

Well Name: BLUE CHIP 14 FEDERAL COM	Well Location: T21S / R32E / SEC 11 / SESE / 32.4887737 / -103.6376871	County or Parish/State: LEA / NM
Well Number: 511H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM14155	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: MATADOR PRODUCTION COMPANY	

Notice of Intent

Sundry ID: 2855352

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/02/2025

Time Sundry Submitted: 07:38

Date proposed operation will begin: 05/30/2025

Procedure Description: Matador requests to change the Blue Chip 14 Federal Com 511H target from Bone Springs to Wolfcamp D. All the updated drill docs are attached.

NOI Attachments

Procedure Description

- LO_BLUE_CHIP_14_FED_COM_511H_REV4_S_signed_20250602073731.pdf
- Blue_Chip_14_Fed_Com_511H_Drill_Plan__2__20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_R_111_Q_WBS_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_Co_Flex_Hose_Certs_20250530073824.pdf
- Blue_Chip_14_Fed_Com_511H_Csg_Specs_5.5in_20lb_TLW_SC_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_Directional_Well_Plan_v3_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_5_String_Wellhead_Diagram_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_10M_BOP_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_Offline_Cementing___Int_20250530073823.pdf
- Blue_Chip_14_Fed_Com_511H_Break_Testing_Sundry_20250530073824.pdf

Received by OCD: 9/4/2025 7:37:00 AM

Page 2 of 71

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Blue_Chip_14_Fed_Com_511H_Offline_Cementing____Surface_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_Directional_AC_Report_v3_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_10M_Choke_Manifold_20250530073823.pdf

BLM_SPUD_NOTIFICATION_Spud_Notice_20250530073822.pdf

Blue_Chip_14_Fed_Com_511H_Csg_Spcs_7.625in_29.7_Sprint_SF_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_Directional_Wall_Plot_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_Closed_Loop_System_20250530073822.pdf

Blue_Chip_14_Fed_Com_511H_Casing_Design_Criteria_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_21.25_Diverter_Stack_20250530073823.pdf

Blue_Chip_14_Fed_Com_511H_Casing_Table_Spec_20250530073822.pdf

Blue_Chip_14_Fed_Com_511H_Csg_Specs_7.625in_29.7_BUTT_20250530073823.pdf

Conditions of Approval

Additional

BLUE_CHIP_14_FEDERAL_COM_511H_Sundry_2855352_COA_20250616142500.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: MAY 30, 2025 07:39 AM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory Consultant

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLASState: TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

Received by OCD: 9/4/2025 7:37:00 AM

Page 3 of 71

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US Well Number:	Operator: MATADOR PRODUCTION COMPANY	

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: 06/17/2025
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: SESE / 955 FSL / 239 FEL / TWSP: 21S / RANGE: 32E / SECTION: 11 / LAT: 32.4887737 / LONG: -103.6376871 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 100 FNL / 987 FEL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.4858699 / LONG: -103.6401114 (TVD: 10062 feet, MD: 10171 feet)
PPP: SESE / 0 FSL / 987 FEL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.4716358 / LONG: -103.6401228 (TVD: 10400 feet, MD: 15488 feet)
PPP: SENE / 2638 FSL / 987 FEL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.4788866 / LONG: -103.640117 (TVD: 10400 feet, MD: 12850 feet)
PPP: NESE / 1319 FSL / 987 FEL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.4752612 / LONG: -103.6401199 (TVD: 10400 feet, MD: 14169 feet)
PPP: NESE / 2643 FNL / 989 FEL / TWSP: 21S / RANGE: 32E / SECTION: 23 / LAT: 32.464372 / LONG: -103.6401286 (TVD: 10400 feet, MD: 18130 feet)
BHL: SESE / 110 FSL / 990 FEL / TWSP: 21S / RANGE: 32E / SECTION: 23 / LAT: 32.457409 / LONG: -103.6401342 (TVD: 10400 feet, MD: 20666 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	BLUE CHIP 14 FEDERAL COM 511H
APD ID:	10400087326
LOCATION:	Section 11, T21S, R32E. NMP.
COUNTY:	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 type="radio"/> Multibowl	<input checked="" 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 type="radio"/> Waste Min. Plan	<input checked="" 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.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) 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.

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.

B. CASING PROGRAM

Note: Only the 5-string casing program was approved at this time.

Note: The Surface casing set depth was adjusted per BLM geologist's recommendation. "The operator proposes to set surface casing at 1609' which will not adequately protect usable water zones. Instead, set surface casing depth at 1700' which will adequately protect all water zones. If salt is encountered, set casing at least 25' above the salt."

1. The **20-inch** surface casing shall be set at approximately **1,700 ft.** (a minimum of 25 feet (Lea 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.
2. The **13-3/8 inch 1st** intermediate casing shall be set in a competent bed at approximately **3,387 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.

3. The **9-5/8 inch 2nd** intermediate casing shall be set in a competent bed at approximately **5,113 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 (**VAM SPRINT SF connections**) shall be set in a competent bed at approximately **12,234 ft.** (12,137 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).
 - ❖ Pressure monitoring device and Pressure Safety Valves must be installed at surface on the open annulus for the life of the well.
5. Operator has proposed to set **5-1/2 inch** production casing at approximately **23,115 ft.** (12,860 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.

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 **Lea County: 575-689-5981**.

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. Using a Convention Wellhead: Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi**. Operator has proposed to use a diverter along with a 2000-psi annular after running surface casing. This option is **APPROVED**. Annular preventer shall be tested to 1,400 psi (70% Working Pressure).
3. Using a Multibowl Wellhead: Operator has proposed to use a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, Intermediate 3, and Production Strings. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5M annular along with 10M BOP stack**. Annular shall be tested to 5,000 psi. The BOP/BOPE shall be 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 **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **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 Lea County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the 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

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends 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.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-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 06/16/2025

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 type="checkbox"/> Initial Submittal
			<input checked="" type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 98033	Pool Name WC-025 G-10 S2133280; WOLFCAMP
Property Code	Property Name BLUE CHIP 14 FED COM	Well Number 511H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3854'
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
P	11	21-S	32-E	-	955' S	239' E	N 32.4887737	W 103.6376871	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
P	23	21-S	32-E	-	110' S	990' E	N 32.4574090	W 103.6401342	LEA

Dedicated Acres 320	Infill or Defining Well INFILL	Defining Well API -	Overlapping Spacing Unit (Y/N)	Consolidated Code
Order Numbers			Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input 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
A	14	21-S	32-E	-	50' N	987' E	N 32.4860074	W 103.6401113	LEA

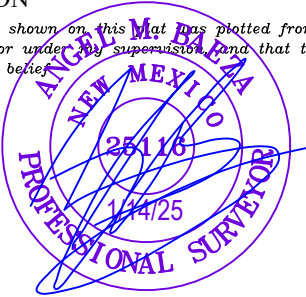
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	14	21-S	32-E	-	100' N	987' E	N 32.4858699	W 103.6401114	LEA

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
P	23	21-S	32-E	-	110' S	990' E	N 32.4574090	W 103.6401342	LEA

Unitized Area or Area of Uniform Intrest -	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3882'
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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> <i>Nicky Fitzgerald</i> 6/2/2025 Signature Date Nicky Fitzgerald Print Name nicky.fitzgerald@matadorresources.com E-mail Address		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this Plat has 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 and Seal of Professional Surveyor Date 1/14/2025 Certificate Number Date of Survey 25116 08/18/2023	
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C-102

Submit Electronically
Via OCD PermittingState of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal
Type:

- ☐ Initial Submittal
- ☒ Amended Report
- ☐ As Drilled

Property Name and Well Number

BLUE CHIP 14 FED COM 511H

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=755830 Y=542246
LAT.: N 32.4887737
LONG.: W 103.6376871

NAD 1927
X=714648 Y=542185
LAT.: N 32.4886510
LONG.: W 103.6371973

955' FSL 239' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=755089 Y=541235
LAT.: N 32.4860074
LONG.: W 103.6401113

NAD 1927
X=713907 Y=541173
LAT.: N 32.4858846
LONG.: W 103.6396215

50 FNL 987' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=755089 Y=541185
LAT.: N 32.4858699
LONG.: W 103.6401114

NAD 1927
X=713908 Y=541123
LAT.: N 32.4857472
LONG.: W 103.6396216

100 FNL 987' FEL

BLM PERF. POINT (BPP1)

NEW MEXICO EAST
NAD 1983
X=755104 Y=538644
LAT.: N 32.4788866
LONG.: W 103.6401170

NAD 1927
X=713922 Y=538583
LAT.: N 32.4787638
LONG.: W 103.6396275

2638' FSL 987' FEL

BLM PERF. POINT (BPP2)

NEW MEXICO EAST
NAD 1983
X=755112 Y=537325
LAT.: N 32.4752612
LONG.: W 103.6401199

NAD 1927
X=713930 Y=537264
LAT.: N 32.4751384
LONG.: W 103.6396305

1319' FSL 987' FEL

BLM PERF. POINT (BPP3)

NEW MEXICO EAST
NAD 1983
X=755119 Y=536006
LAT.: N 32.4716358
LONG.: W 103.6401228

NAD 1927
X=713938 Y=535945
LAT.: N 32.4715130
LONG.: W 103.6396336

0' FSL 987' FEL

BLM PERF. POINT (BPP4)

NEW MEXICO EAST
NAD 1983
X=755135 Y=533364
LAT.: N 32.4643720
LONG.: W 103.6401286

NAD 1927
X=713953 Y=533302
LAT.: N 32.4642492
LONG.: W 103.6396397

2643' FNL 989' FEL

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

NEW MEXICO EAST
NAD 1983
X=755150 Y=530830
LAT.: N 32.4574090
LONG.: W 103.6401342

NAD 1927
X=713968 Y=530769
LAT.: N 32.4572861
LONG.: W 103.6396455

110' FSL 990' FEL

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.
08/18/2023

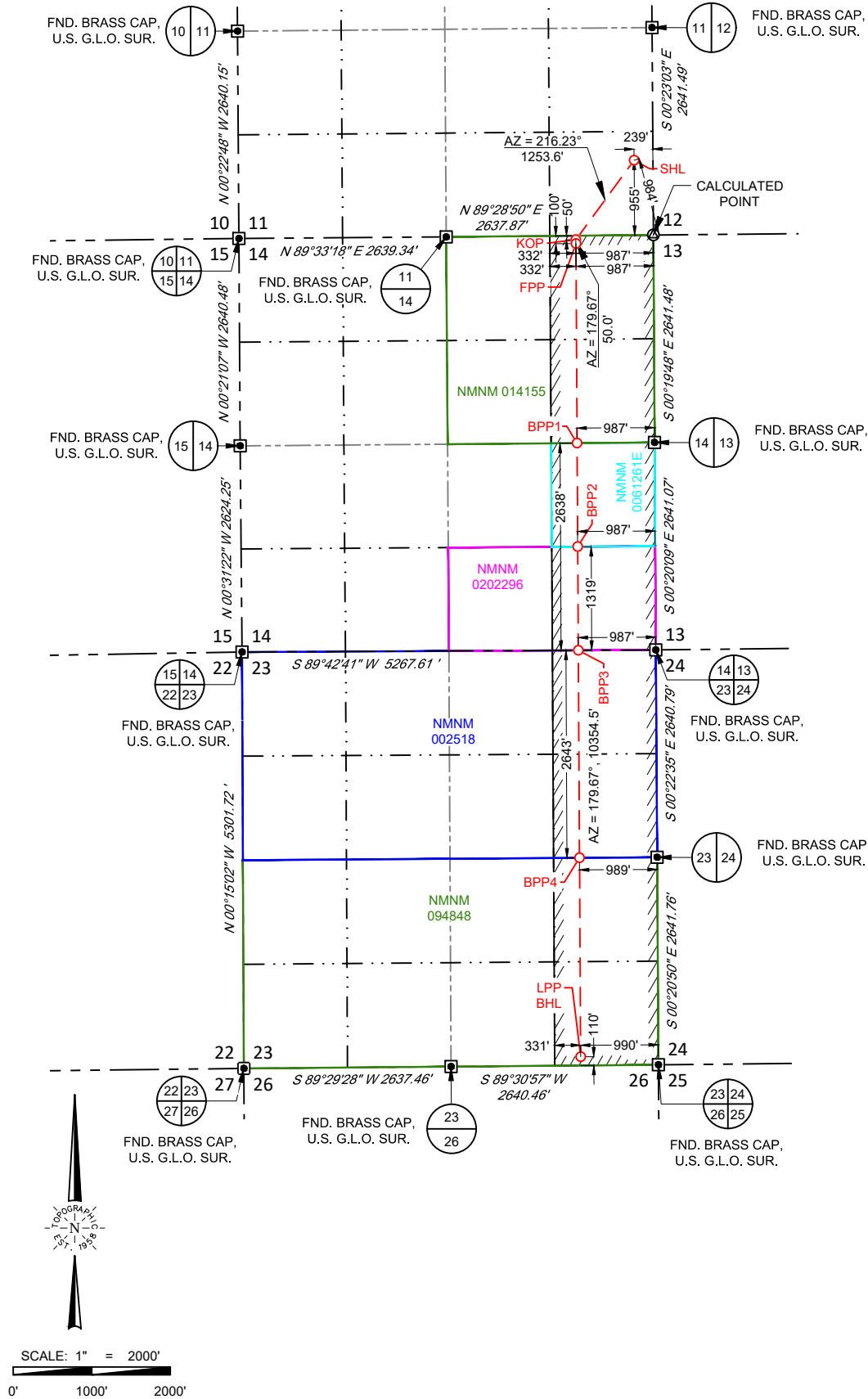
Date of Survey

Signature and Seal of Professional Surveyor:





SECTION 11, TOWNSHIP 21-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=755830 Y=542246
LAT.: N 32.4887737
LONG.: W 103.6376871
955' FSL 239' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=755089 Y=541235
LAT.: N 32.4860074
LONG.: W 103.6401113
50 FNL 987' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=755089 Y=541185
LAT.: N 32.4858699
LONG.: W 103.6401114
100 FNL 987' FEL

BLM PERF. POINT (BPP1)

NEW MEXICO EAST
NAD 1983
X=755104 Y=538644
LAT.: N 32.4788866
LONG.: W 103.6401170
2638' FSL 987' FEL

BLM PERF. POINT (BPP2)

NEW MEXICO EAST
NAD 1983
X=755112 Y=537325
LAT.: N 32.4752612
LONG.: W 103.6401199
1319' FSL 987' FEL

BLM PERF. POINT (BPP3)

NEW MEXICO EAST
NAD 1983
X=755119 Y=536006
LAT.: N 32.4716358
LONG.: W 103.6401228
0' FSL 987' FEL

BLM PERF. POINT (BPP4)

NEW MEXICO EAST
NAD 1983
X=755135 Y=533364
LAT.: N 32.4643720
LONG.: W 103.6401286
2643' FNL 989' FEL

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

NEW MEXICO EAST
NAD 1983
X=755150 Y=530830
LAT.: N 32.4574090
LONG.: W 103.6401342
110' FSL 990' FEL

LEASE NAME & WELL NO.: BLUE CHIP 14 FED COM 511H

SECTION 11 TWP 21-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 955' FSL & 239' FEL

DISTANCE & DIRECTION
FROM INT. OF US-180 E/US-62 E & NM-176 E. GO SOUTHEAST ON NM-176 E
±6.4 MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2.7 MILES TO
A POINT ±529 FEET SOUTHWEST OF THE LOCATION.



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

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.

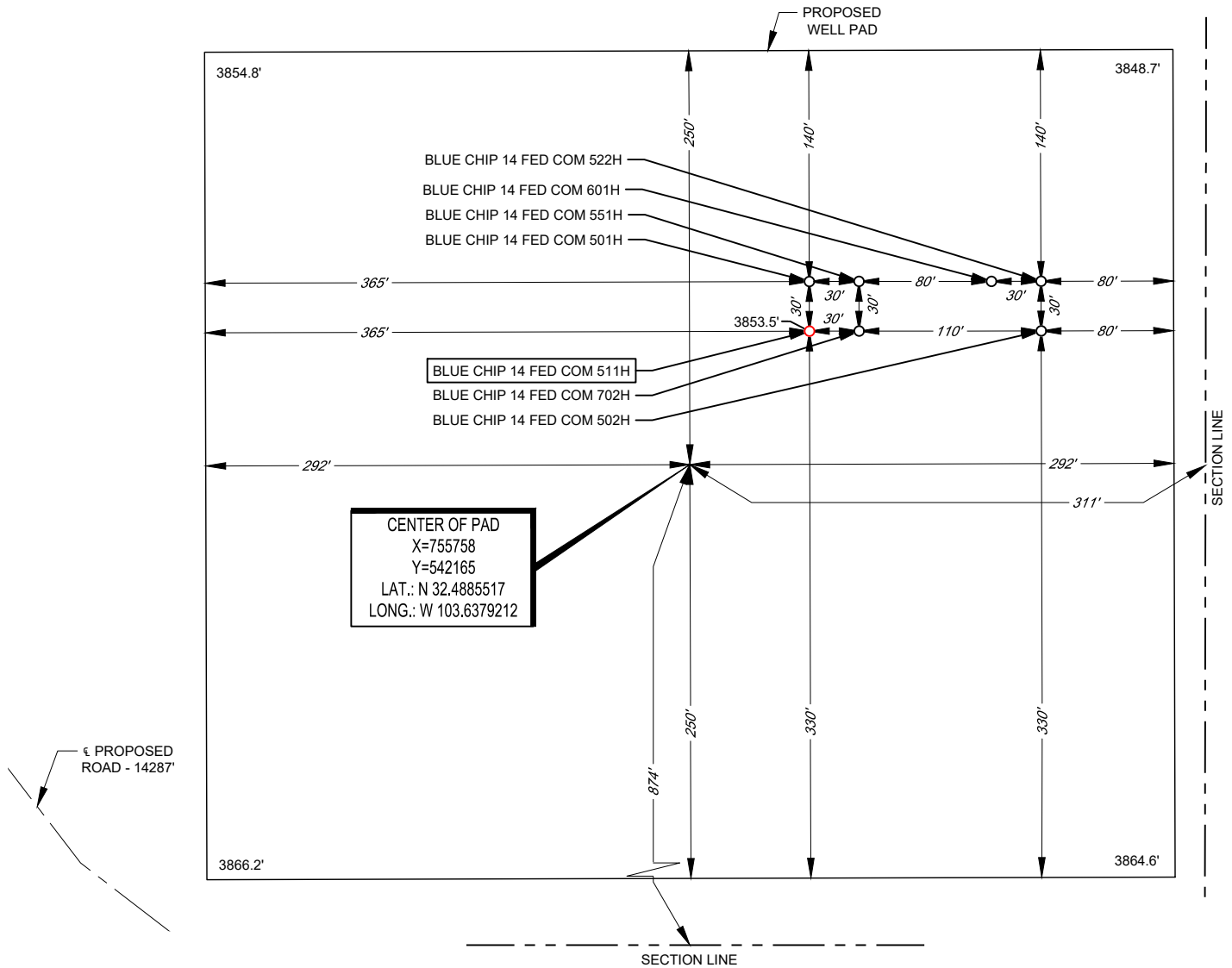
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



LEGEND

--- SECTION LINE
 --- PROPOSED ROAD

SECTION 11, TOWNSHIP 21-S, RANGE 32-E, N.M.P.M.
 LEA COUNTY, NEW MEXICO



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

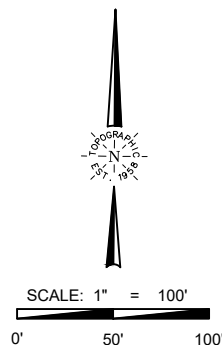
LEASE NAME & WELL NO.: BLUE CHIP 14 FED COM 511H
 511H LATITUDE N 32.4887737 511H LONGITUDE W 103.6376871

CENTER OF PAD IS 874' FSL & 311' FEL

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"



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

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 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

Drill Plan

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11
BHL: 110' FSL & 1261' FEL Section 23
Township/Range: 21S 32E
Elevation Above Sea Level: 3854
Drilling Operation Plan

Proposed Drilling Depth: 23115' MD / 12860' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.4860054 N / -103.6410013 W

TD Lat/Long (NAD83): 32.4574075 N / -103.6410156 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness	Lithology	Resource
Rustler	1,584	1,584	435	Anhydrite	Barren
Salado (Top of Salt)	2,019	2,019	1,268	Salt	Barren
Lamar (Base of Salt)	3,287	3,287	426	Salt	Barren
Capitan	3,713	3,713	1,350	Limestone	Barren
Bell Canyon	5,063	5,063	527	Sandstone	Oil/Natural Gas
Cherry Canyon	5,590	5,590	382	Sandstone	Oil/Natural Gas
Brushy Canyon	5,972	5,972	923	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,895	6,895	1,992	Limestone	Oil/Natural Gas
Upper Avalon Shale	8,887	8,887	302	Shale	Oil/Natural Gas
Avalon Carb	9,189	9,189	228	Carbonate	Oil/Natural Gas
Lower Avalon Shale	9,417	9,417	229	Shale	Oil/Natural Gas
1st Bone Spring Carb	9,646	9,646	208	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	9,854	9,854	274	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,128	10,128	296	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,424	10,424	534	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	10,958	10,958	438	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	11,396	11,396	254	Sandstone	Oil/Natural Gas
Wolfcamp A	11,650	11,650	99	Shale	Oil/Natural Gas
Wolfcamp B	11,749	11,749	745	Shale	Oil/Natural Gas
KOP	12,384	12,287	-	Shale	Oil/Natural Gas
Wolfcamp D	12,597	12,494	-	Shale	Oil/Natural Gas
TD	23,115	12,860	-	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 420'.

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.

Drill Plan**4. Casing & Cement**

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1609	0 - 1609	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3387	0 - 3387	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 5113	0 - 5113	9.625	40	J-55	BUTT	1.125	1.125	1.8
Intermediate 3	8.75	0 - 12234	0 - 12137	7.625	29.7	P-110 EC	VAM Sprint SF	1.125	1.125	1.8
Production	6.75	0 - 23115	0 - 12860	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 wave 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	1690	1.72	2905	13.5	50%	0	C	5% NaCl + LCM
	Tail	580	1.38	806	14.8	50%	1287	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1659'	Stg 2 Tail	940	1.78	1678	13.5	10%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Lead	1550	1.84	2858	12.5	50%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Tail	560	1.33	741	14.8	50%	2710	C	10% NaCl + 1% MgO + LCM
Intermediate 2 w/ DV @ 3437'	Stg 2 Tail	700	1.78	1246	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	180	2.63	469	10.3	35%	0	A/C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Stg 1 Tail	310	1.38	423	13.2	35%	4113	A/C	5% NaCl + LCM
Intermediate 3	Primary	470	1.35	632	14.8	0%	6113	C	10% NaCl + 1% MgO + LCM
Production	Lead	860	1.47	1262	12.5	0%	6895	A/C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	700	1.35	951	13.2	0%	11734	A/C	Fluid Loss + Dispersant + Retarder

Post-Completion Cement Design - Bradenhead Squeeze

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent	Top of	Class	Blend
Intermediate 3	Braden-head Squeeze	370	1.35	504	14.8	0%	4613	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 - 1609	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	1609 - 3387	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Fresh Water	3387 - 5113	8.4 - 8.6	28-30	NC
Intermediate 3	8.75	Cut Brine	5113 - 12234	8.6 - 9.8	28-30	NC
Production	6.75	OBM/Cut Brine	12234 - 23115	11 - 12.5	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 8359 psi. Maximum anticipated surface pressure is 5530 psi. Expected bottom hole temperature is 214 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.

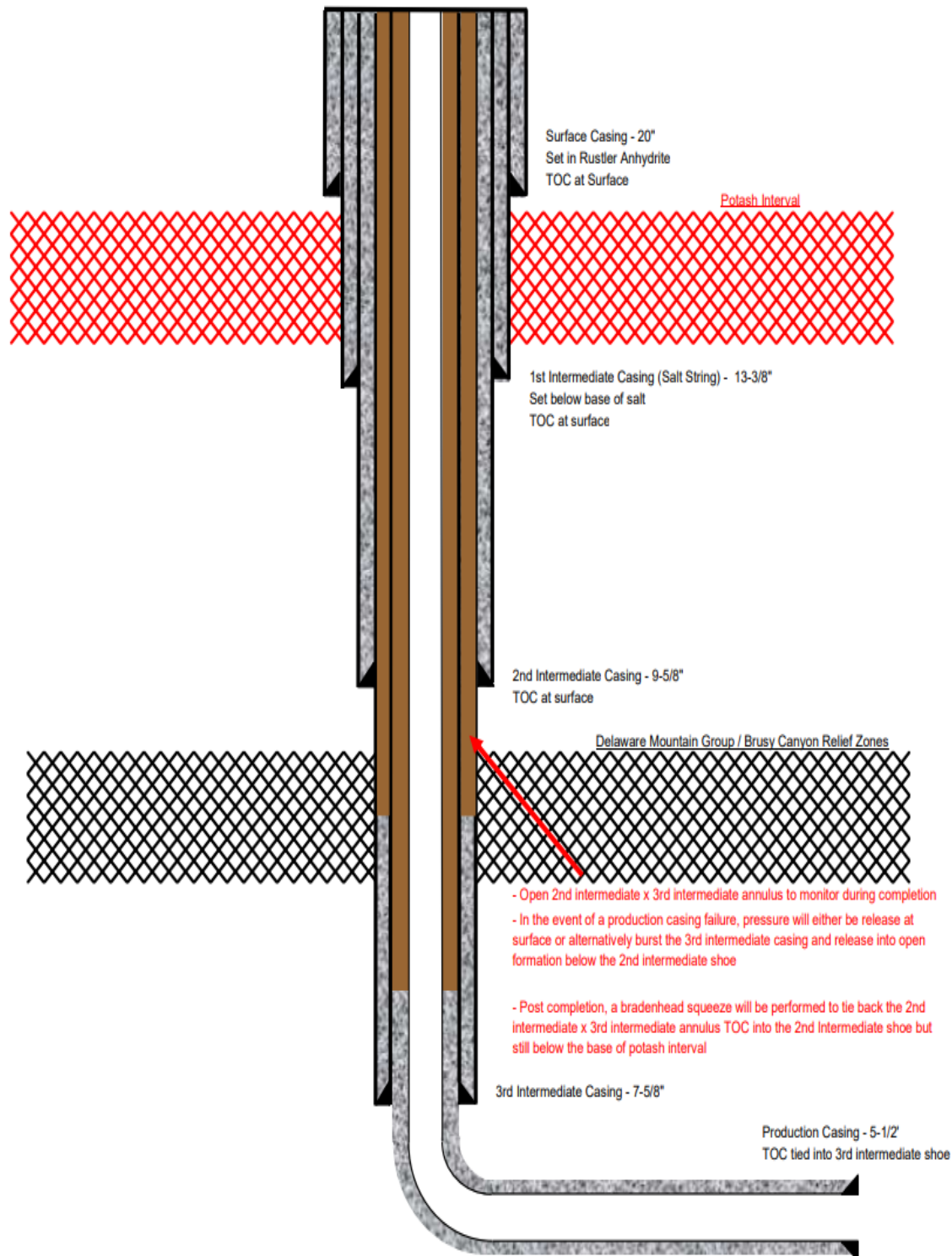
R-111-Q 5-String Wellbore Schematic

Blue Chip 14 Fed Com 511H

SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E

Elevation Above Sea Level: 3854'



Co-Flex Hose Certification

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'



CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2024-029-002

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

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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



Co-Flex Hose Certification



HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

No: 240220001

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

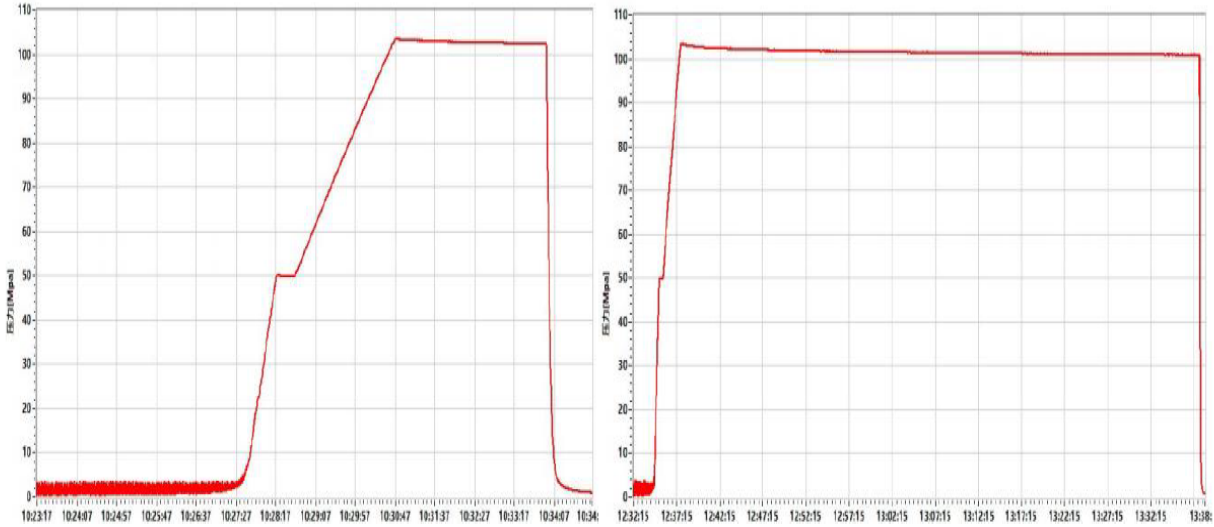
Rate of length change

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

Hydrostatic testing

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

Graph of pressure testing:



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD				
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Co-Flex Hose Certification

POWERTRACK

HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

№: 240220002

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

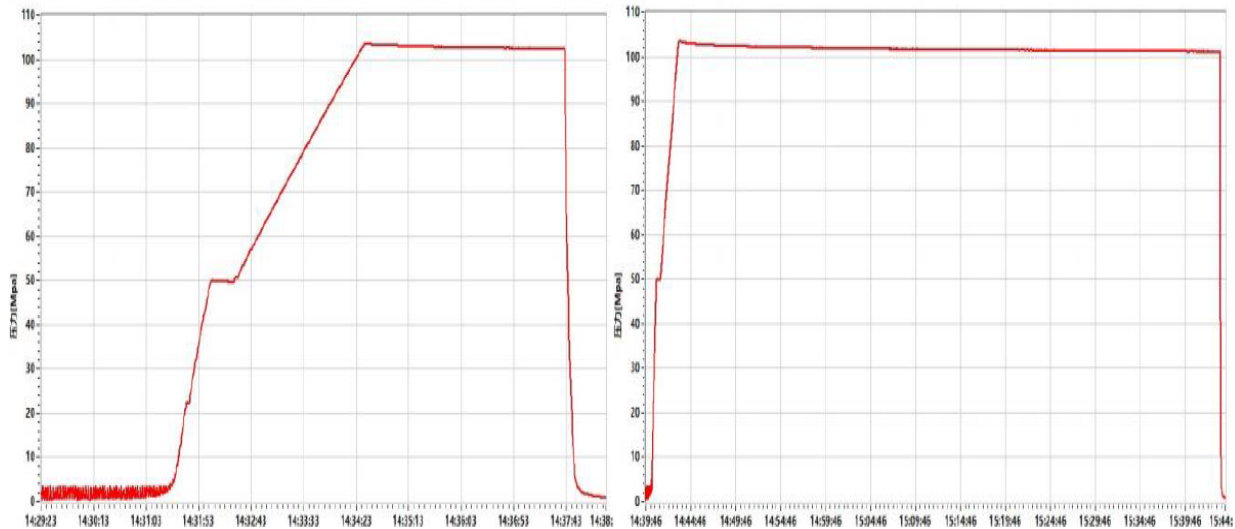
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than 65 mm (2½ in.)+ 0.01 L
Testing result	10000psi (69.0MPa) ,length change 8mm

Hydrostatic testing

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

Graph of pressure testing:



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

Co-Flex Hose Certification

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

**POWERTRACK**

CERTIFICATE OF CONFORMANCE

№:LT240220003

Product Name: Choke And Kill Hose

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

Serial Number: 7660215、7660216

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

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

QC Manager:

Jane C

Date:Feb 20, 2024

Co-Flex Hose Certification

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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Casing Specs - 5.5" 20lb Hunting TLW-SC

Blue Chip 14 Fed Com 511H

Township/Range: 21S 32E

SHL: 955' FSL & 239' FEL Section 11

Elevation Above Sea Level: 3854'



TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in ²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

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



Generated on Sep 03, 2019

Matador Production Company

Ranger/Arrowhead

Blue Chip

Blue Chip 14 Fed Com #511H

Wellbore #1

Plan: BLM Plan #2

Standard Planning Report

28 March, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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	Blue Chip					
Site Position:		Northing:	542,185.00 usft	Latitude:	32° 29' 19.148 N	
From:	Map	Easting:	714,648.00 usft	Longitude:	103° 38' 13.915 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well	Blue Chip 14 Fed Com #511H					
Well Position	+N/-S	-0.4 usft	Northing:	542,184.60 usft	Latitude:	32° 29' 19.144 N
	+E/-W	0.4 usft	Easting:	714,648.44 usft	Longitude:	103° 38' 13.910 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,854.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/15/2023	6.32	60.21	47,440.90544593

Design	BLM Plan #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.67

Plan Survey Tool Program		Date	3/28/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	23,115.6	BLM Plan #2 (Wellbore #1)	MWD	
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	8.00	227.00	1,598.7	-19.0	-20.4	2.00	2.00	0.00	227.00	
2,000.0	0.00	0.00	1,997.4	-38.0	-40.8	2.00	-2.00	0.00	180.00	
2,399.6	7.99	224.97	2,395.7	-57.7	-60.4	2.00	2.00	0.00	224.97	
11,851.6	7.99	224.97	11,756.0	-987.4	-989.2	0.00	0.00	0.00	0.00	
12,384.4	0.00	0.00	12,287.0	-1,013.6	-1,015.4	1.50	-1.50	0.00	180.00	KOP - Blue Chip 14 F
13,284.4	90.00	179.65	12,860.0	-1,586.5	-1,011.9	10.00	10.00	0.00	179.65	
23,115.6	90.00	179.65	12,860.0	-11,417.6	-951.9	0.00	0.00	0.00	0.00	BHL - Blue Chip 14 F

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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
1,100.0	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
Start Build 2.00									
1,300.0	2.00	227.00	1,300.0	-1.2	-1.3	1.2	2.00	2.00	0.00
1,400.0	4.00	227.00	1,399.8	-4.8	-5.1	4.7	2.00	2.00	0.00
1,500.0	6.00	227.00	1,499.5	-10.7	-11.5	10.6	2.00	2.00	0.00
1,586.2	7.72	227.00	1,585.0	-17.7	-19.0	17.6	2.00	2.00	0.00
Rustler									
1,600.0	8.00	227.00	1,598.7	-19.0	-20.4	18.9	2.00	2.00	0.00
Start Drop -2.00									
1,700.0	6.00	227.00	1,698.0	-27.3	-29.3	27.2	2.00	-2.00	0.00
1,800.0	4.00	227.00	1,797.6	-33.3	-35.7	33.1	2.00	-2.00	0.00
1,900.0	2.00	227.00	1,897.4	-36.8	-39.5	36.6	2.00	-2.00	0.00
2,000.0	0.00	0.00	1,997.4	-38.0	-40.8	37.8	2.00	-2.00	0.00
Start Build 2.00									
2,022.6	0.45	224.97	2,020.0	-38.1	-40.8	37.9	2.00	2.00	0.00
Salado									
2,100.0	2.00	224.97	2,097.4	-39.3	-42.0	39.0	2.00	2.00	0.00
2,200.0	4.00	224.97	2,197.2	-43.0	-45.7	42.7	2.00	2.00	0.00
2,300.0	6.00	224.97	2,296.9	-49.1	-51.9	48.8	2.00	2.00	0.00
2,399.6	7.99	224.97	2,395.7	-57.7	-60.4	57.4	2.00	2.00	0.00
Start 9452.1 hold at 2399.6 MD									
2,400.0	7.99	224.97	2,396.1	-57.8	-60.5	57.4	0.00	0.00	0.00
2,500.0	7.99	224.97	2,495.1	-67.6	-70.3	67.2	0.00	0.00	0.00
2,600.0	7.99	224.97	2,594.2	-77.4	-80.1	77.0	0.00	0.00	0.00
2,700.0	7.99	224.97	2,693.2	-87.3	-90.0	86.7	0.00	0.00	0.00
2,800.0	7.99	224.97	2,792.2	-97.1	-99.8	96.5	0.00	0.00	0.00
2,900.0	7.99	224.97	2,891.2	-106.9	-109.6	106.3	0.00	0.00	0.00
3,000.0	7.99	224.97	2,990.3	-116.8	-119.4	116.1	0.00	0.00	0.00
3,100.0	7.99	224.97	3,089.3	-126.6	-129.3	125.9	0.00	0.00	0.00
3,200.0	7.99	224.97	3,188.3	-136.4	-139.1	135.6	0.00	0.00	0.00
3,300.0	7.99	224.97	3,287.4	-146.3	-148.9	145.4	0.00	0.00	0.00
3,300.6	7.99	224.97	3,288.0	-146.3	-149.0	145.5	0.00	0.00	0.00
G30_Base Salt/Yates									
3,400.0	7.99	224.97	3,386.4	-156.1	-158.7	155.2	0.00	0.00	0.00
3,500.0	7.99	224.97	3,485.4	-165.9	-168.6	165.0	0.00	0.00	0.00
3,600.0	7.99	224.97	3,584.5	-175.8	-178.4	174.7	0.00	0.00	0.00
3,700.0	7.99	224.97	3,683.5	-185.6	-188.2	184.5	0.00	0.00	0.00
3,730.8	7.99	224.97	3,714.0	-188.6	-191.3	187.5	0.00	0.00	0.00
Capitan Top									
3,800.0	7.99	224.97	3,782.5	-195.4	-198.1	194.3	0.00	0.00	0.00
3,900.0	7.99	224.97	3,881.5	-205.3	-207.9	204.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.0	7.99	224.97	3,980.6	-215.1	-217.7	213.9	0.00	0.00	0.00
4,100.0	7.99	224.97	4,079.6	-225.0	-227.5	223.6	0.00	0.00	0.00
4,200.0	7.99	224.97	4,178.6	-234.8	-237.4	233.4	0.00	0.00	0.00
4,300.0	7.99	224.97	4,277.7	-244.6	-247.2	243.2	0.00	0.00	0.00
4,400.0	7.99	224.97	4,376.7	-254.5	-257.0	253.0	0.00	0.00	0.00
4,500.0	7.99	224.97	4,475.7	-264.3	-266.8	262.8	0.00	0.00	0.00
4,600.0	7.99	224.97	4,574.7	-274.1	-276.7	272.5	0.00	0.00	0.00
4,700.0	7.99	224.97	4,673.8	-284.0	-286.5	282.3	0.00	0.00	0.00
4,800.0	7.99	224.97	4,772.8	-293.8	-296.3	292.1	0.00	0.00	0.00
4,900.0	7.99	224.97	4,871.8	-303.6	-306.1	301.9	0.00	0.00	0.00
5,000.0	7.99	224.97	4,970.9	-313.5	-316.0	311.6	0.00	0.00	0.00
5,094.1	7.99	224.97	5,064.0	-322.7	-325.2	320.8	0.00	0.00	0.00
Bell Cyn.									
5,100.0	7.99	224.97	5,069.9	-323.3	-325.8	321.4	0.00	0.00	0.00
5,200.0	7.99	224.97	5,168.9	-333.1	-335.6	331.2	0.00	0.00	0.00
5,300.0	7.99	224.97	5,267.9	-343.0	-345.4	341.0	0.00	0.00	0.00
5,400.0	7.99	224.97	5,367.0	-352.8	-355.3	350.8	0.00	0.00	0.00
5,500.0	7.99	224.97	5,466.0	-362.6	-365.1	360.5	0.00	0.00	0.00
5,600.0	7.99	224.97	5,565.0	-372.5	-374.9	370.3	0.00	0.00	0.00
5,626.2	7.99	224.97	5,591.0	-375.1	-377.5	372.9	0.00	0.00	0.00
Cherry Cyn.									
5,700.0	7.99	224.97	5,664.1	-382.3	-384.8	380.1	0.00	0.00	0.00
5,800.0	7.99	224.97	5,763.1	-392.2	-394.6	389.9	0.00	0.00	0.00
5,900.0	7.99	224.97	5,862.1	-402.0	-404.4	399.7	0.00	0.00	0.00
6,000.0	7.99	224.97	5,961.1	-411.8	-414.2	409.4	0.00	0.00	0.00
6,012.0	7.99	224.97	5,973.0	-413.0	-415.4	410.6	0.00	0.00	0.00
Brushy Cyn.									
6,100.0	7.99	224.97	6,060.2	-421.7	-424.1	419.2	0.00	0.00	0.00
6,200.0	7.99	224.97	6,159.2	-431.5	-433.9	429.0	0.00	0.00	0.00
6,300.0	7.99	224.97	6,258.2	-441.3	-443.7	438.8	0.00	0.00	0.00
6,400.0	7.99	224.97	6,357.3	-451.2	-453.5	448.5	0.00	0.00	0.00
6,500.0	7.99	224.97	6,456.3	-461.0	-463.4	458.3	0.00	0.00	0.00
6,600.0	7.99	224.97	6,555.3	-470.8	-473.2	468.1	0.00	0.00	0.00
6,700.0	7.99	224.97	6,654.3	-480.7	-483.0	477.9	0.00	0.00	0.00
6,800.0	7.99	224.97	6,753.4	-490.5	-492.8	487.7	0.00	0.00	0.00
6,900.0	7.99	224.97	6,852.4	-500.3	-502.7	497.4	0.00	0.00	0.00
6,944.0	7.99	224.97	6,896.0	-504.7	-507.0	501.7	0.00	0.00	0.00
BSGL									
7,000.0	7.99	224.97	6,951.4	-510.2	-512.5	507.2	0.00	0.00	0.00
7,100.0	7.99	224.97	7,050.5	-520.0	-522.3	517.0	0.00	0.00	0.00
7,200.0	7.99	224.97	7,149.5	-529.8	-532.1	526.8	0.00	0.00	0.00
7,300.0	7.99	224.97	7,248.5	-539.7	-542.0	536.6	0.00	0.00	0.00
7,400.0	7.99	224.97	7,347.5	-549.5	-551.8	546.3	0.00	0.00	0.00
7,500.0	7.99	224.97	7,446.6	-559.4	-561.6	556.1	0.00	0.00	0.00
7,600.0	7.99	224.97	7,545.6	-569.2	-571.4	565.9	0.00	0.00	0.00
7,700.0	7.99	224.97	7,644.6	-579.0	-581.3	575.7	0.00	0.00	0.00
7,800.0	7.99	224.97	7,743.7	-588.9	-591.1	585.4	0.00	0.00	0.00
7,805.0	7.99	224.97	7,748.6	-589.4	-591.6	585.9	0.00	0.00	0.00
BPP1 - Blue Chip 14 Fed Com #511H									
7,900.0	7.99	224.97	7,842.7	-598.7	-600.9	595.2	0.00	0.00	0.00
8,000.0	7.99	224.97	7,941.7	-608.5	-610.8	605.0	0.00	0.00	0.00
8,100.0	7.99	224.97	8,040.7	-618.4	-620.6	614.8	0.00	0.00	0.00
8,200.0	7.99	224.97	8,139.8	-628.2	-630.4	624.6	0.00	0.00	0.00
8,300.0	7.99	224.97	8,238.8	-638.0	-640.2	634.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
8,400.0	7.99	224.97	8,337.8	-647.9	-650.1	644.1	0.00	0.00	0.00
8,500.0	7.99	224.97	8,436.9	-657.7	-659.9	653.9	0.00	0.00	0.00
8,600.0	7.99	224.97	8,535.9	-667.5	-669.7	663.7	0.00	0.00	0.00
8,700.0	7.99	224.97	8,634.9	-677.4	-679.5	673.4	0.00	0.00	0.00
8,800.0	7.99	224.97	8,734.0	-687.2	-689.4	683.2	0.00	0.00	0.00
8,900.0	7.99	224.97	8,833.0	-697.0	-699.2	693.0	0.00	0.00	0.00
8,955.6	7.99	224.97	8,888.0	-702.5	-704.6	698.4	0.00	0.00	0.00
U. Avalon Shale									
9,000.0	7.99	224.97	8,932.0	-706.9	-709.0	702.8	0.00	0.00	0.00
9,100.0	7.99	224.97	9,031.0	-716.7	-718.8	712.6	0.00	0.00	0.00
9,200.0	7.99	224.97	9,130.1	-726.6	-728.7	722.3	0.00	0.00	0.00
9,260.5	7.99	224.97	9,190.0	-732.5	-734.6	728.3	0.00	0.00	0.00
Avalon Carb									
9,300.0	7.99	224.97	9,229.1	-736.4	-738.5	732.1	0.00	0.00	0.00
9,400.0	7.99	224.97	9,328.1	-746.2	-748.3	741.9	0.00	0.00	0.00
9,490.8	7.99	224.97	9,418.0	-755.2	-757.2	750.8	0.00	0.00	0.00
L. Avalon Shale									
9,500.0	7.99	224.97	9,427.2	-756.1	-758.1	751.7	0.00	0.00	0.00
9,600.0	7.99	224.97	9,526.2	-765.9	-768.0	761.5	0.00	0.00	0.00
9,700.0	7.99	224.97	9,625.2	-775.7	-777.8	771.2	0.00	0.00	0.00
9,722.0	7.99	224.97	9,647.0	-777.9	-780.0	773.4	0.00	0.00	0.00
FBSC									
9,800.0	7.99	224.97	9,724.2	-785.6	-787.6	781.0	0.00	0.00	0.00
9,900.0	7.99	224.97	9,823.3	-795.4	-797.5	790.8	0.00	0.00	0.00
9,909.8	7.99	224.97	9,833.0	-796.4	-798.4	791.8	0.00	0.00	0.00
KOP - Blue Chip 14 Fed Com #511H									
9,932.0	7.99	224.97	9,855.0	-798.6	-800.6	793.9	0.00	0.00	0.00
FBSG									
10,000.0	7.99	224.97	9,922.3	-805.2	-807.3	800.6	0.00	0.00	0.00
10,100.0	7.99	224.97	10,021.3	-815.1	-817.1	810.3	0.00	0.00	0.00
10,148.5	7.99	224.97	10,069.4	-819.8	-821.9	815.1	0.00	0.00	0.00
FPP - Blue Chip 14 Fed Com #511H									
10,200.0	7.99	224.97	10,120.4	-824.9	-826.9	820.1	0.00	0.00	0.00
10,208.7	7.99	224.97	10,129.0	-825.8	-827.8	821.0	0.00	0.00	0.00
SBSC									
10,300.0	7.99	224.97	10,219.4	-834.7	-836.8	829.9	0.00	0.00	0.00
10,400.0	7.99	224.97	10,318.4	-844.6	-846.6	839.7	0.00	0.00	0.00
10,500.0	7.99	224.97	10,417.4	-854.4	-856.4	849.5	0.00	0.00	0.00
10,507.6	7.99	224.97	10,425.0	-855.2	-857.2	850.2	0.00	0.00	0.00
SBSG									
10,600.0	7.99	224.97	10,516.5	-864.2	-866.2	859.2	0.00	0.00	0.00
10,700.0	7.99	224.97	10,615.5	-874.1	-876.1	869.0	0.00	0.00	0.00
10,800.0	7.99	224.97	10,714.5	-883.9	-885.9	878.8	0.00	0.00	0.00
10,900.0	7.99	224.97	10,813.6	-893.8	-895.7	888.6	0.00	0.00	0.00
11,000.0	7.99	224.97	10,912.6	-903.6	-905.5	898.4	0.00	0.00	0.00
11,046.9	7.99	224.97	10,959.0	-908.2	-910.1	902.9	0.00	0.00	0.00
TBSC									
11,100.0	7.99	224.97	11,011.6	-913.4	-915.4	908.1	0.00	0.00	0.00
11,200.0	7.99	224.97	11,110.6	-923.3	-925.2	917.9	0.00	0.00	0.00
11,300.0	7.99	224.97	11,209.7	-933.1	-935.0	927.7	0.00	0.00	0.00
11,400.0	7.99	224.97	11,308.7	-942.9	-944.8	937.5	0.00	0.00	0.00
11,489.2	7.99	224.97	11,397.0	-951.7	-953.6	946.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
TBSG									
11,500.0	7.99	224.97	11,407.7	-952.8	-954.7	947.2	0.00	0.00	0.00
11,600.0	7.99	224.97	11,506.8	-962.6	-964.5	957.0	0.00	0.00	0.00
11,700.0	7.99	224.97	11,605.8	-972.4	-974.3	966.8	0.00	0.00	0.00
11,745.7	7.99	224.97	11,651.0	-976.9	-978.8	971.3	0.00	0.00	0.00
WFMP A									
11,800.0	7.99	224.97	11,704.8	-982.3	-984.2	976.6	0.00	0.00	0.00
11,845.6	7.99	224.97	11,750.0	-986.8	-988.6	981.0	0.00	0.00	0.00
WFMP B									
11,851.6	7.99	224.97	11,756.0	-987.4	-989.2	981.6	0.00	0.00	0.00
Start Drop -1.50									
11,900.0	7.27	224.97	11,803.9	-991.9	-993.8	986.1	1.50	-1.50	0.00
12,000.0	5.77	224.97	11,903.2	-999.9	-1,001.8	994.1	1.50	-1.50	0.00
12,100.0	4.27	224.97	12,002.9	-1,006.1	-1,008.0	1,000.3	1.50	-1.50	0.00
12,200.0	2.77	224.97	12,102.7	-1,010.4	-1,012.3	1,004.6	1.50	-1.50	0.00
12,300.0	1.27	224.97	12,202.6	-1,012.9	-1,014.8	1,007.1	1.50	-1.50	0.00
12,384.4	0.00	0.00	12,287.0	-1,013.6	-1,015.4	1,007.7	1.50	-1.50	0.00
Start Build 10.00 - KOP - Blue Chip 14 Fed Com #511H									
12,400.0	1.56	179.65	12,302.6	-1,013.8	-1,015.4	1,007.9	10.00	10.00	0.00
12,500.0	11.56	179.65	12,401.8	-1,025.2	-1,015.4	1,019.3	10.00	10.00	0.00
12,597.3	21.29	179.65	12,495.0	-1,052.7	-1,015.2	1,046.8	10.00	10.00	0.00
WFMP D									
12,600.0	21.56	179.65	12,497.5	-1,053.7	-1,015.2	1,047.8	10.00	10.00	0.00
12,607.5	22.30	179.65	12,504.4	-1,056.5	-1,015.2	1,050.6	10.00	10.00	0.00
FPP - Blue Chip 14 Fed Com #511H									
12,700.0	31.56	179.65	12,586.9	-1,098.3	-1,014.9	1,092.5	10.00	10.00	0.00
12,800.0	41.56	179.65	12,667.1	-1,157.8	-1,014.6	1,152.0	10.00	10.00	0.00
12,900.0	51.56	179.65	12,735.8	-1,230.3	-1,014.1	1,224.5	10.00	10.00	0.00
13,000.0	61.56	179.65	12,790.8	-1,313.7	-1,013.6	1,307.8	10.00	10.00	0.00
13,100.0	71.56	179.65	12,830.5	-1,405.3	-1,013.1	1,399.4	10.00	10.00	0.00
13,200.0	81.56	179.65	12,853.8	-1,502.4	-1,012.5	1,496.6	10.00	10.00	0.00
13,284.4	90.00	179.65	12,860.0	-1,586.5	-1,011.9	1,580.7	10.00	10.00	0.00
Start 9831.2 hold at 13284.4 MD									
13,300.0	90.00	179.65	12,860.0	-1,602.1	-1,011.8	1,596.3	0.00	0.00	0.00
13,400.0	90.00	179.65	12,860.0	-1,702.1	-1,011.2	1,696.3	0.00	0.00	0.00
13,500.0	90.00	179.65	12,860.0	-1,802.1	-1,010.6	1,796.3	0.00	0.00	0.00
13,600.0	90.00	179.65	12,860.0	-1,902.1	-1,010.0	1,896.3	0.00	0.00	0.00
13,700.0	90.00	179.65	12,860.0	-2,002.1	-1,009.4	1,996.3	0.00	0.00	0.00
13,800.0	90.00	179.65	12,860.0	-2,102.1	-1,008.8	2,096.3	0.00	0.00	0.00
13,900.0	90.00	179.65	12,860.0	-2,202.1	-1,008.2	2,196.3	0.00	0.00	0.00
14,000.0	90.00	179.65	12,860.0	-2,302.1	-1,007.6	2,296.3	0.00	0.00	0.00
14,100.0	90.00	179.65	12,860.0	-2,402.1	-1,007.0	2,396.3	0.00	0.00	0.00
14,200.0	90.00	179.65	12,860.0	-2,502.1	-1,006.4	2,496.3	0.00	0.00	0.00
14,300.0	90.00	179.65	12,860.0	-2,602.1	-1,005.7	2,596.3	0.00	0.00	0.00
14,400.0	90.00	179.65	12,860.0	-2,702.1	-1,005.1	2,696.3	0.00	0.00	0.00
14,500.0	90.00	179.65	12,860.0	-2,802.1	-1,004.5	2,796.3	0.00	0.00	0.00
14,600.0	90.00	179.65	12,860.0	-2,902.1	-1,003.9	2,896.3	0.00	0.00	0.00
14,700.0	90.00	179.65	12,860.0	-3,002.1	-1,003.3	2,996.3	0.00	0.00	0.00
14,800.0	90.00	179.65	12,860.0	-3,102.1	-1,002.7	3,096.3	0.00	0.00	0.00
14,900.0	90.00	179.65	12,860.0	-3,202.1	-1,002.1	3,196.3	0.00	0.00	0.00
15,000.0	90.00	179.65	12,860.0	-3,302.1	-1,001.5	3,296.3	0.00	0.00	0.00
15,100.0	90.00	179.65	12,860.0	-3,402.1	-1,000.9	3,396.3	0.00	0.00	0.00
15,200.0	90.00	179.65	12,860.0	-3,502.1	-1,000.2	3,496.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
15,300.0	90.00	179.65	12,860.0	-3,602.1	-999.6	3,596.3	0.00	0.00	0.00
15,300.4	90.00	179.65	12,860.0	-3,602.5	-999.6	3,596.7	0.00	0.00	0.00
BPP2 - Blue Chip 14 Fed Com #511H									
15,301.5	90.00	179.65	12,860.0	-3,603.6	-999.6	3,597.8	0.00	0.00	0.00
BPP1 - Blue Chip 14 Fed Com #511H									
15,400.0	90.00	179.65	12,860.0	-3,702.1	-999.0	3,696.3	0.00	0.00	0.00
15,500.0	90.00	179.65	12,860.0	-3,802.1	-998.4	3,796.3	0.00	0.00	0.00
15,600.0	90.00	179.65	12,860.0	-3,902.1	-997.8	3,896.3	0.00	0.00	0.00
15,700.0	90.00	179.65	12,860.0	-4,002.1	-997.2	3,996.3	0.00	0.00	0.00
15,800.0	90.00	179.65	12,860.0	-4,102.1	-996.6	4,096.3	0.00	0.00	0.00
15,900.0	90.00	179.65	12,860.0	-4,202.1	-996.0	4,196.3	0.00	0.00	0.00
16,000.0	90.00	179.65	12,860.0	-4,302.1	-995.4	4,296.3	0.00	0.00	0.00
16,100.0	90.00	179.65	12,860.0	-4,402.1	-994.7	4,396.3	0.00	0.00	0.00
16,200.0	90.00	179.65	12,860.0	-4,502.1	-994.1	4,496.3	0.00	0.00	0.00
16,300.0	90.00	179.65	12,860.0	-4,602.1	-993.5	4,596.3	0.00	0.00	0.00
16,400.0	90.00	179.65	12,860.0	-4,702.1	-992.9	4,696.3	0.00	0.00	0.00
16,500.0	90.00	179.65	12,860.0	-4,802.1	-992.3	4,796.3	0.00	0.00	0.00
16,600.0	90.00	179.65	12,860.0	-4,902.1	-991.7	4,896.3	0.00	0.00	0.00
16,619.0	90.00	179.65	12,860.0	-4,921.1	-991.6	4,915.3	0.00	0.00	0.00
BPP3 - Blue Chip 14 Fed Com #511H									
16,620.5	90.00	179.65	12,860.0	-4,922.6	-991.6	4,916.8	0.00	0.00	0.00
BPP2 - Blue Chip 14 Fed Com #511H									
16,700.0	90.00	179.65	12,860.0	-5,002.1	-991.1	4,996.3	0.00	0.00	0.00
16,800.0	90.00	179.65	12,860.0	-5,102.1	-990.5	5,096.3	0.00	0.00	0.00
16,900.0	90.00	179.65	12,860.0	-5,202.1	-989.9	5,196.3	0.00	0.00	0.00
17,000.0	90.00	179.65	12,860.0	-5,302.1	-989.2	5,296.3	0.00	0.00	0.00
17,100.0	90.00	179.65	12,860.0	-5,402.1	-988.6	5,396.3	0.00	0.00	0.00
17,200.0	90.00	179.65	12,860.0	-5,502.1	-988.0	5,496.3	0.00	0.00	0.00
17,300.0	90.00	179.65	12,860.0	-5,602.1	-987.4	5,596.3	0.00	0.00	0.00
17,400.0	90.00	179.65	12,860.0	-5,702.1	-986.8	5,696.3	0.00	0.00	0.00
17,500.0	90.00	179.65	12,860.0	-5,802.1	-986.2	5,796.3	0.00	0.00	0.00
17,600.0	90.00	179.65	12,860.0	-5,902.0	-985.6	5,896.3	0.00	0.00	0.00
17,700.0	90.00	179.65	12,860.0	-6,002.0	-985.0	5,996.3	0.00	0.00	0.00
17,800.0	90.00	179.65	12,860.0	-6,102.0	-984.4	6,096.3	0.00	0.00	0.00
17,900.0	90.00	179.65	12,860.0	-6,202.0	-983.7	6,196.3	0.00	0.00	0.00
17,937.7	90.00	179.65	12,860.0	-6,239.8	-983.5	6,234.0	0.00	0.00	0.00
BPP4 - Blue Chip 14 Fed Com #511H									
17,938.6	90.00	179.65	12,860.0	-6,240.6	-983.5	6,234.8	0.00	0.00	0.00
BPP3 - Blue Chip 14 Fed Com #511H									
18,000.0	90.00	179.65	12,860.0	-6,302.0	-983.1	6,296.3	0.00	0.00	0.00
18,100.0	90.00	179.65	12,860.0	-6,402.0	-982.5	6,396.3	0.00	0.00	0.00
18,200.0	90.00	179.65	12,860.0	-6,502.0	-981.9	6,496.3	0.00	0.00	0.00
18,300.0	90.00	179.65	12,860.0	-6,602.0	-981.3	6,596.3	0.00	0.00	0.00
18,400.0	90.00	179.65	12,860.0	-6,702.0	-980.7	6,696.3	0.00	0.00	0.00
18,500.0	90.00	179.65	12,860.0	-6,802.0	-980.1	6,796.3	0.00	0.00	0.00
18,600.0	90.00	179.65	12,860.0	-6,902.0	-979.5	6,896.3	0.00	0.00	0.00
18,700.0	90.00	179.65	12,860.0	-7,002.0	-978.9	6,996.3	0.00	0.00	0.00
18,800.0	90.00	179.65	12,860.0	-7,102.0	-978.3	7,096.3	0.00	0.00	0.00
18,900.0	90.00	179.65	12,860.0	-7,202.0	-977.6	7,196.3	0.00	0.00	0.00
19,000.0	90.00	179.65	12,860.0	-7,302.0	-977.0	7,296.3	0.00	0.00	0.00
19,100.0	90.00	179.65	12,860.0	-7,402.0	-976.4	7,396.3	0.00	0.00	0.00
19,200.0	90.00	179.65	12,860.0	-7,502.0	-975.8	7,496.3	0.00	0.00	0.00
19,300.0	90.00	179.65	12,860.0	-7,602.0	-975.2	7,596.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
19,400.0	90.00	179.65	12,860.0	-7,702.0	-974.6	7,696.3	0.00	0.00	0.00
19,500.0	90.00	179.65	12,860.0	-7,802.0	-974.0	7,796.3	0.00	0.00	0.00
19,600.0	90.00	179.65	12,860.0	-7,902.0	-973.4	7,896.3	0.00	0.00	0.00
19,700.0	90.00	179.65	12,860.0	-8,002.0	-972.8	7,996.3	0.00	0.00	0.00
19,800.0	90.00	179.65	12,860.0	-8,102.0	-972.1	8,096.3	0.00	0.00	0.00
19,900.0	90.00	179.65	12,860.0	-8,202.0	-971.5	8,196.3	0.00	0.00	0.00
20,000.0	90.00	179.65	12,860.0	-8,302.0	-970.9	8,296.3	0.00	0.00	0.00
20,100.0	90.00	179.65	12,860.0	-8,402.0	-970.3	8,396.3	0.00	0.00	0.00
20,200.0	90.00	179.65	12,860.0	-8,502.0	-969.7	8,496.3	0.00	0.00	0.00
20,300.0	90.00	179.65	12,860.0	-8,602.0	-969.1	8,596.3	0.00	0.00	0.00
20,400.0	90.00	179.65	12,860.0	-8,702.0	-968.5	8,696.3	0.00	0.00	0.00
20,500.0	90.00	179.65	12,860.0	-8,802.0	-967.9	8,796.3	0.00	0.00	0.00
20,580.1	90.00	179.65	12,860.0	-8,882.1	-967.4	8,876.4	0.00	0.00	0.00
BPP5 - Blue Chip 14 Fed Com #511H									
20,581.6	90.00	179.65	12,860.0	-8,883.6	-967.4	8,877.9	0.00	0.00	0.00
BPP4 - Blue Chip 14 Fed Com #511H									
20,600.0	90.00	179.65	12,860.0	-8,902.0	-967.3	8,896.3	0.00	0.00	0.00
20,700.0	90.00	179.65	12,860.0	-9,002.0	-966.6	8,996.3	0.00	0.00	0.00
20,800.0	90.00	179.65	12,860.0	-9,102.0	-966.0	9,096.3	0.00	0.00	0.00
20,900.0	90.00	179.65	12,860.0	-9,202.0	-965.4	9,196.3	0.00	0.00	0.00
21,000.0	90.00	179.65	12,860.0	-9,302.0	-964.8	9,296.3	0.00	0.00	0.00
21,100.0	90.00	179.65	12,860.0	-9,402.0	-964.2	9,396.3	0.00	0.00	0.00
21,200.0	90.00	179.65	12,860.0	-9,502.0	-963.6	9,496.3	0.00	0.00	0.00
21,300.0	90.00	179.65	12,860.0	-9,602.0	-963.0	9,596.3	0.00	0.00	0.00
21,400.0	90.00	179.65	12,860.0	-9,702.0	-962.4	9,696.3	0.00	0.00	0.00
21,500.0	90.00	179.65	12,860.0	-9,802.0	-961.8	9,796.3	0.00	0.00	0.00
21,600.0	90.00	179.65	12,860.0	-9,902.0	-961.1	9,896.3	0.00	0.00	0.00
21,700.0	90.00	179.65	12,860.0	-10,002.0	-960.5	9,996.3	0.00	0.00	0.00
21,800.0	90.00	179.65	12,860.0	-10,102.0	-959.9	10,096.3	0.00	0.00	0.00
21,900.0	90.00	179.65	12,860.0	-10,202.0	-959.3	10,196.3	0.00	0.00	0.00
22,000.0	90.00	179.65	12,860.0	-10,302.0	-958.7	10,296.3	0.00	0.00	0.00
22,100.0	90.00	179.65	12,860.0	-10,402.0	-958.1	10,396.3	0.00	0.00	0.00
22,200.0	90.00	179.65	12,860.0	-10,502.0	-957.5	10,496.3	0.00	0.00	0.00
22,300.0	90.00	179.65	12,860.0	-10,602.0	-956.9	10,596.3	0.00	0.00	0.00
22,400.0	90.00	179.65	12,860.0	-10,702.0	-956.3	10,696.3	0.00	0.00	0.00
22,500.0	90.00	179.65	12,860.0	-10,802.0	-955.6	10,796.3	0.00	0.00	0.00
22,600.0	90.00	179.65	12,860.0	-10,902.0	-955.0	10,896.3	0.00	0.00	0.00
22,700.0	90.00	179.65	12,860.0	-11,002.0	-954.4	10,996.3	0.00	0.00	0.00
22,800.0	90.00	179.65	12,860.0	-11,102.0	-953.8	11,096.3	0.00	0.00	0.00
22,900.0	90.00	179.65	12,860.0	-11,202.0	-953.2	11,196.3	0.00	0.00	0.00
23,000.0	90.00	179.65	12,860.0	-11,301.9	-952.6	11,296.3	0.00	0.00	0.00
23,100.0	90.00	179.65	12,860.0	-11,401.9	-952.0	11,396.3	0.00	0.00	0.00
23,115.3	90.00	179.65	12,860.0	-11,417.3	-951.9	11,411.6	0.00	0.00	0.00
BHL - Blue Chip 14 Fed Com #511H									
23,115.6	90.00	179.65	12,860.0	-11,417.6	-951.9	11,411.9	0.00	0.00	0.00
TD at 23115.6 - BHL - Blue Chip 14 Fed Com #511H									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP - Blue Chip 14 Fed - plan hits target center - Point	0.00	0.00	12,287.0	-1,013.6	-1,015.4	541,171.00	713,633.00	32° 29' 9.179 N	103° 38' 25.842 W
FPP - Blue Chip 14 Fed - plan misses target center by 8.0usft at 12606.8usft MD (12503.9 TVD, -1056.2 N, -1015.2 E) - Point	0.00	0.01	12,500.9	-1,063.6	-1,015.4	541,121.00	713,633.00	32° 29' 8.684 N	103° 38' 25.846 W
BPP1 - Blue Chip 14 Fe - plan misses target center by 0.2usft at 15301.5usft MD (12860.0 TVD, -3603.6 N, -999.6 E) - Point	0.00	0.00	12,860.0	-3,603.6	-999.4	538,581.00	713,649.00	32° 28' 43.550 N	103° 38' 25.852 W
BPP2 - Blue Chip 14 Fe - plan misses target center by 0.1usft at 16620.5usft MD (12860.0 TVD, -4922.6 N, -991.6 E) - Point	0.00	0.00	12,860.0	-4,922.6	-991.4	537,262.00	713,657.00	32° 28' 30.497 N	103° 38' 25.858 W
BPP3 - Blue Chip 14 Fe - plan misses target center by 0.1usft at 17938.6usft MD (12860.0 TVD, -6240.6 N, -983.5 E) - Point	0.00	0.00	12,860.0	-6,240.6	-983.4	535,944.00	713,665.00	32° 28' 17.455 N	103° 38' 25.865 W
BHL - Blue Chip 14 Fed - plan misses target center by 0.6usft at 23115.6usft MD (12860.0 TVD, -11417.6 N, -951.9 E) - Point	0.00	0.00	12,860.0	-11,417.6	-952.4	530,767.00	713,696.00	32° 27' 26.225 N	103° 38' 25.895 W
BPP4 - Blue Chip 14 Fe - plan misses target center by 0.1usft at 20581.6usft MD (12860.0 TVD, -8883.6 N, -967.4 E) - Point	0.00	0.00	12,860.0	-8,883.6	-967.4	533,301.00	713,681.00	32° 27' 51.300 N	103° 38' 25.878 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,586.2	1,584.0	Rustler				
2,022.6	2,019.0	Salado				
3,300.6	3,287.0	G30_Base Salt/Yates				
3,730.8	3,713.0	Capitan Top				
5,094.1	5,063.0	Bell Cyn.				
5,626.2	5,590.0	Cherry Cyn.				
6,012.0	5,972.0	Brushy Cyn.				
6,944.0	6,895.0	BSGL				
8,955.6	8,887.0	U. Avalon Shale				
9,260.5	9,189.0	Avalon Carb				
9,490.8	9,417.0	L. Avalon Shale				
9,722.0	9,646.0	FBSC				
9,932.0	9,854.0	FBSG				
10,208.7	10,128.0	SBSC				
10,507.6	10,424.0	SBSG				
11,046.9	10,958.0	TBSC				
11,489.2	11,396.0	TBSG				
11,745.7	11,650.0	WFMP A				
11,845.6	11,749.0	WFMP B				
12,597.3	12,494.0	WFMP D				

Planning Report

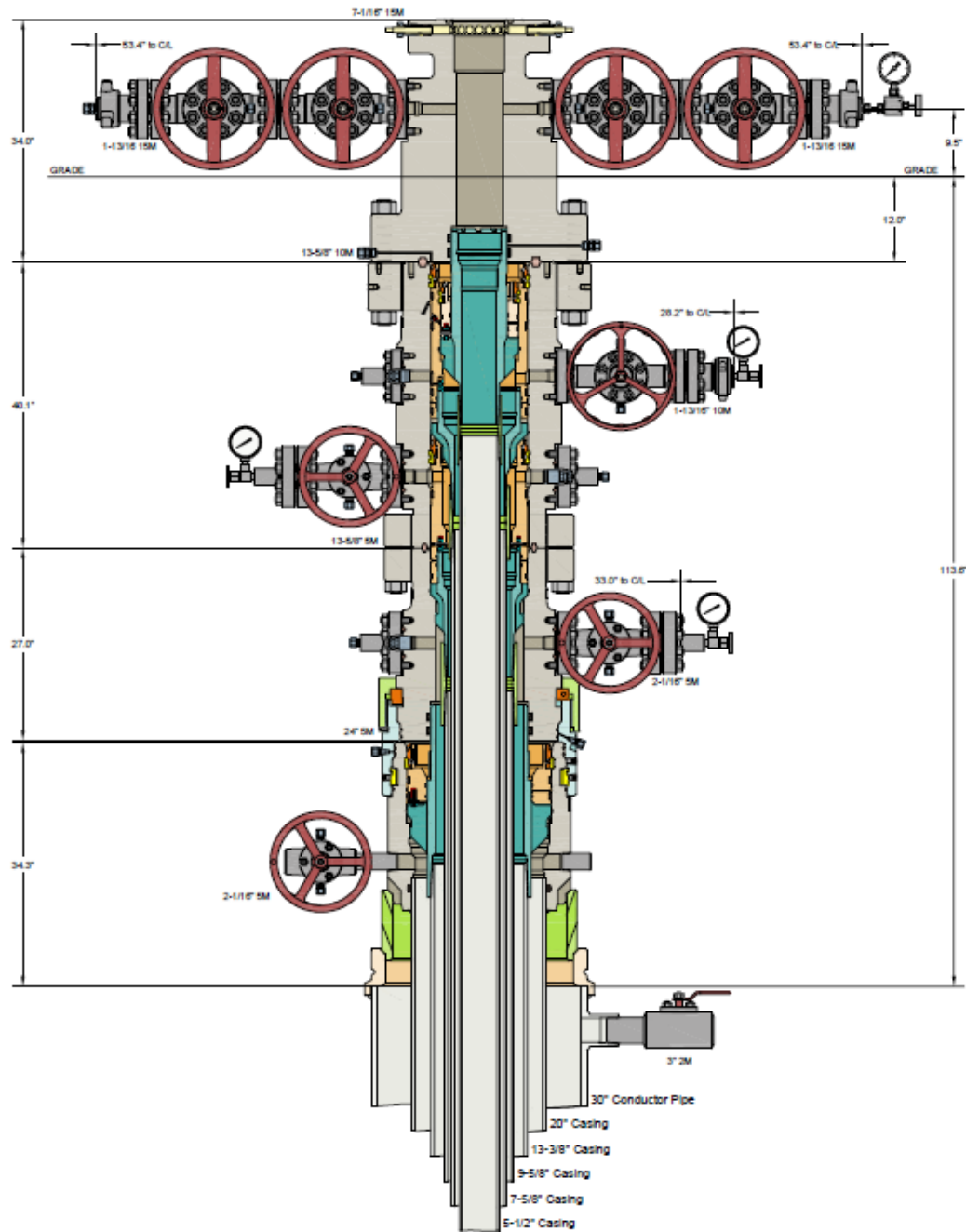
Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Company:	Matador Production Company	TVD Reference:	KB @ 3882.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3882.5usft
Site:	Blue Chip	North Reference:	Grid
Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,200.0	1,200.0	0.0	0.0	Start Build 2.00	
1,600.0	1,598.7	-19.0	-20.4	Start Drop -2.00	
2,000.0	1,997.4	-38.0	-40.8	Start Build 2.00	
2,399.6	2,395.7	-57.7	-60.4	Start 9452.1 hold at 2399.6 MD	
11,851.6	11,756.0	-987.4	-989.2	Start Drop -1.50	
12,384.4	12,287.0	-1,013.6	-1,015.4	Start Build 10.00	
13,284.4	12,860.0	-1,586.5	-1,011.9	Start 9831.2 hold at 13284.4 MD	
23,115.6	12,860.0	-11,417.6	-951.9	TD at 23115.6	

5-String Wellhead Diagram

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

MATADOR PRODUCTION COMPANY

30" x 20" x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" CRC/MBU-4T-CFL
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And 13-3/8", 9-5/8", 7-5/8" & 5-1/2" Mandrel Casing Hangers

DRAWN	VJK	04OCT24
APPRV		
DRAWING NO.	SDT-4961	

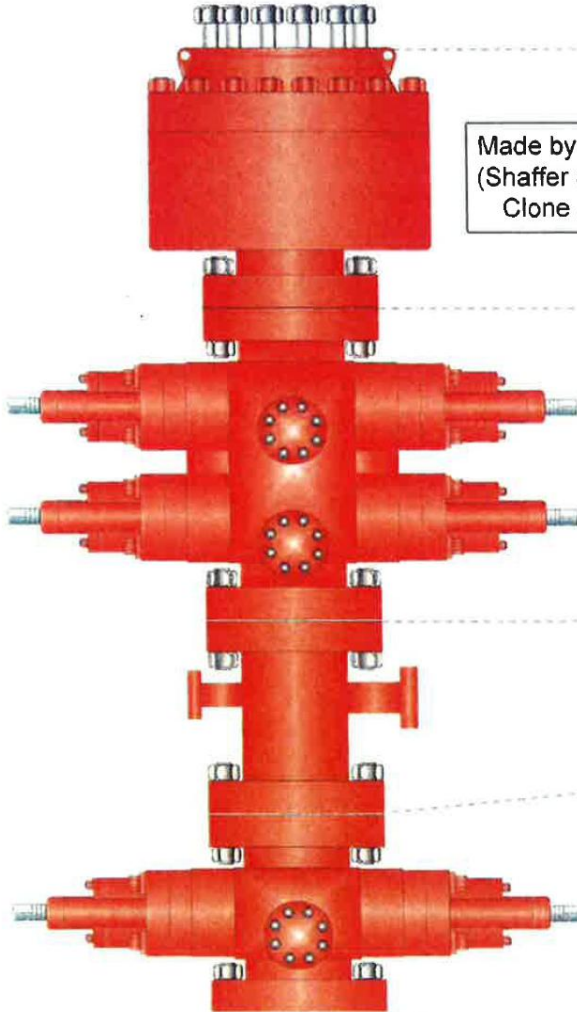
10M BOP

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'



RIG: 297



Made by Cameron
(Shaffer Spherical)
Clone Annular

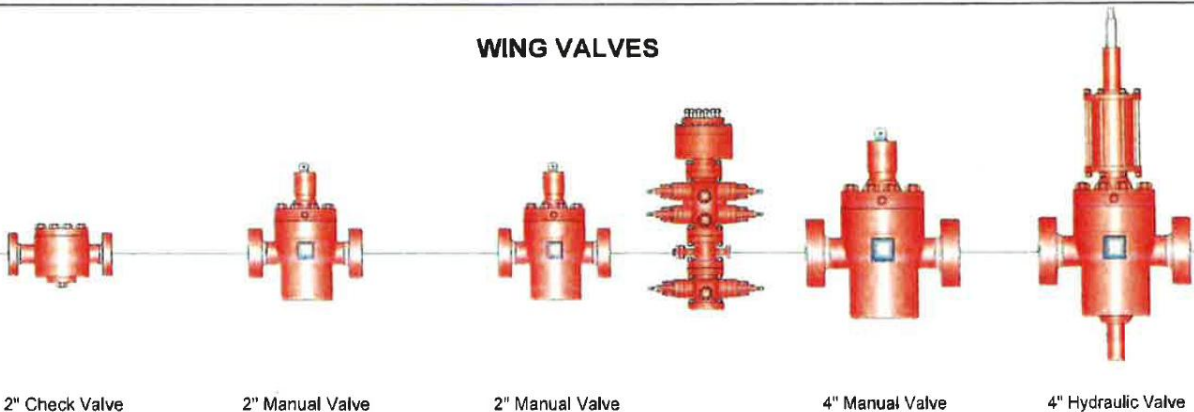
PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" PRESSURE 5,000
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: TOP 5" Pipe BTM Blinds
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length 40" Outlets 4" 10M
DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: 5" Pipe
HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

WING VALVES



10M BOP

Offline Cementing - Intermediate Casing

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

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

Cement Program

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

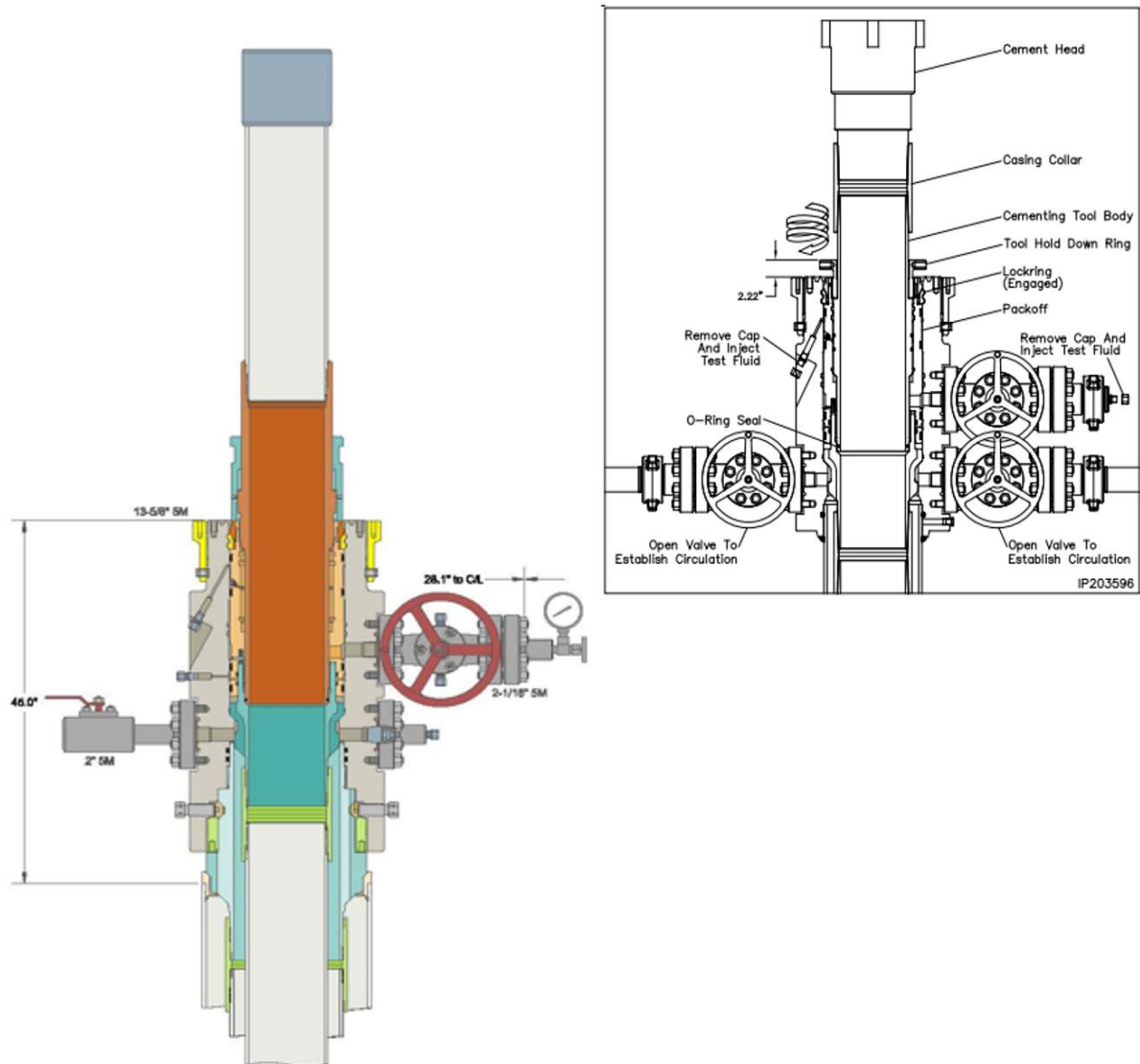
Offline Cementing Procedure

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

- No noticeable wellbore instability.
 - Casing installed successfully with no issues.
 - No observed shallow gas or other anomalies
 - Intermediate hole section must have a MASP of 5,000 psi or lower.
1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
 2. Land Intermediate casing with fluted mandrel hanger through BOP stack.
 3. Remove the landing joint and set packoff through BOP. Pressure test seals to 5,000 psi for 10 minutes. After the test, engage the lockring.
 4. Notify the BLM 4 hours prior to N/D BOP and offline cementing. Confirm the following barriers are operational:
 - a. Inside Casing: 2 float valves and mud weight sufficient to hold back pore pressure
 - b. Annulus (outside) Casing: Packoff and mud weight sufficient to hold back pore pressure
 5. Once the well is secure and BLM has been notified, proceed with nipping down BOP and installing cap flange.
 6. Skid rig to the next well on the pad.
 7. Rig up lines to take returns from wellhead through the cement choke manifold to the pits.
 8. Attach a test pump with manifold to the open fitting and pump clean fluid until a stable test pressure of 5,000 psi is achieved. Hold pressure for 15 minutes. After a satisfactory test, bleed off test pressure, remove test pump and reinstall cap flange on the open fitting.
 9. Attach the test pump to the upper outlet valve and pressure up the void area between the upper and lowermost O-rings until a stable test pressure of 5,000 psi is achieved. After a satisfactory test, bleed off all test pressure and leave the upper valve in the open position.
 10. Place a mark across the top of the wellhead to monitor possible rotation of the tool during the cement job.
 11. Install the casing hanger/packoff offline cementing tool. Rig up cement head and cementing lines. Pressure test lines against the cement head as per cement procedure.
 12. Break circulation on well to confirm no restrictions. If shallow gas is encountered, shut in the well and reroute returns through the gas buster.
 - a. Max anticipated time before circulating with cement truck is 24 hours.
 13. Establish circulation and cement casing as per plan, taking returns through the two 2-1/16" 5M gate valves on the housing lower outlets. At plug bump, pressure test casing to 0.22 psi/ft per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.
 14. With cement in place, confirm well is static and floats are holding. Bleed off the cement pressure and remove cement head.
 15. Remove the casing hanger/packoff offline cementing tool.
 16. Install TA cap with pressure gauge for monitoring.

Offline Cementing - Intermediate Casing

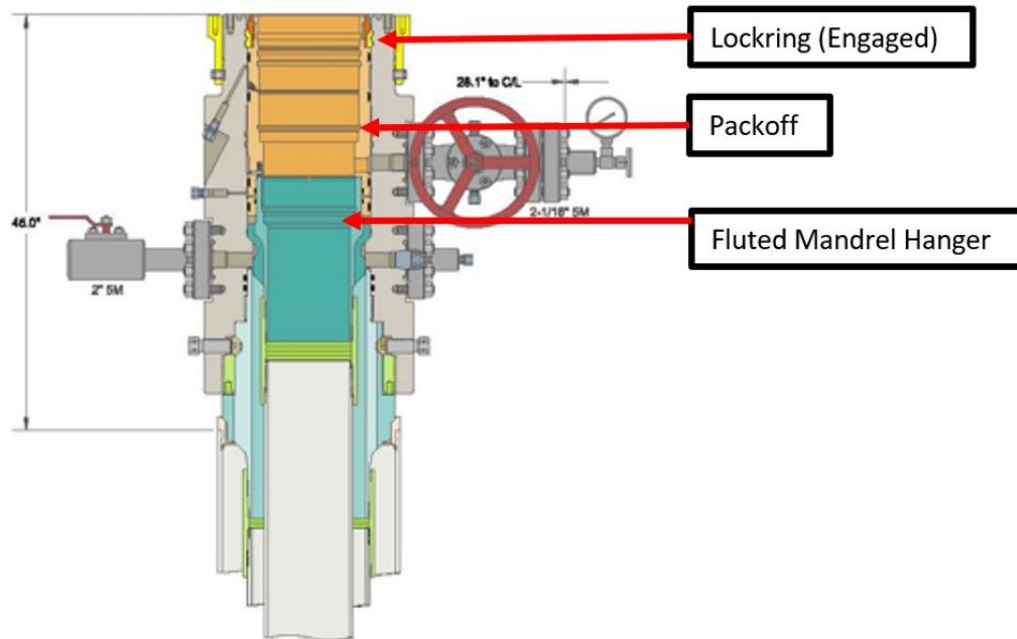
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



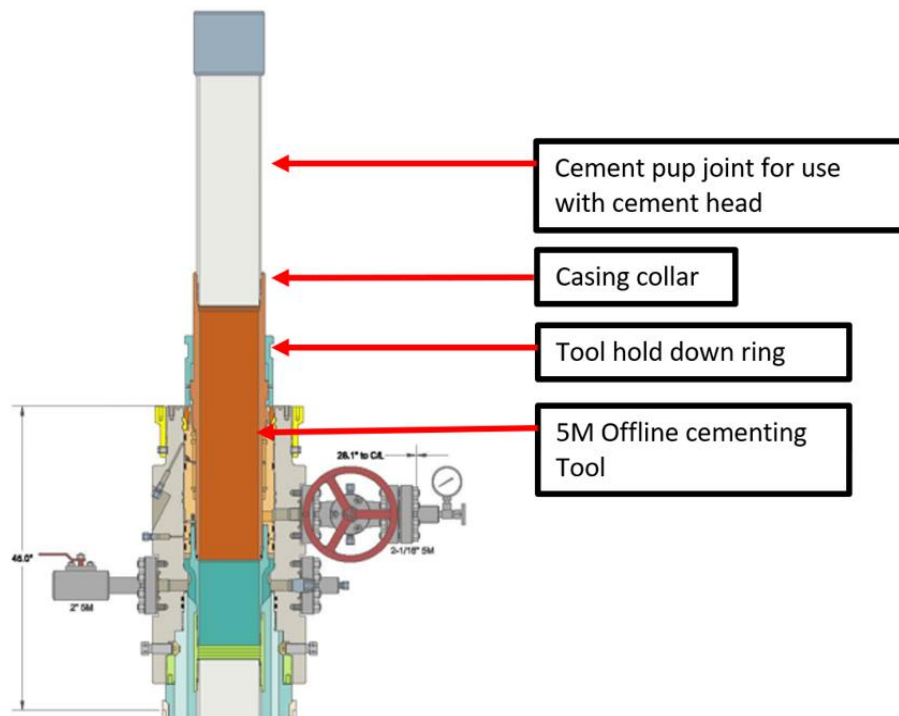
Offline Cementing - Intermediate Casing

Figure 2: Step-by-Step schematics procedure

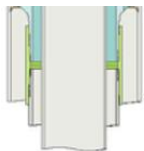
Step 1: Landing the mandrel hanger and setting the packoff. The well is sealed with mud, two float valves, and packoff.



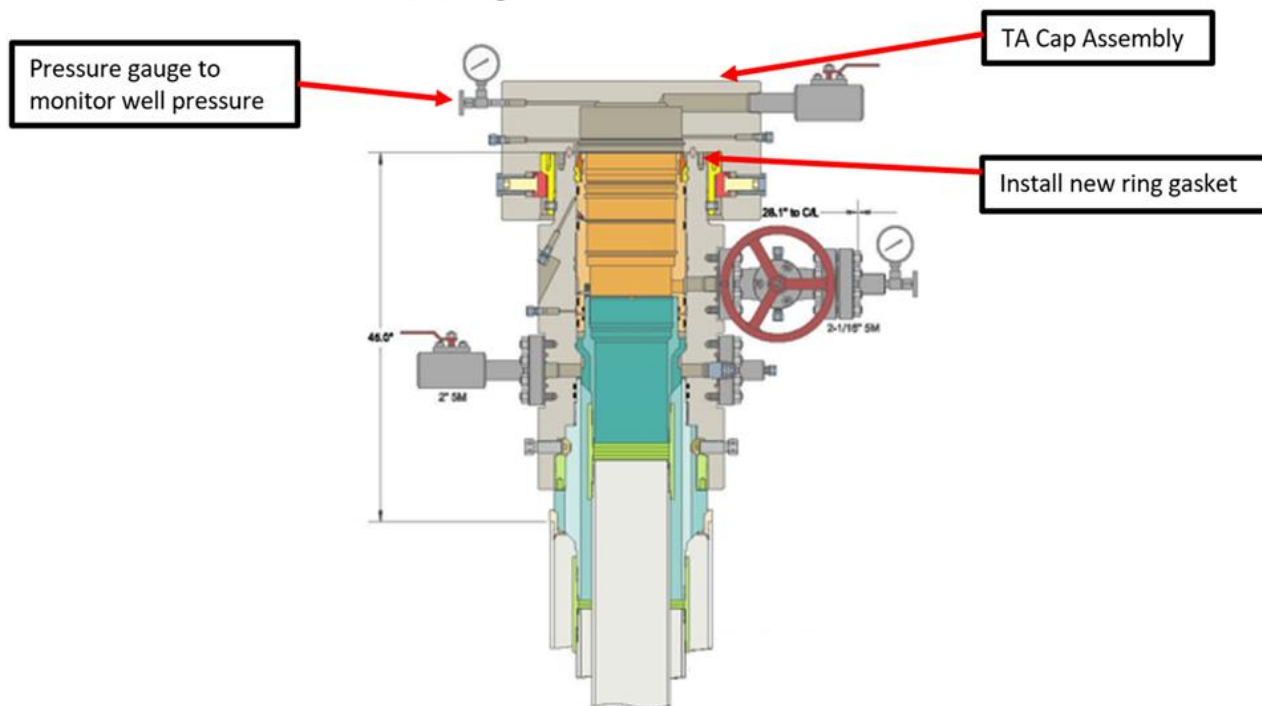
Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing



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



Modified BOP Testing Procedure for Batch Drilling

Blue Chip 14 Fed Com 511H

SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E

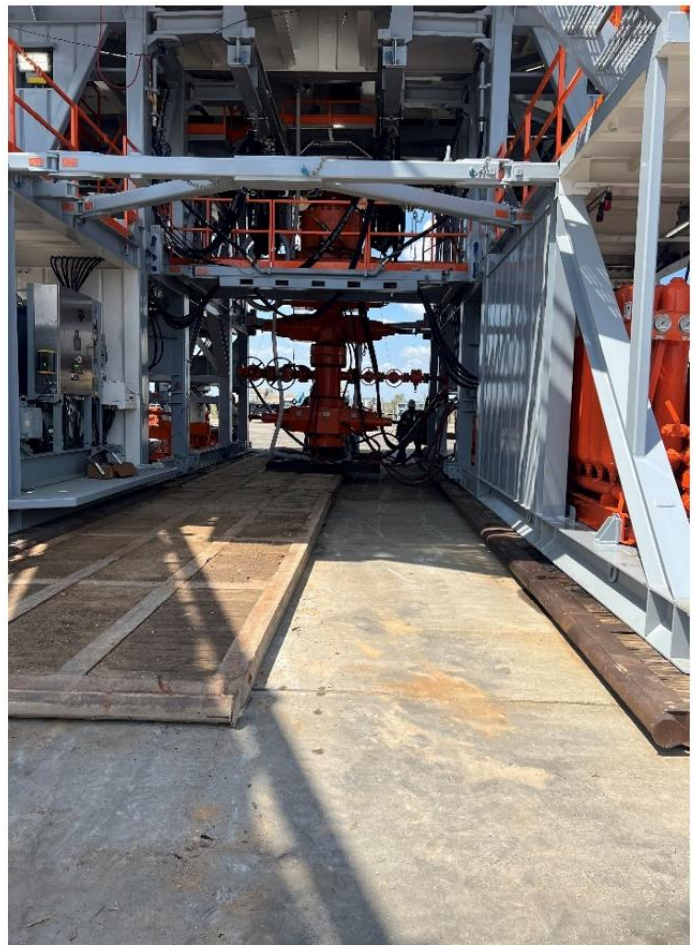
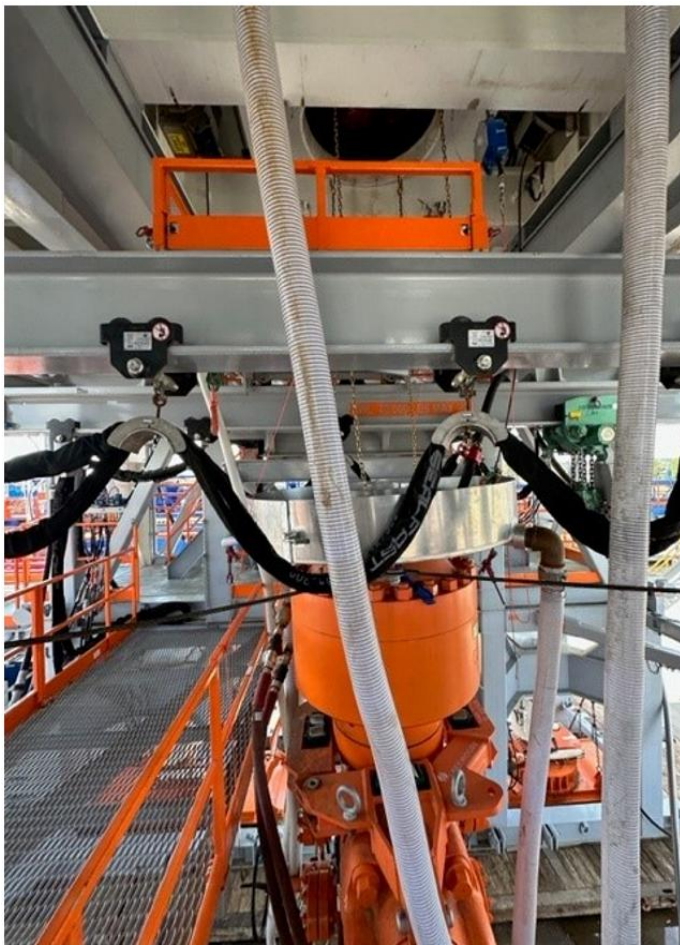
Elevation Above Sea Level: 3854'

Matador Production Company requests a variance to allow break testing the Blowout Preventer Equipment (BOPE) as prudent in batch drilling operations. Matador requests a variance from 43 CFR 3172.6(b)(9)(iv)(C) to only test broken pressure seals on the BOPE during batch (skid) drilling operations with multiple wells on the same pad.

Justification

The Bureau of Land Management began issuing and revising Onshore Orders pertaining the exploration and development of oil and gas operations on federal onshore and Indian leases in 1983. These orders were later published in 1988, specifically OOGO No. 2 "Drilling Operations on Federal and Indian Oil and Gas Leases" was published November 18, 1988, and has since been the governing standard for over 30 years. This order was later codified in 43 CFR Subpart 3172 on June 16, 2023 with no substantive changes to the content. During which time, the oil and gas industry has seen significant advancements in technology and processes that facilitate safer and more efficient operations, some of those being improvements in rig and wellhead design. The improvements in rig design allow for the BOP stack to remain connected and intact while skidding and the changes in wellhead design complement this feature by utilizing quick connects from BOP to wellhead. The combination of these technologies allow for the rig to skid to the next well while only breaking two pressure sealing connections.

American Petroleum Institute (API) standards, specifications and recommended practices are considered an industry standard and are commonly referenced in 43 CFR 3172 and routinely used in APD COA's. API Standard 53 "Well Control Equipment Systems for Drilling Wells" recognizes break testing as an acceptable practice during batch drilling operations, specifically in API Std 53 Section 5.3.7.1.



Figures 1 & 2: BOP winch system picture with walking capabilities

Modified BOP Testing Procedure for Batch Drilling

Figures 1 & 2: BOP winch system picture with walking capabilities.

With these enhancements to operations, Matador Production Company believes that break testing during batch drilling operations meets, and in most cases, exceeds the BLM's intent of 43 CFR 3172.6(b)(9)(iv)(C).

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

Procedure

1. Matador Production Company will follow the below guidelines prior to implementing break testing variance:
 - a. A full BOP test will be conducted on the first well on the pad.
 - i. Full BOP test will be conducted every 21 days per API Std 53, which is above 43 CFR 3172.6(b)(9)(iv)(D) 30 day requirement.
 - ii. Annular type preventers tested to 70% RWP per API Std 53, which is above 43 CFR 3172.6(b)(9)(iii) 50% requirement.
 - iii. Full BOP test will be conducted prior to drilling out any production hole sections.
 - b. The deepest first intermediate hole section will be drilled first.
 - i. All subsequent intermediate hole sections will be at same depth or shallower.
 - ii. The calculated maximum anticipated surface pressure (MASP) for intermediate hole section will be below 4500 psi.
 - iii. If any well control events are encountered, a full BOP test will be performed on subsequent well.
2. After performing a full BOP test on first well, the intermediate hole section will be drilled and cased per design, two breaks will be made on the BOP equipment:
 - a. One between the BOP quick connect adapter and wellhead.
 - b. One between the HCR valve and choke line connection.
3. Following that, the BOP will be lifted up from the wellhead using a hydraulic or winch system. The two connections will be broken as seen in **Figure 3**.
4. Once skidding to subsequent well is complete, the BOP will be installed on wellhead and the HCR-to-Choke line break will be reconnected.
5. The test plug will then be installed into wellhead.
6. A shell test will then be performed, testing both connections broken as seen in **Figure 4**.
 - a. The test will consist of a 250 psi low test and a high test equal to the BOP rating value submitted in the APD and as approved in COAs.
 - a. Break test procedure is the same for both 5M and 10M systems, only test pressures change.
7. Following a successful shell test, a function test of the lower pipe rams, blind rams, and annular preventer will be performed.
8. For multi-well pads, the same procedure will be followed for subsequent wells only if the next intermediate hole section can be drilled and cased with the 21-day BOP test window. If unable to be drilled in that time, a full BOP test will be performed.

Modified BOP Testing Procedure for Batch Drilling

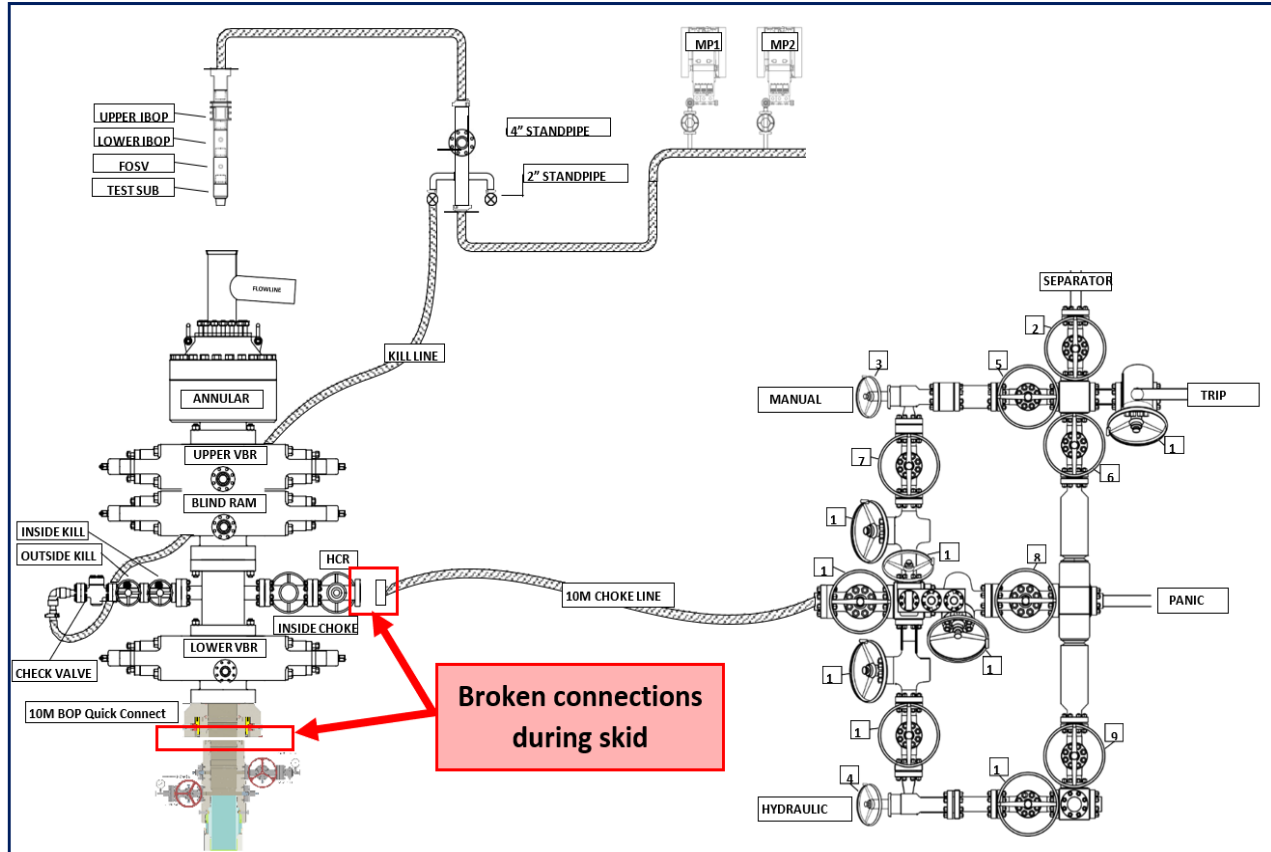
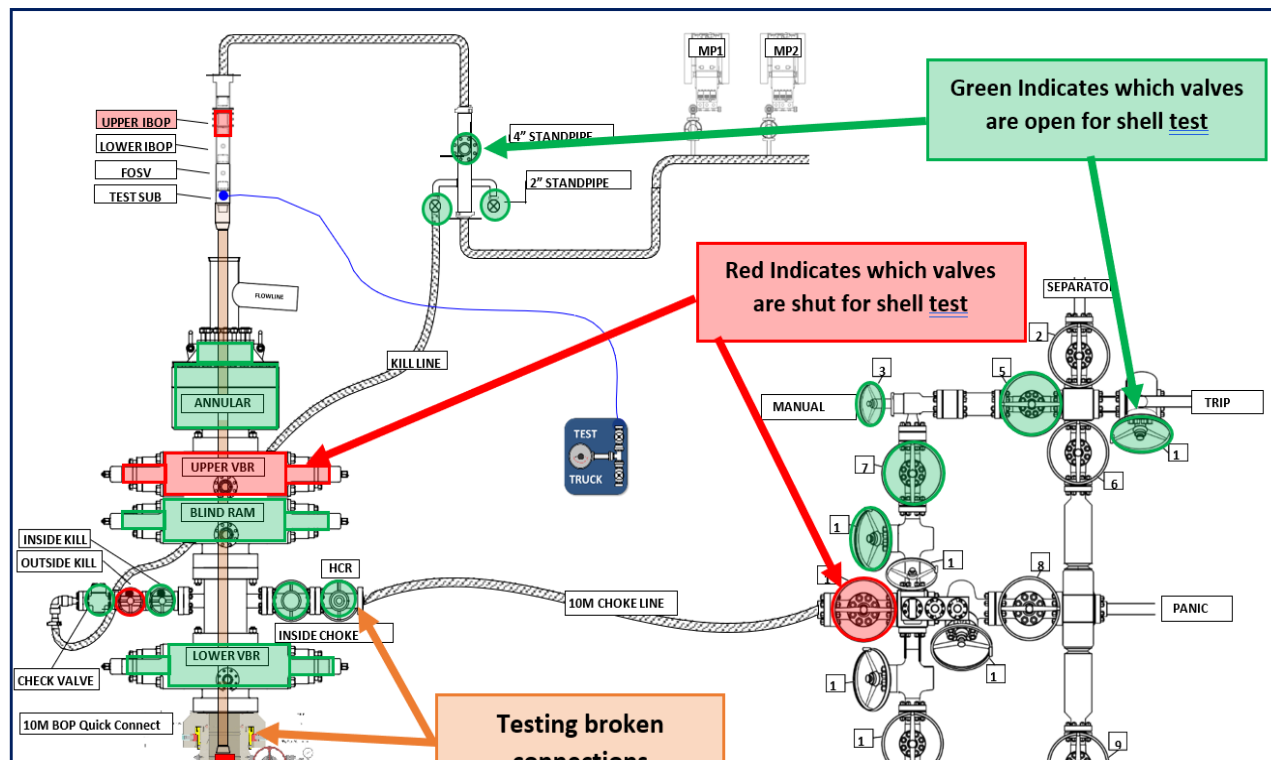


Figure 3: Shows which connections are broken during the skidding process



Modified BOP Testing Procedure for Batch Drilling

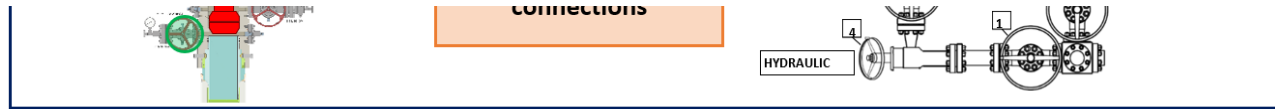


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

Offline Cementing - Surface Casing

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

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

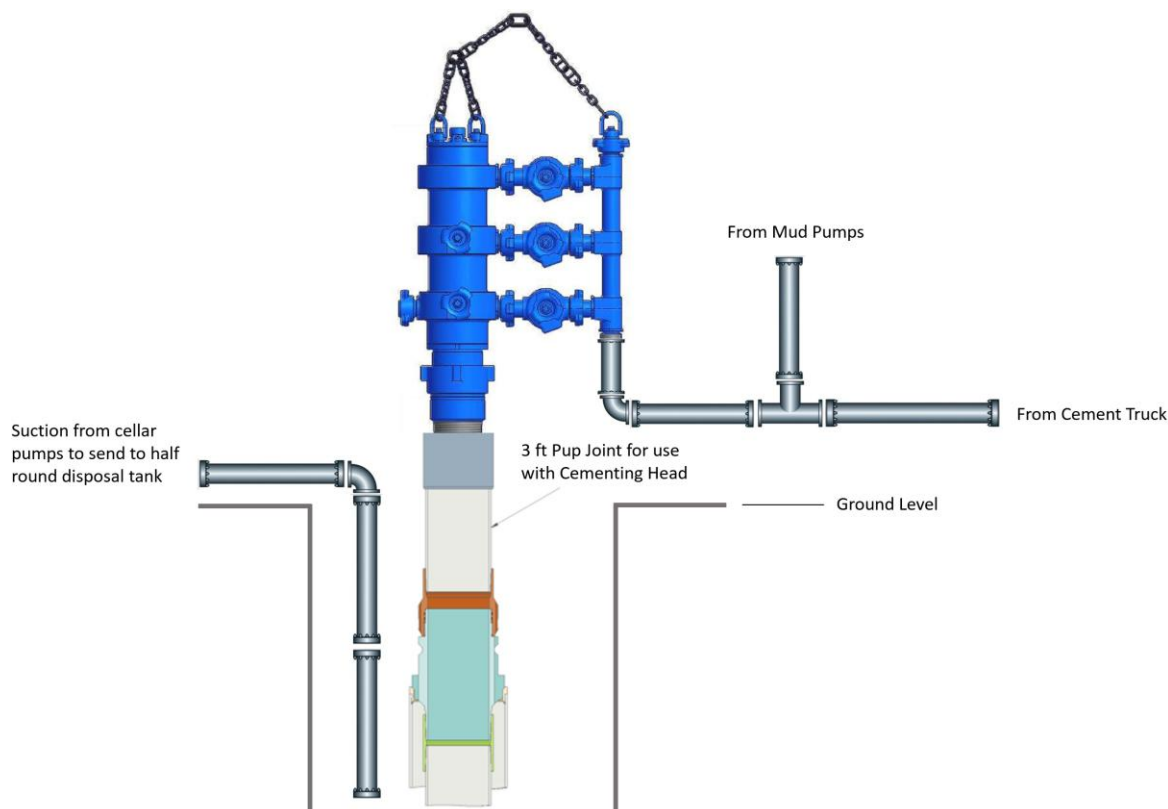
Cement Program

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

Offline Cementing Procedure

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

- No noticeable wellbore instability.
 - Casing installed successfully with no issues.
 - No observed shallow gas or other anomalies
1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
 2. Land casing with mandrel.
 3. Install cap flange.
 4. Skid rig to the next well on the pad.
 5. Rig up on the well in accordance with the diagram shown below.



6. Circulate bottoms up with cement truck.
 - Max anticipated time before circulating with cement truck is 24 hours.
7. Perform cement job, taking returns in the cellar.
8. Confirm well is static and floats are holding following the cement job.
9. Remove cement equipment and install night cap with pressure gauge for monitoring.

Offline Cementing - Surface Casing

Matador Production Company

Ranger/Arrowhead

Blue Chip

Blue Chip 14 Fed Com #511H

Wellbore #1

BLM Plan #2

Anticollision Summary Report

28 March, 2025

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3882.5usft
Reference Site:	Blue Chip	MD Reference:	KB @ 3882.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Reference	BLM Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2,886.2 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/28/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,115.6	BLM Plan #2 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Big Game						
Big Bull Fed Com #305H - Wellbore #1 - BLM Plan #1	10,963.8	16,031.0	2,529.0	2,390.9	18.314	CC
Big Bull Fed Com #305H - Wellbore #1 - BLM Plan #1	11,000.0	16,034.6	2,529.2	2,390.9	18.281	ES
Big Bull Fed Com #305H - Wellbore #1 - BLM Plan #1	11,200.0	16,054.1	2,539.9	2,400.5	18.222	SF
Big Bull Fed Com #305H - Wellbore #1 - Wellbore #1	10,994.2	16,267.5	2,554.2	2,415.4	18.403	CC
Big Bull Fed Com #305H - Wellbore #1 - Wellbore #1	11,000.0	16,267.9	2,554.2	2,415.3	18.397	ES
Big Bull Fed Com #305H - Wellbore #1 - Wellbore #1	11,200.0	16,282.7	2,562.4	2,422.5	18.314	SF
Big Bull Fed Com #602H - Wellbore #1 - BLM Plan #1						Out of range
Big Bull Fed Com #602H - Wellbore #1 - Wellbore #1						Out of range
Big Moose Fed Com #505H - Wellbore #1 - Actual	10,600.5	15,950.9	2,377.7	2,238.8	17.111	CC, ES
Big Moose Fed Com #505H - Wellbore #1 - Actual	10,800.0	15,972.4	2,386.0	2,245.4	16.975	SF
Big Moose						
Big Bull Fed Com #132H - Break Sand - Wellbore #1 - S						Out of range
Big Bull Fed Com #132H - TBSC Shale 2-Well - Wellbore						Out of range
Big Moose Fed Com #131H - Break Sand - Wellbore #1	10,985.5	16,413.7	2,456.6	2,315.2	17.363	CC
Big Moose Fed Com #131H - Break Sand - Wellbore #1	11,000.0	16,415.1	2,456.7	2,315.1	17.346	ES
Big Moose Fed Com #131H - Break Sand - Wellbore #1	11,200.0	16,434.6	2,465.9	2,322.7	17.225	SF
Big Moose Fed Com #131H - Break Sand - Wellb - Wellb	11,032.9	16,391.9	1,970.8	1,829.3	13.928	CC, ES
Big Moose Fed Com #131H - Break Sand 2-Well - Wellb	11,200.0	16,408.9	1,977.8	1,835.0	13.857	SF
Big Moose Fed Com #131H - TBSC Shale - Wellbore #1	11,144.0	16,588.1	2,472.3	2,330.0	17.372	CC, ES
Big Moose Fed Com #131H - TBSC Shale - Wellbore #1	11,400.0	16,613.1	2,485.4	2,341.2	17.234	SF
Big Moose Fed Com #131H - TBSC Shale 2-Well - Wellb	11,188.7	16,567.4	1,983.7	1,840.9	13.893	CC
Big Moose Fed Com #131H - TBSC Shale 2-Well - Wellb	11,200.0	16,568.5	1,983.7	1,840.8	13.883	ES
Big Moose Fed Com #131H - TBSC Shale 2-Well - Wellb	11,300.0	16,578.5	1,986.8	1,843.1	13.826	SF

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 Blue Chip 14 Fed Com #511H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3882.5usft
Reference Site:	Blue Chip	MD Reference:	KB @ 3882.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Blue Chip						
Blue Chip 14 Fed Com #501H - Wellbore #1 - BLM Plan	1,504.4	1,504.7	15.1	4.9	1.481	Level 3, CC
Blue Chip 14 Fed Com #501H - Wellbore #1 - BLM Plan	1,600.0	1,600.1	15.4	4.6	1.422	Level 3, ES, SF
Blue Chip 14 Fed Com #502H - Wellbore #1 - BLM Plan	1,291.7	1,295.1	137.1	128.4	15.707	CC
Blue Chip 14 Fed Com #502H - Wellbore #1 - BLM Plan	1,300.0	1,303.5	137.1	128.3	15.605	ES
Blue Chip 14 Fed Com #502H - Wellbore #1 - BLM Plan	9,500.0	9,516.4	639.8	565.3	8.588	SF
Blue Chip 14 Fed Com #504H - Wellbore #1 - BLM Plan	9,866.3	9,765.7	833.1	759.3	11.285	CC, ES
Blue Chip 14 Fed Com #504H - Wellbore #1 - BLM Plan	9,900.0	9,787.2	833.4	759.4	11.268	SF
Blue Chip 14 Fed Com #513H - Wellbore #1 - BLM Plan	10,335.9	10,192.7	1,253.5	1,175.6	16.093	CC, ES
Blue Chip 14 Fed Com #513H - Wellbore #1 - BLM Plan	23,115.6	20,620.6	2,677.6	2,458.4	12.213	SF
Blue Chip 14 Fed Com #522H - Wellbore #1 - BLM Plan	1,424.7	1,433.2	135.0	125.4	13.995	CC, ES
Blue Chip 14 Fed Com #522H - Wellbore #1 - BLM Plan	9,700.0	9,718.1	579.3	502.9	7.579	SF
Blue Chip 14 Fed Com #524H - Wellbore #1 - BLM Plan	10,680.0	10,575.1	728.2	648.3	9.119	CC, ES
Blue Chip 14 Fed Com #524H - Wellbore #1 - BLM Plan	10,700.0	10,588.6	728.3	648.3	9.112	SF
Blue Chip 14 Fed Com #551H - Wellbore #1 - BLM Plan	1,761.1	1,762.9	14.5	2.4	1.198	Level 2, CC
Blue Chip 14 Fed Com #551H - Wellbore #1 - BLM Plan	1,800.0	1,801.7	14.7	2.3	1.189	Level 2, ES, SF
Blue Chip 14 Fed Com #553H - Wellbore #1 - BLM Plan	11,113.4	10,990.3	1,166.6	1,083.3	13.997	CC, ES
Blue Chip 14 Fed Com #553H - Wellbore #1 - BLM Plan	23,115.6	21,379.3	2,008.7	1,757.8	8.007	SF
Blue Chip 14 Fed Com #601H - Wellbore #1 - BLM Plan	1,436.5	1,443.5	102.5	92.8	10.542	CC
Blue Chip 14 Fed Com #601H - Wellbore #1 - BLM Plan	2,113.9	2,118.9	105.1	90.4	7.171	ES
Blue Chip 14 Fed Com #601H - Wellbore #1 - BLM Plan	23,114.9	22,013.0	1,287.7	1,057.0	5.583	SF
Blue Chip 14 Fed Com #603H - Wellbore #1 - BLM Plan	11,632.7	11,529.3	784.6	697.2	8.980	CC, ES
Blue Chip 14 Fed Com #603H - Wellbore #1 - BLM Plan	23,115.6	21,931.0	1,354.7	1,101.3	5.346	SF
Blue Chip 14 Fed Com #702H - Wellbore #1 - BLM Plan	1,200.0	1,201.0	29.9	21.7	3.668	CC, ES
Blue Chip 14 Fed Com #702H - Wellbore #1 - BLM Plan	23,115.6	22,949.3	634.8	265.9	1.720	SF
Blue Chip 14 Fed Com #704H - Wellbore #1 - BLM Plan	23,115.6	22,876.6	752.0	376.5	2.003	CC, ES, SF
Blue Chip - Not Real, for Planning Guide Only						
Blue Chip 14 Fed Com #501H - Wellbore #1 - BLM Plan	1,998.7	2,008.4	111.4	97.4	7.931	CC
Blue Chip 14 Fed Com #501H - Wellbore #1 - BLM Plan	2,000.0	2,009.7	111.4	97.4	7.925	ES
Blue Chip 14 Fed Com #501H - Wellbore #1 - BLM Plan	9,100.0	9,131.0	318.8	249.5	4.600	SF
Hat Mesa						
Hat Mesa #1 - Wellbore #1 - Wellbore #1	14,641.3	12,904.0	586.3	241.5	1.700	CC, ES, SF
Offset Ranger Wells						
MCA Unit Battery 2 #273 - Wellbore #1 - Wellbore #1	4,051.5	4,017.1	227.7	178.6	4.634	CC, ES, SF

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 Blue Chip 14 Fed Com #511H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3882.5usft
Reference Site:	Blue Chip	MD Reference:	KB @ 3882.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3882.5usft

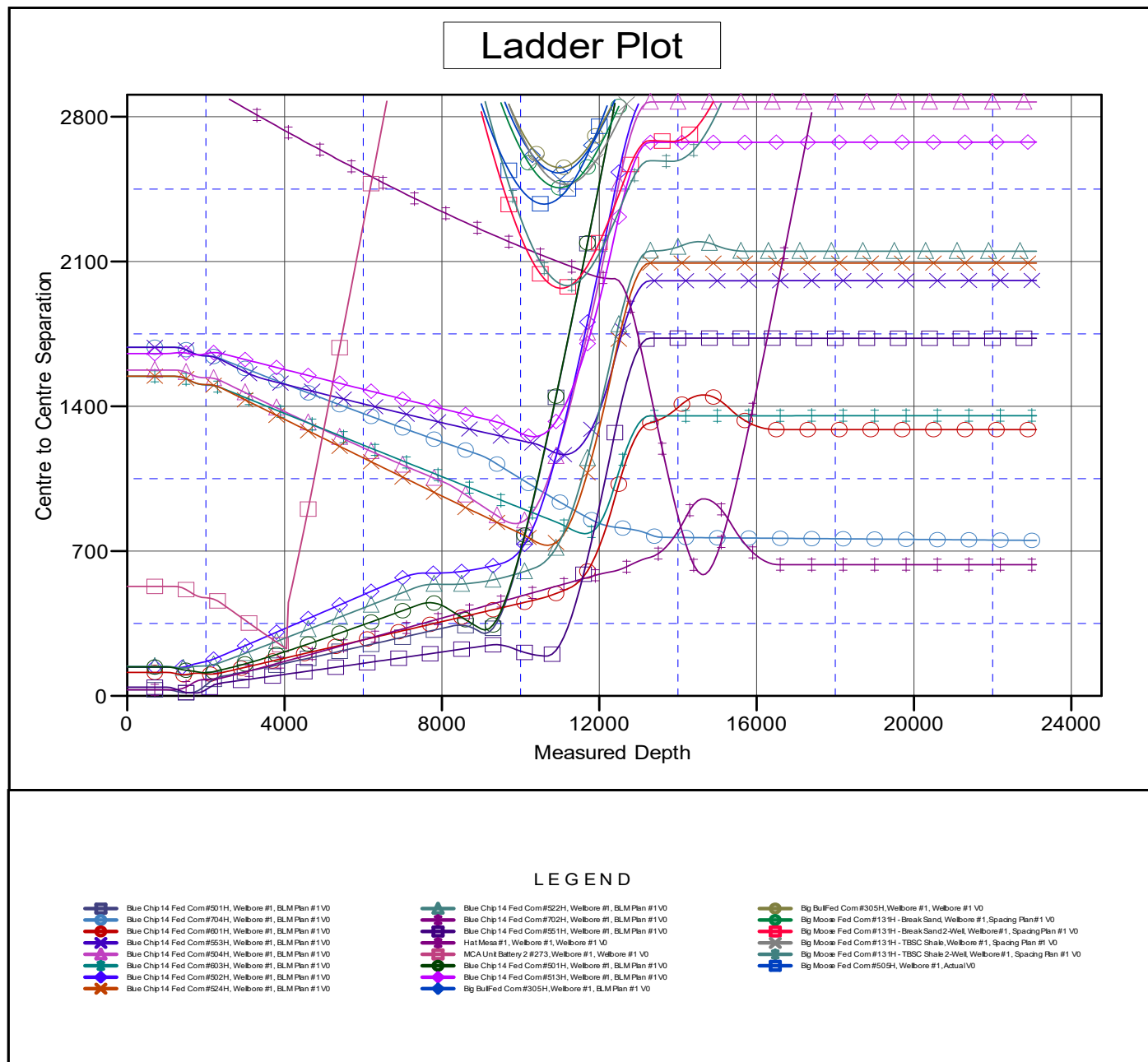
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Blue Chip 14 Fed Com #511H

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

Grid Convergence at Surface is: 0.37°



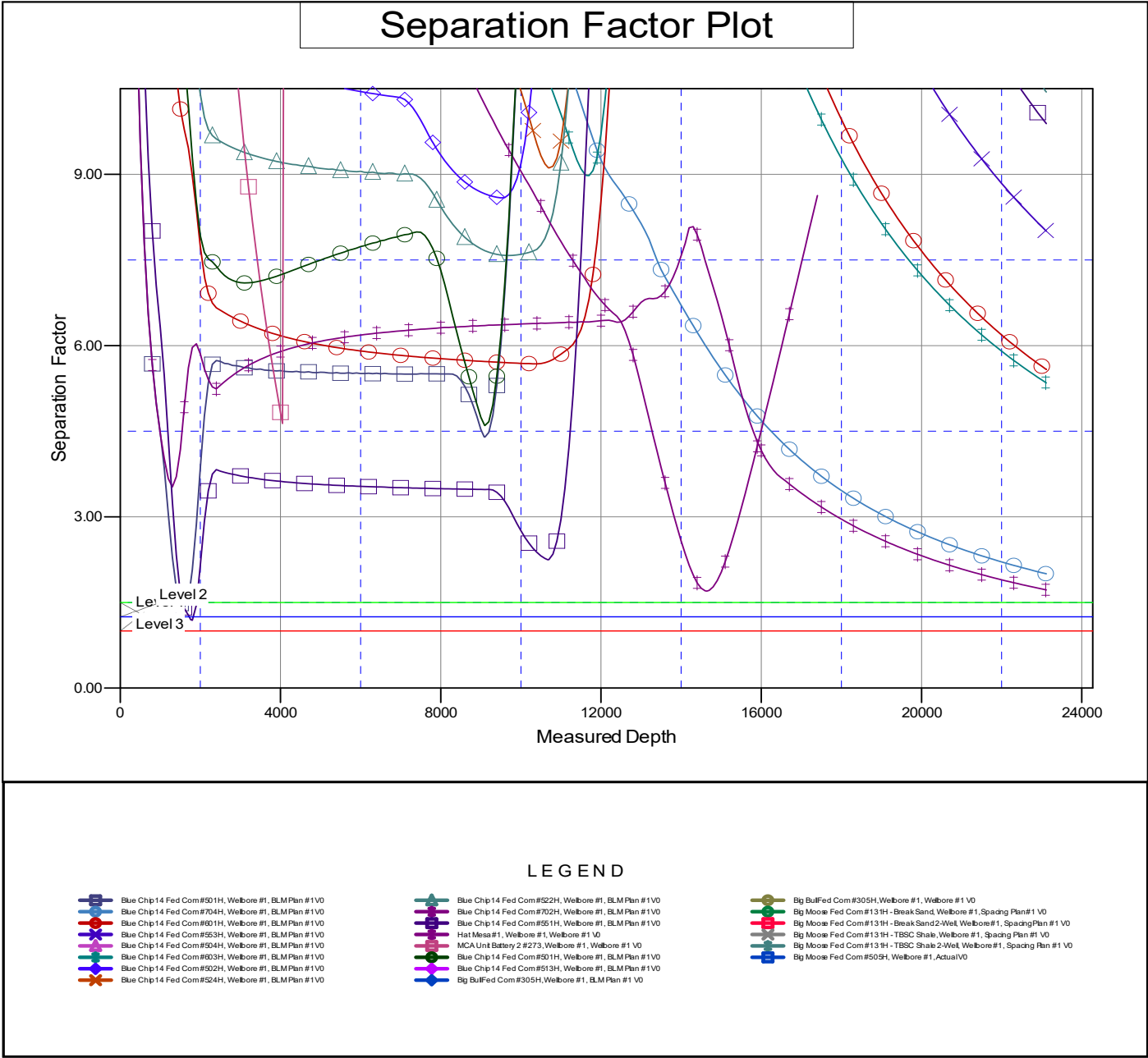
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Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Blue Chip 14 Fed Com #511H
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Reference Well:	Blue Chip 14 Fed Com #511H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3882.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Blue Chip 14 Fed Com #511H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
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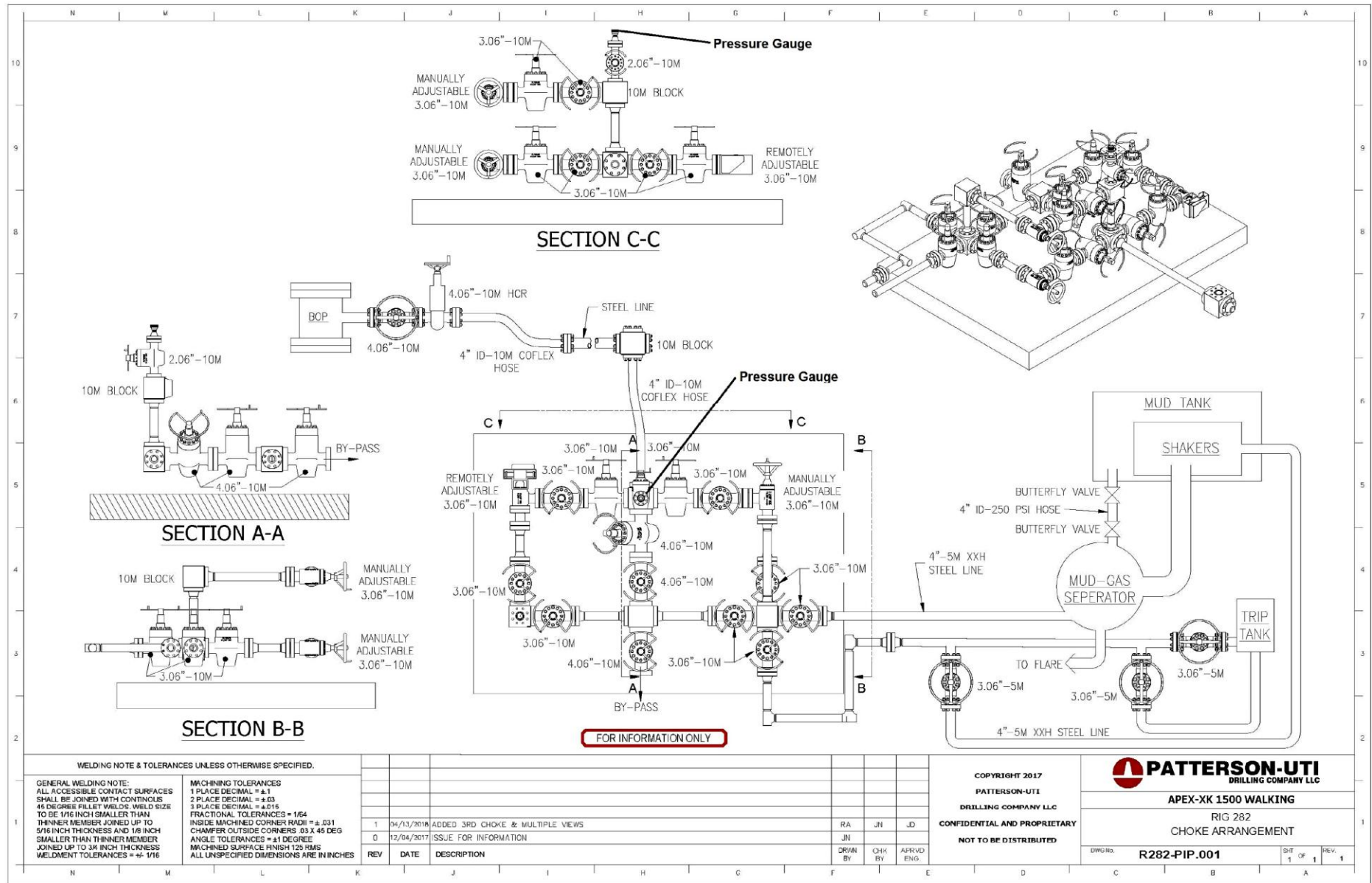
10M Choke Manifold Arrangement

Blue Chip 14 Fed Com 511H

SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E

Elevation Above Sea Level: 3854'



BLM SPUD NOTIFICATION									
SPUD DATE				APPROXIMATE SPUD TIME					
OPERATOR		Matador Production Company				(b) API#			
(a) WELL NAME & #		Blue Chip 14 Fed Com 511H				(c) LEASE SERIAL #			
(d) LEGALS	1/4 1/4		SECTION		TOWNSHIP		RANGE		
RIG NAME & #				CONTACT PERSON					
CONTACT PHONE #				CEMENT SERVICE COMPANY					
(e) HOLE & CASING DESIGN									
HOLE			CASING						
	SIZE		SIZE	DEPTH	WEIGHT	GRADE	CENTRALIZER PLACEMENT		
CONDUCTOR									
SURFACE									
INTERMEDIATE 1st									
INTERMEDIATE 2nd									
PRODUCTION									
OTHER									
REVIEW BLM FORM 3160-3 APPROVED APPLICATION TO DRILL OR REENTER CONDITIONS OF APPROVAL FOR STIPULATIONS (i.e. cement lab results, wait on cement times, & etc.)									
(f) BLOW OUT PREVENTER (BOP) & RELATED EQUIPMENT (BOPE)									
	MANUFACTURER		SIZE	TESTING CONTRACTOR					
CONDUCTOR									
SURFACE									
INTERMEDIATE 1st									
INTERMEDIATE 2nd									
PRODUCTION									
OTHER									
PERSON COMPLETING THIS FORM						DATE		TIME	
FOR ASSISTANCE, SUPPORT, OR ANY QUESTIONS PLEASE CONTACT 575-361-2822									
Instructions Legend									
(a) Obtain from Approved Form #3160-3 Application for Permit to Drill or Reenter Line # 8									
(b) Obtain from Approved Form #3160-3 Application for Permit to Drill or Reenter Line # 9									
(c) Obtain from Approved Form #3160-3 Application for Permit to Drill or Reenter Line # 5									
(d) Obtain from Approved Form #3160-3 Application for Permit to Drill or Reenter Line # 11									
(e) Obtain from Approved Form #3160-3 Application for Permit to Drill or Reenter Casing Program & Pecos District Conditions of Approval (attached to back of Approved Form 3160-3 Application for Permit to Drill or Reenter)									

(f) Obtain from Rental Company, or Manufacturer of Blow Out Preventer Equipment.

Casing Specs - 7.625" 29.7lb Sprint SF

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'



CONNECTION DATA SHEET

OD: 7.625 in.

Weight: 29.70 lb/ft

Wall Th.: 0.375 in.

Grade: P110 EC

Drift: 6.750 in. (API)

VAM[®] SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

25,000 MIN

30,000 OPTI

35,000 MAX

Torque with Sealability (ft-lb)

50,000 MTS

Locked Flank Torque (ft-lb)

6,000 MIN

21,000 MAX

(1) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES		
Nominal OD	7.625	in.
Nominal ID	6.875	in.
Nominal Wall Thickness	0.375	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	29.70	lb/ft
Plain End Weight	29.06	lb/ft
Drift	6.750	in.
Grade Type	High Yield	
Minimum Yield Strength	125	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	135	ksi
Pipe Body Yield Strength	1,068	klb
Internal Yield Pressure	10,760	psi
Collapse Pressure	7,360	psi

CONNECTION PROPERTIES		
Connection Type	Semi-Premium Integral Semi-Fl	
Nominal Connection OD	7.882	in.
Nominal Connection ID	6.823	in.
Make-up Loss	4.897	in.
Tension Efficiency	89.5	% Pipe Body
Compression Efficiency	89.5	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES		
Tension Strength	956	klb
Compression Strength	956	klb
Internal Pressure Resistance	10,760	psi
External Pressure Resistance	7,360	psi
Maximum Bending, Structural	64	°/100 ft
Maximum Bending, with Sealability	20	°/100 ft

(5) Sealability rating demonstrated as per API RP 5C3 / ISO 13679



SURVEY PROGRAM

WELL DETAILS: Blue Chip 14 Fed Com #511H

Depth From 0.0
Depth To 23115.6
Survey/Plan BLM Plan #2 (Wellbore #1)
Tool MWD

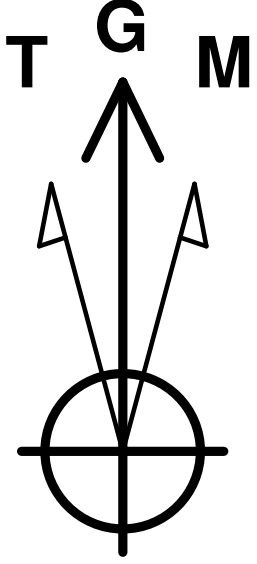
+N/-S 0.0
+E/-W 0.0
Northing 542184.59
GL @ 3854.0 Easting 714648.44
KB @ 3882.5usft Latitude 32° 29' 19.144 N
Longitude 103° 38' 13.910 W
Slot

DESIGN TARGET DETAILS

Company: Matador Production Company
Well: Blue Chip 14 Fed Com #511H
County: Lea County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #2
Date: 3/28/2025

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

To convert a Magnetic Direction to a Grid Direction, Add 5.95°
To convert a Magnetic Direction to a True Direction, Add 6.32° East
To convert a True Direction to a Grid Direction, Subtract 0.37°



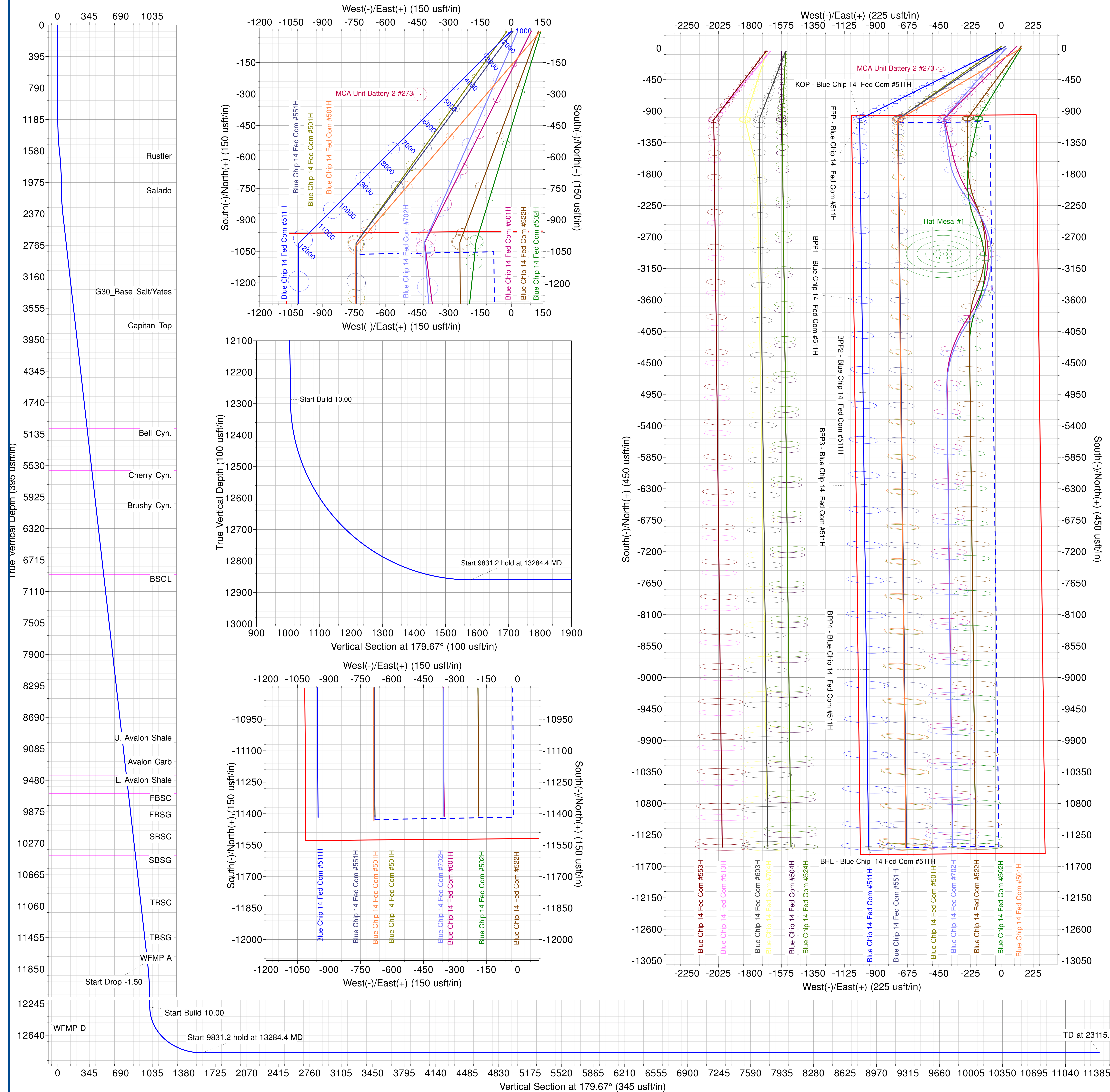
Azimuths to Grid North
True North: -0.37°
Magnetic North: 5.95°

Magnetic Field
Strength: 47440.9snT
Dip Angle: 60.21°
Date: 9/15/2023
Model: IGRF2015

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - Blue Chip 14 Fed Com #511H	12860.0	-11417.6	-952.4	530767.00	713696.00	32° 27' 26.225 N	103° 38' 25.895 W
BPP1 - Blue Chip 14 Fed Com #511H	12860.0	-3603.6	-999.4	538581.00	713649.00	32° 28' 43.550 N	103° 38' 25.852 W
BPP2 - Blue Chip 14 Fed Com #511H	12860.0	-4922.6	-991.4	537262.00	713657.00	32° 28' 30.497 N	103° 38' 25.858 W
BPP3 - Blue Chip 14 Fed Com #511H	12860.0	-6240.6	-983.4	535944.00	713665.00	32° 28' 17.455 N	103° 38' 25.865 W
BPP4 - Blue Chip 14 Fed Com #511H	12860.0	-8883.6	-967.4	533301.00	713681.00	32° 27' 51.300 N	103° 38' 25.878 W
FPP - Blue Chip 14 Fed Com #511H	12500.9	-1063.6	-1015.4	541121.00	713633.00	32° 29' 8.684 N	103° 38' 25.846 W
KOP - Blue Chip 14 Fed Com #511H	12287.0	-1013.6	-1015.4	541171.00	713633.00	32° 29' 9.179 N	103° 38' 25.842 W

SECTION DETAILS

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	
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1600.0	8.00	227.00	1598.7	-19.0	-20.4	2.00	227.00	18.9	Start Drop -2.00
2000.0	0.00	0.00	1997.4	-38.0	-40.8	2.00	180.00	37.8	Start Build 2.00
2399.6	7.99	224.97	2395.7	-57.7	-60.4	2.00	224.97	57.4	Start 9452.1 hold at 2399.6 MD
11851.6	7.99	224.97	11756.0	-987.4	-989.2	0.00	0.00	981.6	Start Drop -1.50
12384.4	0.00	0.00	12287.0	-1013.6	-1015.4	1.50	180.00	1007.7	Start Build 10.00
13284.4	90.00	179.65	12860.0	-1586.5	-1011.9	10.00	179.65	1580.7	Start 9831.2 hold at 13284.4 MD
23115.6	90.00	179.65	12860.0	-11417.6	-951.9	0.00	0.00	11411.9	TD at 23115.6

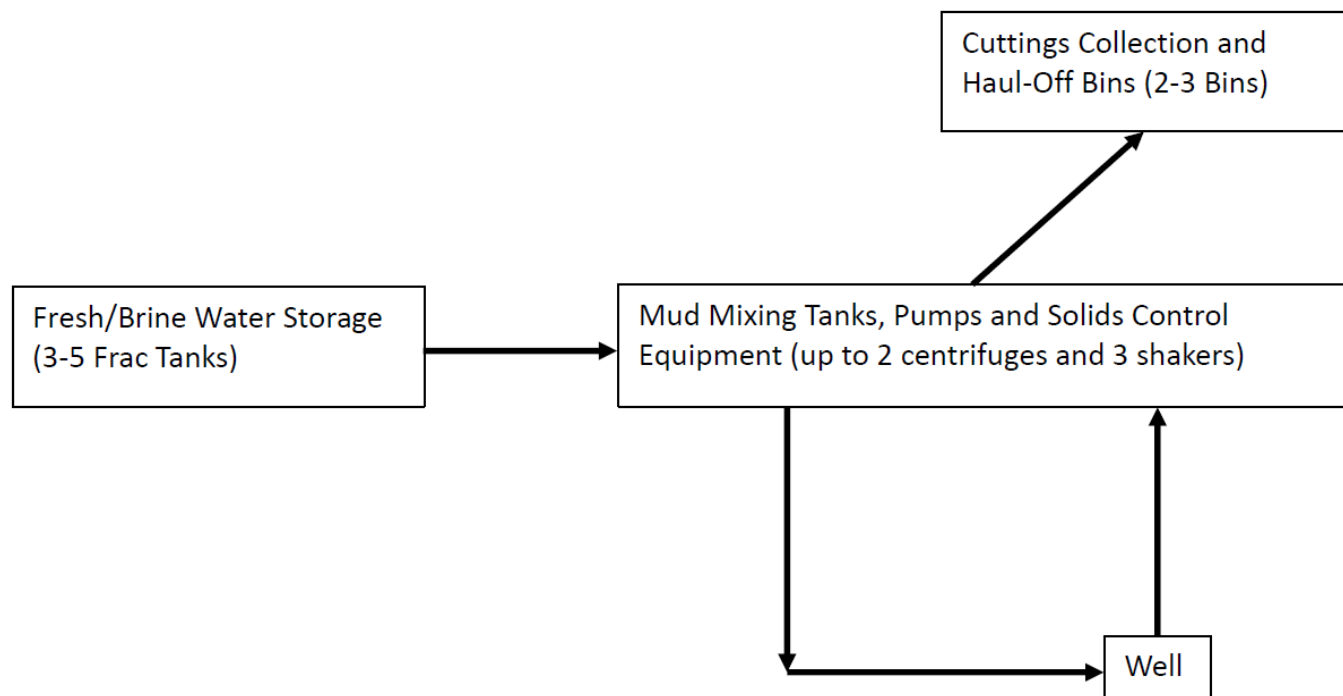


Closed-Loop System

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

Closed-Loop System



Operating and Maintenance Plan:

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.

Casing Design Criteria and Load Case Assumptions

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

Surface Casing

Collapse: $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b = 1.125$

- a. Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

Intermediate #1 Casing

Collapse: $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b = 1.125$

- a. Pressure Test: Casing test per Title 43 CFR 3172 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- b. Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.

c.

Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

Intermediate #2 Casing

Collapse: $DF_c = 1.125$

- a. Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Casing Design Criteria and Load Case Assumptions

Burst: $DF_b = 1.125$

- a. Pressure Test: Casing test per Title 43 CFR 3172 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- b. Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- c. Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

Intermediate #3 Casing

Collapse: $DF_c = 1.125$

- a. Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b = 1.125$

- a. Pressure Test: Casing test per Title 43 CFR 3172 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- b. Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- c. Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

Production Casing

Collapse: $DF_c = 1.125$

- a. Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- b. Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Casing Design Criteria and Load Case Assumptions

Burst: $DF_b = 1.125$

- a. Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- b. Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t = 1.8$

- a. Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy.

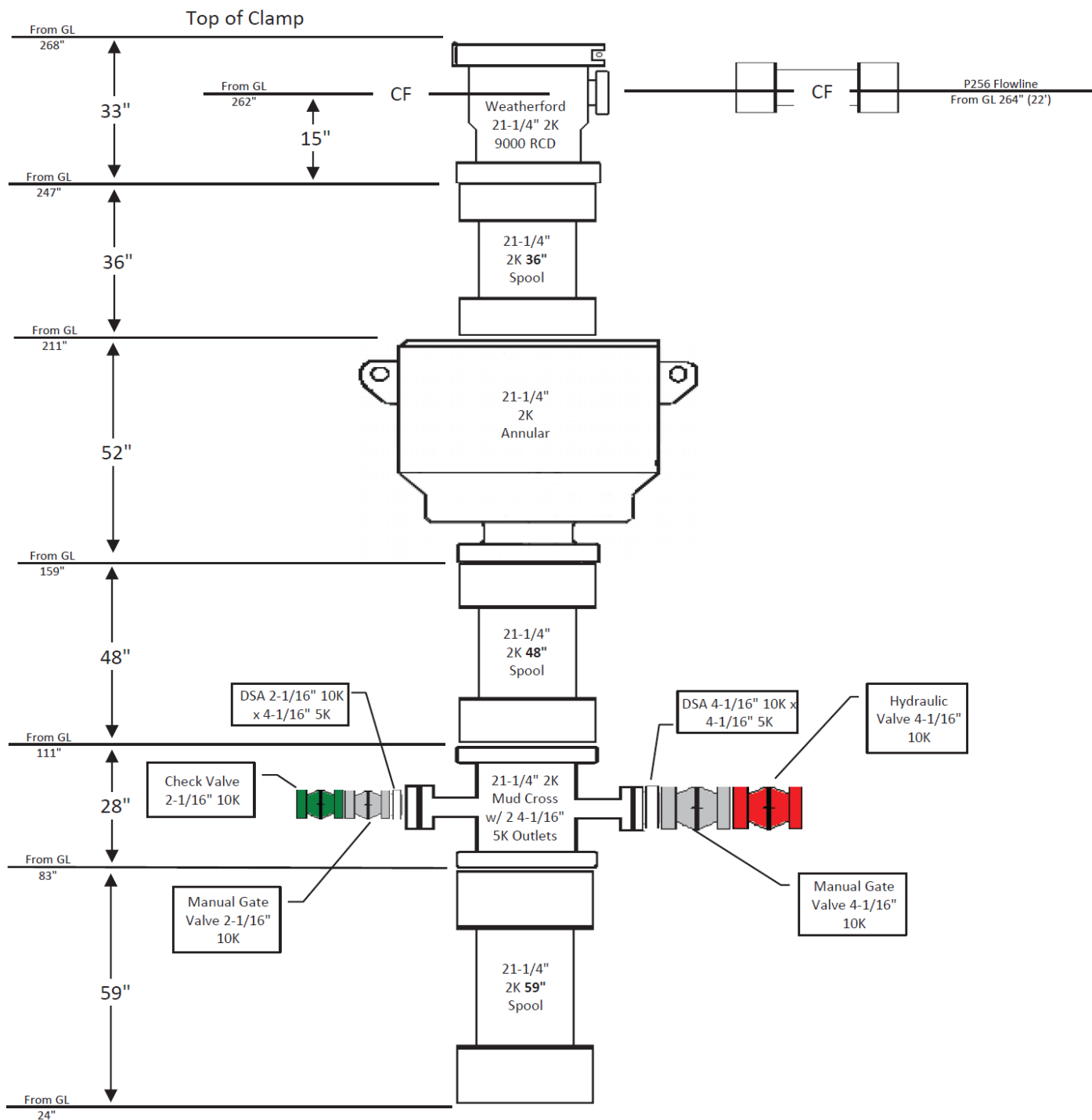
21-1/4" Diverter Stack

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

Top of Rig Floor

Rotary Beams



Casing Table Specification Sheet

Blue Chip 14 Fed Com 511H

SHL: 955' FSL & 239' FEL Section 11

BHL: 110' FSL & 1261' FEL Section 23

Township/Range: 21S 32E

Elevation Above Sea Level: 3854

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1609	0 - 1609	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3387	0 - 3387	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 5113	0 - 5113	9.625	40	J-55	BUTT	1.125	1.125	1.8
Intermediate 3	8.75	0 - 12234	0 - 12137	7.625	29.7	P-110	VAM Sprint SF	1.125	1.125	1.8
Production	6.75	0 - 23115	0 - 12860	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Matador Production Company

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Casing Specs - 7.625" 29.7lb BUTT

Blue Chip 14 Fed Com 511H
SHL: 955' FSL & 239' FEL Section 11

Township/Range: 21S 32E
Elevation Above Sea Level: 3854'

CASING PERFORMANCE Data Sheet



UOM	Type	OD Size	T&C LB/FT	PE LB/FT	Grade
STANDARD	CASING	7.625	29.70	29.06	P110 EC

Grade - Material Properties

Minimum Yield Strength:	125	ksi
Maximum Yield Strength:	140	ksi
Minimum Tensile Strength:	135	ksi

Pipe Body Data (PE)

Geometry

Nominal ID:	6.875	inch
Wall:	0.375	inch
Min. Wall % (API = 87.5%):	87.5	%
API Drift:	6.750	inch
Special Drift*:	N/A	inch

Performance

Pipe Body Yield Strength:	1,068	kips
Collapse Resistance:	7,360	psi
Internal Yield Pressure (API Historical):	10,760	psi

API Connection Data

SC Internal Pressure:	N/A	psi
SC Joint Strength:	N/A	kips
LC Internal Pressure:	N/A	psi
LC Joint Strength:	N/A	kips
BC Internal Pressure:	N/A	psi
BC Joint Strength:	N/A	kips

SC Torque

Minimum: N/A Optimum: N/A Maximum: N/A

LC Torque

Minimum: N/A Optimum: N/A Maximum: N/A

Disclaimer

This data sheet is for informational purposes only. While every effort has been made to ensure the accuracy of all data and that the information contained herein is correct, this material is presented as a reference guide only. Vallourec assumes no responsibility for the results obtained through the use of this material.

API grades with enhanced performance are supplied with API couplings produced from standard API grades. If above API connections do not suit your needs, VAM premium connections are available up to 100% of pipe body ratings.

*Special drift must be ordered or API drift will be used for actual drifting of product.

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

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

CONDITIONS

Action 502648

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502648
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	all prior conditions still apply	1/16/2026