

<b>Well Name:</b> MAMA JO 3531 FED COM	<b>Well Location:</b> T22S / R28E / SEC 35 / SESW / 32.3452479 / -104.0609995	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 223H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM67980	<b>Unit or CA Name:</b> MAMMA JO	<b>Unit or CA Number:</b> NMNM106737833
<b>US Well Number:</b> 3001556809	<b>Operator:</b> MATADOR PRODUCTION COMPANY	

**Notice of Intent**

**Sundry ID:** 2892304

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 01/28/2026

**Time Sundry Submitted:** 11:38

**Date proposed operation will begin:** 01/22/2026

**Procedure Description:** Matador request the option to amend the well design of the Mama Jo 3531 Fed Com 223H and make the following changes to the current APD: - Change the well name from Mama Jo 3531 Fed Com 223H to Mama Jo 3531 Fed Com 137H - Change well SHL from 1191' FSL & 1736' FWL section 35 to 1201' FSL & 1702' FWL section 35 - Change well BHL from 2028' FSL & 2184' FWL section 31 to 1758' FSL & 2407' FWL section 31 - Change well target from 10468' to 8800' TVD - Option to drill intermediate hole size of 8-3/4" OH - Option to run intermediate casing type of 7-5/8" MO-FXL - Revise casing set depths as described below. Cement volumes will be adjusted accordingly - Change pooling unit from Wolfcamp to Bone Spring - Option to perform a bradenhead squeeze on the intermediate string. The top of the primary tail slurry will be pumped to the top of the Brushy Canyon, bradenhead squeeze will be performed offline to fill the annulus to surface.

**NOI Attachments**

**Procedure Description**

- LO\_MAMA\_JO\_3531\_FED\_COM\_137H\_Signed\_20260128092850.pdf
- Mama\_Jo\_3531\_Fed\_Com\_137H\_Directional\_Well\_Plan\_20260128092726.pdf
- Mama\_Jo\_3531\_Fed\_Com\_137H\_Csg\_Specs\_7.625in\_29.7lb\_MO\_FXL\_20260128092726.pdf
- Mama\_Jo\_3531\_Fed\_Com\_137H\_Directional\_AC\_Report\_20260128092726.pdf
- Mama\_Jo\_3531\_Fed\_Com\_137H\_Directional\_Wall\_Plot\_20260128092726.pdf
- Mama\_Jo\_3531\_Fed\_Com\_137H\_Sundry\_Info\_NEW\_20260128092726.pdf

Well Name: MAMA JO 3531 FED COM

Well Location: T22S / R28E / SEC 35 / SESW / 32.3452479 / -104.0609995

County or Parish/State: EDDY / NM

Well Number: 223H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM67980

Unit or CA Name: MAMMA JO

Unit or CA Number: NMNM106737833

US Well Number: 3001556809

Operator: MATADOR PRODUCTION COMPANY

Mama\_Jo\_3531\_Fed\_Com\_137H\_Casing\_Table\_Spec\_20260128092726.pdf

Conditions of Approval

Additional

MAMA\_JO\_3531\_FED\_COM\_137H\_Drilling\_COA\_20260203115602.pdf

Operator

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

Operator Electronic Signature: NICKY FITZGERALD

Signed on: JAN 22, 2026 07:49 AM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory Consultant

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS

State: TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 02/03/2026

Signature: Chris Walls



## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Location of Well

0. SHL: SESW / 1191 FSL / 1736 FWL / TWSP: 22S / RANGE: 28E / SECTION: 35 / LAT: 32.3452479 / LONG: -104.0609995 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 1981 FSL / 2321 FEL / TWSP: 22S / RANGE: 28E / SECTION: 35 / LAT: 32.3474298 / LONG: -104.0570312 ( TVD: 10387 feet, MD: 10581 feet )

PPP: LOT 3 / 1952 FSL / 0 FWL / TWSP: 22S / RANGE: 29E / SECTION: 31 / LAT: 32.3474135 / LONG: -104.0319287 ( TVD: 10468 feet, MD: 18347 feet )

PPP: NESE / 1972 FSL / 0 FEL / TWSP: 22S / RANGE: 28E / SECTION: 35 / LAT: 32.3474255 / LONG: -104.049507 ( TVD: 10468 feet, MD: 12919 feet )

BHL: NESW / 2028 FSL / 2184 FWL / TWSP: 22S / RANGE: 29E / SECTION: 31 / LAT: 32.347408 / LONG: -104.0248579 ( TVD: 10468 feet, MD: 20532 feet )

CONFIDENTIAL

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b> MATADOR PRODUCTION COMPANY
<b>WELL NAME &amp; NO.:</b> MAMA JO 3531 FED COM 137H
<b>APD ID:</b> 10400103183
<b>LOCATION:</b> Section 35, T22S, R28E. NMP.
<b>COUNTY:</b> <span style="border: 1px solid black; padding: 2px;">Eddy County, New Mexico</span>

*Previously known as MAMA JO 3531 FED COM 223H. Changes approved through engineering via Sundry 2892304 on 02/03/2026. Any previous COAs not addressed within the updated COAs still apply.*

COA

H <sub>2</sub> S	<input type="radio"/> No		<input checked="" type="radio"/> Yes	
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> DV Tool
<b>Special Req</b>	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
<b>Waste Prev.</b>	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
<b>Additional Language</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

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

### A. HYDROGEN SULFIDE

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

### B. CASING PROGRAM

1. The **13-3/8 inch** surface casing shall be set at approximately **350 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The **7-5/8 inch** intermediate casing shall be set in a competent bed at approximately **8,234 ft.** (8,127 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** intermediate casing is:

**Option 1 (Single stage): Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst**.

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

- **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst**. Excess cement in the 2<sup>nd</sup> stage is less than 25%. More cement might be needed.

**Option 3 (Two-stage):** Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon** at 4,857 ft.
  - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. **Cement to surface.** If cement does not reach surface, the appropriate BLM office shall be notified. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Cave/Karst.
- ❖ Operator has proposed to pump down Surface × Intermediate 1 annulus after primary cementing stage. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to**

**tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3<sup>rd</sup> casing string must come to surface.

**Note:** The operator has requested the option to drill intermediate hole size of 8-3/4" and run 7-5/8" MO-FXL intermediate casing (Flush Joint). This option is granted.

3. Operator has proposed to set **5-1/2 in.** production casing at approximately **19,093 ft.** (8,800 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:
  - Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1.**

### Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals.** Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822.**

### C. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. The BOP/BOPE shall be pressure-tested in accordance with **title 43 CFR 3172.**
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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 **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

### **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)

**Contact Eddy County Petroleum Engineering Inspection Staff:**

Email or call the Carlsbad Field Office, 520 East Greene St., Carlsbad, NM 88220; [BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822.

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
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> 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 doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

**A. CASING & CEMENTING**

1. The current acceptable methods of cement verification are as follows:
  - i. Observing cement circulated to surface,
  - ii. Cement Bond Log (CBL),
  - iii. Temperature log within 8-10 hours after completing the cement job,
  - iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. 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.
3. 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 of both lead and tail cement, 2) until cement has been in place at least 8 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.

4. 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.
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. Whenever a casing string is cemented in the R-111-Q 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 **43 CFR 3172**.
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:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. 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.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. 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.
  - i. 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).
  - ii. 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.)
  - iii. 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 02/03/2026**

<b>C-102</b> Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
		<input type="checkbox"/> Initial Submittal
	Submittal Type:	<input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-015-56809	Pool Code 15011	Pool Name Culebra Bluff; Bone Spring , South
Property Code 337318	Property Name MAMA JO 3531 FED COM	Well Number 137H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3074'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	35	22-S	28-E	-	1201' S	1702' W	N 32.3452758	W 104.0611116	EDDY

**Bottom Hole Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
K	31	22-S	29-E	-	1758' S	2407' W	N 32.3466444	W 104.0241379	EDDY

Dedicated Acres 317.24	Infill or Defining Well Infill	Defining Well API 30-015-56683	Overlapping Spacing Unit (Y/N) Y	Consolidated Code C
Order Numbers N/A		Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

**Kick Off Point (KOP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	35	22-S	28-E	-	1651' S	2604' E	N 32.3465206	W 104.0579015	EDDY

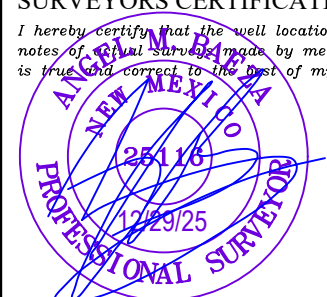
**First Take Point (FTP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	35	22-S	28-E	-	1651' S	2554' E	N 32.3465212	W 104.0577396	EDDY

**Last Take Point (LTP)**

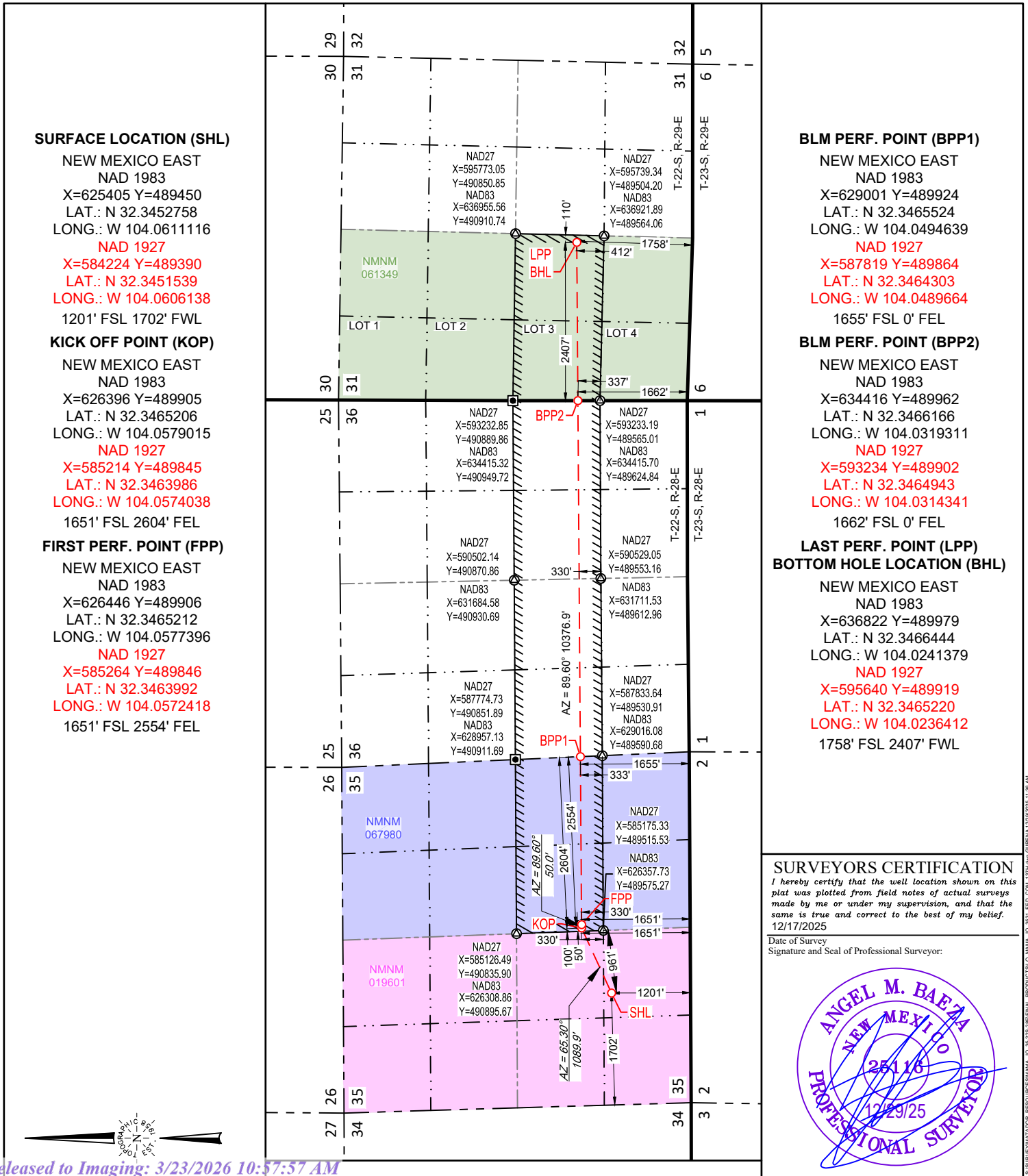
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
K	31	22-S	29-E	-	1758' S	2407' W	N 32.3466444	W 104.0241379	EDDY

Unitized Area or Area of Uniform Intrest N2SE4 of Sec 35, N2S2 of Sec 36, 22S-28E, and N2SW4 of Sec 31, 22S-29E	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3100'
--	--	---------------------------------

<p><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p style="text-align: right;"><i>Nicky Fitzgerald</i>      1/27/2026</p>	<p><b>SURVEYORS CERTIFICATION</b></p> <p><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 and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div> <p style="text-align: right;">12/29/25</p>
Signature Nicky Fitzgerald	Signature and Seal of Professional Surveyor
Date 1/27/2026	Date 12/29/25
Print Name nicky.fitzgerald@matadorresources.com	Certificate Number 25116
E-mail Address	Date of Survey 12/17/2025

S:\SURVEY\MATADOR\_RESOURCES\MAMA\_JO\_35-28-29E\NWA\_PROD\ENCL\O\_MAMA\_JO\_3531\_FED\_COM\_11791.mxd\GIBENA\_12292025 11:38 AM

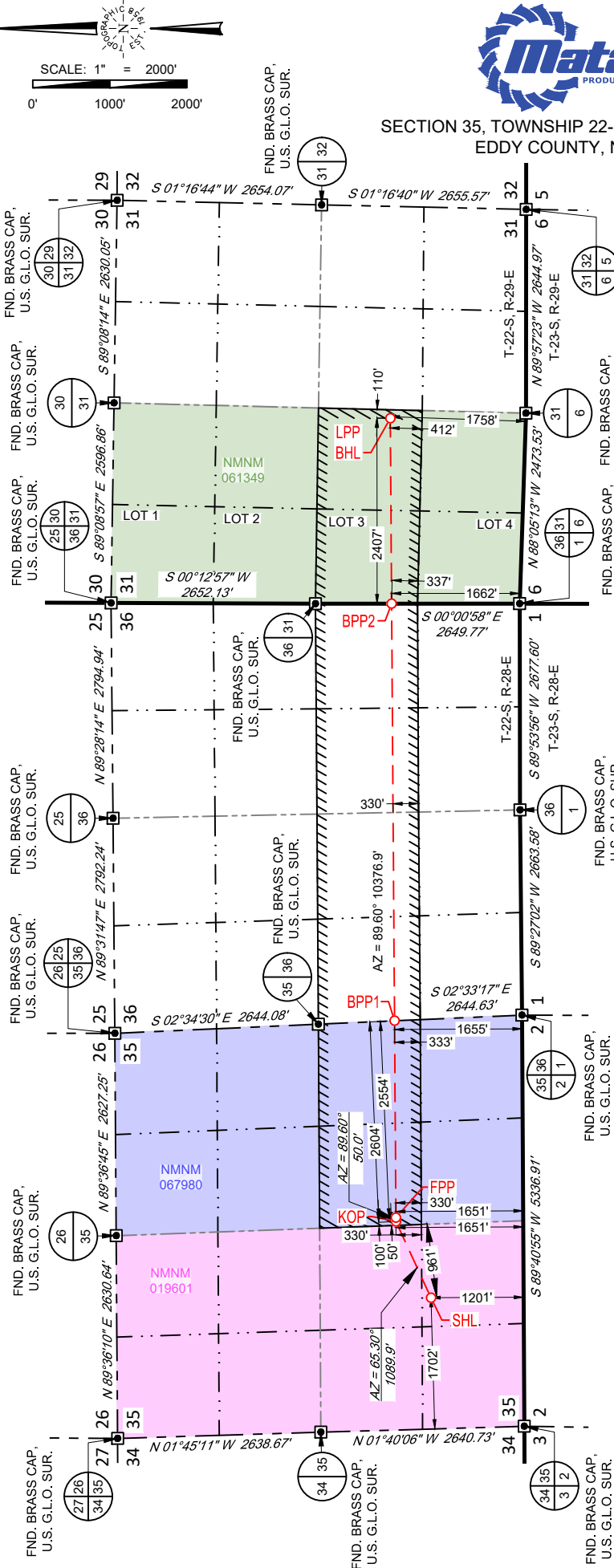
<p><b>C-102</b></p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals &amp; Natural Resources Department <b>OIL CONSERVATION DIVISION</b></p>	<p>Revised July 9, 2024</p>		
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; vertical-align: top;"> <p>Submittal Type:</p> </td> <td> <input type="checkbox"/> Initial Submittal  <input checked="" type="checkbox"/> Amended Report  <input type="checkbox"/> As Drilled                 </td> </tr> </table>	<p>Submittal Type:</p>	<input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
<p>Submittal Type:</p>	<input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled			
<p>Property Name and Well Number</p> <p style="text-align: center;"><b>MAMA JO 3531 FED COM 137H</b></p>				



S:\SURVEY\WATER\RESOURCE\SMAMA\_JO\_3531\_FED\_COM\_137H\ANG\_BURENA\_12292025\_1136.dwg



SECTION 35, TOWNSHIP 22-S, RANGE 28-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO



- SURFACE LOCATION (SHL)**  
NEW MEXICO EAST  
NAD 1983  
X=625405 Y=489450  
LAT.: N 32.3452758  
LONG.: W 104.0611116  
1201' FSL 1702' FWL
- KICK OFF POINT (KOP)**  
NEW MEXICO EAST  
NAD 1983  
X=626396 Y=489905  
LAT.: N 32.3465206  
LONG.: W 104.0579015  
1651' FSL 2604' FEL
- FIRST PERF. POINT (FPP)**  
NEW MEXICO EAST  
NAD 1983  
X=626446 Y=489906  
LAT.: N 32.3465212  
LONG.: W 104.0577396  
1651' FSL 2554' FEL
- BLM PERF. POINT (BPP1)**  
NEW MEXICO EAST  
NAD 1983  
X=629001 Y=489924  
LAT.: N 32.3465524  
LONG.: W 104.0494639  
1655' FSL 0' FEL
- BLM PERF. POINT (BPP2)**  
NEW MEXICO EAST  
NAD 1983  
X=634416 Y=489962  
LAT.: N 32.3466166  
LONG.: W 104.0319311  
1662' FSL 0' FEL
- LAST PERF. POINT (LPP)**
- BOTTOM HOLE LOCATION (BHL)**  
NEW MEXICO EAST  
NAD 1983  
X=636822 Y=489979  
LAT.: N 32.3466444  
LONG.: W 104.0241379  
1758' FSL 2407' FWL

LEASE NAME & WELL NO.: MAMA JO 3531 FED COM 137H

SECTION 35 TWP 22-S RGE 28-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM  
DESCRIPTION 1201' FSL & 1702' FWL

**DISTANCE & DIRECTION**  
FROM INT. OF NM-128 W & NM-31, GO SOUTHWEST ON NM-31 ±2.4 MILES, THENCE NORTHWEST (RIGHT) ON REFINERY RD./U.S. REFINERY RD. ±2.3 MILES, THENCE NORTHEAST (RIGHT) ON A LEASE RD. ±0.1 MILES, THENCE NORTHWEST (LEFT) ON A LEASE RD. ±0.2 MILES, THENCE NORTH (RIGHT) ON A LEASE RD. ±0.1 MILES, THENCE SOUTHWEST (LEFT) ON A PROPOSED RD. ±56 FEET TO A POINT ±355 FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET  
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.  
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



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



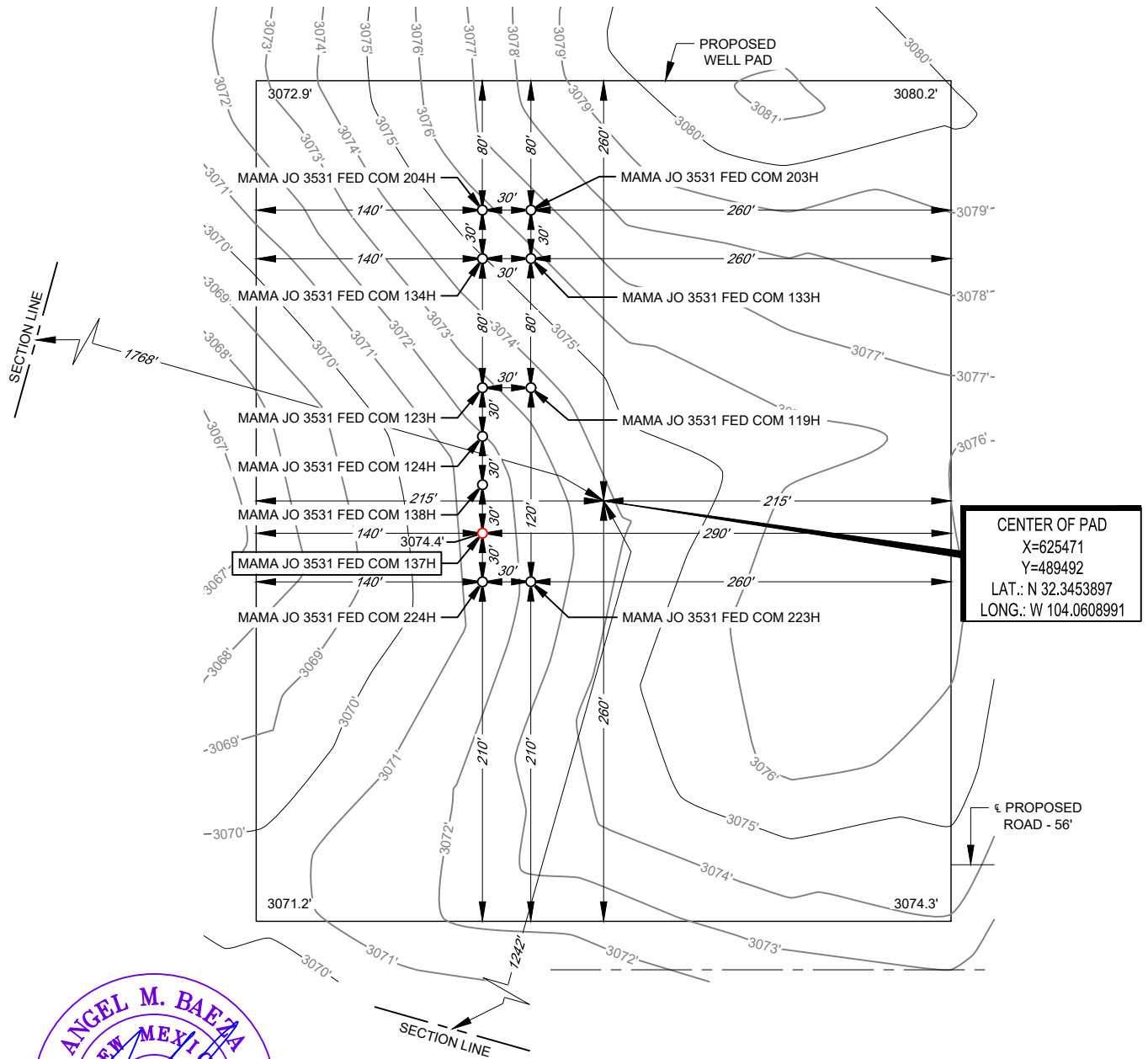
481 WINSKOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
808 WEST INDIANA • MIDLAND, TEXAS 79701  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM



LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- PROPOSED ROAD

SECTION 35, TOWNSHIP 22-S, RANGE 28-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO



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

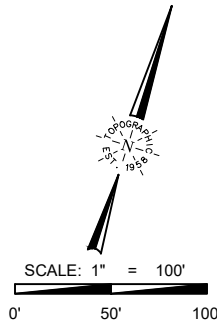
LEASE NAME & WELL NO.: MAMA JO 3531 FED COM 137H  
 137H LATITUDE N 32.3452758 137H LONGITUDE W 104.0611116

CENTER OF PAD IS 1242' FSL & 1768' FWL

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"



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 WWW.TOPOGRAPHIC.COM

# **Matador Production Company**

**Rustler Breaks**

**Mama Jo 3531**

**Mama Jo 3531 Fed Com #137H**

**Wellbore #1**

**Plan: BLM Plan #1**

## **Standard Planning Report**

**13 January, 2026**

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

<b>Project</b>	Rustler Breaks,		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

<b>Site</b>	Mama Jo 3531				
<b>Site Position:</b>		<b>Northing:</b>	489,447.57 usft	<b>Latitude:</b>	32° 20' 43.125 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	584,204.94 usft	<b>Longitude:</b>	104° 3' 38.425 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.15 °

<b>Well</b>	Mama Jo 3531 Fed Com #137H					
<b>Well Position</b>	<b>+N/-S</b>	-57.6 usft	<b>Northing:</b>	489,389.96 usft	<b>Latitude:</b>	32° 20' 42.554 N
	<b>+E/-W</b>	18.6 usft	<b>Easting:</b>	584,223.53 usft	<b>Longitude:</b>	104° 3' 38.210 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,074.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	10/1/2024	6.40	60.00	47,212.91284748

<b>Design</b>	BLM Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	89.60

<b>Plan Survey Tool Program</b>	<b>Date</b>	1/13/2026			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.0	19,093.0 BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

<b>Plan Sections</b>										
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	
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,911.4	11.23	60.73	1,907.8	26.8	47.8	2.00	2.00	0.00	60.73	
7,085.9	11.23	60.73	6,983.3	519.3	926.7	0.00	0.00	0.00	0.00	
7,834.4	0.00	0.00	7,727.0	555.0	990.5	1.50	-1.50	0.00	180.00	
8,334.4	0.00	0.00	8,227.0	555.0	990.5	0.00	0.00	0.00	0.00	KOP - Mama Jo 3531
9,234.4	90.00	97.10	8,800.0	484.2	1,559.0	10.00	10.00	0.00	97.10	
9,609.5	90.00	89.60	8,800.0	462.3	1,933.3	2.00	0.00	-2.00	-90.00	
19,093.0	90.00	89.60	8,800.0	529.0	11,416.5	0.00	0.00	0.00	0.00	BHL - Mama Jo 3531

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
84.0	0.00	0.00	84.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Rustler)</b>									
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
470.0	0.00	0.00	470.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Salado)</b>									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,277.0	0.00	0.00	1,277.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Castile (T))</b>									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Start Build 2.00</b>									
1,400.0	1.00	60.73	1,400.0	0.2	0.4	0.4	2.00	2.00	0.00
1,500.0	3.00	60.73	1,499.9	1.9	3.4	3.4	2.00	2.00	0.00
1,600.0	5.00	60.73	1,599.7	5.3	9.5	9.5	2.00	2.00	0.00
1,700.0	7.00	60.73	1,699.1	10.4	18.6	18.7	2.00	2.00	0.00
1,800.0	9.00	60.73	1,798.2	17.2	30.8	30.9	2.00	2.00	0.00
1,900.0	11.00	60.73	1,896.6	25.7	45.9	46.1	2.00	2.00	0.00
1,911.4	11.23	60.73	1,907.8	26.8	47.8	48.0	2.00	2.00	0.00
<b>Start 5174.6 hold at 1911.4 MD</b>									
2,000.0	11.23	60.73	1,994.7	35.2	62.9	63.1	0.00	0.00	0.00
2,100.0	11.23	60.73	2,092.8	44.8	79.9	80.2	0.00	0.00	0.00
2,200.0	11.23	60.73	2,190.9	54.3	96.9	97.2	0.00	0.00	0.00
2,300.0	11.23	60.73	2,289.0	63.8	113.8	114.3	0.00	0.00	0.00
2,400.0	11.23	60.73	2,387.1	73.3	130.8	131.3	0.00	0.00	0.00
2,500.0	11.23	60.73	2,485.1	82.8	147.8	148.4	0.00	0.00	0.00
2,600.0	11.23	60.73	2,583.2	92.3	164.8	165.4	0.00	0.00	0.00
2,700.0	11.23	60.73	2,681.3	101.9	181.8	182.5	0.00	0.00	0.00
2,754.7	11.23	60.73	2,735.0	107.1	191.1	191.8	0.00	0.00	0.00
<b>Z (G30:CS14-CSB)</b>									
2,800.0	11.23	60.73	2,779.4	111.4	198.8	199.5	0.00	0.00	0.00
2,802.6	11.23	60.73	2,782.0	111.6	199.2	200.0	0.00	0.00	0.00
<b>Z (G26: Bell Cyn.)</b>									
2,900.0	11.23	60.73	2,877.5	120.9	215.7	216.6	0.00	0.00	0.00
3,000.0	11.23	60.73	2,975.6	130.4	232.7	233.6	0.00	0.00	0.00
3,100.0	11.23	60.73	3,073.7	139.9	249.7	250.7	0.00	0.00	0.00
3,200.0	11.23	60.73	3,171.8	149.5	266.7	267.7	0.00	0.00	0.00
3,300.0	11.23	60.73	3,269.8	159.0	283.7	284.8	0.00	0.00	0.00
3,400.0	11.23	60.73	3,367.9	168.5	300.7	301.8	0.00	0.00	0.00
3,500.0	11.23	60.73	3,466.0	178.0	317.7	318.9	0.00	0.00	0.00
3,593.8	11.23	60.73	3,558.0	186.9	333.6	334.9	0.00	0.00	0.00
<b>Z (G16: Manzanita)</b>									
3,600.0	11.23	60.73	3,564.1	187.5	334.6	335.9	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,644.8	11.23	60.73	3,608.0	191.8	342.2	343.6	0.00	0.00	0.00	
<b>Z (G13: Cherry Cyn.)</b>										
3,700.0	11.23	60.73	3,662.2	197.0	351.6	353.0	0.00	0.00	0.00	
3,800.0	11.23	60.73	3,760.3	206.6	368.6	370.0	0.00	0.00	0.00	
3,900.0	11.23	60.73	3,858.4	216.1	385.6	387.1	0.00	0.00	0.00	
4,000.0	11.23	60.73	3,956.4	225.6	402.6	404.1	0.00	0.00	0.00	
4,100.0	11.23	60.73	4,054.5	235.1	419.6	421.2	0.00	0.00	0.00	
4,200.0	11.23	60.73	4,152.6	244.6	436.5	438.2	0.00	0.00	0.00	
4,300.0	11.23	60.73	4,250.7	254.1	453.5	455.3	0.00	0.00	0.00	
4,400.0	11.23	60.73	4,348.8	263.7	470.5	472.3	0.00	0.00	0.00	
4,500.0	11.23	60.73	4,446.9	273.2	487.5	489.4	0.00	0.00	0.00	
4,600.0	11.23	60.73	4,545.0	282.7	504.5	506.4	0.00	0.00	0.00	
4,700.0	11.23	60.73	4,643.0	292.2	521.5	523.5	0.00	0.00	0.00	
4,800.0	11.23	60.73	4,741.1	301.7	538.5	540.5	0.00	0.00	0.00	
4,867.1	11.23	60.73	4,807.0	308.1	549.9	552.0	0.00	0.00	0.00	
<b>Z (G7: Brushy Cyn.)</b>										
4,900.0	11.23	60.73	4,839.2	311.3	555.4	557.6	0.00	0.00	0.00	
5,000.0	11.23	60.73	4,937.3	320.8	572.4	574.6	0.00	0.00	0.00	
5,100.0	11.23	60.73	5,035.4	330.3	589.4	591.7	0.00	0.00	0.00	
5,200.0	11.23	60.73	5,133.5	339.8	606.4	608.7	0.00	0.00	0.00	
5,300.0	11.23	60.73	5,231.6	349.3	623.4	625.8	0.00	0.00	0.00	
5,400.0	11.23	60.73	5,329.7	358.8	640.4	642.9	0.00	0.00	0.00	
5,500.0	11.23	60.73	5,427.7	368.4	657.3	659.9	0.00	0.00	0.00	
5,600.0	11.23	60.73	5,525.8	377.9	674.3	677.0	0.00	0.00	0.00	
5,700.0	11.23	60.73	5,623.9	387.4	691.3	694.0	0.00	0.00	0.00	
5,800.0	11.23	60.73	5,722.0	396.9	708.3	711.1	0.00	0.00	0.00	
5,900.0	11.23	60.73	5,820.1	406.4	725.3	728.1	0.00	0.00	0.00	
6,000.0	11.23	60.73	5,918.2	416.0	742.3	745.2	0.00	0.00	0.00	
6,100.0	11.23	60.73	6,016.3	425.5	759.3	762.2	0.00	0.00	0.00	
6,200.0	11.23	60.73	6,114.3	435.0	776.2	779.3	0.00	0.00	0.00	
6,300.0	11.23	60.73	6,212.4	444.5	793.2	796.3	0.00	0.00	0.00	
6,374.0	11.23	60.73	6,285.0	451.5	805.8	808.9	0.00	0.00	0.00	
<b>Z (G4: BSGL (CS9))</b>										
6,400.0	11.23	60.73	6,310.5	454.0	810.2	813.4	0.00	0.00	0.00	
6,500.0	11.23	60.73	6,408.6	463.5	827.2	830.4	0.00	0.00	0.00	
6,600.0	11.23	60.73	6,506.7	473.1	844.2	847.5	0.00	0.00	0.00	
6,700.0	11.23	60.73	6,604.8	482.6	861.2	864.5	0.00	0.00	0.00	
6,800.0	11.23	60.73	6,702.9	492.1	878.1	881.6	0.00	0.00	0.00	
6,822.6	11.23	60.73	6,725.0	494.2	882.0	885.4	0.00	0.00	0.00	
<b>Z (L8.2: U. Avalon Shale)</b>										
6,900.0	11.23	60.73	6,800.9	501.6	895.1	898.6	0.00	0.00	0.00	
6,912.3	11.23	60.73	6,813.0	502.8	897.2	900.7	0.00	0.00	0.00	
<b>Z (L6.3: Avalon Carb)</b>										
7,000.0	11.23	60.73	6,899.0	511.1	912.1	915.7	0.00	0.00	0.00	
7,037.7	11.23	60.73	6,936.0	514.7	918.5	922.1	0.00	0.00	0.00	
<b>Z (L6.2: L. Avalon Shale)</b>										
7,085.9	11.23	60.73	6,983.3	519.3	926.7	930.3	0.00	0.00	0.00	
<b>Start Drop -1.50</b>										
7,100.0	11.02	60.73	6,997.1	520.6	929.1	932.7	1.50	-1.50	0.00	
7,170.0	9.97	60.73	7,066.0	526.9	940.2	943.9	1.50	-1.50	0.00	
<b>Z (L5.3: FBSC)</b>										
7,200.0	9.52	60.73	7,095.5	529.3	944.6	948.3	1.50	-1.50	0.00	
7,300.0	8.02	60.73	7,194.4	536.8	957.9	961.6	1.50	-1.50	0.00	

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,399.4	6.52	60.73	7,293.0	542.9	968.9	972.7	1.50	-1.50	0.00	
<b>Z (L5.1: FBSSG)</b>										
7,400.0	6.52	60.73	7,293.5	543.0	969.0	972.7	1.50	-1.50	0.00	
7,460.8	5.60	60.73	7,354.0	546.1	974.6	978.3	1.50	-1.50	0.00	
<b>Z (M. FBSSG)</b>										
7,500.0	5.02	60.73	7,393.0	547.9	977.7	981.5	1.50	-1.50	0.00	
7,579.2	3.83	60.73	7,472.0	550.9	983.0	986.9	1.50	-1.50	0.00	
<b>Z (L. FBSSG)</b>										
7,600.0	3.52	60.73	7,492.8	551.5	984.2	988.0	1.50	-1.50	0.00	
7,647.3	2.81	60.73	7,540.0	552.8	986.5	990.3	1.50	-1.50	0.00	
<b>Z (L4.3: SBSC)</b>										
7,700.0	2.02	60.73	7,592.6	553.9	988.4	992.3	1.50	-1.50	0.00	
7,800.0	0.52	60.73	7,692.6	555.0	990.3	994.2	1.50	-1.50	0.00	
7,834.4	0.00	0.00	7,727.0	555.0	990.5	994.3	1.50	-1.50	0.00	
<b>Start 500.0 hold at 7834.4 MD</b>										
7,900.0	0.00	0.00	7,792.6	555.0	990.5	994.3	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,892.6	555.0	990.5	994.3	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,992.6	555.0	990.5	994.3	0.00	0.00	0.00	
8,149.4	0.00	0.00	8,042.0	555.0	990.5	994.3	0.00	0.00	0.00	
<b>Z (L4.1: SBSC)</b>										
8,200.0	0.00	0.00	8,092.6	555.0	990.5	994.3	0.00	0.00	0.00	
8,258.4	0.00	0.00	8,151.0	555.0	990.5	994.3	0.00	0.00	0.00	
<b>Z (L4.1: SBSC B Carb)</b>										
8,300.0	0.00	0.00	8,192.6	555.0	990.5	994.3	0.00	0.00	0.00	
8,334.4	0.00	0.00	8,227.0	555.0	990.5	994.3	0.00	0.00	0.00	
<b>Start Build 10.00 - KOP - Mama Jo 3531 Fed Com #137H</b>										
8,365.4	3.10	97.10	8,258.0	554.9	991.3	995.2	10.00	10.00	0.00	
<b>Z (SBSC B Target)</b>										
8,400.0	6.56	97.10	8,292.5	554.6	994.2	998.0	10.00	10.00	0.00	
8,500.0	16.56	97.10	8,390.3	552.1	1,014.1	1,017.9	10.00	10.00	0.00	
8,530.2	19.58	97.10	8,419.0	550.9	1,023.4	1,027.2	10.00	10.00	0.00	
<b>Z (L3.3: TBSC)</b>										
8,575.3	24.09	97.10	8,460.9	548.9	1,040.0	1,043.8	10.00	10.00	0.00	
<b>FPP - Mama Jo 3531 Fed Com #137H</b>										
8,600.0	26.56	97.10	8,483.2	547.6	1,050.5	1,054.3	10.00	10.00	0.00	
8,700.0	36.56	97.10	8,568.3	541.1	1,102.4	1,106.1	10.00	10.00	0.00	
8,800.0	46.56	97.10	8,643.0	532.9	1,168.1	1,171.8	10.00	10.00	0.00	
8,900.0	56.56	97.10	8,705.1	523.2	1,245.7	1,249.4	10.00	10.00	0.00	
9,000.0	66.56	97.10	8,752.7	512.4	1,332.9	1,336.4	10.00	10.00	0.00	
9,000.8	66.64	97.10	8,753.0	512.3	1,333.6	1,337.2	10.00	10.00	0.00	
<b>Z (L3.3.2: Break Sand (T))</b>										
9,100.0	76.56	97.10	8,784.3	500.7	1,426.9	1,430.4	10.00	10.00	0.00	
9,200.0	86.56	97.10	8,798.9	488.5	1,524.9	1,528.3	10.00	10.00	0.00	
9,234.4	90.00	97.10	8,800.0	484.2	1,559.0	1,562.4	10.00	10.00	0.00	
<b>Start DLS 2.00 TFO -90.00</b>										
9,300.0	90.00	95.79	8,800.0	476.9	1,624.2	1,627.5	2.00	0.00	-2.00	
9,400.0	90.00	93.79	8,800.0	468.5	1,723.9	1,727.1	2.00	0.00	-2.00	
9,500.0	90.00	91.79	8,800.0	463.6	1,823.8	1,827.0	2.00	0.00	-2.00	
9,600.0	90.00	89.79	8,800.0	462.3	1,923.7	1,926.9	2.00	0.00	-2.00	
9,609.5	90.00	89.60	8,800.0	462.3	1,933.3	1,936.5	2.00	0.00	-2.00	
<b>Start 9483.4 hold at 9609.5 MD</b>										
9,700.0	90.00	89.60	8,800.0	463.0	2,023.7	2,026.9	0.00	0.00	0.00	
9,800.0	90.00	89.60	8,800.0	463.7	2,123.7	2,126.9	0.00	0.00	0.00	

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	90.00	89.60	8,800.0	464.4	2,223.7	2,226.9	0.00	0.00	0.00
10,000.0	90.00	89.60	8,800.0	465.1	2,323.7	2,326.9	0.00	0.00	0.00
10,100.0	90.00	89.60	8,800.0	465.8	2,423.7	2,426.9	0.00	0.00	0.00
10,200.0	90.00	89.60	8,800.0	466.5	2,523.7	2,526.9	0.00	0.00	0.00
10,300.0	90.00	89.60	8,800.0	467.2	2,623.7	2,626.9	0.00	0.00	0.00
10,400.0	90.00	89.60	8,800.0	467.9	2,723.7	2,726.9	0.00	0.00	0.00
10,500.0	90.00	89.60	8,800.0	468.6	2,823.7	2,826.9	0.00	0.00	0.00
10,600.0	90.00	89.60	8,800.0	469.3	2,923.7	2,926.9	0.00	0.00	0.00
10,700.0	90.00	89.60	8,800.0	470.0	3,023.7	3,026.9	0.00	0.00	0.00
10,800.0	90.00	89.60	8,800.0	470.7	3,123.7	3,126.9	0.00	0.00	0.00
10,900.0	90.00	89.60	8,800.0	471.4	3,223.7	3,226.9	0.00	0.00	0.00
11,000.0	90.00	89.60	8,800.0	472.1	3,323.7	3,326.9	0.00	0.00	0.00
11,100.0	90.00	89.60	8,800.0	472.8	3,423.7	3,426.9	0.00	0.00	0.00
11,200.0	90.00	89.60	8,800.0	473.5	3,523.7	3,526.9	0.00	0.00	0.00
11,271.3	90.00	89.60	8,800.0	474.0	3,595.0	3,598.2	0.00	0.00	0.00
<b>BPP1 - Mama Jo 3531 Fed Com #137H</b>									
11,300.0	90.00	89.60	8,800.0	474.2	3,623.7	3,626.9	0.00	0.00	0.00
11,400.0	90.00	89.60	8,800.0	474.9	3,723.7	3,726.9	0.00	0.00	0.00
11,500.0	90.00	89.60	8,800.0	475.6	3,823.7	3,826.9	0.00	0.00	0.00
11,600.0	90.00	89.60	8,800.0	476.3	3,923.7	3,926.9	0.00	0.00	0.00
11,700.0	90.00	89.60	8,800.0	477.0	4,023.7	4,026.9	0.00	0.00	0.00
11,800.0	90.00	89.60	8,800.0	477.7	4,123.7	4,126.9	0.00	0.00	0.00
11,900.0	90.00	89.60	8,800.0	478.4	4,223.7	4,226.9	0.00	0.00	0.00
12,000.0	90.00	89.60	8,800.0	479.1	4,323.7	4,326.9	0.00	0.00	0.00
12,100.0	90.00	89.60	8,800.0	479.8	4,423.7	4,426.9	0.00	0.00	0.00
12,200.0	90.00	89.60	8,800.0	480.5	4,523.7	4,526.9	0.00	0.00	0.00
12,300.0	90.00	89.60	8,800.0	481.3	4,623.7	4,626.9	0.00	0.00	0.00
12,400.0	90.00	89.60	8,800.0	482.0	4,723.7	4,726.9	0.00	0.00	0.00
12,500.0	90.00	89.60	8,800.0	482.7	4,823.7	4,826.9	0.00	0.00	0.00
12,600.0	90.00	89.60	8,800.0	483.4	4,923.7	4,926.9	0.00	0.00	0.00
12,700.0	90.00	89.60	8,800.0	484.1	5,023.7	5,026.9	0.00	0.00	0.00
12,800.0	90.00	89.60	8,800.0	484.8	5,123.7	5,126.9	0.00	0.00	0.00
12,900.0	90.00	89.60	8,800.0	485.5	5,223.7	5,226.9	0.00	0.00	0.00
13,000.0	90.00	89.60	8,800.0	486.2	5,323.7	5,326.9	0.00	0.00	0.00
13,100.0	90.00	89.60	8,800.0	486.9	5,423.7	5,426.9	0.00	0.00	0.00
13,200.0	90.00	89.60	8,800.0	487.6	5,523.7	5,526.9	0.00	0.00	0.00
13,300.0	90.00	89.60	8,800.0	488.3	5,623.7	5,626.9	0.00	0.00	0.00
13,400.0	90.00	89.60	8,800.0	489.0	5,723.6	5,726.9	0.00	0.00	0.00
13,500.0	90.00	89.60	8,800.0	489.7	5,823.6	5,826.9	0.00	0.00	0.00
13,600.0	90.00	89.60	8,800.0	490.4	5,923.6	5,926.9	0.00	0.00	0.00
13,700.0	90.00	89.60	8,800.0	491.1	6,023.6	6,026.9	0.00	0.00	0.00
13,800.0	90.00	89.60	8,800.0	491.8	6,123.6	6,126.9	0.00	0.00	0.00
13,900.0	90.00	89.60	8,800.0	492.5	6,223.6	6,226.9	0.00	0.00	0.00
14,000.0	90.00	89.60	8,800.0	493.2	6,323.6	6,326.9	0.00	0.00	0.00
14,100.0	90.00	89.60	8,800.0	493.9	6,423.6	6,426.9	0.00	0.00	0.00
14,200.0	90.00	89.60	8,800.0	494.6	6,523.6	6,526.9	0.00	0.00	0.00
14,300.0	90.00	89.60	8,800.0	495.3	6,623.6	6,626.9	0.00	0.00	0.00
14,400.0	90.00	89.60	8,800.0	496.0	6,723.6	6,726.9	0.00	0.00	0.00
14,500.0	90.00	89.60	8,800.0	496.7	6,823.6	6,826.9	0.00	0.00	0.00
14,600.0	90.00	89.60	8,800.0	497.4	6,923.6	6,926.9	0.00	0.00	0.00
14,700.0	90.00	89.60	8,800.0	498.1	7,023.6	7,026.9	0.00	0.00	0.00
14,800.0	90.00	89.60	8,800.0	498.8	7,123.6	7,126.9	0.00	0.00	0.00
14,900.0	90.00	89.60	8,800.0	499.5	7,223.6	7,226.9	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,000.0	90.00	89.60	8,800.0	500.2	7,323.6	7,326.9	0.00	0.00	0.00	
15,100.0	90.00	89.60	8,800.0	500.9	7,423.6	7,426.9	0.00	0.00	0.00	
15,200.0	90.00	89.60	8,800.0	501.7	7,523.6	7,526.9	0.00	0.00	0.00	
15,300.0	90.00	89.60	8,800.0	502.4	7,623.6	7,626.9	0.00	0.00	0.00	
15,400.0	90.00	89.60	8,800.0	503.1	7,723.6	7,726.9	0.00	0.00	0.00	
15,500.0	90.00	89.60	8,800.0	503.8	7,823.6	7,826.9	0.00	0.00	0.00	
15,600.0	90.00	89.60	8,800.0	504.5	7,923.6	7,926.9	0.00	0.00	0.00	
15,700.0	90.00	89.60	8,800.0	505.2	8,023.6	8,026.9	0.00	0.00	0.00	
15,800.0	90.00	89.60	8,800.0	505.9	8,123.6	8,126.9	0.00	0.00	0.00	
15,900.0	90.00	89.60	8,800.0	506.6	8,223.6	8,226.9	0.00	0.00	0.00	
16,000.0	90.00	89.60	8,800.0	507.3	8,323.6	8,326.9	0.00	0.00	0.00	
16,100.0	90.00	89.60	8,800.0	508.0	8,423.6	8,426.9	0.00	0.00	0.00	
16,200.0	90.00	89.60	8,800.0	508.7	8,523.6	8,526.9	0.00	0.00	0.00	
16,300.0	90.00	89.60	8,800.0	509.4	8,623.6	8,626.9	0.00	0.00	0.00	
16,400.0	90.00	89.60	8,800.0	510.1	8,723.6	8,726.9	0.00	0.00	0.00	
16,500.0	90.00	89.60	8,800.0	510.8	8,823.6	8,826.9	0.00	0.00	0.00	
16,600.0	90.00	89.60	8,800.0	511.5	8,923.6	8,926.9	0.00	0.00	0.00	
16,686.4	90.00	89.60	8,800.0	512.1	9,010.0	9,013.4	0.00	0.00	0.00	
<b>BPP2 - Mama Jo 3531 Fed Com #137H</b>										
16,700.0	90.00	89.60	8,800.0	512.2	9,023.6	9,026.9	0.00	0.00	0.00	
16,800.0	90.00	89.60	8,800.0	512.9	9,123.6	9,126.9	0.00	0.00	0.00	
16,900.0	90.00	89.60	8,800.0	513.6	9,223.6	9,226.9	0.00	0.00	0.00	
17,000.0	90.00	89.60	8,800.0	514.3	9,323.6	9,326.9	0.00	0.00	0.00	
17,100.0	90.00	89.60	8,800.0	515.0	9,423.6	9,426.9	0.00	0.00	0.00	
17,200.0	90.00	89.60	8,800.0	515.7	9,523.6	9,526.9	0.00	0.00	0.00	
17,300.0	90.00	89.60	8,800.0	516.4	9,623.6	9,626.9	0.00	0.00	0.00	
17,400.0	90.00	89.60	8,800.0	517.1	9,723.6	9,726.9	0.00	0.00	0.00	
17,500.0	90.00	89.60	8,800.0	517.8	9,823.5	9,826.9	0.00	0.00	0.00	
17,600.0	90.00	89.60	8,800.0	518.5	9,923.5	9,926.9	0.00	0.00	0.00	
17,700.0	90.00	89.60	8,800.0	519.2	10,023.5	10,026.9	0.00	0.00	0.00	
17,800.0	90.00	89.60	8,800.0	519.9	10,123.5	10,126.9	0.00	0.00	0.00	
17,900.0	90.00	89.60	8,800.0	520.6	10,223.5	10,226.9	0.00	0.00	0.00	
18,000.0	90.00	89.60	8,800.0	521.4	10,323.5	10,326.9	0.00	0.00	0.00	
18,100.0	90.00	89.60	8,800.0	522.1	10,423.5	10,426.9	0.00	0.00	0.00	
18,200.0	90.00	89.60	8,800.0	522.8	10,523.5	10,526.9	0.00	0.00	0.00	
18,300.0	90.00	89.60	8,800.0	523.5	10,623.5	10,626.9	0.00	0.00	0.00	
18,400.0	90.00	89.60	8,800.0	524.2	10,723.5	10,726.9	0.00	0.00	0.00	
18,500.0	90.00	89.60	8,800.0	524.9	10,823.5	10,826.9	0.00	0.00	0.00	
18,600.0	90.00	89.60	8,800.0	525.6	10,923.5	10,926.9	0.00	0.00	0.00	
18,700.0	90.00	89.60	8,800.0	526.3	11,023.5	11,026.9	0.00	0.00	0.00	
18,800.0	90.00	89.60	8,800.0	527.0	11,123.5	11,126.9	0.00	0.00	0.00	
18,900.0	90.00	89.60	8,800.0	527.7	11,223.5	11,226.9	0.00	0.00	0.00	
19,000.0	90.00	89.60	8,800.0	528.4	11,323.5	11,326.9	0.00	0.00	0.00	
19,093.0	90.00	89.60	8,800.0	529.0	11,416.5	11,419.9	0.00	0.00	0.00	
<b>TD at 19093.0 - BHL - Mama Jo 3531 Fed Com #137H</b>										

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP - Mama Jo 3531 Fe - plan hits target center - Point	0.00	0.00	8,227.0	555.0	990.5	489,945.00	585,214.00	32° 20' 48.022 N	104° 3' 26.647 W	
FPP - Mama Jo 3531 Fe - plan hits target center - Point	0.00	0.00	8,460.9	548.9	1,040.0	489,938.83	585,263.53	32° 20' 47.959 N	104° 3' 26.070 W	
BPP1 - Mama Jo 3531 F - plan hits target center - Point	0.00	0.00	8,800.0	474.0	3,595.0	489,863.98	587,818.53	32° 20' 47.152 N	104° 2' 56.289 W	
BPP2 - Mama Jo 3531 F - plan hits target center - Point	0.00	0.00	8,800.0	512.1	9,010.0	489,902.07	593,233.53	32° 20' 47.383 N	104° 1' 53.165 W	
BHL - Mama Jo 3531 Fe - plan hits target center - Point	0.00	0.01	8,800.0	529.0	11,416.5	489,919.00	595,640.00	32° 20' 47.482 N	104° 1' 25.112 W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
84.0	84.0	Z (Rustler)				
470.0	470.0	Z (Salado)				
1,277.0	1,277.0	Z (Castile (T))				
2,754.7	2,735.0	Z (G30:CS14-CSB)				
2,802.6	2,782.0	Z (G26: Bell Cyn.)				
3,593.8	3,558.0	Z (G16: Manzanita)				
3,644.8	3,608.0	Z (G13: Cherry Cyn.)				
4,867.1	4,807.0	Z (G7: Brushy Cyn.)				
6,374.0	6,285.0	Z (G4: BSG L (CS9))				
6,822.6	6,725.0	Z (L8.2: U. Avalon Shale)				
6,912.3	6,813.0	Z (L6.3: Avalon Carb)				
7,037.7	6,936.0	Z (L6.2: L. Avalon Shale)				
7,170.0	7,066.0	Z (L5.3: FBSC)				
7,399.4	7,293.0	Z (L5.1: FBSG)				
7,460.8	7,354.0	Z (M. FBSG)				
7,579.2	7,472.0	Z (L. FBSG)				
7,647.3	7,540.0	Z (L4.3: SBSC)				
8,149.4	8,042.0	Z (L4.1: SBSG)				
8,258.4	8,151.0	Z (L4.1: SBSG B Carb)				
8,365.4	8,258.0	Z (SBSG B Target)				
8,530.2	8,419.0	Z (L3.3: TBSC)				
9,000.8	8,753.0	Z (L3.3.2: Break Sand (T))				

Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site:</b>	Mama Jo 3531	<b>North Reference:</b>	Grid
<b>Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,350.0	1,350.0	0.0	0.0	Start Build 2.00	
1,911.4	1,907.8	26.8	47.8	Start 5174.6 hold at 1911.4 MD	
7,085.9	6,983.3	519.3	926.7	Start Drop -1.50	
7,834.4	7,727.0	555.0	990.5	Start 500.0 hold at 7834.4 MD	
8,334.4	8,227.0	555.0	990.5	Start Build 10.00	
9,234.4	8,800.0	484.2	1,559.0	Start DLS 2.00 TFO -90.00	
9,609.5	8,800.0	462.3	1,933.3	Start 9483.4 hold at 9609.5 MD	
19,093.0	8,800.0	529.0	11,416.5	TD at 19093.0	


## Casing Specs - 7-5/8" 29.7lb MO-FXL

Mama Jo 3531 Fed Com 137H

Township/Range: 22S 28E

SHL: 1201' FSL & 1702' FWL Section 35

Elevation Above Sea Level: 3074'

<b>Metal One Corp.</b>  	<b>MO-FXL</b> Pipe Body: SeAH *Grade: P110HC (SMYS125ksi) <b>Connection Data Sheet</b>	Page	MAI FXL 7.625 29.7 SeAH P110HC	
		Date	29-May-20	
		Rev.	0	

	Geometry		Imperial		S.I.
<b>MO-FXL</b>	<b>Pipe Body</b>				
	Grade *	P110HC		P110HC	
	Pipe OD ( D )	7 5/8	in	193.68	mm
	Weight	29.70	lb/ft	44.25	kg/m
	Actual weight	29.04		43.26	kg/m
	Wall Thickness ( t )	0.375	in	9.53	mm
	Pipe ID ( d )	6.875	in	174.63	mm
	Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm <sup>2</sup>
	Drift Dia.	6.750	in	171.45	mm
		<b>Connection</b>			
	Box OD ( W )	7.625	in	193.68	mm
	PIN ID	6.875	in	174.63	mm
	Make up Loss	4.219	in	107.16	mm
	Box Critical Area	5.714	in <sup>2</sup>	3686	mm <sup>2</sup>
	Joint load efficiency	70	%	70	%
	Thread Taper	1 / 10 ( 1.2" per ft )			
	Number of Threads	5 TPI			

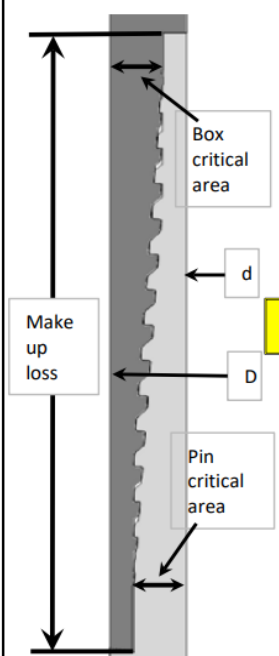
  

	Performance				
<b>MO-FXL</b>	<b>Performance Properties for Pipe Body</b>				
	S.M.Y.S. *	1,067	kips	4,747	kN
	M.I.Y.P. *	10,760	psi	74.21	MPa
	Collapse Strength *	6,800	psi	46.90	MPa
	Note S.M.Y.S. = Specified Minimum YIELD Strength of Pipe body M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body * SeAH P110HC YS: 125-140 ksi; Collapse: 6,800 psi				
	<b>Performance Properties for Connection</b>				
	Tensile Yield load	747 kips ( 70% of S.M.Y.S. )			
	Min. Compression Yield	747 kips ( 70% of S.M.Y.S. )			
	Internal Pressure	8,610 psi ( 80% of M.I.Y.P. )			
	External Pressure	100% of Collapse Strength			
	Max. DLS ( deg. /100ft)	30			

Recommended Torque				
Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application



# **Matador Production Company**

**Rustler Breaks**

**Mama Jo 3531**

**Mama Jo 3531 Fed Com #137H**

**Wellbore #1**

**BLM Plan #1**

## **Anticollision Summary Report**

**13 January, 2026**

Anticollision Summary Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Reference Site:</b>	Mama Jo 3531	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	BLM Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	1/13/2026		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	19,093.0	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						
Mama Jo 3531						
Mama Jo 3531 Fed Com #110H - Wellbore #1 - BLM Pla	7,582.8	18,991.7	1,226.8	986.2	5.098	CC, ES
Mama Jo 3531 Fed Com #110H - Wellbore #1 - BLM Pla	7,600.0	18,991.7	1,227.0	986.3	5.098	SF
Mama Jo 3531 Fed Com #119H - Wellbore #1 - BLM Pla	1,870.2	1,868.4	82.9	69.9	6.404	CC
Mama Jo 3531 Fed Com #119H - Wellbore #1 - BLM Pla	7,548.7	7,753.9	94.1	30.9	1.490	Level 3, ES, SF
Mama Jo 3531 Fed Com #121H - Wellbore #1 - BLM Pla	1,988.9	1,812.6	2,350.3	2,337.1	178.534	CC
Mama Jo 3531 Fed Com #121H - Wellbore #1 - BLM Pla	2,000.0	1,819.5	2,350.3	2,337.1	177.636	ES
Mama Jo 3531 Fed Com #121H - Wellbore #1 - BLM Pla	19,093.0	19,035.5	3,288.9	2,754.3	6.152	SF
Mama Jo 3531 Fed Com #122H - Wellbore #1 - BLM Pla	8,082.1	8,104.8	1,881.1	1,814.1	28.061	CC
Mama Jo 3531 Fed Com #122H - Wellbore #1 - BLM Pla	19,093.0	18,643.1	1,984.9	1,458.5	3.771	ES, SF
Mama Jo 3531 Fed Com #123H - Wellbore #1 - BLM Pla	1,560.6	1,565.6	89.0	78.3	8.301	CC
Mama Jo 3531 Fed Com #123H - Wellbore #1 - BLM Pla	1,600.0	1,604.4	89.1	78.1	8.101	ES
Mama Jo 3531 Fed Com #123H - Wellbore #1 - BLM Pla	19,093.0	18,662.8	800.5	377.4	1.892	SF
Mama Jo 3531 Fed Com #124H - Wellbore #1 - BLM Pla	2,094.8	2,102.6	37.3	22.9	2.602	CC
Mama Jo 3531 Fed Com #124H - Wellbore #1 - BLM Pla	2,100.0	2,107.7	37.3	22.9	2.596	ES
Mama Jo 3531 Fed Com #124H - Wellbore #1 - BLM Pla	19,093.0	18,777.0	870.1	407.6	1.881	SF
Mama Jo 3531 Fed Com #131H - Wellbore #1 - Final	247.3	260.3	2,337.4	2,336.1	1,828.769	CC
Mama Jo 3531 Fed Com #131H - Wellbore #1 - Final	400.0	397.2	2,338.0	2,335.7	1,014.155	ES
Mama Jo 3531 Fed Com #131H - Wellbore #1 - Final	19,093.0	20,280.8	3,355.9	2,834.5	6.437	SF
Mama Jo 3531 Fed Com #132H - Wellbore #1 - Final	8,383.1	8,384.4	1,581.5	1,515.6	23.994	CC
Mama Jo 3531 Fed Com #132H - Wellbore #1 - Final	19,000.0	19,935.4	1,882.2	1,411.8	4.002	ES
Mama Jo 3531 Fed Com #132H - Wellbore #1 - Final	19,093.0	20,007.0	1,886.2	1,412.9	3.985	SF
Mama Jo 3531 Fed Com #133H - Wellbore #1 - Final	739.5	739.6	166.9	162.1	35.460	CC, ES
Mama Jo 3531 Fed Com #133H - Wellbore #1 - Final	19,093.0	20,354.0	1,006.1	773.9	4.332	SF
Mama Jo 3531 Fed Com #134H - Wellbore #1 - Final	2,214.7	2,231.9	114.4	99.2	7.506	CC, ES
Mama Jo 3531 Fed Com #134H - Wellbore #1 - Final	19,093.0	20,326.0	1,598.1	1,150.8	3.572	SF
Mama Jo 3531 Fed Com #135H - Wellbore #1 - BLM Pla	3,767.6	3,622.0	2,231.1	2,203.8	81.614	CC
Mama Jo 3531 Fed Com #135H - Wellbore #1 - BLM Pla	19,093.0	19,242.5	2,644.1	2,103.0	4.886	ES, SF
Mama Jo 3531 Fed Com #136H - Wellbore #1 - BLM Pla	8,341.6	8,399.1	1,222.7	1,153.8	17.754	CC
Mama Jo 3531 Fed Com #136H - Wellbore #1 - BLM Pla	19,093.0	19,179.7	1,316.7	775.7	2.434	ES, SF
Mama Jo 3531 Fed Com #138H - Wellbore #1 - BLM Pla	1,536.8	1,542.7	29.3	18.8	2.777	CC
Mama Jo 3531 Fed Com #138H - Wellbore #1 - BLM Pla	1,600.0	1,605.7	29.7	18.7	2.700	ES
Mama Jo 3531 Fed Com #138H - Wellbore #1 - BLM Pla	19,093.0	19,102.7	1,316.4	779.9	2.454	SF
Mama Jo 3531 Fed Com #201H - Wellbore #1 - Final	0.0	19.0	2,332.7			
Mama Jo 3531 Fed Com #201H - Wellbore #1 - Final	400.0	395.9	2,334.8	2,332.6	1,026.225	ES
Mama Jo 3531 Fed Com #201H - Wellbore #1 - Final	19,093.0	20,198.2	2,881.6	2,383.3	5.783	SF
Mama Jo 3531 Fed Com #204H - Wellbore #1 - Final	2,616.2	2,635.1	109.8	91.7	6.060	CC, ES
Mama Jo 3531 Fed Com #204H - Wellbore #1 - Final	18,900.0	20,054.0	1,341.2	1,006.2	4.004	SF

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

Anticollision Summary Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Reference Site:</b>	Mama Jo 3531	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
Mama Jo 3531						
Mama Jo 3531 Fed Com #221H - Wellbore #1 - BLM Pla	4,686.0	4,570.9	2,229.4	2,194.3	63.565	CC
Mama Jo 3531 Fed Com #221H - Wellbore #1 - BLM Pla	4,800.0	4,671.5	2,229.7	2,193.7	61.993	ES
Mama Jo 3531 Fed Com #221H - Wellbore #1 - BLM Pla	19,093.0	20,832.7	3,368.3	2,894.0	7.101	SF
Mama Jo 3531 Fed Com #224H - Wellbore #1 - BLM Pla	1,350.0	1,349.0	30.0	20.8	3.256	CC
Mama Jo 3531 Fed Com #224H - Wellbore #1 - BLM Pla	1,400.0	1,401.0	30.1	20.5	3.142	ES
Mama Jo 3531 Fed Com #224H - Wellbore #1 - BLM Pla	1,500.0	1,501.1	31.1	20.8	3.018	SF
<b>Non-Op Rustler Breaks Wells</b>						
Trojan Horse 35 WXY Fed Com 2H - Wellbore #1 - Wellb	8,670.9	13,224.1	2,146.6	2,054.9	23.413	CC, ES
Trojan Horse 35 WXY Fed Com 2H - Wellbore #1 - Wellb	8,800.0	13,242.5	2,164.7	2,069.8	22.817	SF
Trojan Horse 35 WXY Fed Com 4H - Wellbore #1 - Wellb	8,921.3	13,419.5	1,192.1	1,118.1	16.114	CC
Trojan Horse 35 WXY Fed Com 4H - Wellbore #1 - Wellb	8,950.0	13,423.8	1,193.1	1,117.5	15.786	ES
Trojan Horse 35 WXY Fed Com 4H - Wellbore #1 - Wellb	9,150.0	13,456.4	1,256.2	1,170.7	14.699	SF
<b>Offsets Rustler Break Wells</b>						
Crocubot Fed 26 #234H - Wellbore #1 - Wellbore #1	10,774.6	8,957.7	3,669.2	3,566.8	35.816	CC
Crocubot Fed 26 #234H - Wellbore #1 - Wellbore #1	10,900.0	8,953.9	3,671.3	3,566.0	34.863	ES
Crocubot Fed 26 #234H - Wellbore #1 - Wellbore #1	12,400.0	8,913.3	4,012.9	3,879.8	30.148	SF
Longview Federal 31 #001 - Wellbore #1 - Wellbore #1	17,017.4	9,126.0	1,177.9	1,094.9	14.183	CC, ES
Longview Federal 31 #001 - Wellbore #1 - Wellbore #1	17,200.0	9,114.8	1,191.9	1,107.0	14.040	SF
Longview Federal 31 #003H - Wellbore #1 - Wellbore #1	18,381.4	9,076.7	1,144.5	1,052.2	12.398	CC, ES
Longview Federal 31 #003H - Wellbore #1 - Wellbore #1	18,400.0	9,076.9	1,144.7	1,052.3	12.389	SF
Pinnacle State #001 - Wellbore #1 - Wellbore #1	6,900.0	6,450.0	2,873.4	2,707.9	17.367	SF
Pinnacle State #001 - Wellbore #1 - Wellbore #1	11,416.1	6,450.0	2,394.8	2,354.7	59.600	CC, ES
Pinnacle State #005 - Wellbore #1 - Wellbore #1	14,504.2	6,440.0	2,379.6	2,316.2	37.541	CC, ES
Pinnacle State #005 - Wellbore #1 - Wellbore #1	16,300.0	6,440.0	2,981.1	2,839.2	20.998	SF
Pinnacle State #014H - Wellbore #1 - Wellbore #1	15,745.7	6,456.0	2,870.4	2,662.8	13.828	CC
Pinnacle State #014H - Wellbore #1 - Wellbore #1	15,800.0	6,456.0	2,870.9	2,662.5	13.775	ES
Pinnacle State #014H - Wellbore #1 - Wellbore #1	16,500.0	6,456.0	2,967.8	2,746.6	13.413	SF
Pinnacle State #025 - Wellbore #1 - Wellbore #1	12,121.6	7,687.0	1,719.1	1,519.6	8.615	CC, ES
Pinnacle State #025 - Wellbore #1 - Wellbore #1	12,300.0	7,687.0	1,728.3	1,526.1	8.548	SF
Pinnacle State #029 - Wellbore #1 - Wellbore #1	16,043.6	8,525.0	1,002.4	650.8	2.851	CC, ES
Pinnacle State #029 - Wellbore #1 - Wellbore #1	16,100.0	8,525.0	1,003.9	651.6	2.850	SF
Pinnacle State #16 - Wellbore #1 - Wellbore #1	13,883.4	6,943.0	1,946.7	1,845.4	19.220	CC
Pinnacle State #16 - Wellbore #1 - Wellbore #1	13,900.0	6,943.0	1,946.8	1,845.4	19.203	ES
Pinnacle State #16 - Wellbore #1 - Wellbore #1	15,100.0	6,943.0	2,295.6	2,155.0	16.328	SF
Santa Fe Federal Deep 35 #1 - Wellbore #1 - Wellbore #	9,885.8	8,907.0	3,215.2	3,131.5	38.405	CC
Santa Fe Federal Deep 35 #1 - Wellbore #1 - Wellbore #	10,000.0	8,907.9	3,217.2	3,131.2	37.411	ES
Santa Fe Federal Deep 35 #1 - Wellbore #1 - Wellbore #	11,400.0	8,913.0	3,553.9	3,443.3	32.135	SF

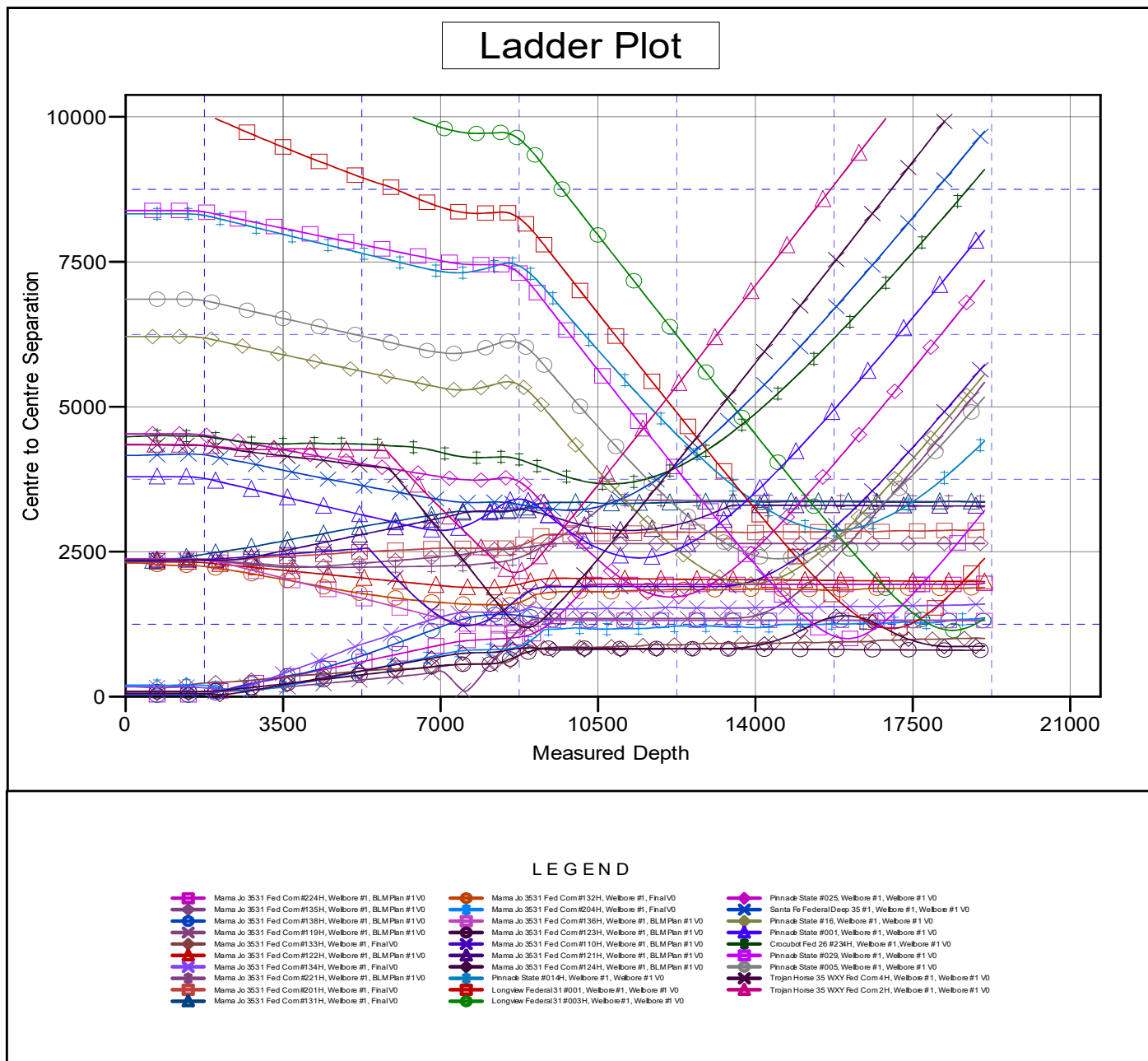
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Summary Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Reference Site:</b>	Mama Jo 3531	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB @ 3100.5usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Mama Jo 3531 Fed Com #137H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.15°



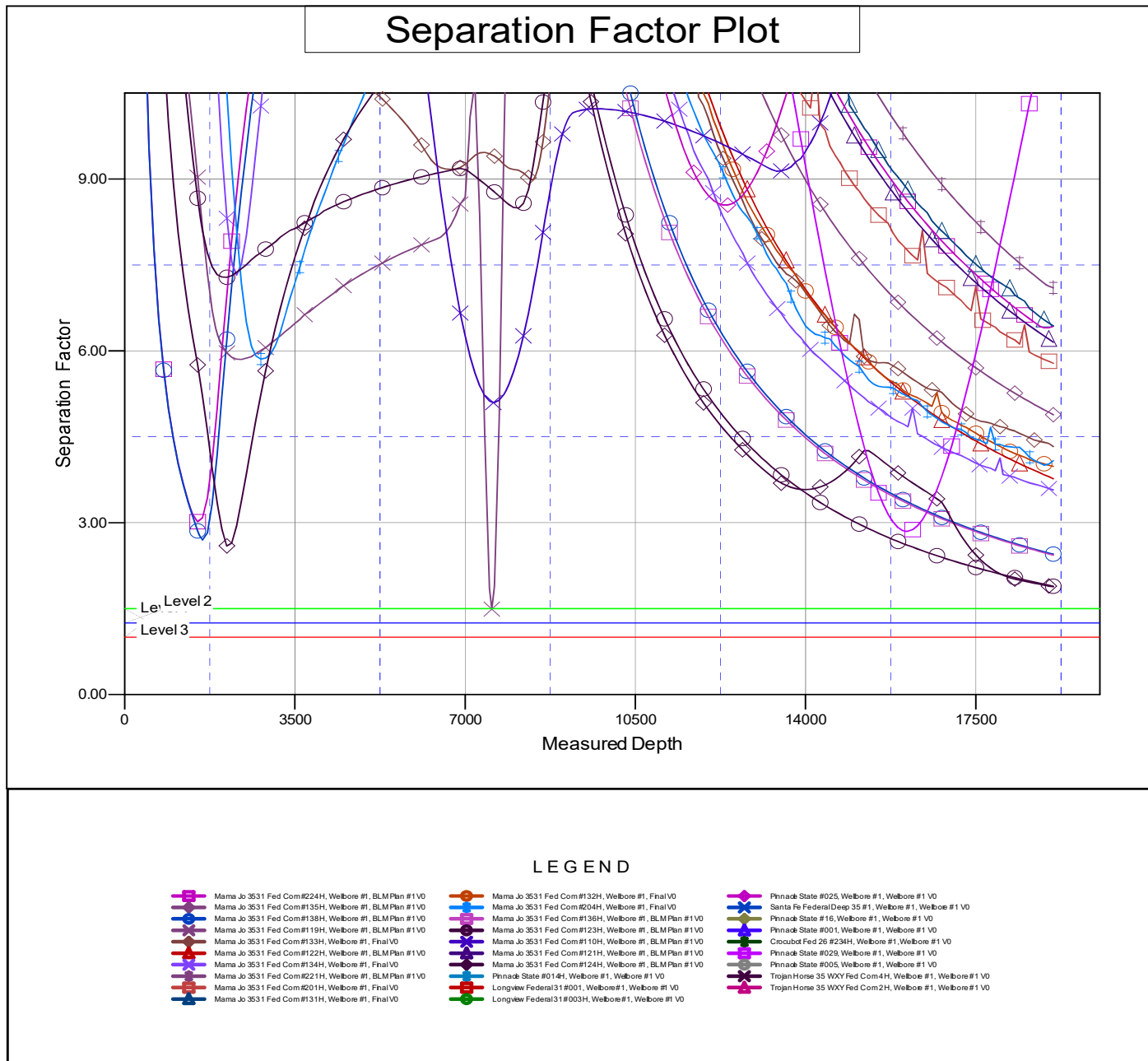
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Mama Jo 3531 Fed Com #137H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3100.5usft
<b>Reference Site:</b>	Mama Jo 3531	<b>MD Reference:</b>	KB @ 3100.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Mama Jo 3531 Fed Com #137H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB @ 3100.5usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Mama Jo 3531 Fed Com #137H  
 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



SURVEY PROGRAM

WELL DETAILS: Mama Jo 3531 Fed Com #137H

Depth From	Depth To	Survey/Plan	Tool	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	19093.0	BLM Plan #1 (Wellbore #1)	MWD	0.0	0.0	489389.96	584223.52	32° 20' 42.554 N	104° 3' 38.210 W	

**Company: Matador Production Company**  
**Well: Mama Jo 3531 Fed Com #137H**  
**County: Eddy County, NM**  
**Wellbore: Wellbore #1**  
**Plan: BLM Plan #1**  
**Date: 1/14/2025**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Mama Jo 3531 Fed Com #137H	8227.0	555.0	990.5	489945.00	585214.00	32° 20' 48.022 N	104° 3' 26.647 W
BHL - Mama Jo 3531 Fed Com #137H	8800.0	529.0	11416.5	489919.00	595640.00	32° 20' 47.482 N	104° 1' 25.112 W
BPP1 - Mama Jo 3531 Fed Com #137H	8800.0	474.0	3595.0	489863.98	587818.52	32° 20' 47.152 N	104° 2' 56.289 W
BPP2 - Mama Jo 3531 Fed Com #137H	8800.0	512.1	9010.0	489902.07	593233.52	32° 20' 47.383 N	104° 1' 53.165 W
FPP - Mama Jo 3531 Fed Com #137H	8460.9	548.9	1040.0	489938.83	585263.52	32° 20' 47.959 N	104° 3' 26.070 W

DESIGN TARGET DETAILS

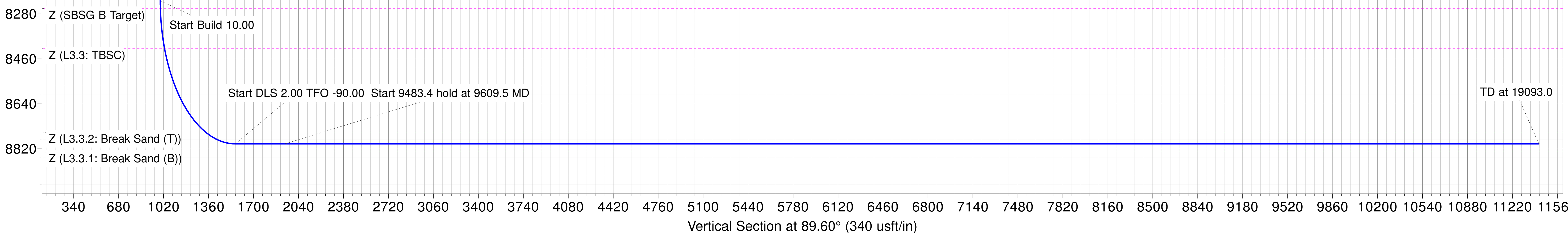
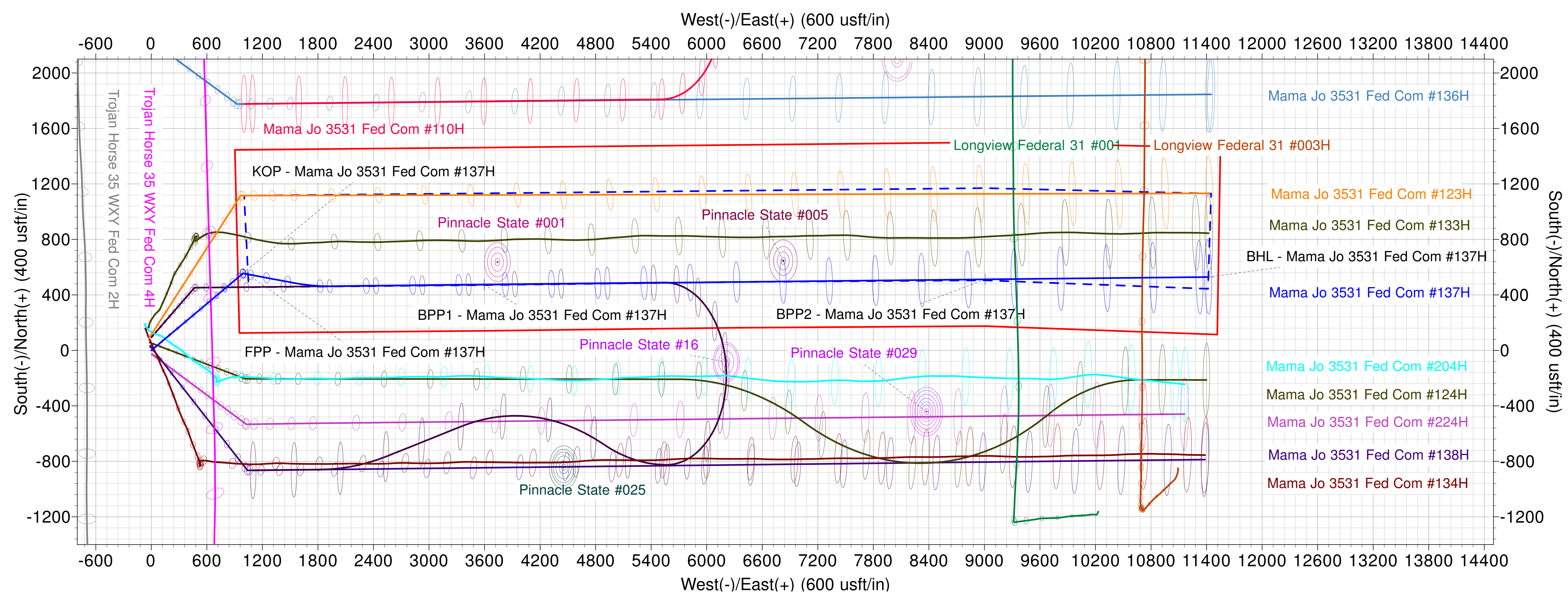
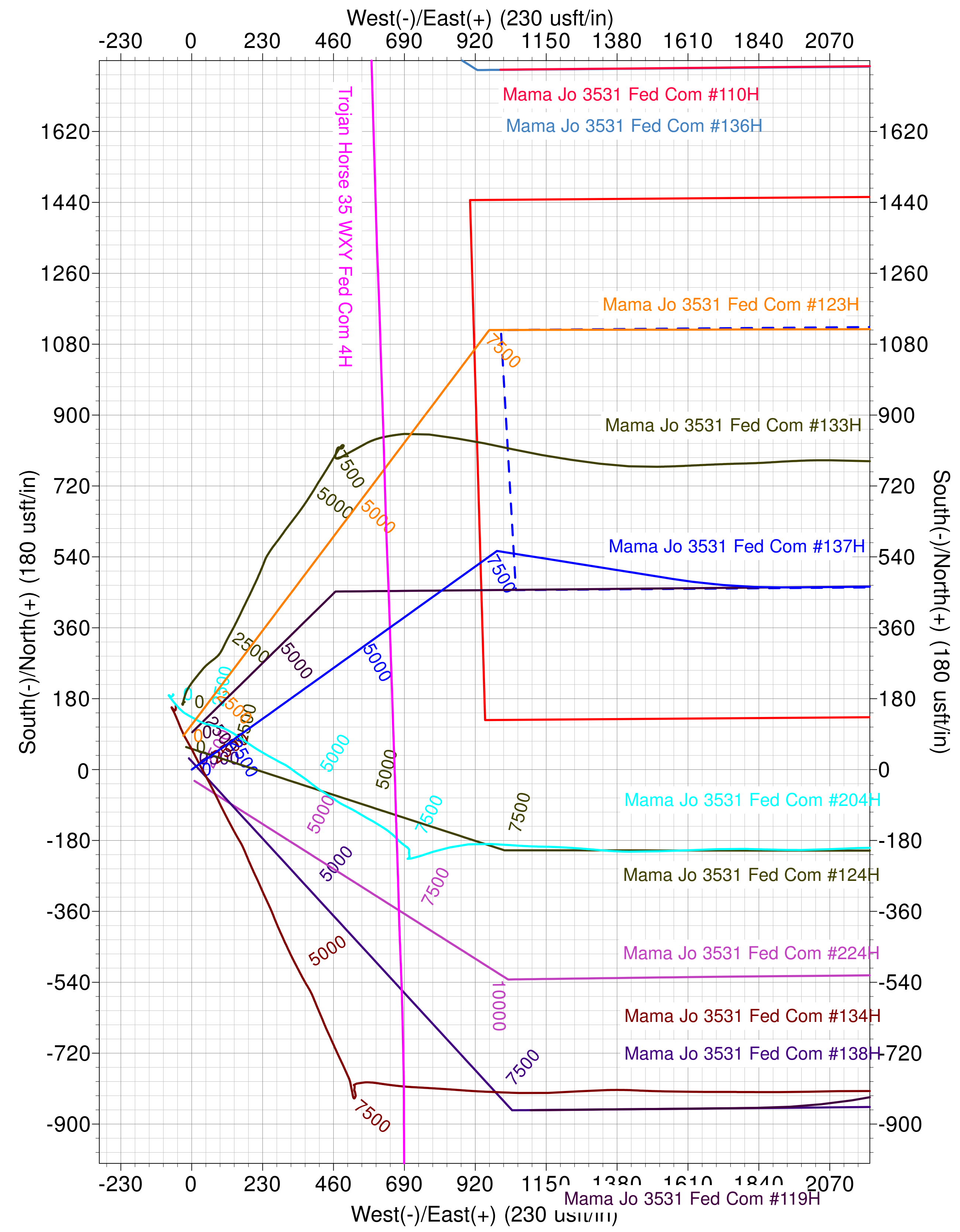
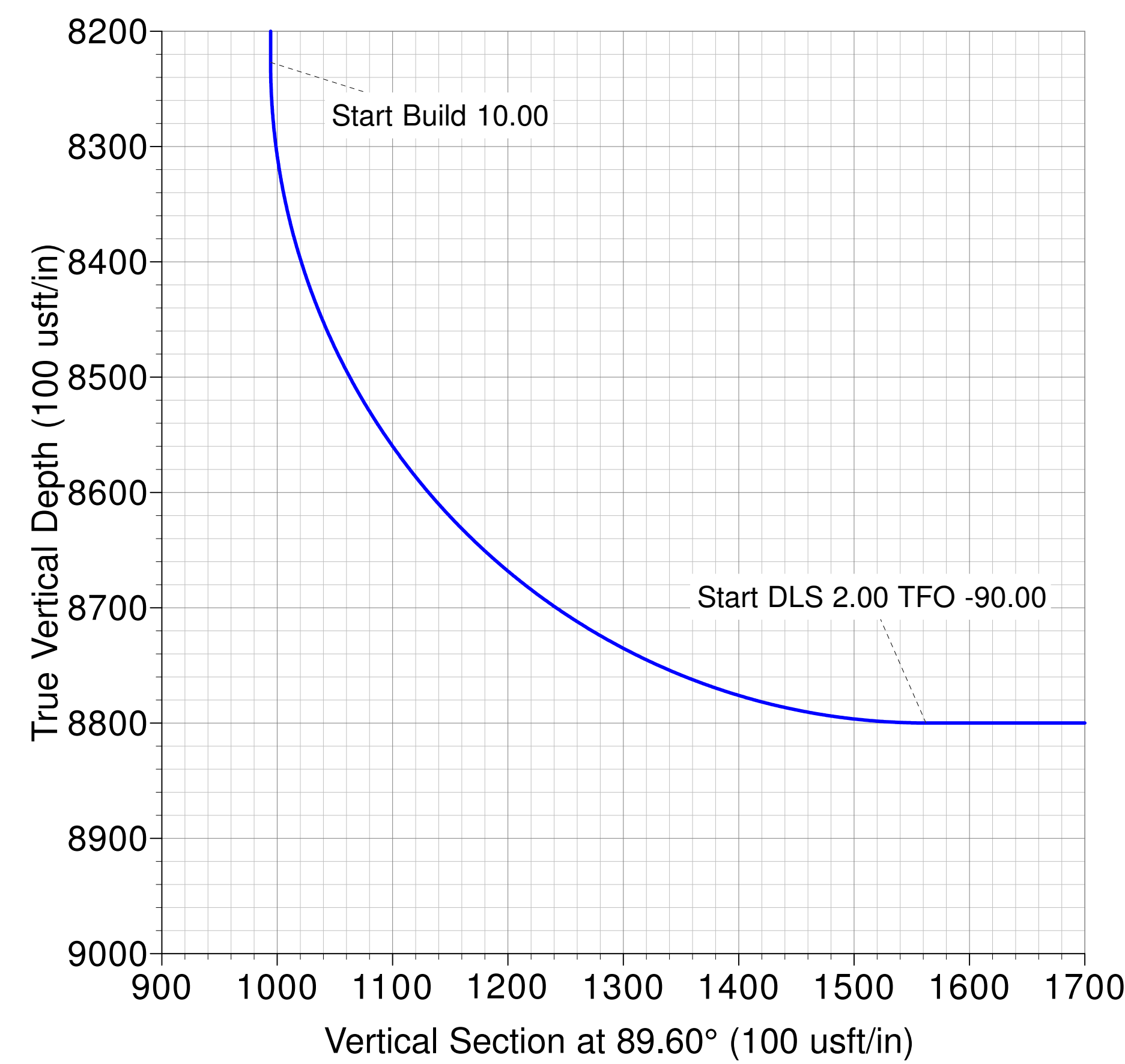
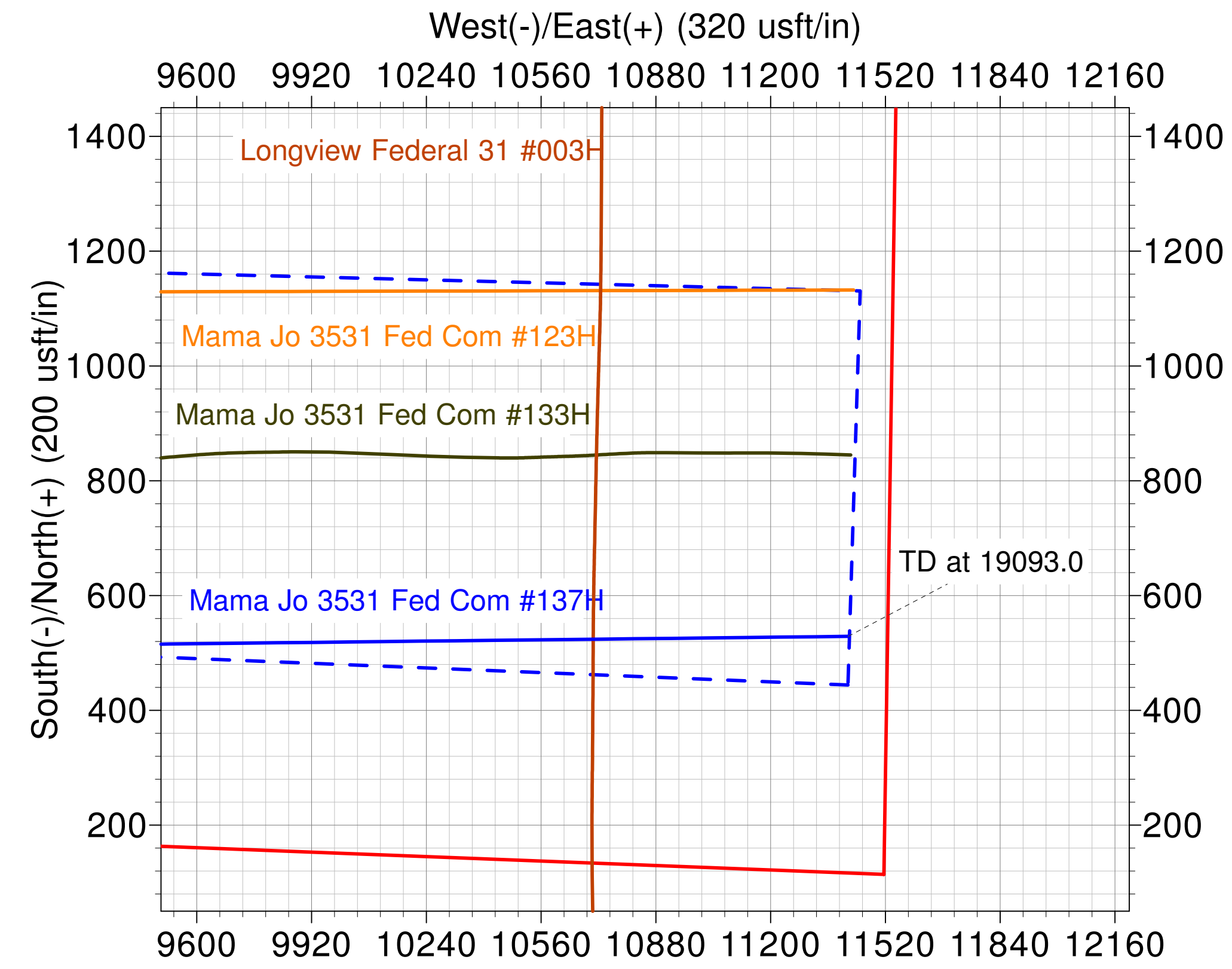
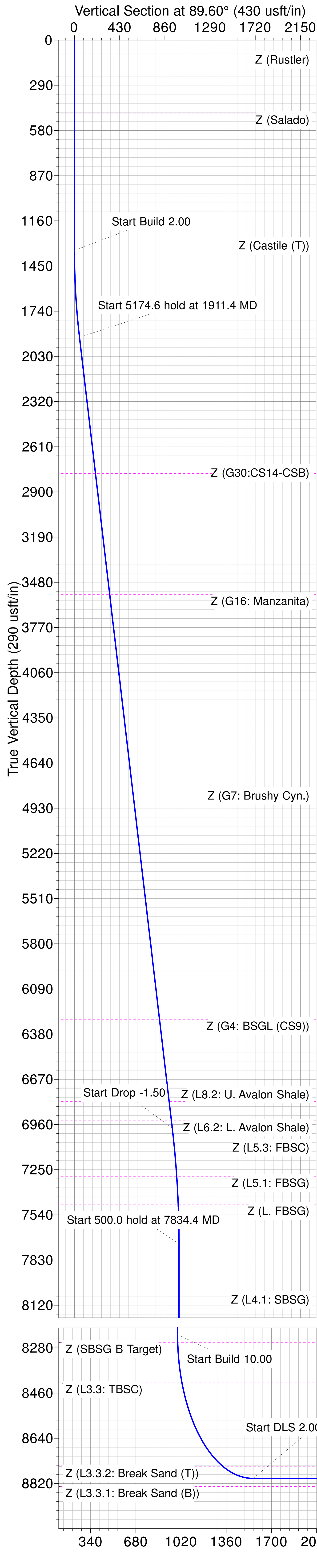
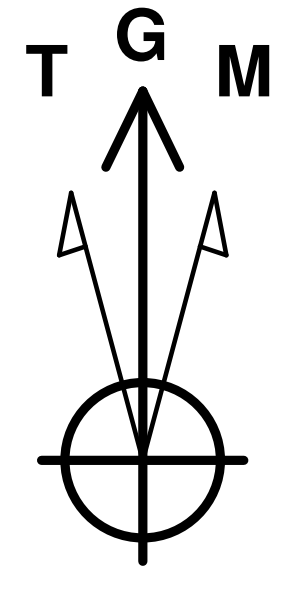
Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 System Datum: Mean Sea Level

SECTION DETAILS

To convert a Magnetic Direction to a Grid Direction, Add 6.25°  
 To convert a Magnetic Direction to a True Direction, Add 6.40° East  
 To convert a True Direction to a Grid Direction, Subtract 0.15°

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	
1350.0	0.00	0.00	1350.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1911.4	11.23	60.73	1907.8	26.8	47.8	2.00	60.73	48.0	Start 5174.6 hold at 1911.4 MD
7085.9	11.23	60.73	6983.3	519.3	926.7	0.00	0.00	930.3	Start Drop -1.50
7834.4	0.00	0.00	7727.0	555.0	990.5	1.50	180.00	994.3	Start 500.0 hold at 7834.4 MD
8334.4	0.00	0.00	8227.0	555.0	990.5	0.00	0.00	994.3	Start Build 10.00
9234.4	90.00	97.10	8800.0	484.2	1559.0	10.00	97.10	1562.4	Start DLS 2.00 TFO -90.00
9609.5	90.00	89.60	8800.0	462.3	1933.3	2.00	-90.00	1936.5	Start 9483.4 hold at 9609.5 MD
19093.0	90.00	89.60	8800.0	529.0	11416.5	0.00	0.00	11419.9	TD at 19093.0

Azimuths to Grid North  
 True North: -0.15°  
 Magnetic North: 6.25°  
 Magnetic Field  
 Strength: 47212.9snT  
 Dip Angle: 60.00°  
 Date: 10/1/2024  
 Model: IGRF2015



**Mama Jo 3531 Fed Com 137H**  
**SHL: 1201' FSL & 1702' FWL Section 35**  
**BHL: 1758' FSL & 2407' FWL Section 31**  
**Township/Range: 22S 28E**  
**Elevation Above Sea Level: 3074**

### Sundry Request

Matador request the option to amend the well design of the Mama Jo 3531 Fed Com 223H and make the following changes to the current APD:

- Change the well name from Mama Jo 3531 Fed Com 223H to Mama Jo 3531 Fed Com 137H
- Change well SHL from 1191' FSL & 1736' FWL section 35 to 1201' FSL & 1702' FWL section 35
- Change well BHL from 2028' FSL & 2184' FWL section 31 to 1758' FSL & 2407' FWL section 31
- Change well target from 10468' to 8800' TVD
- Option to drill intermediate hole size of 8-3/4" OH
- Option to run intermediate casing type of 7-5/8" MO-FXL
- Revise casing set depths as described below. Cement volumes will be adjusted accordingly
- Change pooling unit from Wolfcamp to Bone Spring
- Option to perform a bradenhead squeeze on the intermediate string. The top of the primary tail slurry will be pumped to the top of the **Brushy Canyon**, bradenhead squeeze will be performed offline to fill the annulus to surface.

### Drilling Operation Plan

Proposed Drilling Depth: 19093' MD / 8800' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3465206 N / -104.0579015 W

TD Lat/Long (NAD83): 32.3466444 N / -104.0241379 W

#### 1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	84	84	386	Anhydrite	Barren
Salado (Top of Salt)	470	470	807	Salt	Barren
Lamar (Base of Salt)	2,754	2,735	47	Salt	Barren
Bell Canyon	2,802	2,782	826	Sandstone	Oil/Natural Gas
Cherry Canyon	3,644	3,608	1,199	Sandstone	Oil/Natural Gas
Brushy Canyon	4,867	4,807	1,478	Sandstone	Oil/Natural Gas
1st Bone Spring Carb	7,170	7,066	227	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	7,399	7,293	247	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,647	7,540	502	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	8,149	8,042	377	Sandstone	Oil/Natural Gas
<b>KOP</b>	<b>8,334</b>	<b>8,227</b>	-	<b>Sandstone</b>	<b>Oil/Natural Gas</b>
3rd Bone Spring Carb	8,530	8,419	334	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	9,000	8,753		Sandstone	Oil/Natural Gas
<b>TD</b>	<b>19,093</b>	<b>8,800</b>	-	<b>Sandstone</b>	<b>Oil/Natural Gas</b>

## 2. Notable Zones

Third 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 103'.

## 3. Pressure Control

### Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

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

### Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

### Variance Request

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

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

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

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

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

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

**4. Casing & Cement**

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 350	0 - 350	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8234	0 - 8127	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 19093	0 - 8800	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review
- Request the option to deepen the Intermediate 1 casing set depth to 80° in curve, no changes in pipe grade or weight is necessary.

**Variance Request**

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

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

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

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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	30	1.72	49	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	50	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 2832'	Stg 2 Tail	440	1.78	779	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	1320	1.84	2421	12.5	50%	0	A/C	Bentonite + 1% CaCl <sub>2</sub> + 8% NaCl + LCM
	Stg 1 Tail	260	1.33	343	14.8	50%	7234	A/C	5% NaCl + LCM
Production	Tail	850	1.35	1152	13.2	25%	8034	A/C	Fluid Loss + Dispersant + Retarder + LCM

**5. Mud Program**

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 350	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	350 - 8234	8.8 - 9.6	28-30	NC
Production	6.75	OBM	8234 - 19093	9.2 - 9.7	30-55	<20

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

No core or drill stem test is planned.

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

**7. Down Hole Conditions**

No abnormal pressure or temperature is expected. Bottom hole pressure is 4439 psi. Maximum anticipated surface pressure is 2503 psi. Expected bottom hole temperature is 152 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H<sub>2</sub>S safety package on all wells, attached is an "H<sub>2</sub>S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

### Casing Table Specification Sheet

**Mama Jo 3531 Fed Com 137H**  
**SHL: 1201' FSL & 1702' FWL Section 35**  
**BHL: 1758' FSL & 2407' FWL Section 31**  
**Township/Range: 22S 28E**  
**Elevation Above Sea Level: 3074**

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 350	0 - 350	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8234	0 - 8127	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 19093	0 - 8800	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 550549

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 550549
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/23/2026