

Well Name: SUSAN LANCASTER FED COM	Well Location: T21S / R32E / SEC 7 / NENW / 32.4996264 / -103.7174445	County or Parish/State: LEA / NM
Well Number: 241H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM130326	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2894285

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/04/2026

Time Sundry Submitted: 08:05

Date proposed operation will begin: 02/11/2026

Procedure Description: BLM Bond No. NMB001079 Surety Bond No. RLB0015172 Matador requests the option to amend the well design of the Susan Lancaster Fed Com #241H and make the following changes to the current APD: - Change well SHL from 279' FNL & 1683' FWL section 7 to 279' FNL & 1823' FWL section 7. - Modify casing set depths as shown on the casing and cementing table. Cement volumes will be adjusted accordingly.

NOI Attachments

Procedure Description

- LO_SUSAN_LANCASTER_FED_COM_241H_REV2_S_signed_20260204075656.pdf
- Susan_Lancaster_Fed_Com_241H_Directional_AC_Report_20260204075635.pdf
- Susan_Lancaster_Fed_Com_241H_Sundry_Casing_Table_Spec_20260204075635.pdf
- Susan_Lancaster_Fed_Com_241H_Directional_Wall_Plot_20260204075635.pdf
- Susan_Lancaster_Fed_Com_241H_Sundry_Drill_Plan_20260204075635.pdf
- Susan_Lancaster_Fed_Com_241H_Directional_Well_Plan_20260204075635.pdf

Well Name: SUSAN LANCASTER FED COM

Well Location: T21S / R32E / SEC 7 / NENW / 32.4996264 / -103.7174445

County or Parish/State: LEA / NM

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Type of Well: OIL WELL

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Lease Number: NMNM130326

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional

SUSAN_LANCASTER_FED_COM_241H_Sundry_2894285_COA_20260217110515.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: ADDISON FISHER

Signed on: FEB 04, 2026 08:00 AM

Name: MATADOR PRODUCTION COMPANY

Title: Surface Land

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS

State: TX

Phone: (972) 371-5236

Email address: ADDISON.FISHER@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: 02/20/2026

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

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

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NENW / 279 FNL / 1683 FWL / TWSP: 21S / RANGE: 32E / SECTION: 7 / LAT: 32.4996264 / LONG: -103.7174445 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 100 FSL / 661 FEL / TWSP: 21S / RANGE: 31E / SECTION: 1 / LAT: 32.5006489 / LONG: -103.7250452 (TVD: 12250 feet, MD: 12894 feet)
PPP: LOT 1 / 0 FNL / 836 FEL / TWSP: 21S / RANGE: 31E / SECTION: 1 / LAT: 32.5223756 / LONG: -103.7256072 (TVD: 12250 feet, MD: 20823 feet)
BHL: NWSW / 2529 FSL / 662 FWL / TWSP: 20S / RANGE: 32E / SECTION: 36 / LAT: 32.5293267 / LONG: -103.7261684 (TVD: 12250 feet, MD: 23360 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	SUSAN LANCASTER FED COM 241H
APD ID:	10400107191
LOCATION:	Section 7, T21S, R32E. NMP.
COUNTY:	<input type="text" value="Lea County, New Mexico"/>

COA

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

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

APD is within the R-111-Q defined boundary. Operator must follow all applicable procedures and requirements listed within the Order No. R-111-Q.

A. CASING PROGRAM

1. The **20-inch** surface casing shall be set at approximately **1,115** ft. (a minimum of 70 feet 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.

2. The 13-3/8 inch 1st intermediate casing shall be set in a competent bed at approximately 3,016 ft. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:

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

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool: Cement to surface.** If cement does not circulate 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 **Capitan Reef, and Potash**. Excess cement for the 2nd stage is below %25. More cement might be needed.

Note: The 1st Intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement for collapse design safety factor.

Note: The 2nd intermediate casing set depth was adjusted based on recommendation from the BLM geologist. *"The operator proposes to set second intermediate casing at 4619' which is in the Capitan reef. Instead the BLM suggests to set the second intermediate casing at 5100' which will be in the base of the Capitan reef Formation. This is an acceptable set point."*

3. The 9-5/8 inch 2nd intermediate casing shall be set in a competent bed at approximately 5,100 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

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

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool: Cement to surface.** If cement does not circulate 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 **Capitan Reef, and Potash**. Excess cement for the 2nd stage is below %25. More cement might be needed.

Note: The 2nd Intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement for collapse design safety factor.

- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.
4. The 7-5/8 inch 3rd intermediate casing (**P-110 EC with VAM SPRINT SF joints**) shall be set in a competent bed at approximately **11,822 ft.** (11,525 ft. TVD). The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Operator has proposed to cement the 3rd intermediate casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
 - a. First stage: Operator will cement 3rd intermediate casing with intent to bring cement to top of Brushy Canyon formation.
 - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 2nd intermediate casing shoe and below the Marker Bed 126**. If cement does not circulate, the appropriate BLM office shall be notified.
 - ❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**
 - ❖ Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
 - ❖ A monitored open annulus will be incorporated during completion by leaving the 3rd Intermediate Casing x 2nd Intermediate Casing annulus un-cemented and monitored. Operator must follow **all** monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days**.
 - ❖ **In the event of a casing failure during completion**, the operator must contact the BLM engineer at (575-706-2779) and inspection staff (575-393-3612 Lea County).
5. Operator has proposed to set 5-1/2 inch production casing at approximately **23,375 ft.** (12,248 ft. TVD). The minimum required fill of cement behind the 5-1/2 inch 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.**

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- Spudding well (minimum of 24 hours)
- Setting and/or Cementing of all casing strings (minimum of 4 hours)
- BOPE tests (minimum of 4 hours)

Contact Lea County Petroleum Engineering Inspection Staff:

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

- 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.
 - 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).
 - When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 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.
- 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

- The current acceptable methods of cement verification are as follows:
 - Observing cement circulated to surface,
 - Cement Bond Log (CBL),
 - Temperature log within 8-10 hours after completing the cement job,
 - 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 02/17/2026

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-55999	Pool Code 98409	Pool Name WC-015 G-09 S213101P; UPPER PENN
Property Code 338848	Property Name SUSAN LANCASTER FED COM	Well Number 241H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3632'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" 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
C	7	21-S	32-E	-	279' N	1823' W	N 32.4996279	W 103.7169904	LEA

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
L	36	20-S	32-E	-	2529' S	662' W	N 32.5293267	W 103.7261684	LEA

Dedicated Acres 322.53	Infill or Defining Well Defining	Defining Well API NA	Overlapping Spacing Unit (Y/N) N---	Consolidated Code C---
Order Numbers NA--			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
P	1	21-S	31-E	-	50' S	661' E	N 32.5005115	W 103.7250453	EDDY

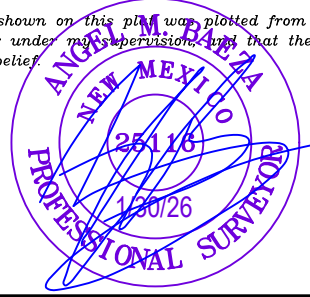
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	1	21-S	31-E	-	100' S	661' E	N 32.5006489	W 103.7250452	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
L	36	20-S	32-E	-	2529' S	662' W	N 32.5293267	W 103.7261684	LEA

Unitized Area or Area of Uniform Interest Pending	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3660 '
---	--	---

OPERATOR CERTIFICATION <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> <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> Addison Fisher 2/4/2026		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature Addison Fisher		Signature and Seal of Professional Surveyor	
Date 2/4/2026		Date 06/24/2025	
Print Name addison.fisher@matadorresources.com		Certificate Number	Date of Survey
E-mail Address			06/24/2025

C-102

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submit Electronically
Via OCD Permitting

Submittal
Type:

- Initial Submittal
- Amended Report
- As Drilled

Property Name and Well Number

SUSAN LANCASTER FED COM 241H

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=731355 Y=546045
LAT.: N 32.4996279
LONG.: W 103.7169904
NAD 1927
X=690174 Y=545983
LAT.: N 32.4995066
LONG.: W 103.7164963
279' FNL 1823' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=728870 Y=546352
LAT.: N 32.5005115
LONG.: W 103.7250453
NAD 1927
X=687689 Y=546290
LAT.: N 32.5003901
LONG.: W 103.7245508
50' FSL 661' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=728869 Y=546402
LAT.: N 32.5006489
LONG.: W 103.7250452
NAD 1927
X=687689 Y=546340
LAT.: N 32.5005276
LONG.: W 103.7245508
100' FSL 661' FEL

DEFLECTION POINT (DP1)

NEW MEXICO EAST
NAD 1983
X=728829 Y=553646
LAT.: N 32.5205614
LONG.: W 103.7250414
NAD 1927
X=687649 Y=553585
LAT.: N 32.5204403
LONG.: W 103.7245461
660' FNL 662' FEL

BLM PERF. POINT (BPP1)

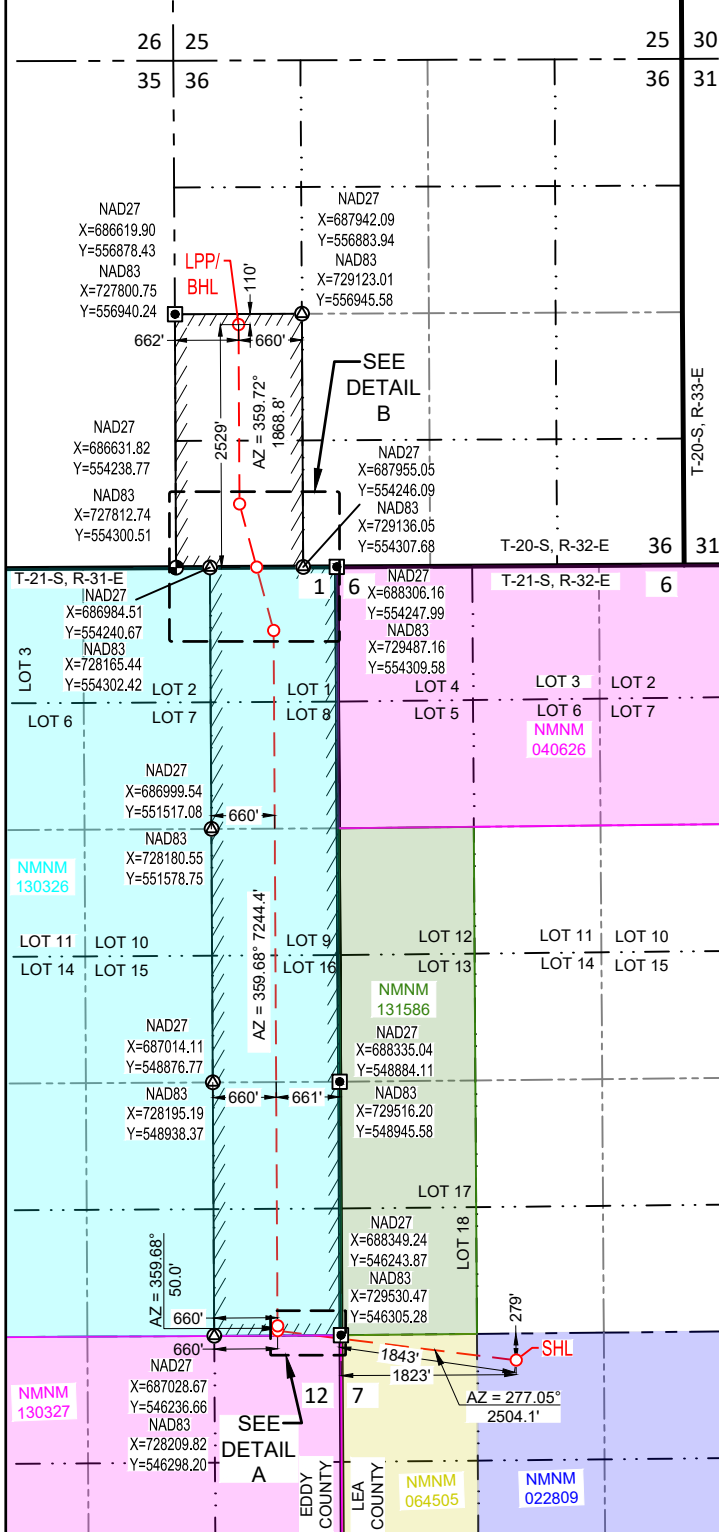
NEW MEXICO EAST
NAD 1983
X=728651 Y=554305
LAT.: N 32.5223756
LONG.: W 103.7256072
NAD 1927
X=687470 Y=554244
LAT.: N 32.5222546
LONG.: W 103.7251117
0' FNL 836' FEL

DEFLECTION POINT (DP2)

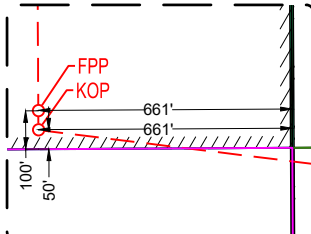
NEW MEXICO EAST
NAD 1983
X=728473 Y=554964
LAT.: N 32.5241899
LONG.: W 103.7261730
NAD 1927
X=687292 Y=554903
LAT.: N 32.5240688
LONG.: W 103.7256774
660' FSL 663' FWL

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

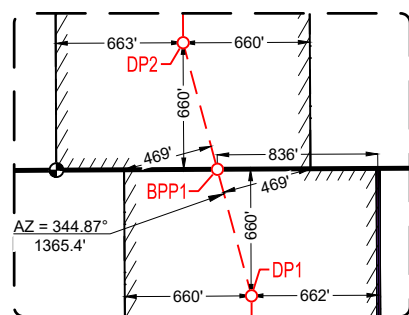
NEW MEXICO EAST
NAD 1983
X=728464 Y=556833
LAT.: N 32.5293267
LONG.: W 103.7261684
NAD 1927
X=687283 Y=556771
LAT.: N 32.5292058
LONG.: W 103.7256726
2529' FSL 662' FWL



DETAIL VIEW A
SCALE: 1" = 500'



DETAIL VIEW B
SCALE: 1" = 1000'



SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
06/24/2025

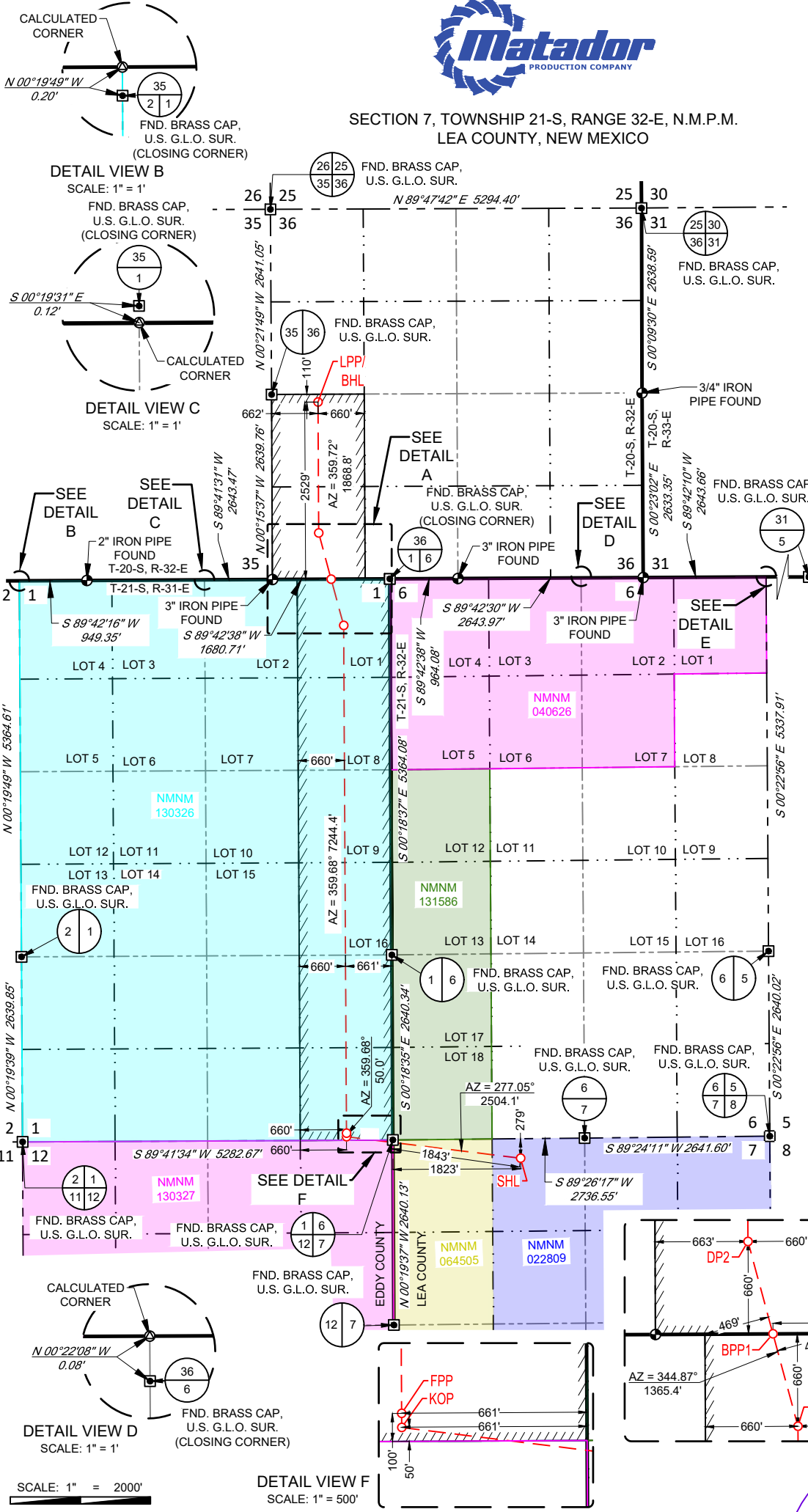
Date of Survey
Signature and Seal of Professional Surveyor:



S:\SURV\WV\ADPDR_RESOURCE\SUSAN_LANCASTER_FED_COM_241H_PRODUCT\FIELD\SUSAN_LANCASTER_FED_COM_241H_SURV\ANGEL.M.BAEZA.13092025.03.08.PDF



SECTION 7, TOWNSHIP 21-S, RANGE 32-E, N.M.P.M. LEA COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST NAD 1983
X=731355 Y=546045
LAT.: N 32.4996279
LONG.: W 103.7169904
279' FNL 1823' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST NAD 1983
X=728870 Y=546352
LAT.: N 32.5005115
LONG.: W 103.7250453
50' FSL 661' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST NAD 1983
X=728869 Y=546402
LAT.: N 32.5006489
LONG.: W 103.7250452
100' FSL 661' FEL

DEFLECTION POINT (DP1)

NEW MEXICO EAST NAD 1983
X=728829 Y=553646
LAT.: N 32.5205614
LONG.: W 103.7250414
660' FNL 662' FEL

BLM PERF. POINT (BPP1)

NEW MEXICO EAST NAD 1983
X=728651 Y=554305
LAT.: N 32.5223756
LONG.: W 103.7256072
0' FNL 836' FEL

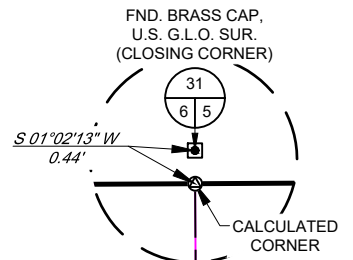
DEFLECTION POINT (DP2)

NEW MEXICO EAST NAD 1983
X=728473 Y=554964
LAT.: N 32.5241899
LONG.: W 103.7261730
660' FSL 663' FWL

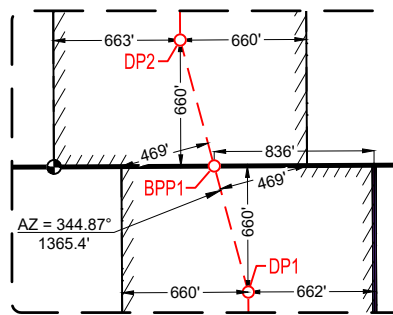
LAST PERF. POINT (LPP)

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST NAD 1983
X=728464 Y=556833
LAT.: N 32.5293267
LONG.: W 103.7261684
2529' FSL 662' FWL



DETAIL VIEW E SCALE: 1" = 1'



DETAIL VIEW A SCALE: 1" = 1000'

SCALE: 1" = 2000'

LEASE NAME & WELL NO.: SUSAN LANCASTER FED COM 241H

SECTION 7 TWP 21-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 279' FNL & 1823' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-243 & US-180E/US-62 E. GO SOUTHWEST ON US-180W/US-62 W ±1.2 MILES, THENCE SOUTH (LEFT) ON CAMPBELL RD. ±3.8 MILES, THENCE EAST (LEFT) ON A PROPOSED RD. ±4505 FEET TO A POINT ±172 FEET NORTHEAST OF THE LOCATION.

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



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



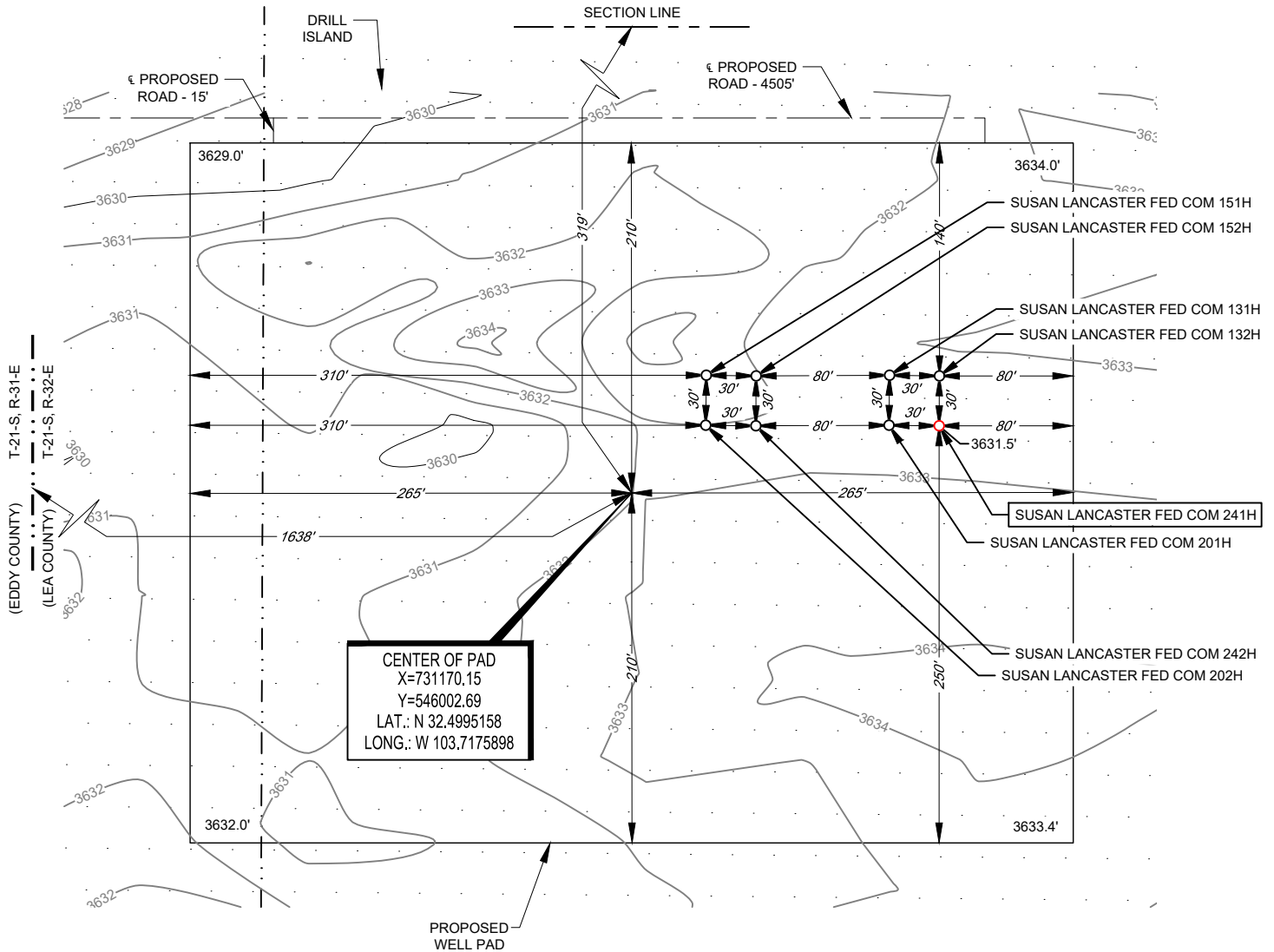
481 WINSBROTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



LEGEND

- COUNTY LINE
- - - SECTION LINE
- PROPOSED ROAD

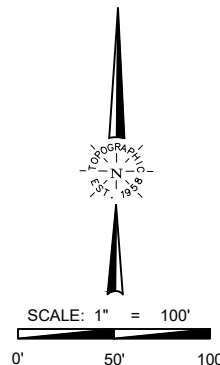
SECTION 7, TOWNSHIP 21-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

LEASE NAME & WELL NO.: SUSAN LANCASTER FED COM 241H
 241H LATITUDE N 32.4996279 241H LONGITUDE W 103.7169904

CENTER OF PAD IS 319' FNL & 1638' 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.



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 WWW.TOPOGRAPHIC.COM

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company

Ranger/Arrowhead

Susan Lancaster

Susan Lancaster Fed Com #241H

Wellbore #1

BLM Plan #1

Anticollision Summary Report

04 February, 2026

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3660.5usft
Reference Site:	Susan Lancaster	MD Reference:	KB @ 3660.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	2/3/2026		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,374.3	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
Offset Well - Wellbore - Design						
Susan Lancaster						
Susan Lancaster Fed Com #101H - Wellbore #1 - BLM P	2,900.0	2,897.0	670.6	650.3	33.001	CC, ES
Susan Lancaster Fed Com #101H - Wellbore #1 - BLM P	23,375.0	20,202.9	3,355.0	3,168.6	18.002	SF
Susan Lancaster Fed Com #102H - Wellbore #1 - BLM P	7,990.8	7,851.9	131.4	68.4	2.086	CC
Susan Lancaster Fed Com #102H - Wellbore #1 - BLM P	8,000.0	7,860.9	131.5	68.4	2.083	ES, SF
Susan Lancaster Fed Com #111H - Wellbore #1 - BLM P	2,900.0	2,901.0	560.7	540.4	27.576	CC, ES
Susan Lancaster Fed Com #111H - Wellbore #1 - BLM P	9,900.0	9,887.2	1,061.5	987.0	14.257	SF
Susan Lancaster Fed Com #112H - Wellbore #1 - BLM P	6,707.9	6,603.8	127.5	77.1	2.529	CC, ES
Susan Lancaster Fed Com #112H - Wellbore #1 - BLM P	6,800.0	6,706.3	128.9	77.6	2.511	SF
Susan Lancaster Fed Com #121H - Wellbore #1 - BLM P	2,900.0	2,897.0	559.9	539.6	27.554	CC, ES
Susan Lancaster Fed Com #121H - Wellbore #1 - BLM P	10,600.0	10,500.0	643.6	563.3	8.012	SF
Susan Lancaster Fed Com #122H - Wellbore #1 - BLM P	6,440.3	6,344.6	119.2	71.4	2.491	CC, ES
Susan Lancaster Fed Com #122H - Wellbore #1 - BLM P	6,500.0	6,402.7	120.0	71.6	2.478	SF
Susan Lancaster Fed Com #131H - Wellbore #1 - BLM P	2,902.6	2,904.6	42.4	22.0	2.080	CC
Susan Lancaster Fed Com #131H - Wellbore #1 - BLM P	3,000.0	3,001.5	42.6	21.5	2.024	ES, SF
Susan Lancaster Fed Com #132H - Wellbore #1 - BLM P	3,400.0	3,403.0	30.1	6.1	1.256	Level 3, CC, ES
Susan Lancaster Fed Com #132H - Wellbore #1 - BLM P	4,700.0	4,702.2	39.8	6.8	1.206	Level 2, SF
Susan Lancaster Fed Com #141H - Wellbore #1 - BLM P	2,900.6	2,901.4	670.0	649.6	32.942	CC
Susan Lancaster Fed Com #141H - Wellbore #1 - BLM P	3,000.0	2,987.0	670.4	649.5	31.936	ES
Susan Lancaster Fed Com #141H - Wellbore #1 - BLM P	10,300.0	10,213.4	785.1	707.3	10.083	SF
Susan Lancaster Fed Com #142H - Wellbore #1 - BLM P	7,738.3	7,615.9	170.7	110.4	2.832	CC, ES
Susan Lancaster Fed Com #142H - Wellbore #1 - BLM P	7,800.0	7,674.8	171.7	111.0	2.830	SF
Susan Lancaster Fed Com #151H - Wellbore #1 - BLM P	2,900.0	2,901.0	143.2	122.8	7.041	CC, ES
Susan Lancaster Fed Com #151H - Wellbore #1 - BLM P	10,800.0	10,817.1	448.2	365.5	5.417	SF
Susan Lancaster Fed Com #152H - Wellbore #1 - BLM P	4,986.4	4,957.0	50.4	14.7	1.413	Level 3, CC
Susan Lancaster Fed Com #152H - Wellbore #1 - BLM P	5,000.0	4,970.4	50.4	14.6	1.409	Level 3, ES, SF
Susan Lancaster Fed Com #201H - Wellbore #1 - BLM P	3,402.1	3,403.1	30.0	6.1	1.253	Level 3, CC
Susan Lancaster Fed Com #201H - Wellbore #1 - BLM P	11,500.0	11,519.5	92.1	1.3	1.014	Level 2, ES, SF
Susan Lancaster Fed Com #202H - Wellbore #1 - BLM P	4,395.8	4,384.8	92.7	62.0	3.018	CC
Susan Lancaster Fed Com #202H - Wellbore #1 - BLM P	4,400.0	4,388.9	92.7	61.9	3.015	ES, SF
Susan Lancaster Fed Com #242H - Wellbore #1 - BLM P	4,495.3	4,479.5	43.1	11.5	1.363	Level 3, CC
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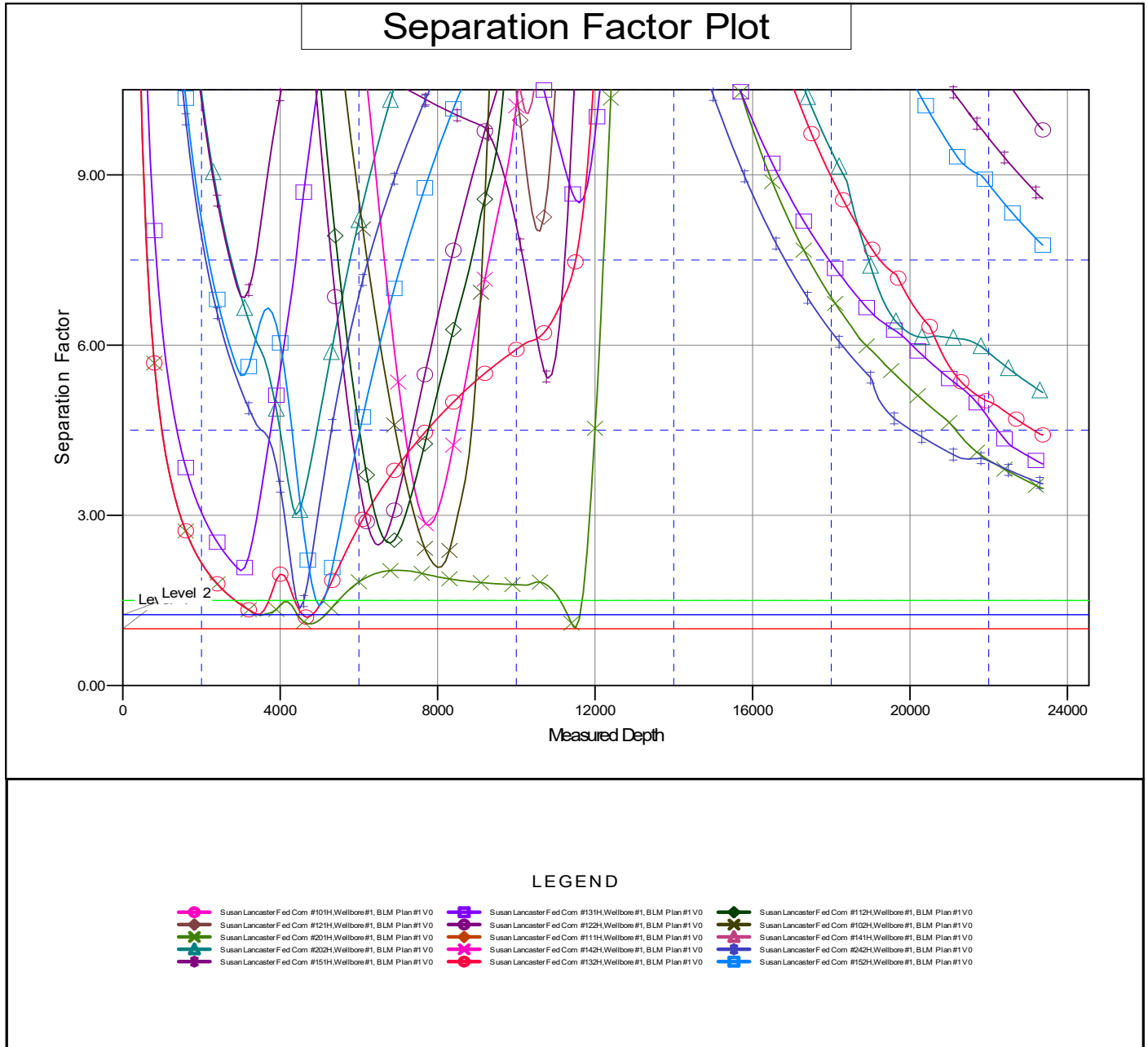
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3660.5usft
Reference Site:	Susan Lancaster	MD Reference:	KB @ 3660.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3660.5usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Susan Lancaster Fed Com #241H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.33°



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

Casing Table Specification Sheet

Susan Lancaster Fed Com 241H
SHL: 279' FNL & 1823' FWL Section 7
BHL: 2529' FSL & 662' FWL Section 36
Township/Range: 21S 32E
Elevation Above Sea Level: 3632

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1113	0 - 1113	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3014	0 - 3014	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 4639	0 - 4617	9.625	40	J-55	BUTT	1.125	1.125	1.8
Intermediate 3	8.75	0 - 11822	0 - 11525	7.625	29.7	P-110	VAM Sprint SF	1.125	1.125	1.8
Production	6.75	0 - 23375	0 - 12248	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Susan Lancaster Fed Com 241H
SHL: 279' FNL & 1823' FWL Section 7
BHL: 2529' FSL & 662' FWL Section 36
Township/Range: 21S 32E
Elevation Above Sea Level: 3632

Sundry Request

Matador requests the option to amend the well design of the Susan Lancaster Fed Com #241H and make the following changes to the current APD:

- Change well SHL from 279' FNL & 1683' FWL section 7 to 279' FNL & 1823' FWL section 7.
- Modify casing set depths as shown on the casing and cementing table. Cement volumes will be adjusted accordingly.

Drilling Operation Plan

Proposed Drilling Depth: 23375' MD / 12248' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.5005115 N / -103.7250453 W

TD Lat/Long (NAD83): 32.5293267 N / -103.7261684 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,043	1,043	415	Anhydrite	Barren
Salado (Top of Salt)	1,458	1,458	1,456	Salt	Barren
Lamar (Base of Salt)	2,914	2,914	379	Salt	Barren
Capitan	3,293	3,293	1,274	Limestone	Barren
Bell Canyon	4,589	4,567	2,062	Sandstone	Oil/Natural Gas
Brushy Canyon	6,741	6,629	1,731	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,554	8,360	394	Limestone	Oil/Natural Gas
Avalon Shale	9,867	8,754	586	Shale	Oil/Natural Gas
1st Bone Spring Carb	9,581	9,340	50	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	9,633	9,390	293	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	9,940	9,683	297	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,252	9,980	531	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	10,800	10,511	494	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	11,301	11,005	462	Sandstone	Oil/Natural Gas
Wolfcamp A	11,764	11,467	122	Shale	Oil/Natural Gas
Wolfcamp B	11,886	11,589	607	Shale	Oil/Natural Gas
KOP	11,972	11,675	-	Shale	Oil/Natural Gas
Wolfcamp D	12,626	12,196	-	Shale	Oil/Natural Gas
TD	23,375	12,248	-	Shale	Oil/Natural Gas

2. Notable Zones

Wolfcamp D 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 70'.

3. Pressure Control

Equipment

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

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

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

Testing Procedure

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

A third party company will test the BOPs.

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

Variance Request

Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, Intermediate 3 and Production Strings. The BOPs will not be tested again unless any flanges are separated.

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

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

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

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

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

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

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

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1113	0 - 1113	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3014	0 - 3014	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 4639	0 - 4617	9.625	40	J-55	BUTT	1.125	1.125	1.8
Intermediate 3	8.75	0 - 11822	0 - 11525	7.625	29.7	P-110 EC	VAM Sprint SF	1.125	1.125	1.8
Production	6.75	0 - 23375	0 - 12248	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)

- All applicable R-111-Q regulations will be adhered to

- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review

Variance Request

Matador request a variance to 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.

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	1070	1.72	1835	13.5	50%	0	C	5% NaCl + LCM
	Tail	550	1.38	757	14.8	50%	813	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1163'	Stg 2 Tail	660	1.78	1172	13.5	10%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Lead	1380	1.84	2547	12.5	50%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Tail	500	1.33	663	14.8	50%	2411	C	10% NaCl + 1% MgO + LCM
Intermediate 2 w/ DV @ 3064'	Stg 2 Tail	620	1.78	1110	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	160	2.63	423	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	280	1.38	392	13.2	35%	3711	A/C	5% NaCl + LCM
Intermediate 3	Primary	470	1.35	638	14.8	0%	5639	C	10% NaCl + 1% MgO + LCM
Production	Lead	490	1.47	722	12.5	0%	8554	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	750	1.35	1007	13.2	0%	11322	A/C	Fluid Loss + Dispersant + Retarder

Post-Completion Cement Design - Bradenhead Squeeze

String	Type	Sacks	Yield	Cu.	Weight	Percent	Top of	Class	Blend
Intermediate 3	Braden-head Squeeze	370	1.35	504	14.8	0%	4139	C	10% NaCl + 1% MgO + LCM

Matador plans to cement the Int. 3 string per R-111-Q.(C).(5).(c).(iii), leaving the annulus open between the 2nd intermediate and production casing strings for 1000' until hydraulic fracturing operations have been concluded, at which point a bradenhead cementing operation will take place, ensuring at least 500' tie-back into 2nd intermediate casing, but not higher than USGS Marker Bed No. 126. TOC for the primary production job will be determined by CBL prior to hydraulic fracturing. As per R-111-Q.(C).(6).(c).(i), the Int. 3 cement will have a zero free fluid and a HTHP fluid loss of 150 ml/30min.

As per R-111-Q.(C).(5).(c), the annulus between int. 3 and production casing will be monitored and designed to relieve pressure from annulus below the failure threshold.

5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1113	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	1113 - 3014	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Fresh Water	3014 - 4639	8.4 - 8.6	28-30	NC
Intermediate 3	8.75	Cut Brine	4639 - 11736	8.8 - 10	28-30	NC
Production	6.75	OBM/Cut Brine	11736 - 23375	12.5 - 14	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

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

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 8917 psi. Maximum anticipated surface pressure is 6222 psi. Expected bottom hole temperature is 207 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S safety package on all wells, attached is an "H₂S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Matador Production Company

Ranger/Arrowhead

Susan Lancaster

Susan Lancaster Fed Com #241H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

04 February, 2026

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project	Ranger/Arrowhead		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Susan Lancaster				
Site Position:		Northing:	546,006.58 usft	Latitude:	32° 29' 58.492 N
From:	Lat/Long	Easting:	689,503.73 usft	Longitude:	103° 43' 7.210 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.33 °

Well	Susan Lancaster Fed Com #241H					
Well Position	+N/-S	-23.3 usft	Northing:	545,983.31 usft	Latitude:	32° 29' 58.224 N
	+E/-W	670.2 usft	Easting:	690,173.90 usft	Longitude:	103° 42' 59.387 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,632.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	6.22	60.19	47,307.73522422

Design	BLM Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.68

Plan Survey Tool Program	Date	2/4/2026		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,374.3 BLM Plan #1 (Wellbore #1)	MWD OWSG MWD - Standard	

Planning Report

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Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,325.0	16.50	273.00	4,313.6	6.2	-117.8	2.00	2.00	0.00	273.00	
5,325.0	16.50	273.00	5,272.5	21.0	-401.4	0.00	0.00	0.00	0.00	
7,674.8	17.39	259.77	7,521.1	-23.9	-1,080.6	0.17	0.04	-0.56	-83.35	
10,233.0	17.39	259.77	9,962.3	-159.8	-1,833.1	0.00	0.00	0.00	0.00	
11,972.3	0.00	0.01	11,675.0	-206.3	-2,090.9	1.00	-1.00	0.00	180.00	KOP - Susan Lancast
12,872.3	90.00	344.20	12,248.0	345.0	-2,246.9	10.00	10.00	0.00	344.20	
13,646.5	90.00	359.68	12,248.0	1,109.2	-2,355.1	2.00	0.00	2.00	90.00	
19,037.4	90.00	359.68	12,248.0	6,500.0	-2,384.9	0.00	0.00	0.00	0.00	
19,644.5	90.00	347.54	12,248.0	7,102.3	-2,452.3	2.00	0.00	-2.00	-90.00	DP2 - Susan Lancast
21,326.5	90.00	347.54	12,248.0	8,744.6	-2,815.2	0.00	0.00	0.00	0.00	
21,933.4	90.00	359.68	12,248.0	9,346.7	-2,882.7	2.00	0.00	2.00	90.00	
23,375.0	90.00	359.68	12,248.0	10,788.2	-2,890.7	0.00	0.00	0.00	0.00	BHL - Susan Lancast

Planning Report

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Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,043.0	0.00	0.00	1,043.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,458.0	0.00	0.00	1,458.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,914.0	0.00	0.00	2,914.0	0.0	0.0	0.0	0.00	0.00	0.00
G30:CS14-CSB (Lamar/Tansil)									
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,293.0	0.00	0.00	3,293.0	0.0	0.0	0.0	0.00	0.00	0.00
Capitan									
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
3,600.0	2.00	273.00	3,600.0	0.1	-1.7	0.1	2.00	2.00	0.00
3,700.0	4.00	273.00	3,699.8	0.4	-7.0	0.4	2.00	2.00	0.00
3,800.0	6.00	273.00	3,799.5	0.8	-15.7	0.9	2.00	2.00	0.00
3,900.0	8.00	273.00	3,898.7	1.5	-27.8	1.6	2.00	2.00	0.00
4,000.0	10.00	273.00	3,997.5	2.3	-43.5	2.5	2.00	2.00	0.00
4,100.0	12.00	273.00	4,095.6	3.3	-62.5	3.6	2.00	2.00	0.00
4,200.0	14.00	273.00	4,193.1	4.5	-85.0	4.9	2.00	2.00	0.00
4,300.0	16.00	273.00	4,289.6	5.8	-110.8	6.4	2.00	2.00	0.00
4,325.0	16.50	273.00	4,313.6	6.2	-117.8	6.8	2.00	2.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
Start 1000.0 hold at 4325.0 MD										
4,400.0	16.50	273.00	4,385.6	7.3	-139.1	8.1	0.00	0.00	0.00	
4,500.0	16.50	273.00	4,481.4	8.8	-167.4	9.7	0.00	0.00	0.00	
4,589.2	16.50	273.00	4,567.0	10.1	-192.8	11.2	0.00	0.00	0.00	
G25: Bell Cyn										
4,600.0	16.50	273.00	4,577.3	10.3	-195.8	11.4	0.00	0.00	0.00	
4,700.0	16.50	273.00	4,673.2	11.7	-224.2	13.0	0.00	0.00	0.00	
4,800.0	16.50	273.00	4,769.1	13.2	-252.5	14.6	0.00	0.00	0.00	
4,900.0	16.50	273.00	4,865.0	14.7	-280.9	16.3	0.00	0.00	0.00	
5,000.0	16.50	273.00	4,960.8	16.2	-309.3	17.9	0.00	0.00	0.00	
5,100.0	16.50	273.00	5,056.7	17.7	-337.6	19.6	0.00	0.00	0.00	
5,151.4	16.50	273.00	5,106.0	18.5	-352.2	20.4	0.00	0.00	0.00	
G13: Cherry Cyn.										
5,200.0	16.50	273.00	5,152.6	19.2	-366.0	21.2	0.00	0.00	0.00	
5,300.0	16.50	273.00	5,248.5	20.7	-394.3	22.9	0.00	0.00	0.00	
5,325.0	16.50	273.00	5,272.5	21.0	-401.4	23.3	0.00	0.00	0.00	
Start DLS 0.17 TFO -83.35										
5,400.0	16.52	272.56	5,344.4	22.1	-422.7	24.4	0.17	0.02	-0.59	
5,500.0	16.54	271.97	5,440.2	23.2	-451.1	25.7	0.17	0.02	-0.59	
5,600.0	16.56	271.39	5,536.1	24.0	-479.6	26.7	0.17	0.02	-0.58	
5,700.0	16.58	270.81	5,631.9	24.6	-508.1	27.4	0.17	0.02	-0.58	
5,800.0	16.61	270.22	5,727.8	24.8	-536.7	27.8	0.17	0.03	-0.58	
5,900.0	16.64	269.65	5,823.6	24.8	-565.3	28.0	0.17	0.03	-0.58	
6,000.0	16.67	269.07	5,919.4	24.5	-594.0	27.8	0.17	0.03	-0.58	
6,100.0	16.70	268.49	6,015.2	23.9	-622.7	27.3	0.17	0.03	-0.58	
6,200.0	16.73	267.92	6,111.0	23.0	-651.4	26.6	0.17	0.03	-0.57	
6,300.0	16.77	267.35	6,206.7	21.8	-680.2	25.6	0.17	0.03	-0.57	
6,400.0	16.80	266.78	6,302.5	20.3	-709.0	24.3	0.17	0.04	-0.57	
6,500.0	16.84	266.21	6,398.2	18.5	-737.9	22.7	0.17	0.04	-0.57	
6,600.0	16.88	265.65	6,493.9	16.5	-766.9	20.8	0.17	0.04	-0.56	
6,700.0	16.92	265.09	6,589.6	14.1	-795.8	18.6	0.17	0.04	-0.56	
6,741.2	16.94	264.86	6,629.0	13.1	-807.8	17.6	0.17	0.04	-0.56	
G7: Brushy Cyn.										
6,800.0	16.96	264.53	6,685.2	11.5	-824.9	16.1	0.17	0.04	-0.56	
6,900.0	17.01	263.97	6,780.9	8.6	-853.9	13.3	0.17	0.04	-0.56	
7,000.0	17.05	263.42	6,876.5	5.3	-883.0	10.3	0.17	0.05	-0.55	
7,100.0	17.10	262.87	6,972.1	1.8	-912.2	6.9	0.17	0.05	-0.55	
7,200.0	17.15	262.32	7,067.6	-2.0	-941.4	3.3	0.17	0.05	-0.55	
7,300.0	17.19	261.78	7,163.2	-6.0	-970.6	-0.6	0.17	0.05	-0.54	
7,400.0	17.25	261.24	7,258.7	-10.4	-999.9	-4.8	0.17	0.05	-0.54	
7,500.0	17.30	260.70	7,354.2	-15.1	-1,029.2	-9.3	0.17	0.05	-0.54	
7,600.0	17.35	260.16	7,449.7	-20.0	-1,058.6	-14.1	0.17	0.05	-0.53	
7,674.8	17.39	259.77	7,521.1	-23.9	-1,080.6	-17.9	0.17	0.06	-0.53	
Start 2558.2 hold at 7674.8 MD										
7,700.0	17.39	259.77	7,545.1	-25.2	-1,088.0	-19.2	0.00	0.00	0.00	
7,800.0	17.39	259.77	7,640.5	-30.6	-1,117.4	-24.3	0.00	0.00	0.00	
7,900.0	17.39	259.77	7,736.0	-35.9	-1,146.8	-29.5	0.00	0.00	0.00	
8,000.0	17.39	259.77	7,831.4	-41.2	-1,176.2	-34.6	0.00	0.00	0.00	
8,100.0	17.39	259.77	7,926.8	-46.5	-1,205.6	-39.8	0.00	0.00	0.00	
8,200.0	17.39	259.77	8,022.2	-51.8	-1,235.1	-44.9	0.00	0.00	0.00	
8,300.0	17.39	259.77	8,117.7	-57.1	-1,264.5	-50.0	0.00	0.00	0.00	
8,400.0	17.39	259.77	8,213.1	-62.4	-1,293.9	-55.2	0.00	0.00	0.00	
8,500.0	17.39	259.77	8,308.5	-67.7	-1,323.3	-60.3	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,553.9	17.39	259.77	8,360.0	-70.6	-1,339.2	-63.1	0.00	0.00	0.00	
G4: BSG (CS9)										
8,600.0	17.39	259.77	8,403.9	-73.0	-1,352.7	-65.5	0.00	0.00	0.00	
8,700.0	17.39	259.77	8,499.4	-78.4	-1,382.1	-70.6	0.00	0.00	0.00	
8,800.0	17.39	259.77	8,594.8	-83.7	-1,411.6	-75.8	0.00	0.00	0.00	
8,900.0	17.39	259.77	8,690.2	-89.0	-1,441.0	-80.9	0.00	0.00	0.00	
8,966.8	17.39	259.77	8,754.0	-92.5	-1,460.6	-84.4	0.00	0.00	0.00	
L8.2: U. Avalon Shale										
9,000.0	17.39	259.77	8,785.7	-94.3	-1,470.4	-86.1	0.00	0.00	0.00	
9,100.0	17.39	259.77	8,881.1	-99.6	-1,499.8	-91.2	0.00	0.00	0.00	
9,185.8	17.39	259.77	8,963.0	-104.2	-1,525.1	-95.6	0.00	0.00	0.00	
L6.3: Avalon Carb										
9,200.0	17.39	259.77	8,976.5	-104.9	-1,529.2	-96.4	0.00	0.00	0.00	
9,300.0	17.39	259.77	9,071.9	-110.2	-1,558.6	-101.5	0.00	0.00	0.00	
9,400.0	17.39	259.77	9,167.4	-115.5	-1,588.1	-106.7	0.00	0.00	0.00	
9,500.0	17.39	259.77	9,262.8	-120.8	-1,617.5	-111.8	0.00	0.00	0.00	
9,580.9	17.39	259.77	9,340.0	-125.1	-1,641.3	-116.0	0.00	0.00	0.00	
L5.3: FBSC										
9,600.0	17.39	259.77	9,358.2	-126.1	-1,646.9	-116.9	0.00	0.00	0.00	
9,633.3	17.39	259.77	9,390.0	-127.9	-1,656.7	-118.7	0.00	0.00	0.00	
L5.1: FBSC										
9,700.0	17.39	259.77	9,453.7	-131.5	-1,676.3	-122.1	0.00	0.00	0.00	
9,717.1	17.39	259.77	9,470.0	-132.4	-1,681.3	-123.0	0.00	0.00	0.00	
M. FBSC										
9,800.0	17.39	259.77	9,549.1	-136.8	-1,705.7	-127.2	0.00	0.00	0.00	
9,900.0	17.39	259.77	9,644.5	-142.1	-1,735.1	-132.4	0.00	0.00	0.00	
9,940.3	17.39	259.77	9,683.0	-144.2	-1,747.0	-134.5	0.00	0.00	0.00	
L4.3: SBSC										
10,000.0	17.39	259.77	9,739.9	-147.4	-1,764.6	-137.5	0.00	0.00	0.00	
10,100.0	17.39	259.77	9,835.4	-152.7	-1,794.0	-142.7	0.00	0.00	0.00	
10,200.0	17.39	259.77	9,930.8	-158.0	-1,823.4	-147.8	0.00	0.00	0.00	
10,233.0	17.39	259.77	9,962.3	-159.8	-1,833.1	-149.5	0.00	0.00	0.00	
Start Drop -1.00										
10,251.6	17.21	259.77	9,980.0	-160.7	-1,838.5	-150.5	1.00	-1.00	0.00	
L4.1: SBSC										
10,300.0	16.72	259.77	10,026.3	-163.3	-1,852.4	-152.9	1.00	-1.00	0.00	
10,400.0	15.72	259.77	10,122.4	-168.2	-1,879.9	-157.7	1.00	-1.00	0.00	
10,500.0	14.72	259.77	10,218.8	-172.9	-1,905.8	-162.2	1.00	-1.00	0.00	
10,600.0	13.72	259.77	10,315.8	-177.2	-1,930.0	-166.5	1.00	-1.00	0.00	
10,700.0	12.72	259.77	10,413.1	-181.3	-1,952.5	-170.4	1.00	-1.00	0.00	
10,800.0	11.72	259.77	10,510.9	-185.1	-1,973.3	-174.0	1.00	-1.00	0.00	
10,800.1	11.72	259.77	10,511.0	-185.1	-1,973.3	-174.1	0.00	0.00	0.00	
L3.3: TBSC										
10,900.0	10.72	259.77	10,608.9	-188.5	-1,992.4	-177.4	1.00	-1.00	0.00	
11,000.0	9.72	259.77	10,707.4	-191.7	-2,009.9	-180.5	1.00	-1.00	0.00	
11,100.0	8.72	259.77	10,806.1	-194.5	-2,025.7	-183.2	1.00	-1.00	0.00	
11,200.0	7.72	259.77	10,905.0	-197.1	-2,039.8	-185.7	1.00	-1.00	0.00	
11,300.0	6.72	259.77	11,004.2	-199.3	-2,052.1	-187.8	1.00	-1.00	0.00	
11,300.8	6.72	259.77	11,005.0	-199.3	-2,052.2	-187.9	1.00	-1.00	0.00	
L3.1: TBSC										
11,400.0	5.72	259.77	11,103.6	-201.2	-2,062.8	-189.7	1.00	-1.00	0.00	
11,500.0	4.72	259.77	11,203.2	-202.8	-2,071.8	-191.3	1.00	-1.00	0.00	
11,600.0	3.72	259.77	11,303.0	-204.2	-2,079.0	-192.5	1.00	-1.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,700.0	2.72	259.77	11,402.8	-205.2	-2,084.5	-193.5	1.00	-1.00	0.00	
11,764.3	2.08	259.77	11,467.0	-205.6	-2,087.2	-194.0	1.00	-1.00	0.00	
L2: WFMP A										
11,800.0	1.72	259.77	11,502.7	-205.8	-2,088.4	-194.2	1.00	-1.00	0.00	
11,886.3	0.86	259.77	11,589.0	-206.2	-2,090.3	-194.5	1.00	-1.00	0.00	
WFMP B										
11,900.0	0.72	259.77	11,602.7	-206.2	-2,090.5	-194.5	1.00	-1.00	0.00	
11,972.3	0.00	0.01	11,675.0	-206.3	-2,090.9	-194.6	1.00	-1.00	0.00	
Start Build 10.00 - KOP - Susan Lancaster Fed Com #241H										
12,000.0	2.77	344.20	11,702.7	-205.7	-2,091.1	-194.0	10.00	10.00	0.00	
12,100.0	12.77	344.20	11,801.6	-192.7	-2,094.8	-181.0	10.00	10.00	0.00	
12,200.0	22.77	344.20	11,896.7	-163.3	-2,103.1	-151.6	10.00	10.00	0.00	
12,300.0	32.77	344.20	11,985.1	-118.6	-2,115.7	-106.7	10.00	10.00	0.00	
12,390.4	41.81	344.20	12,057.0	-65.9	-2,130.6	-54.0	10.00	10.00	0.00	
WFMP C										
12,400.0	42.77	344.20	12,064.1	-59.7	-2,132.4	-47.8	10.00	10.00	0.00	
12,500.0	52.77	344.20	12,131.2	11.4	-2,152.5	23.5	10.00	10.00	0.00	
12,600.0	62.77	344.20	12,184.5	92.7	-2,175.5	104.9	10.00	10.00	0.00	
12,626.4	65.41	344.20	12,196.0	115.6	-2,182.0	127.8	10.00	10.00	0.00	
WFMP D										
12,700.0	72.77	344.20	12,222.2	181.7	-2,200.7	194.0	10.00	10.00	0.00	
12,800.0	82.77	344.20	12,243.4	275.6	-2,227.3	288.0	10.00	10.00	0.00	
12,872.3	90.00	344.20	12,248.0	345.0	-2,246.9	357.5	10.00	10.00	0.00	
Start DLS 2.00 TFO 90.00										
12,900.0	90.00	344.75	12,248.0	371.7	-2,254.3	384.3	2.00	0.00	2.00	
12,908.9	90.00	344.93	12,248.0	380.3	-2,256.6	392.9	2.00	0.00	2.00	
FPP - Susan Lancaster Fed Com #241H										
13,000.0	90.00	346.75	12,248.0	468.6	-2,278.9	481.3	2.00	0.00	2.00	
13,100.0	90.00	348.75	12,248.0	566.3	-2,300.1	579.2	2.00	0.00	2.00	
13,200.0	90.00	350.75	12,248.0	664.7	-2,317.9	677.7	2.00	0.00	2.00	
13,300.0	90.00	352.75	12,248.0	763.7	-2,332.3	776.7	2.00	0.00	2.00	
13,400.0	90.00	354.75	12,248.0	863.1	-2,343.2	876.2	2.00	0.00	2.00	
13,500.0	90.00	356.75	12,248.0	962.8	-2,350.6	975.9	2.00	0.00	2.00	
13,600.0	90.00	358.75	12,248.0	1,062.7	-2,354.5	1,075.9	2.00	0.00	2.00	
13,646.5	90.00	359.68	12,248.0	1,109.2	-2,355.1	1,122.3	2.00	0.00	2.00	
Start 5390.9 hold at 13646.5 MD										
13,700.0	90.00	359.68	12,248.0	1,162.7	-2,355.4	1,175.9	0.00	0.00	0.00	
13,800.0	90.00	359.68	12,248.0	1,262.7	-2,356.0	1,275.9	0.00	0.00	0.00	
13,900.0	90.00	359.68	12,248.0	1,362.7	-2,356.5	1,375.9	0.00	0.00	0.00	
14,000.0	90.00	359.68	12,248.0	1,462.7	-2,357.1	1,475.9	0.00	0.00	0.00	
14,100.0	90.00	359.68	12,248.0	1,562.7	-2,357.6	1,575.9	0.00	0.00	0.00	
14,200.0	90.00	359.68	12,248.0	1,662.7	-2,358.2	1,675.9	0.00	0.00	0.00	
14,300.0	90.00	359.68	12,248.0	1,762.7	-2,358.7	1,775.9	0.00	0.00	0.00	
14,400.0	90.00	359.68	12,248.0	1,862.7	-2,359.3	1,875.9	0.00	0.00	0.00	
14,500.0	90.00	359.68	12,248.0	1,962.7	-2,359.8	1,975.9	0.00	0.00	0.00	
14,600.0	90.00	359.68	12,248.0	2,062.7	-2,360.4	2,075.9	0.00	0.00	0.00	
14,700.0	90.00	359.68	12,248.0	2,162.7	-2,360.9	2,175.9	0.00	0.00	0.00	
14,800.0	90.00	359.68	12,248.0	2,262.7	-2,361.5	2,275.9	0.00	0.00	0.00	
14,900.0	90.00	359.68	12,248.0	2,362.7	-2,362.0	2,375.9	0.00	0.00	0.00	
15,000.0	90.00	359.68	12,248.0	2,462.7	-2,362.6	2,475.9	0.00	0.00	0.00	
15,100.0	90.00	359.68	12,248.0	2,562.7	-2,363.1	2,575.9	0.00	0.00	0.00	
15,200.0	90.00	359.68	12,248.0	2,662.7	-2,363.7	2,675.9	0.00	0.00	0.00	
15,300.0	90.00	359.68	12,248.0	2,762.7	-2,364.2	2,775.9	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	90.00	359.68	12,248.0	2,862.7	-2,364.8	2,875.9	0.00	0.00	0.00
15,500.0	90.00	359.68	12,248.0	2,962.7	-2,365.4	2,975.9	0.00	0.00	0.00
15,600.0	90.00	359.68	12,248.0	3,062.7	-2,365.9	3,075.9	0.00	0.00	0.00
15,700.0	90.00	359.68	12,248.0	3,162.7	-2,366.5	3,175.9	0.00	0.00	0.00
15,800.0	90.00	359.68	12,248.0	3,262.7	-2,367.0	3,275.9	0.00	0.00	0.00
15,900.0	90.00	359.68	12,248.0	3,362.7	-2,367.6	3,375.9	0.00	0.00	0.00
16,000.0	90.00	359.68	12,248.0	3,462.7	-2,368.1	3,475.9	0.00	0.00	0.00
16,100.0	90.00	359.68	12,248.0	3,562.7	-2,368.7	3,575.9	0.00	0.00	0.00
16,200.0	90.00	359.68	12,248.0	3,662.7	-2,369.2	3,675.9	0.00	0.00	0.00
16,300.0	90.00	359.68	12,248.0	3,762.7	-2,369.8	3,775.9	0.00	0.00	0.00
16,400.0	90.00	359.68	12,248.0	3,862.7	-2,370.3	3,875.9	0.00	0.00	0.00
16,500.0	90.00	359.68	12,248.0	3,962.7	-2,370.9	3,975.9	0.00	0.00	0.00
16,600.0	90.00	359.68	12,248.0	4,062.7	-2,371.4	4,075.9	0.00	0.00	0.00
16,700.0	90.00	359.68	12,248.0	4,162.7	-2,372.0	4,175.9	0.00	0.00	0.00
16,800.0	90.00	359.68	12,248.0	4,262.7	-2,372.5	4,275.9	0.00	0.00	0.00
16,900.0	90.00	359.68	12,248.0	4,362.7	-2,373.1	4,375.9	0.00	0.00	0.00
17,000.0	90.00	359.68	12,248.0	4,462.7	-2,373.6	4,475.9	0.00	0.00	0.00
17,100.0	90.00	359.68	12,248.0	4,562.7	-2,374.2	4,575.9	0.00	0.00	0.00
17,200.0	90.00	359.68	12,248.0	4,662.7	-2,374.7	4,675.9	0.00	0.00	0.00
17,300.0	90.00	359.68	12,248.0	4,762.7	-2,375.3	4,775.9	0.00	0.00	0.00
17,400.0	90.00	359.68	12,248.0	4,862.7	-2,375.9	4,875.9	0.00	0.00	0.00
17,500.0	90.00	359.68	12,248.0	4,962.7	-2,376.4	4,975.9	0.00	0.00	0.00
17,600.0	90.00	359.68	12,248.0	5,062.7	-2,377.0	5,075.9	0.00	0.00	0.00
17,700.0	90.00	359.68	12,248.0	5,162.7	-2,377.5	5,175.9	0.00	0.00	0.00
17,800.0	90.00	359.68	12,248.0	5,262.7	-2,378.1	5,275.9	0.00	0.00	0.00
17,900.0	90.00	359.68	12,248.0	5,362.7	-2,378.6	5,375.9	0.00	0.00	0.00
18,000.0	90.00	359.68	12,248.0	5,462.7	-2,379.2	5,475.9	0.00	0.00	0.00
18,100.0	90.00	359.68	12,248.0	5,562.7	-2,379.7	5,575.9	0.00	0.00	0.00
18,200.0	90.00	359.68	12,248.0	5,662.7	-2,380.3	5,675.9	0.00	0.00	0.00
18,300.0	90.00	359.68	12,248.0	5,762.7	-2,380.8	5,775.9	0.00	0.00	0.00
18,400.0	90.00	359.68	12,248.0	5,862.7	-2,381.4	5,875.9	0.00	0.00	0.00
18,500.0	90.00	359.68	12,248.0	5,962.6	-2,381.9	5,975.9	0.00	0.00	0.00
18,600.0	90.00	359.68	12,248.0	6,062.6	-2,382.5	6,075.9	0.00	0.00	0.00
18,700.0	90.00	359.68	12,248.0	6,162.6	-2,383.0	6,175.9	0.00	0.00	0.00
18,800.0	90.00	359.68	12,248.0	6,262.6	-2,383.6	6,275.9	0.00	0.00	0.00
18,900.0	90.00	359.68	12,248.0	6,362.6	-2,384.1	6,375.9	0.00	0.00	0.00
19,000.0	90.00	359.68	12,248.0	6,462.6	-2,384.7	6,475.9	0.00	0.00	0.00
19,037.4	90.00	359.68	12,248.0	6,500.0	-2,384.9	6,513.2	0.00	0.00	0.00
Start DLS 2.00 TFO -90.00									
19,100.0	90.00	358.43	12,248.0	6,562.6	-2,385.9	6,575.9	2.00	0.00	-2.00
19,200.0	90.00	356.43	12,248.0	6,662.5	-2,390.4	6,675.8	2.00	0.00	-2.00
19,300.0	90.00	354.43	12,248.0	6,762.2	-2,398.4	6,775.5	2.00	0.00	-2.00
19,400.0	90.00	352.43	12,248.0	6,861.5	-2,409.8	6,874.9	2.00	0.00	-2.00
19,500.0	90.00	350.43	12,248.0	6,960.4	-2,424.7	6,973.9	2.00	0.00	-2.00
19,600.0	90.00	348.43	12,248.0	7,058.7	-2,443.1	7,072.3	2.00	0.00	-2.00
19,644.5	90.00	347.54	12,248.0	7,102.3	-2,452.3	7,115.8	2.00	0.00	-2.00
Start 1682.0 hold at 19644.5 MD									
19,700.0	90.00	347.54	12,248.0	7,156.4	-2,464.3	7,170.1	0.00	0.00	0.00
19,800.0	90.00	347.54	12,248.0	7,254.1	-2,485.9	7,267.9	0.00	0.00	0.00
19,900.0	90.00	347.54	12,248.0	7,351.7	-2,507.5	7,365.6	0.00	0.00	0.00
20,000.0	90.00	347.54	12,248.0	7,449.4	-2,529.0	7,463.4	0.00	0.00	0.00
20,100.0	90.00	347.54	12,248.0	7,547.0	-2,550.6	7,561.1	0.00	0.00	0.00
20,147.8	90.00	347.54	12,248.0	7,593.7	-2,560.9	7,607.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Susan Lancaster Fed Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 3660.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
DP1 - Susan Lancaster Fed Com #241H										
20,200.0	90.00	347.54	12,248.0	7,644.7	-2,572.2	7,658.9	0.00	0.00	0.00	
20,300.0	90.00	347.54	12,248.0	7,742.3	-2,593.8	7,756.7	0.00	0.00	0.00	
20,400.0	90.00	347.54	12,248.0	7,839.9	-2,615.3	7,854.4	0.00	0.00	0.00	
20,500.0	90.00	347.54	12,248.0	7,937.6	-2,636.9	7,952.2	0.00	0.00	0.00	
20,600.0	90.00	347.54	12,248.0	8,035.2	-2,658.5	8,050.0	0.00	0.00	0.00	
20,700.0	90.00	347.54	12,248.0	8,132.9	-2,680.1	8,147.7	0.00	0.00	0.00	
20,800.0	90.00	347.54	12,248.0	8,230.5	-2,701.6	8,245.5	0.00	0.00	0.00	
20,855.0	90.00	347.54	12,248.0	8,284.3	-2,713.5	8,299.3	0.00	0.00	0.00	
BPP1 - Susan Lancaster Fed Com #241H										
20,900.0	90.00	347.54	12,248.0	8,328.2	-2,723.2	8,343.3	0.00	0.00	0.00	
21,000.0	90.00	347.54	12,248.0	8,425.8	-2,744.8	8,441.0	0.00	0.00	0.00	
21,100.0	90.00	347.54	12,248.0	8,523.5	-2,766.4	8,538.8	0.00	0.00	0.00	
21,200.0	90.00	347.54	12,248.0	8,621.1	-2,787.9	8,636.5	0.00	0.00	0.00	
21,300.0	90.00	347.54	12,248.0	8,718.8	-2,809.5	8,734.3	0.00	0.00	0.00	
21,326.5	90.00	347.54	12,248.0	8,744.6	-2,815.2	8,760.2	0.00	0.00	0.00	
Start DLS 2.00 TFO 90.00										
21,400.0	90.00	349.01	12,248.0	8,816.6	-2,830.2	8,832.3	2.00	0.00	2.00	
21,500.0	90.00	351.01	12,248.0	8,915.1	-2,847.5	8,930.8	2.00	0.00	2.00	
21,505.5	90.00	351.12	12,248.0	8,920.5	-2,848.4	8,936.2	2.00	0.00	2.00	
DP2 - Susan Lancaster Fed Com #241H										
21,600.0	90.00	353.01	12,248.0	9,014.1	-2,861.4	9,029.9	2.00	0.00	2.00	
21,700.0	90.00	355.01	12,248.0	9,113.5	-2,871.8	9,129.4	2.00	0.00	2.00	
21,800.0	90.00	357.01	12,248.0	9,213.3	-2,878.8	9,229.2	2.00	0.00	2.00	
21,900.0	90.00	359.01	12,248.0	9,313.2	-2,882.3	9,329.2	2.00	0.00	2.00	
21,933.4	90.00	359.68	12,248.0	9,346.7	-2,882.7	9,362.6	2.00	0.00	2.00	
Start 1441.5 hold at 21933.4 MD										
22,000.0	90.00	359.68	12,248.0	9,413.2	-2,883.0	9,429.2	0.00	0.00	0.00	
22,100.0	90.00	359.68	12,248.0	9,513.2	-2,883.6	9,529.2	0.00	0.00	0.00	
22,200.0	90.00	359.68	12,248.0	9,613.2	-2,884.2	9,629.2	0.00	0.00	0.00	
22,300.0	90.00	359.68	12,248.0	9,713.2	-2,884.7	9,729.2	0.00	0.00	0.00	
22,400.0	90.00	359.68	12,248.0	9,813.2	-2,885.3	9,829.2	0.00	0.00	0.00	
22,500.0	90.00	359.68	12,248.0	9,913.2	-2,885.8	9,929.2	0.00	0.00	0.00	
22,600.0	90.00	359.68	12,248.0	10,013.2	-2,886.4	10,029.2	0.00	0.00	0.00	
22,700.0	90.00	359.68	12,248.0	10,113.2	-2,887.0	10,129.2	0.00	0.00	0.00	
22,800.0	90.00	359.68	12,248.0	10,213.2	-2,887.5	10,229.2	0.00	0.00	0.00	
22,900.0	90.00	359.68	12,248.0	10,313.2	-2,888.1	10,329.2	0.00	0.00	0.00	
23,000.0	90.00	359.68	12,248.0	10,413.2	-2,888.6	10,429.2	0.00	0.00	0.00	
23,100.0	90.00	359.68	12,248.0	10,513.2	-2,889.2	10,529.2	0.00	0.00	0.00	
23,200.0	90.00	359.68	12,248.0	10,613.2	-2,889.8	10,629.2	0.00	0.00	0.00	
23,300.0	90.00	359.68	12,248.0	10,713.2	-2,890.3	10,729.2	0.00	0.00	0.00	
23,375.0	90.00	359.68	12,248.0	10,788.2	-2,890.7	10,804.2	0.00	0.00	0.00	
TD at 23375.0 - BHL - Susan Lancaster Fed Com #241H										

Planning Report

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Project:	Ranger/Arrowhead	MD Reference:	KB @ 3660.5usft
Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
KOP - Susan Lancaster - plan hits target center - Point	0.00	0.01	11,675.0	-206.3	-2,090.9	545,777.00	688,083.00	32° 29' 56.301 N	103° 43' 23.814 W	
FPP - Susan Lancaster I - plan hits target center - Point	0.00	0.00	12,248.0	380.3	-2,256.6	546,363.58	687,917.25	32° 30' 2.115 N	103° 43' 25.710 W	
DP1 - Susan Lancaster I - plan misses target center by 36.9usft at 20147.8usft MD (12248.0 TVD, 7593.7 N, -2560.9 E) - Point	0.00	0.00	12,248.0	7,601.7	-2,524.9	553,585.00	687,649.00	32° 31' 13.589 N	103° 43' 28.361 W	
DP2 - Susan Lancaster I - plan misses target center by 5.6usft at 21505.5usft MD (12248.0 TVD, 8920.5 N, -2848.4 E) - Point	0.00	0.00	12,248.0	8,919.7	-2,853.9	554,903.00	687,320.00	32° 31' 26.650 N	103° 43' 32.116 W	
BHL - Susan Lancaster I - plan hits target center - Point	0.00	0.00	12,248.0	10,788.2	-2,890.7	556,771.48	687,283.16	32° 31' 45.141 N	103° 43' 32.421 W	
BPP1 - Susan Lancaster - plan hits target center - Point	0.00	0.00	12,248.0	8,284.3	-2,713.5	554,267.58	687,460.40	32° 31' 20.354 N	103° 43' 30.518 W	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,043.0	1,043.0	Rustler		0.00	359.68	
1,458.0	1,458.0	Salado		0.00	359.68	
2,914.0	2,914.0	G30:CS14-CSB (Lamar/Tansil)		0.00	359.68	
3,293.0	3,293.0	Capitan		0.00	359.68	
4,589.2	4,567.0	G25: Bell Cyn		0.00	359.68	
5,151.4	5,106.0	G13: Cherry Cyn.		0.00	359.68	
6,741.2	6,629.0	G7: Brushy Cyn.		0.00	359.68	
8,553.9	8,360.0	G4: BSG (CS9)		0.00	359.68	
8,966.8	8,754.0	L8.2: U. Avalon Shale		0.00	359.68	
9,185.8	8,963.0	L6.3: Avalon Carb		0.00	359.68	
9,580.9	9,340.0	L5.3: FBSC		0.00	359.68	
9,633.3	9,390.0	L5.1: FBSC		0.00	359.68	
9,717.1	9,470.0	M. FBSC		0.00	359.68	
9,940.3	9,683.0	L4.3: SBSC		0.00	359.68	
10,251.6	9,980.0	L4.1: SBSC		0.00	359.68	
10,800.1	10,511.0	L3.3: TBSC		0.00	359.68	
11,300.8	11,005.0	L3.1: TBSC		0.00	359.68	
11,764.3	11,467.0	L2: WFMP A		0.00	359.68	
11,886.3	11,589.0	WFMP B		0.00	359.68	
12,390.4	12,057.0	WFMP C		0.00	359.68	
12,626.4	12,196.0	WFMP D		0.00	359.68	

Planning Report

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Site:	Susan Lancaster	North Reference:	Grid
Well:	Susan Lancaster Fed Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
3,500.0	3,500.0	0.0	0.0	Start Build 2.00	
4,325.0	4,313.6	6.2	-117.8	Start 1000.0 hold at 4325.0 MD	
5,325.0	5,272.5	21.0	-401.4	Start DLS 0.17 TFO -83.35	
7,674.8	7,521.1	-23.9	-1,080.6	Start 2558.2 hold at 7674.8 MD	
10,233.0	9,962.3	-159.8	-1,833.1	Start Drop -1.00	
11,972.3	11,675.0	-206.3	-2,090.9	Start Build 10.00	
12,872.3	12,248.0	345.0	-2,246.9	Start DLS 2.00 TFO 90.00	
13,646.5	12,248.0	1,109.2	-2,355.1	Start 5390.9 hold at 13646.5 MD	
19,037.4	12,248.0	6,500.0	-2,384.9	Start DLS 2.00 TFO -90.00	
19,644.5	12,248.0	7,102.3	-2,452.3	Start 1682.0 hold at 19644.5 MD	
21,326.5	12,248.0	8,744.6	-2,815.2	Start DLS 2.00 TFO 90.00	
21,933.4	12,248.0	9,346.7	-2,882.7	Start 1441.5 hold at 21933.4 MD	
23,375.0	12,248.0	10,788.2	-2,890.7	TD at 23375.0	

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 560654

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 560654
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	All previous COA's still apply.	3/20/2026