	1,380.2	1,223.5	156.71	8.808		
18,400.0	8,575.2	19,638.6	9,956.5	241.1	241.2	180.00	496.3	9,271.4	1,381.4	1,223.2	158.26	8.729		
18,500.0	8,575.2	19,738.6	9,957.7	243.5	243.6	180.00	496.5	9,371.3	1,382.6	1,222.8	159.82	8.651		
18,600.0	8,575.2	19,838.6	9,958.9	245.9	246.0	180.00	496.6	9,471.3	1,383.9	1,222.5	161.37	8.575		
18,700.0	8,575.2	19,938.6	9,960.1	248.4	248.5	180.00	496.7	9,571.3	1,385.1	1,222.1	162.93	8.501		
18,800.0	8,575.2	20,038.6	9,961.3	250.8	250.9	179.99	496.8	9,671.3	1,386.3	1,221.8	164.49	8.428		
18,900.0	8,575.2	20,138.6	9,962.5	253.2	253.3	179.99	497.0	9,771.3	1,387.5	1,221.4	166.04	8.356		
19,000.0	8,575.2	20,238.5	9,963.7	255.7	255.8	179.99	497.1	9,871.3	1,388.7	1,221.1	167.60	8.286		
19,100.0	8,575.1	20,338.5	9,964.9	258.1	258.2	179.99	497.2	9,971.3	1,389.9	1,220.7	169.15	8.217		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.1	20,438.5	9,966.1	260.6	260.6	179.99	497.3	10,071.2	1,391.1	1,220.4	170.71	8.149	
19,300.0	8,575.1	20,538.5	9,967.3	263.0	263.1	179.99	497.4	10,171.2	1,392.3	1,220.0	172.27	8.082	
19,400.0	8,575.1	20,638.5	9,968.5	265.4	265.5	179.99	497.6	10,271.2	1,393.5	1,219.7	173.83	8.017	
19,500.0	8,575.1	20,738.5	9,969.7	267.9	267.9	179.99	497.7	10,371.2	1,394.7	1,219.3	175.38	7.952	
19,600.0	8,575.1	20,838.5	9,970.9	270.3	270.4	179.99	497.8	10,471.2	1,395.9	1,219.0	176.94	7.889	
19,700.0	8,575.1	20,938.5	9,972.1	272.7	272.8	179.99	497.9	10,571.2	1,397.1	1,218.6	178.50	7.827	
19,800.0	8,575.1	21,038.5	9,973.3	275.2	275.2	179.99	498.0	10,671.1	1,398.3	1,218.3	180.06	7.766	
19,900.0	8,575.1	21,138.5	9,974.5	277.6	277.7	179.99	498.2	10,771.1	1,399.6	1,217.9	181.61	7.706	
20,000.0	8,575.1	21,238.5	9,975.7	280.1	280.1	179.99	498.3	10,871.1	1,400.8	1,217.6	183.17	7.647	
20,100.0	8,575.1	21,338.5	9,976.9	282.5	282.5	179.99	498.4	10,971.1	1,402.0	1,217.2	184.73	7.589	
20,200.0	8,575.1	21,438.5	9,978.1	284.9	285.0	179.99	498.5	11,071.1	1,403.2	1,216.9	186.29	7.532	
20,300.0	8,575.1	21,538.5	9,979.3	287.4	287.4	179.99	498.6	11,171.1	1,404.4	1,216.5	187.85	7.476	
20,400.0	8,575.1	21,638.4	9,980.6	289.8	289.8	179.99	498.8	11,271.1	1,405.6	1,216.2	189.41	7.421	
20,500.0	8,575.1	21,738.4	9,981.8	292.3	292.3	179.99	498.9	11,371.0	1,406.8	1,215.8	190.97	7.367	
20,600.0	8,575.0	21,838.4	9,983.0	294.7	294.7	179.99	499.0	11,471.0	1,408.0	1,215.5	192.53	7.313	
20,700.0	8,575.0	21,938.4	9,984.2	297.1	297.1	179.99	499.1	11,571.0	1,409.2	1,215.1	194.09	7.261	
20,800.0	8,575.0	22,038.4	9,985.4	299.6	299.6	179.99	499.3	11,671.0	1,410.4	1,214.8	195.65	7.209	
20,900.0	8,575.0	22,138.4	9,986.6	302.0	302.0	179.99	499.4	11,771.0	1,411.6	1,214.4	197.21	7.158	
21,000.0	8,575.0	22,238.4	9,987.8	304.5	304.5	179.99	499.5	11,871.0	1,412.8	1,214.1	198.77	7.108	
21,100.0	8,575.0	22,338.4	9,989.0	306.9	306.9	179.99	499.6	11,971.0	1,414.0	1,213.7	200.33	7.059	
21,200.0	8,575.0	22,438.4	9,990.2	309.3	309.3	179.99	499.7	12,070.9	1,415.3	1,213.4	201.89	7.010	
21,212.2	8,575.0	22,450.6	9,990.3	309.6	309.6	179.99	499.8	12,083.1	1,415.4	1,213.3	202.08	7.004	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	-135.16	-30.1	-29.9	42.4					
100.0	100.0	101.0	101.0	0.1	0.1	-135.16	-30.1	-29.9	42.4	42.2	0.26	163.317		
200.0	200.0	201.0	201.0	0.5	0.5	-135.16	-30.1	-29.9	42.4	41.5	0.98	43.451		
300.0	300.0	301.0	301.0	0.8	0.8	-135.16	-30.1	-29.9	42.4	40.8	1.69	25.059		
400.0	400.0	401.0	401.0	1.2	1.2	-135.16	-30.1	-29.9	42.4	40.0	2.41	17.607		
500.0	500.0	501.0	501.0	1.6	1.6	-135.16	-30.1	-29.9	42.4	39.3	3.13	13.571		
600.0	600.0	601.0	601.0	1.9	1.9	-135.16	-30.1	-29.9	42.4	38.6	3.84	11.040		
700.0	700.0	701.0	701.0	2.3	2.3	-135.16	-30.1	-29.9	42.4	37.9	4.56	9.305		
800.0	800.0	801.0	801.0	2.6	2.6	-135.16	-30.1	-29.9	42.4	37.2	5.28	8.041		
900.0	900.0	901.0	901.0	3.0	3.0	-135.16	-30.1	-29.9	42.4	36.4	6.00	7.080		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-135.16	-30.1	-29.9	42.4	35.7	6.71	6.323		
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-135.16	-30.1	-29.9	42.4	35.0	7.43	5.713		
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-135.16	-30.1	-29.9	42.4	34.3	8.15	5.210		
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-135.16	-30.1	-29.9	42.4	33.6	8.86	4.789		
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-135.16	-30.1	-29.9	42.4	32.9	9.58	4.430		
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-135.16	-30.1	-29.9	42.4	32.1	10.30	4.122 CC		
1,600.0	1,600.0	1,600.2	1,600.2	5.5	5.5	-81.73	-30.7	-30.5	43.0	32.1	10.99	3.916 ES		
1,700.0	1,699.8	1,699.3	1,699.3	5.9	5.8	-88.16	-32.6	-32.3	45.2	33.5	11.67	3.874 SF		
1,800.0	1,799.5	1,798.1	1,798.0	6.2	6.1	-97.39	-35.7	-35.2	49.9	37.6	12.35	4.042		
1,900.0	1,898.7	1,896.4	1,896.1	6.6	6.5	-107.36	-40.1	-39.3	58.2	45.2	13.03	4.467		
2,000.0	1,997.5	1,994.2	1,993.5	6.9	6.8	-116.32	-45.6	-44.5	70.8	57.1	13.73	5.158		
2,100.0	2,095.9	2,091.4	2,090.4	7.3	7.2	-122.88	-52.3	-50.9	86.8	72.4	14.42	6.019		
2,200.0	2,194.4	2,188.5	2,186.8	7.7	7.5	-126.70	-60.1	-58.3	104.8	89.6	15.13	6.926		
2,300.0	2,292.9	2,285.2	2,282.7	8.1	7.8	-128.81	-69.2	-66.8	124.1	108.3	15.83	7.840		
2,400.0	2,391.4	2,381.5	2,378.1	8.5	8.2	-129.85	-79.3	-76.4	144.7	128.1	16.54	8.746		
2,500.0	2,489.9	2,477.5	2,472.8	8.9	8.6	-130.20	-90.6	-87.0	166.3	149.0	17.26	9.637		
2,600.0	2,588.3	2,574.5	2,568.3	9.3	8.9	-130.19	-102.8	-98.6	188.7	170.7	18.00	10.484		
2,700.0	2,686.8	2,672.0	2,664.3	9.7	9.3	-130.17	-115.1	-110.2	211.1	192.3	18.75	11.257		
2,800.0	2,785.3	2,769.5	2,760.3	10.2	9.7	-130.16	-127.4	-121.8	233.5	214.0	19.51	11.966		
2,900.0	2,883.8	2,866.9	2,856.3	10.6	10.1	-130.15	-139.7	-133.4	255.9	235.6	20.28	12.619		
3,000.0	2,982.3	2,964.4	2,952.3	11.0	10.5	-130.14	-152.1	-145.0	278.3	257.2	21.05	13.221		
3,100.0	3,080.8	3,061.8	3,048.2	11.4	10.9	-130.13	-164.4	-156.6	300.7	278.8	21.82	13.778		
3,200.0	3,179.2	3,159.3	3,144.2	11.9	11.3	-130.13	-176.7	-168.2	323.1	300.5	22.60	14.295		
3,300.0	3,277.7	3,256.8	3,240.2	12.3	11.7	-130.12	-189.0	-179.9	345.5	322.1	23.38	14.774		
3,400.0	3,376.2	3,354.2	3,336.2	12.7	12.1	-130.12	-201.3	-191.5	367.9	343.7	24.17	15.221		
3,500.0	3,474.7	3,451.7	3,432.1	13.2	12.5	-130.11	-213.6	-203.1	390.3	365.3	24.96	15.637		
3,600.0	3,573.2	3,549.1	3,528.1	13.6	13.0	-130.11	-225.9	-214.7	412.7	386.9	25.75	16.026		
3,700.0	3,671.6	3,646.6	3,624.1	14.0	13.4	-130.10	-238.2	-226.3	435.1	408.5	26.54	16.391		
3,800.0	3,770.1	3,744.1	3,720.1	14.5	13.8	-130.10	-250.5	-237.9	457.5	430.1	27.34	16.733		
3,900.0	3,868.6	3,841.5	3,816.1	14.9	14.2	-130.10	-262.8	-249.5	479.9	451.7	28.14	17.055		
4,000.0	3,967.1	3,939.0	3,912.0	15.3	14.6	-130.10	-275.1	-261.2	502.2	473.3	28.94	17.357		
4,100.0	4,065.6	4,036.4	4,008.0	15.8	15.1	-130.09	-287.5	-272.8	524.6	494.9	29.74	17.643		
4,200.0	4,164.0	4,133.9	4,104.0	16.2	15.5	-130.09	-299.8	-284.4	547.0	516.5	30.54	17.912		
4,300.0	4,262.5	4,231.3	4,200.0	16.7	15.9	-130.09	-312.1	-296.0	569.4	538.1	31.34	18.167		
4,400.0	4,361.0	4,328.8	4,296.0	17.1	16.3	-130.09	-324.4	-307.6	591.8	559.7	32.15	18.408		
4,500.0	4,459.5	4,426.3	4,391.9	17.5	16.8	-130.09	-336.7	-319.2	614.2	581.3	32.96	18.637		
4,600.0	4,558.0	4,523.7	4,487.9	18.0	17.2	-130.08	-349.0	-330.8	636.6	602.9	33.77	18.854		
4,700.0	4,656.4	4,621.2	4,583.9	18.4	17.6	-130.08	-361.3	-342.5	659.0	624.5	34.58	19.061		
4,800.0	4,754.9	4,718.6	4,679.9	18.9	18.1	-130.08	-373.6	-354.1	681.4	646.0	35.39	19.257		
4,900.0	4,853.4	4,816.1	4,775.8	19.3	18.5	-130.08	-385.9	-365.7	703.8	667.6	36.20	19.444		
5,000.0	4,951.9	4,913.6	4,871.8	19.8	18.9	-130.08	-398.2	-377.3	726.2	689.2	37.01	19.623		
5,100.0	5,050.4	5,011.0	4,967.8	20.2	19.3	-130.08	-410.5	-388.9	748.6	710.8	37.82	19.793		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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		
5,200.0	5,148.9	5,108.5	5,063.8	20.6	19.8	-130.08	-422.8	-400.5	771.0	732.4	38.64	19.956		
5,300.0	5,247.3	5,205.9	5,159.8	21.1	20.2	-130.07	-435.2	-412.2	793.4	754.0	39.45	20.112		
5,400.0	5,345.8	5,303.4	5,255.7	21.5	20.6	-130.07	-447.5	-423.8	815.8	775.6	40.27	20.261		
5,500.0	5,444.3	5,400.9	5,351.7	22.0	21.1	-130.07	-459.8	-435.4	838.2	797.1	41.08	20.403		
5,600.0	5,542.8	5,501.7	5,447.7	22.4	21.5	-130.07	-472.1	-447.0	860.6	818.7	41.91	20.534		
5,700.0	5,641.3	5,595.8	5,543.7	22.9	22.0	-130.07	-484.4	-458.6	883.0	840.3	42.72	20.672		
5,800.0	5,739.7	5,706.8	5,639.7	23.3	22.4	-130.07	-496.7	-470.2	905.4	861.8	43.59	20.771		
5,900.0	5,838.2	5,809.3	5,735.6	23.8	22.9	-130.07	-509.0	-481.8	927.8	883.4	44.43	20.883		
6,000.0	5,936.7	5,888.2	5,831.6	24.2	23.3	-130.07	-521.3	-493.5	950.2	905.0	45.17	21.036		
6,100.0	6,035.2	5,985.6	5,927.6	24.7	23.7	-130.07	-533.6	-505.1	972.6	926.6	45.99	21.148		
6,200.0	6,133.7	6,083.1	6,023.6	25.1	24.1	-130.07	-545.9	-516.7	995.0	948.2	46.81	21.256		
6,300.0	6,232.1	6,180.5	6,119.5	25.6	24.6	-130.07	-558.2	-528.3	1,017.4	969.8	47.63	21.361		
6,400.0	6,330.6	6,278.0	6,215.5	26.0	25.0	-130.07	-570.6	-539.9	1,039.8	991.4	48.45	21.461		
6,498.0	6,427.1	6,373.5	6,309.6	26.4	25.4	-130.07	-582.6	-551.3	1,061.8	1,012.5	49.26	21.556		
6,500.0	6,429.1	6,375.5	6,311.5	26.5	25.5	-130.07	-582.9	-551.5	1,062.2	1,012.9	49.27	21.558		
6,600.0	6,527.9	6,473.2	6,407.8	26.9	25.9	-130.39	-595.2	-563.2	1,083.2	1,033.1	50.08	21.628		
6,700.0	6,627.3	6,571.4	6,504.5	27.3	26.3	-130.47	-607.6	-574.9	1,101.4	1,050.5	50.87	21.651		
6,800.0	6,727.1	6,669.8	6,601.4	27.6	26.8	-130.34	-620.0	-586.6	1,116.8	1,065.2	51.64	21.630		
6,898.0	6,825.1	6,766.4	6,696.5	28.0	27.2	174.27	-632.2	-598.1	1,129.4	1,077.0	52.36	21.570		
6,900.0	6,827.1	6,768.4	6,698.4	28.0	27.2	174.28	-632.5	-598.4	1,129.6	1,077.2	52.37	21.568		
7,000.0	6,927.1	6,866.8	6,795.4	28.3	27.7	174.94	-644.9	-610.1	1,141.2	1,088.1	53.10	21.492		
7,100.0	7,027.1	6,965.3	6,892.4	28.6	28.1	175.58	-657.4	-621.8	1,152.9	1,099.0	53.82	21.420		
7,200.0	7,127.1	7,063.8	6,989.4	28.9	28.6	176.20	-669.8	-633.6	1,164.7	1,110.2	54.54	21.354		
7,300.0	7,227.1	7,162.3	7,086.4	29.2	29.0	176.82	-682.2	-645.3	1,176.7	1,121.4	55.26	21.292		
7,400.0	7,327.1	7,262.6	7,185.1	29.5	29.4	177.43	-694.9	-657.2	1,188.8	1,132.8	56.00	21.229		
7,500.0	7,427.1	7,389.3	7,310.3	29.8	30.0	178.11	-709.2	-670.7	1,199.7	1,142.8	56.95	21.066		
7,600.0	7,527.1	7,517.2	7,437.2	30.1	30.5	178.64	-720.5	-681.5	1,208.4	1,150.5	57.86	20.885		
7,700.0	7,627.1	7,646.0	7,565.5	30.5	31.0	179.02	-728.9	-689.3	1,214.7	1,156.0	58.72	20.685		
7,800.0	7,727.1	7,775.4	7,694.8	30.8	31.5	179.25	-734.0	-694.2	1,218.7	1,159.1	59.54	20.468		
7,900.0	7,827.1	7,905.2	7,824.5	31.1	31.9	179.34	-736.0	-696.1	1,220.2	1,159.9	60.31	20.233		
8,000.0	7,927.1	8,008.8	7,928.1	31.4	32.2	179.34	-736.1	-696.1	1,220.2	1,159.3	60.95	20.019		
8,074.9	8,002.0	8,083.7	8,003.0	31.6	32.4	179.34	-736.1	-696.1	1,220.2	1,158.8	61.43	19.863		
8,100.0	8,027.1	8,108.8	8,028.1	31.7	32.5	89.44	-736.1	-696.1	1,220.2	1,158.6	61.58	19.813		
8,150.0	8,076.9	8,158.6	8,077.9	31.8	32.6	89.65	-736.1	-696.1	1,220.2	1,158.3	61.87	19.722		
8,195.0	8,121.2	8,202.9	8,122.2	31.9	32.8	90.00	-736.1	-696.1	1,220.1	1,158.0	62.10	19.647		
8,200.0	8,126.1	8,207.8	8,127.1	32.0	32.8	90.05	-736.1	-696.1	1,220.1	1,158.0	62.13	19.638		
8,250.0	8,174.4	8,256.1	8,175.4	32.1	32.9	90.63	-736.1	-696.1	1,220.2	1,157.9	62.37	19.565		
8,300.0	8,221.4	8,303.0	8,222.4	32.1	33.1	91.35	-736.1	-696.1	1,220.5	1,158.0	62.58	19.502		
8,350.0	8,266.7	8,348.3	8,267.7	32.2	33.2	92.18	-736.1	-696.1	1,221.3	1,158.5	62.78	19.454		
8,400.0	8,309.9	8,408.4	8,310.9	32.3	33.4	93.06	-736.1	-696.1	1,222.6	1,159.6	63.00	19.406		
8,450.0	8,350.9	8,432.6	8,351.9	32.3	33.4	93.94	-736.1	-696.1	1,224.7	1,161.6	63.10	19.410		
8,500.0	8,389.2	8,470.8	8,390.2	32.3	33.6	94.77	-736.1	-696.1	1,227.9	1,164.7	63.23	19.419		
8,550.0	8,424.5	8,506.2	8,425.5	32.4	33.7	95.48	-736.1	-696.1	1,232.4	1,169.1	63.36	19.452		
8,600.0	8,456.6	8,538.3	8,457.6	32.4	33.8	96.03	-736.1	-696.1	1,238.4	1,174.9	63.47	19.512		
8,650.0	8,485.3	8,567.0	8,486.3	32.4	33.8	96.35	-736.1	-696.1	1,246.0	1,182.5	63.57	19.600		
8,700.0	8,510.3	8,608.1	8,511.3	32.5	34.0	96.39	-736.1	-696.1	1,255.5	1,191.8	63.73	19.702		
8,750.0	8,531.4	8,613.1	8,532.4	32.5	34.0	96.11	-736.1	-696.1	1,267.0	1,203.2	63.77	19.867		
8,800.0	8,548.5	8,630.1	8,549.5	32.6	34.0	95.46	-736.1	-696.1	1,280.4	1,216.5	63.87	20.047		
8,850.0	8,561.4	8,643.1	8,562.4	32.8	34.1	94.42	-736.1	-696.1	1,295.9	1,231.9	63.97	20.259		
8,900.0	8,570.1	8,651.7	8,571.1	32.9	34.1	92.97	-736.1	-696.1	1,313.3	1,249.2	64.06	20.501		
8,950.0	8,574.4	8,656.1	8,575.4	33.1	34.1	91.09	-736.1	-696.1	1,332.5	1,268.4	64.15	20.773		
8,971.9	8,574.9	8,656.6	8,575.9	33.2	34.1	90.14	-736.1	-696.1	1,341.4	1,277.3	64.18	20.901		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.1	8,656.8	8,576.1	33.3	34.1	90.13	-736.1	-696.1	1,353.4	1,289.1	64.23	21.071		
9,100.0	8,575.5	8,657.2	8,576.5	34.0	34.1	90.11	-736.1	-696.1	1,399.5	1,335.1	64.45	21.715		
9,200.0	8,575.7	8,657.4	8,576.7	34.8	34.1	90.06	-736.1	-696.1	1,451.1	1,386.4	64.73	22.420		
9,300.0	8,575.8	8,657.5	8,576.8	35.7	34.1	90.01	-736.1	-696.1	1,507.6	1,442.6	65.04	23.179		
9,318.4	8,575.8	8,657.5	8,576.8	35.9	34.1	90.00	-736.1	-696.1	1,518.5	1,453.4	65.10	23.325		
9,400.0	8,575.8	8,657.5	8,576.8	36.9	34.1	90.00	-736.1	-696.1	1,568.4	1,503.1	65.38	23.989		
9,500.0	8,575.8	8,657.5	8,576.8	38.1	34.1	90.00	-736.1	-696.1	1,633.1	1,567.4	65.73	24.846		
9,600.0	8,575.8	8,657.5	8,576.8	39.5	34.1	90.00	-736.1	-696.1	1,701.2	1,635.2	66.08	25.745		
9,700.0	8,575.8	8,657.5	8,576.8	40.9	34.1	90.00	-736.1	-696.1	1,772.4	1,706.0	66.42	26.683		
9,800.0	8,575.8	11,003.6	9,795.0	42.5	45.0	132.69	-834.7	674.5	1,796.6	1,729.6	66.96	26.832		
9,900.0	8,575.8	11,103.6	9,796.2	44.1	46.6	132.72	-834.6	774.5	1,797.5	1,728.1	69.39	25.903		
10,000.0	8,575.8	11,203.6	9,797.5	45.9	48.2	132.75	-834.4	874.5	1,798.3	1,726.4	71.94	24.998		
10,100.0	8,575.8	11,303.7	9,798.7	47.6	49.9	132.78	-834.3	974.5	1,799.1	1,724.6	74.58	24.123		
10,200.0	8,575.8	11,396.3	9,800.0	49.5	51.5	132.81	-834.2	1,074.4	1,800.0	1,722.8	77.21	23.311		
10,300.0	8,575.8	11,503.7	9,801.2	51.4	53.4	132.84	-834.0	1,174.4	1,800.8	1,720.7	80.13	22.474		
10,400.0	8,575.8	11,603.7	9,802.4	53.3	55.3	132.87	-833.9	1,274.4	1,801.7	1,718.7	83.01	21.703		
10,500.0	8,575.8	11,703.7	9,803.7	55.3	57.2	132.90	-833.8	1,374.4	1,802.5	1,716.6	85.96	20.969		
10,600.0	8,575.8	11,803.7	9,804.9	57.3	59.1	132.93	-833.7	1,474.4	1,803.4	1,714.4	88.97	20.270		
10,700.0	8,575.7	11,903.7	9,806.2	59.3	61.1	132.96	-833.5	1,574.4	1,804.2	1,712.2	92.02	19.606		
10,800.0	8,575.7	12,003.7	9,807.4	61.4	63.1	132.99	-833.4	1,674.3	1,805.1	1,709.9	95.13	18.976		
10,900.0	8,575.7	12,103.7	9,808.7	63.5	65.1	133.01	-833.3	1,774.3	1,805.9	1,707.7	98.27	18.377		
11,000.0	8,575.7	12,203.7	9,809.9	65.7	67.2	133.04	-833.1	1,874.3	1,806.8	1,705.3	101.45	17.810		
11,100.0	8,575.7	12,303.7	9,811.1	67.8	69.3	133.07	-833.0	1,974.3	1,807.6	1,703.0	104.66	17.271		
11,200.0	8,575.7	12,403.7	9,812.4	70.0	71.4	133.10	-832.9	2,074.3	1,808.5	1,700.6	107.90	16.760		
11,300.0	8,575.7	12,503.7	9,813.6	72.2	73.5	133.13	-832.8	2,174.3	1,809.3	1,698.2	111.17	16.275		
11,400.0	8,575.7	12,603.8	9,814.9	74.4	75.7	133.16	-832.6	2,274.3	1,810.2	1,695.7	114.47	15.814		
11,500.0	8,575.7	12,703.8	9,816.1	76.6	77.8	133.19	-832.5	2,374.2	1,811.0	1,693.2	117.78	15.376		
11,600.0	8,575.7	12,796.2	9,817.4	78.8	79.9	133.22	-832.4	2,474.2	1,811.9	1,690.9	120.99	14.975		
11,700.0	8,575.7	12,903.8	9,818.6	81.1	82.2	133.25	-832.2	2,574.2	1,812.7	1,688.3	124.48	14.563		
11,800.0	8,575.7	13,003.8	9,819.8	83.3	84.4	133.27	-832.1	2,674.2	1,813.6	1,685.7	127.85	14.186		
11,900.0	8,575.7	13,103.8	9,821.1	85.6	86.7	133.30	-832.0	2,774.2	1,814.4	1,683.2	131.23	13.826		
12,000.0	8,575.7	13,203.8	9,822.3	87.9	88.9	133.33	-831.9	2,874.2	1,815.3	1,680.7	134.63	13.483		
12,100.0	8,575.6	13,303.8	9,823.6	90.2	91.2	133.36	-831.7	2,974.1	1,816.2	1,678.1	138.04	13.156		
12,200.0	8,575.6	13,403.8	9,824.8	92.5	93.4	133.39	-831.6	3,074.1	1,817.0	1,675.5	141.47	12.844		
12,300.0	8,575.6	13,503.8	9,826.0	94.8	95.7	133.42	-831.5	3,174.1	1,817.9	1,673.0	144.90	12.546		
12,400.0	8,575.6	13,603.8	9,827.3	97.1	98.0	133.45	-831.3	3,274.1	1,818.7	1,670.4	148.34	12.260		
12,500.0	8,575.6	13,703.8	9,828.5	99.4	100.3	133.48	-831.2	3,374.1	1,819.6	1,667.8	151.80	11.987		
12,600.0	8,575.6	13,803.8	9,829.8	101.7	102.6	133.50	-831.1	3,474.1	1,820.4	1,665.2	155.25	11.725		
12,700.0	8,575.6	13,903.9	9,831.0	104.1	104.9	133.53	-831.0	3,574.1	1,821.3	1,662.6	158.72	11.475		
12,800.0	8,575.6	14,003.9	9,832.3	106.4	107.2	133.56	-830.8	3,674.0	1,822.1	1,660.0	162.19	11.234		
12,900.0	8,575.6	14,103.9	9,833.5	108.7	109.5	133.59	-830.7	3,774.0	1,823.0	1,657.3	165.67	11.004		
13,000.0	8,575.6	14,203.9	9,834.7	111.1	111.8	133.62	-830.6	3,874.0	1,823.9	1,654.7	169.15	10.782		
13,100.0	8,575.6	14,303.9	9,836.0	113.4	114.1	133.65	-830.5	3,974.0	1,824.7	1,652.1	172.64	10.569		
13,200.0	8,575.6	14,403.9	9,837.2	115.8	116.5	133.68	-830.3	4,074.0	1,825.6	1,649.4	176.13	10.365		
13,300.0	8,575.6	14,503.9	9,838.5	118.2	118.8	133.70	-830.2	4,174.0	1,826.4	1,646.8	179.63	10.168		
13,400.0	8,575.6	14,603.9	9,839.7	120.5	121.1	133.73	-830.1	4,273.9	1,827.3	1,644.2	183.13	9.978		
13,500.0	8,575.5	14,703.9	9,841.0	122.9	123.5	133.76	-829.9	4,373.9	1,828.2	1,641.5	186.63	9.795		
13,600.0	8,575.5	14,803.9	9,842.2	125.3	125.8	133.79	-829.8	4,473.9	1,829.0	1,638.9	190.14	9.619		
13,700.0	8,575.5	14,903.9	9,843.4	127.6	128.2	133.82	-829.7	4,573.9	1,829.9	1,636.2	193.65	9.450		
13,800.0	8,575.5	15,003.9	9,844.7	130.0	130.6	133.85	-829.6	4,673.9	1,830.8	1,633.6	197.16	9.286		
13,900.0	8,575.5	15,103.9	9,845.9	132.4	132.9	133.87	-829.4	4,773.9	1,831.6	1,630.9	200.67	9.128		
14,000.0	8,575.5	15,204.0	9,847.2	134.8	135.3	133.90	-829.3	4,873.8	1,832.5	1,628.3	204.18	8.975		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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	8,575.5	15,304.0	9,848.4	137.2	137.7	133.93	-829.2	4,973.8	1,833.3	1,625.6	207.70	8.827		
14,200.0	8,575.5	15,404.0	9,849.7	139.5	140.0	133.96	-829.0	5,073.8	1,834.2	1,623.0	211.21	8.684		
14,300.0	8,575.5	15,504.0	9,850.9	141.9	142.4	133.99	-828.9	5,173.8	1,835.1	1,620.3	214.73	8.546		
14,400.0	8,575.5	15,604.0	9,852.1	144.3	144.8	134.02	-828.8	5,273.8	1,835.9	1,617.7	218.25	8.412		
14,500.0	8,575.5	15,696.0	9,853.4	146.7	147.0	134.04	-828.7	5,373.8	1,836.8	1,615.2	221.62	8.288		
14,600.0	8,575.5	15,804.0	9,854.6	149.1	149.5	134.07	-828.5	5,473.8	1,837.7	1,612.4	225.29	8.157		
14,700.0	8,575.5	15,904.0	9,855.9	151.5	151.9	134.10	-828.4	5,573.7	1,838.5	1,609.7	228.81	8.035		
14,800.0	8,575.5	16,004.0	9,857.1	153.9	154.3	134.13	-828.3	5,673.7	1,839.4	1,607.1	232.33	7.917		
14,900.0	8,575.4	16,104.0	9,858.3	156.3	156.7	134.16	-828.1	5,773.7	1,840.3	1,604.4	235.85	7.803		
15,000.0	8,575.4	16,204.0	9,859.6	158.7	159.1	134.18	-828.0	5,873.7	1,841.1	1,601.8	239.37	7.692		
15,100.0	8,575.4	16,304.0	9,860.8	161.1	161.5	134.21	-827.9	5,973.7	1,842.0	1,599.1	242.89	7.584		
15,200.0	8,575.4	16,395.9	9,862.1	163.5	163.7	134.24	-827.8	6,073.7	1,842.9	1,596.6	246.26	7.483		
15,300.0	8,575.4	16,504.1	9,863.3	165.9	166.3	134.27	-827.6	6,173.6	1,843.7	1,593.8	249.93	7.377		
15,400.0	8,575.4	16,604.1	9,864.6	168.3	168.7	134.30	-827.5	6,273.6	1,844.6	1,591.2	253.44	7.278		
15,500.0	8,575.4	16,704.1	9,865.8	170.8	171.1	134.32	-827.4	6,373.6	1,845.5	1,588.5	256.96	7.182		
15,600.0	8,575.4	16,804.1	9,867.0	173.2	173.5	134.35	-827.2	6,473.6	1,846.4	1,585.9	260.48	7.088		
15,700.0	8,575.4	16,904.1	9,868.3	175.6	175.9	134.38	-827.1	6,573.6	1,847.2	1,583.2	263.99	6.997		
15,800.0	8,575.4	16,995.9	9,869.5	178.0	178.1	134.41	-827.0	6,673.6	1,848.1	1,580.7	267.36	6.912		
15,900.0	8,575.4	17,104.1	9,870.8	180.4	180.7	134.43	-826.9	6,773.6	1,849.0	1,577.9	271.02	6.822		
16,000.0	8,575.4	17,204.1	9,872.0	182.8	183.1	134.46	-826.7	6,873.5	1,849.8	1,575.3	274.54	6.738		
16,100.0	8,575.4	17,304.1	9,873.3	185.2	185.5	134.49	-826.6	6,973.5	1,850.7	1,572.7	278.05	6.656		
16,200.0	8,575.4	17,404.1	9,874.5	187.7	187.9	134.52	-826.5	7,073.5	1,851.6	1,570.0	281.56	6.576		
16,300.0	8,575.3	17,504.1	9,875.7	190.1	190.3	134.54	-826.3	7,173.5	1,852.5	1,567.4	285.07	6.498		
16,400.0	8,575.3	17,604.1	9,877.0	192.5	192.7	134.57	-826.2	7,273.5	1,853.3	1,564.8	288.58	6.422		
16,500.0	8,575.3	17,704.2	9,878.2	194.9	195.1	134.60	-826.1	7,373.5	1,854.2	1,562.1	292.09	6.348		
16,600.0	8,575.3	17,804.2	9,879.5	197.4	197.6	134.63	-826.0	7,473.4	1,855.1	1,559.5	295.59	6.276		
16,700.0	8,575.3	17,904.2	9,880.7	199.8	200.0	134.66	-825.8	7,573.4	1,856.0	1,556.9	299.10	6.205		
16,800.0	8,575.3	18,004.2	9,882.0	202.2	202.4	134.68	-825.7	7,673.4	1,856.8	1,554.2	302.60	6.136		
16,900.0	8,575.3	18,104.2	9,883.2	204.6	204.8	134.71	-825.6	7,773.4	1,857.7	1,551.6	306.10	6.069		
17,000.0	8,575.3	18,204.2	9,884.4	207.0	207.2	134.74	-825.4	7,873.4	1,858.6	1,549.0	309.60	6.003		
17,100.0	8,575.3	18,304.2	9,885.7	209.5	209.6	134.77	-825.3	7,973.4	1,859.5	1,546.4	313.10	5.939		
17,200.0	8,575.3	18,395.8	9,886.9	211.9	211.9	134.79	-825.2	8,073.3	1,860.3	1,543.9	316.45	5.879		
17,300.0	8,575.3	18,504.2	9,888.2	214.3	214.5	134.82	-825.1	8,173.3	1,861.2	1,541.1	320.09	5.815		
17,400.0	8,575.3	18,604.2	9,889.4	216.8	216.9	134.85	-824.9	8,273.3	1,862.1	1,538.5	323.59	5.755		
17,500.0	8,575.3	18,704.2	9,890.7	219.2	219.3	134.87	-824.8	8,373.3	1,863.0	1,535.9	327.08	5.696		
17,600.0	8,575.3	18,804.2	9,891.9	221.6	221.7	134.90	-824.7	8,473.3	1,863.9	1,533.3	330.57	5.638		
17,700.0	8,575.2	18,895.8	9,893.1	224.0	224.0	134.93	-824.6	8,573.3	1,864.7	1,530.8	333.91	5.585		
17,800.0	8,575.2	19,004.3	9,894.4	226.5	226.6	134.96	-824.4	8,673.3	1,865.6	1,528.1	337.55	5.527		
17,900.0	8,575.2	19,104.3	9,895.6	228.9	229.0	134.98	-824.3	8,773.2	1,866.5	1,525.5	341.03	5.473		
18,000.0	8,575.2	19,204.3	9,896.9	231.3	231.4	135.01	-824.2	8,873.2	1,867.4	1,522.9	344.51	5.420		
18,100.0	8,575.2	19,304.3	9,898.1	233.8	233.9	135.04	-824.0	8,973.2	1,868.3	1,520.3	347.99	5.369		
18,200.0	8,575.2	19,404.3	9,899.3	236.2	236.3	135.07	-823.9	9,073.2	1,869.1	1,517.7	351.47	5.318		
18,300.0	8,575.2	19,504.3	9,900.6	238.6	238.7	135.09	-823.8	9,173.2	1,870.0	1,515.1	354.95	5.268		
18,400.0	8,575.2	19,604.3	9,901.8	241.1	241.1	135.12	-823.7	9,273.2	1,870.9	1,512.5	358.42	5.220		
18,500.0	8,575.2	19,704.3	9,903.1	243.5	243.6	135.15	-823.5	9,373.1	1,871.8	1,509.9	361.90	5.172		
18,600.0	8,575.2	19,804.3	9,904.3	245.9	246.0	135.17	-823.4	9,473.1	1,872.7	1,507.3	365.37	5.125		
18,700.0	8,575.2	19,904.3	9,905.6	248.4	248.4	135.20	-823.3	9,573.1	1,873.5	1,504.7	368.84	5.080		
18,800.0	8,575.2	20,004.3	9,906.8	250.8	250.9	135.23	-823.1	9,673.1	1,874.4	1,502.1	372.30	5.035		
18,900.0	8,575.2	20,104.3	9,908.0	253.2	253.3	135.25	-823.0	9,773.1	1,875.3	1,499.5	375.77	4.991		
19,000.0	8,575.2	20,204.3	9,909.3	255.7	255.7	135.28	-822.9	9,873.1	1,876.2	1,497.0	379.23	4.947		
19,100.0	8,575.1	20,295.6	9,910.5	258.1	257.9	135.31	-822.8	9,973.1	1,877.1	1,494.6	382.54	4.907		
19,200.0	8,575.1	20,404.4	9,911.8	260.6	260.6	135.34	-822.6	10,073.0	1,878.0	1,491.8	386.15	4.863		

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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 #206H - 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	8,575.1	20,504.4	9,913.0	263.0	263.0	135.36	-822.5	10,173.0	1,878.9	1,489.3	389.61	4.822	
19,400.0	8,575.1	20,604.4	9,914.3	265.4	265.5	135.39	-822.4	10,273.0	1,879.7	1,486.7	393.06	4.782	
19,500.0	8,575.1	20,704.4	9,915.5	267.9	267.9	135.42	-822.2	10,373.0	1,880.6	1,484.1	396.52	4.743	
19,600.0	8,575.1	20,804.4	9,916.7	270.3	270.3	135.44	-822.1	10,473.0	1,881.5	1,481.6	399.97	4.704	
19,700.0	8,575.1	20,895.6	9,918.0	272.7	272.5	135.47	-822.0	10,573.0	1,882.4	1,479.2	403.25	4.668	
19,800.0	8,575.1	21,004.4	9,919.2	275.2	275.2	135.50	-821.9	10,672.9	1,883.3	1,476.4	406.86	4.629	
19,900.0	8,575.1	21,104.4	9,920.5	277.6	277.6	135.52	-821.7	10,772.9	1,884.2	1,473.9	410.30	4.592	
20,000.0	8,575.1	21,204.4	9,921.7	280.1	280.1	135.55	-821.6	10,872.9	1,885.1	1,471.3	413.74	4.556	
20,100.0	8,575.1	21,304.4	9,923.0	282.5	282.5	135.58	-821.5	10,972.9	1,886.0	1,468.8	417.18	4.521	
20,200.0	8,575.1	21,404.4	9,924.2	284.9	284.9	135.60	-821.3	11,072.9	1,886.9	1,466.2	420.62	4.486	
20,300.0	8,575.1	21,504.4	9,925.4	287.4	287.4	135.63	-821.2	11,172.9	1,887.7	1,463.7	424.05	4.452	
20,400.0	8,575.1	21,604.5	9,926.7	289.8	289.8	135.66	-821.1	11,272.8	1,888.6	1,461.1	427.49	4.418	
20,500.0	8,575.1	21,695.5	9,927.9	292.3	292.0	135.68	-821.0	11,372.8	1,889.5	1,458.8	430.76	4.387	
20,600.0	8,575.0	21,804.5	9,929.2	294.7	294.7	135.71	-820.8	11,472.8	1,890.4	1,456.1	434.35	4.352	
20,700.0	8,575.0	21,904.5	9,930.4	297.1	297.1	135.74	-820.7	11,572.8	1,891.3	1,453.5	437.77	4.320	
20,800.0	8,575.0	22,004.5	9,931.6	299.6	299.5	135.76	-820.6	11,672.8	1,892.2	1,451.0	441.19	4.289	
20,900.0	8,575.0	22,104.5	9,932.9	302.0	302.0	135.79	-820.4	11,772.8	1,893.1	1,448.5	444.62	4.258	
21,000.0	8,575.0	22,204.5	9,934.1	304.5	304.4	135.82	-820.3	11,872.8	1,894.0	1,446.0	448.03	4.227	
21,100.0	8,575.0	22,295.5	9,935.4	306.9	306.6	135.84	-820.2	11,972.7	1,894.9	1,443.6	451.29	4.199	
21,200.0	8,575.0	22,395.5	9,936.6	309.3	309.1	135.87	-820.1	12,072.7	1,895.8	1,441.1	454.70	4.169	
21,212.2	8,575.0	22,407.7	9,936.8	309.6	309.4	135.87	-820.0	12,084.9	1,895.9	1,440.8	455.12	4.166	

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 #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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 @ 3376.5usft

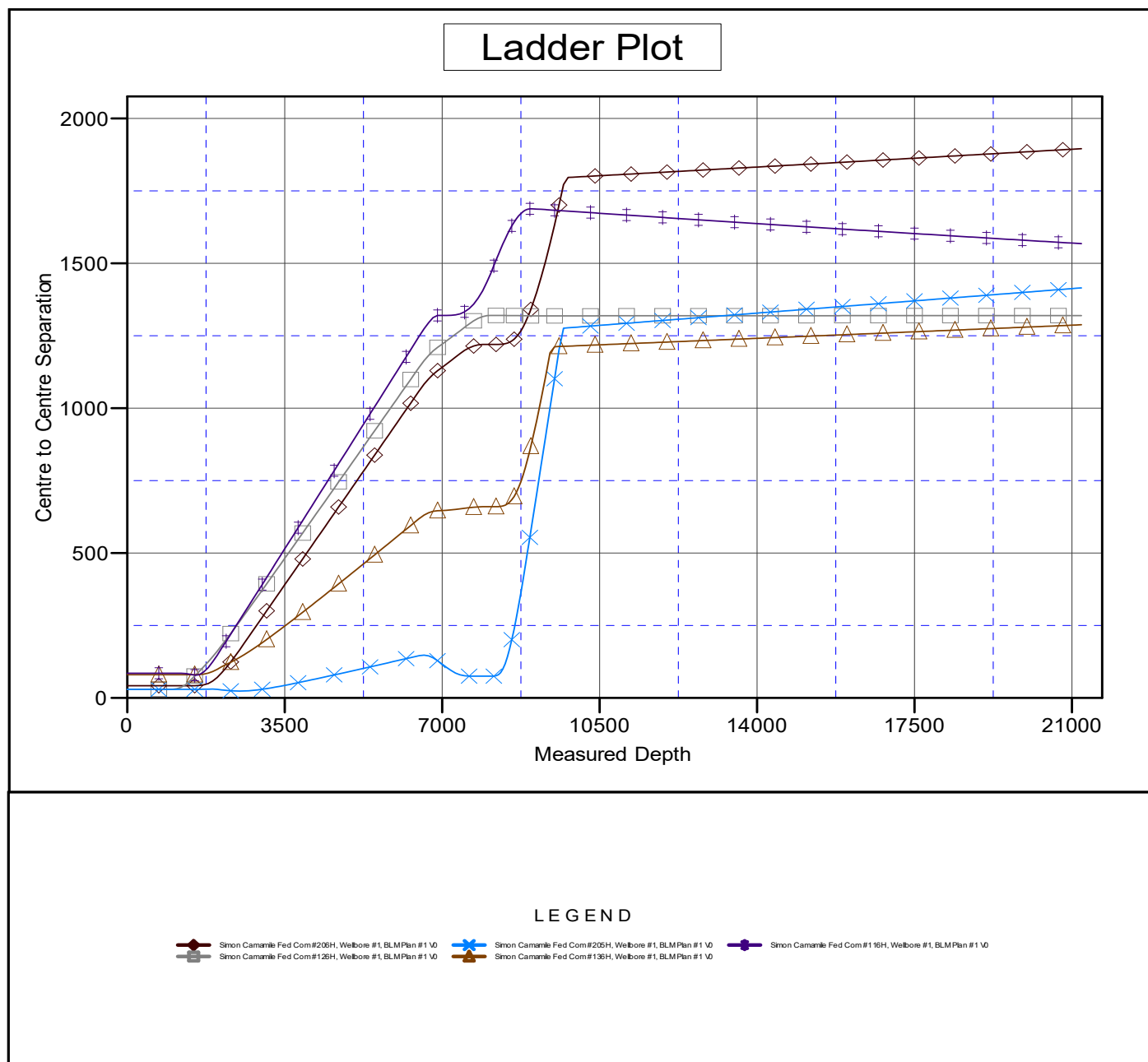
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile Fed Com #125H

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

Grid Convergence at Surface is: 0.15°



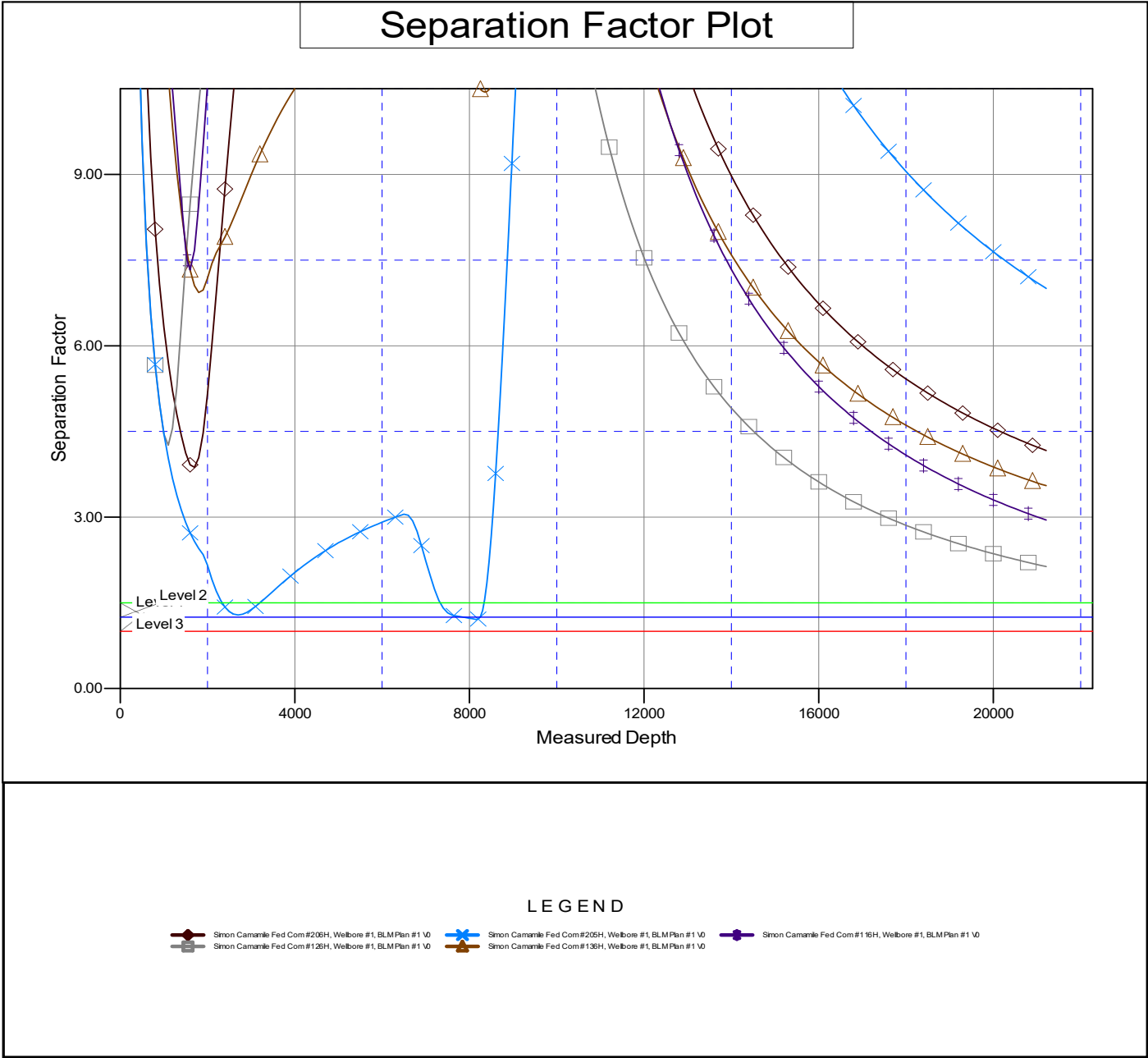
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com #125H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Simon Camamile Fed Com #125H	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 @ 3376.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile Fed Com #125H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.15°





SURVEY PROGRAM

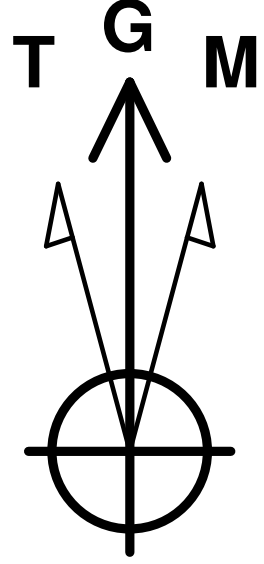
WELL DETAILS: Simon Camamile Fed Com #125H

Depth From	Depth To	Survey/Plan	Tool				GL @ 3348.0	KB @ 3376.5usft			
0.0	21212.2	BLM Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
				0.0	0.0	547699.99	583395.02	32° 30' 19.608 N	104° 3' 46.147 W		

Company: Matador Production Company
Well: Simon Camamile Fed Com #125H
County: Eddy County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 3/28/2024

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: 6.57°

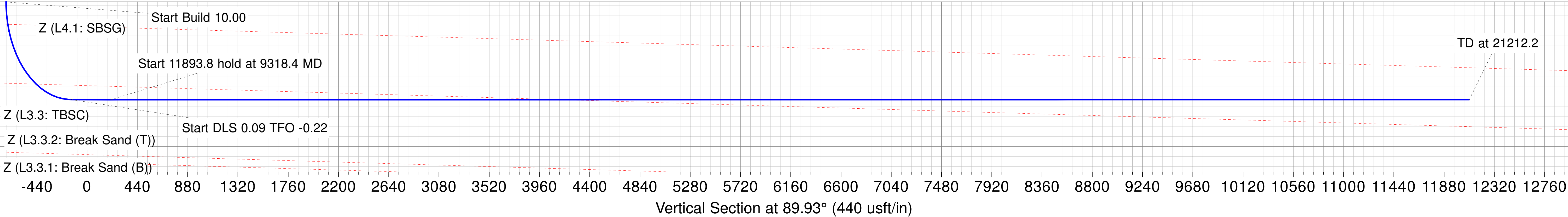
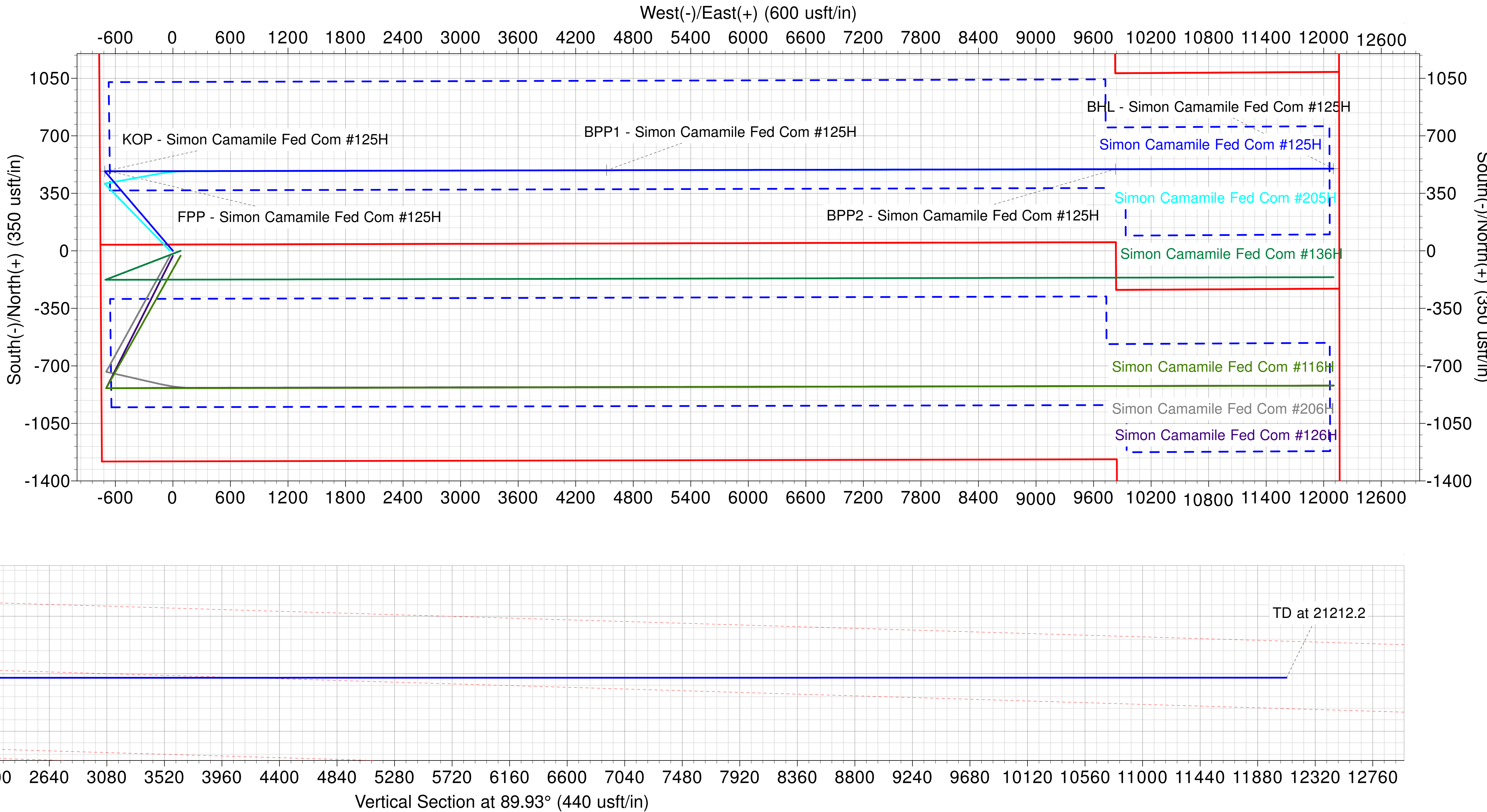
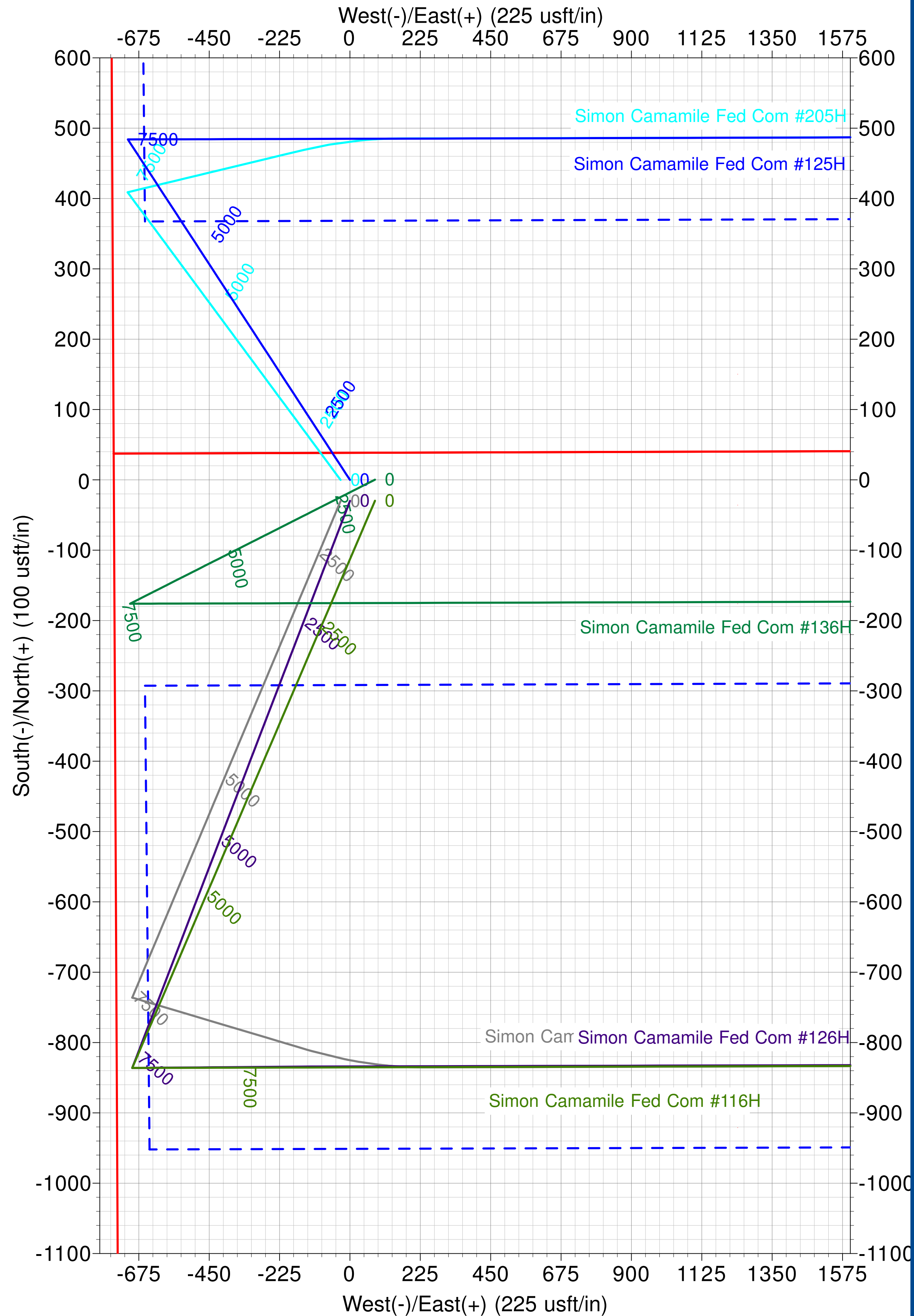
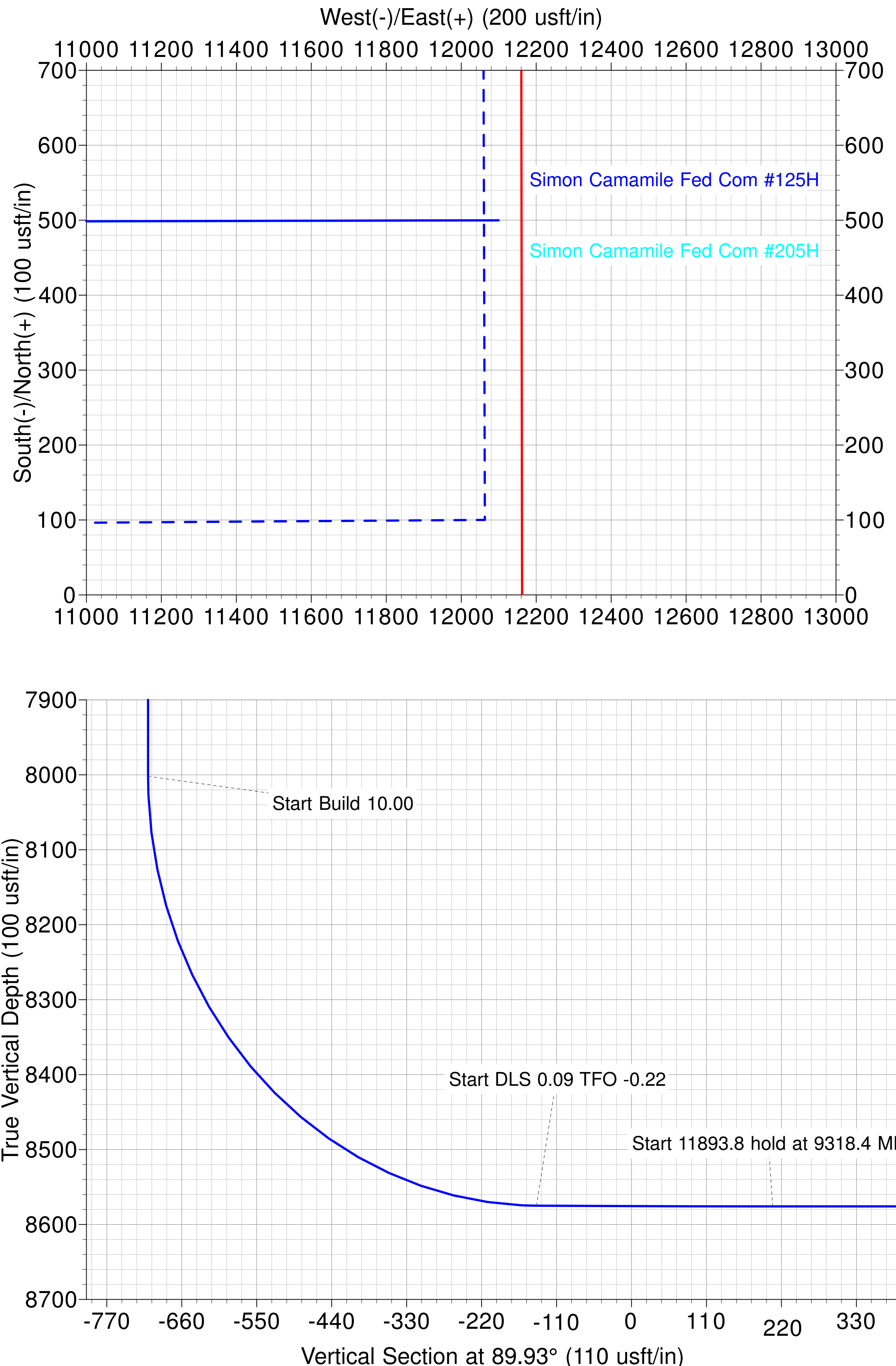
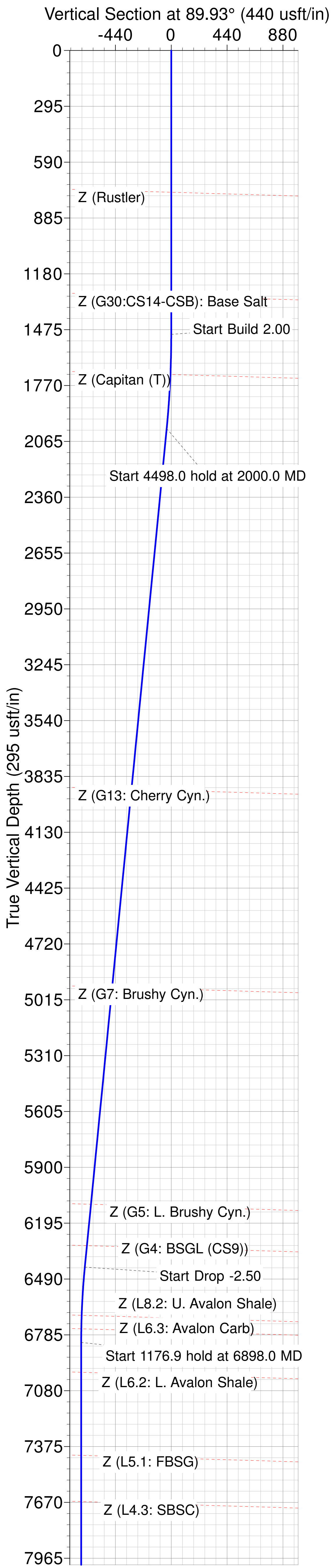
Magnetic Field
Strength: 47584.3snT
Dip Angle: 60.18°
Date: 1/7/2022
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Simon Camamile Fed Com #125H	8002.0	484.1	-710.1	548184.00	582685.00	32° 30' 24.416 N	104° 3' 54.424 W
BHL - Simon Camamile Fed Com #125H	8575.0	500.0	12100.1	548199.95	595494.95	32° 30' 24.230 N	104° 1' 24.833 W
BPP1 - Simon Camamile Fed Com #125H	8575.0	490.3	4521.6	548190.29	587916.38	32° 30' 24.343 N	104° 2' 53.333 W
BPP2 - Simon Camamile Fed Com #125H	8575.0	497.0	9829.2	548197.00	593224.00	32° 30' 24.265 N	104° 1' 51.353 W
FPP - Simon Camamile Fed Com #125H	8575.0	484.1	-660.1	548184.00	582735.00	32° 30' 24.414 N	104° 3' 53.840 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	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2000.0	10.00	304.28	1997.5	24.5	-36.0	2.00	304.28	-35.9	Start 4498.0 hold at 2000.0 MD
6498.0	10.00	304.28	6427.1	464.5	-681.3	0.00	0.00	-680.8	Start Drop -2.50
6898.0	0.00	0.00	6825.1	484.1	-710.1	2.50	180.00	-709.5	Start 1176.9 hold at 6898.0 MD
8074.9	0.00	0.00	8002.0	484.1	-710.1	0.00	0.00	-709.5	Start Build 10.00
8971.9	89.70	89.93	8574.9	484.8	-140.2	10.00	89.93	-139.6	Start DLS 0.09 TFO -0.22
9318.4	90.00	89.93	8575.8	485.2	206.4	0.09	-0.22	207.0	Start 11893.8 hold at 9318.4 MD
21212.2	90.00	89.93	8575.0	500.0	12100.1	0.00	0.00	12100.7	TD at 21212.2



Simon Camamile 0206 Fed Com 125H
SHL: 1280' FSL & 755' FWL Section 2
BHL: 2049' FSL & 2271' 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 #115H and make the following changes to the current APD:

- Change the well name from Simon Camamile 0206 Fed Com #115H to the Simon Camamile 0206 Fed Com #125H
- Deepen target formation from First Bone Spring 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: 21212' 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): 32.5069000 N / -104.0654588 W

TD Lat/Long (NAD83): 32.5068504 N / -104.0240655 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	595	595	154	Anhydrite	Barren
Salado (Top of Salt)	749	749	962	Salt	Barren
Capitan	1,712	1,711	2,191	Limestone	Barren
Cherry Canyon	3,934	3,902	1,046	Sandstone	Oil/Natural Gas
Brushy Canyon	4,996	4,948	1,365	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,382	6,313	1,108	Limestone	Oil/Natural Gas
1st Bone Spring Sand	7,494	7,421	244	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,738	7,665	468	Carbonate	Oil/Natural Gas
KOP	8,074	8,002	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	8,207	8,133	-	Sandstone	Oil/Natural Gas
TD	21,212	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.

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 - 3984	0 - 3952	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21212	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	751	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	320	1.38	444	13.2	35%	3187	A/C	5% NaCl + LCM
Production	Lead	250	3.66	921	12.5	25%	3784	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2110	1.35	2846	13.2	25%	8074	A/C	Fluid Loss + Dispersant + Retarder

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 - 3984	8.4 - 8.8	28-30	NC
Production	7.875	OBM/Cut Brine	3984 - 21212	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 334857

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334857
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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