

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Reports
10/31/2025

Well Name: SIMON CAMAMILE 0206 Well Location: T21S / R28E / SEC 02 / County or Parish/State: EDDY /

FED COM LOT 5 / 32.5178161 / -104.063686

Well Number: 222H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM142221 Unit or CA Name: Unit or CA Number:

COMPANY

#### **Notice of Intent**

**Sundry ID: 2877849** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/09/2025 Time Sundry Submitted: 09:55

Date proposed operation will begin: 12/10/2025

**Procedure Description:** BLM bond number: NMB001079 Surety bond number: RLB0015172 Matador request the option to amend the well design of the Simon Camamile 0206 Fed Com 222H and make the following changes to the current APD: - Change the well name from Simon Camamile 0206 Fed Com 222H to the Simon Camamile 0206 Fed Com 122H. - Amend casing and cementing plan by changing surface section hole size to 17.5" and surface casing size to 13.375" as described below. Cement volumes will be adjusted accordingly. - Amend casing and cementing plan by changing intermediate 1 hole size to 12.25" and intermediate 1 casing size to 10.75" as described below. Cement volumes will be adjusted accordingly. - Amend casing and cementing plan by changing intermediate 2 hole size to 9.875" and intermediate 2 casing size to 8.625" as described below. Cement volumes will be adjusted accordingly - Amend casing and cementing plan by changing production hole size to 7.875" x 6.75" and production casing size to 5.5" as described below. Cement volumes will be adjusted accordingly - Modify casing set depths as shown on the casing and cement table - Change well target from 10,011' to 8,270' TVD

#### **NOI Attachments**

#### **Procedure Description**

Simon\_Camamile\_0206\_Fed\_Com\_122H\_Offline\_Cementing\_\_\_Surface\_20251009095350.pdf

Simon\_Camamile\_0206\_Fed\_Com\_122H\_Offline\_Cementing\_\_\_Int\_20251009095345.pdf

 $Simon\_Camamile\_0206\_Fed\_Com\_122H\_Directional\_Well\_Plan\_20251009095337.pdf$ 

Simon\_Camamile\_0206\_Fed\_Com\_122H\_Directional\_Wall\_Plot\_20251009095332.pdf

Simon\_Camamile\_0206\_Fed\_Com\_122H\_Directional\_AC\_Report\_20251009095326.pdf

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well Name: SIMON CAMAMILE 0206 Well Location: T21S / R28E / SEC 02 /

FED COM LOT 5 / 32.5178161 / -104.063686

County or Parish/State: Page 2 9f 107

Well Number: 222H Type of Well: OIL WELL **Allottee or Tribe Name:** 

Lease Number: NMNM142221 **Unit or CA Name: Unit or CA Number:** 

**US Well Number: 3001554309 Operator: MATADOR PRODUCTION** 

**COMPANY** 

Simon\_Camamile\_0206\_Fed\_Com\_122H\_Csg\_Specs\_8.625in\_32lb\_TLW\_20251009095320.pdf  $Simon\_Camamile\_0206\_Fed\_Com\_122H\_Csg\_Specs\_5.5 in\_20 lb\_TLW\_SC\_20251009095311.pdf$ Simon\_Camamile\_0206\_Fed\_Com\_122H\_Co\_Flex\_Hose\_Certs\_20251009095305.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_Closed\_Loop\_System\_20251009095252.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_Casing\_Table\_Spec\_20251009095243.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_Casing\_Design\_Criteria\_20251009095236.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_Break\_Testing\_Sundry\_20251009095228.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_5M\_Choke\_Manifold\_20251009095222.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_5M\_BOP\_20251009095215.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_4\_String\_Wellhead\_Diagram\_20251009095208.pdf Simon\_Camamile\_0206\_Fed\_Com\_122H\_\_Sundry\_Drill\_Plan\_20251009095046.pdf MRC\_Energy\_Co\_Drilling\_Contingency\_plan\_20251009095029.pdf

LO\_SIMON\_CAMAMILE\_0206\_FED\_COM\_122H\_REV3\_S\_Signed\_ARF\_20251009095011.pdf

## **Conditions of Approval**

#### **Additional**

SIMON\_CAMAMILE\_0206\_FED\_COM\_122H\_Sundry\_2877849\_COA\_20251031115143.pdf

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eived by OCD: 11/3/2025 9:37:04 AM Well Name: SIMON CAMAMILE 0206

FED COM

Well Location: T21S / R28E / SEC 02 / LOT 5 / 32.5178161 / -104.063686

County or Parish/State: Page 3 of 1

Well Number: 222H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Lease Number: NMNM142221

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number:** 3001554309

**Operator: MATADOR PRODUCTION** 

**COMPANY** 

### **Operator**

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

**Operator Electronic Signature: ADDISON FISHER** Signed on: OCT 09, 2025 09:54 AM

Name: MATADOR PRODUCTION COMPANY

Title: Surface Land

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS State: TX

Phone: (972) 371-5236

Email address: ADDISON.FISHER@MATADORRESOURCES.COM

### **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

**Email address:** 

#### **BLM Point of Contact**

**BLM POC Name: CHRISTOPHER WALLS BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234 BLM POC Email Address: CWALLS@BLM.GOV

**Disposition:** Approved Disposition Date: 10/31/2025

Signature: Chris Walls

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Form 3160-5

# **UNITED STATES**

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 202

(October 2024)	DEPARTMENT OF T	THE INTERIOR			ires: October 31, 2027			
	BUREAU OF LAND			5. Lease Serial No.				
Do not	SUNDRY NOTICES AND I	sals to drill or to re	-enter an	6. If Indian, Allottee or Tribe Name				
abando	ned well. Use Form 3160		oroposais.	7. If Unit of CA/Agreement, N	fame and/or No.			
1. Type of Well	SUBMIT IN TRIPLICATE - Othe	r instructions on page 2		_				
Oil Well	Gas Well Oth	er		8. Well Name and No.				
2. Name of Operator				9. API Well No.				
3a. Address		3b. Phone No. (incl	lude area code)	10. Field and Pool or Explorat	ory Area			
4. Location of Well (Food	otage, Sec., T.,R.,M., or Survey Descri	ription)		11. Country or Parish, State				
	12. CHECK THE APPROPRI	ATE BOX(ES) TO INDICA	ATE NATURE	OF NOTICE, REPORT OR OTH	IER DATA			
TYPE OF SUBM	ISSION		TYP	E OF ACTION				
Notice of Intent	Acidize Alter Casing	Deepen Hydraulid	e Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity			
Subsequent Repo	Subsequent Report Casing Repair			Recomplete	Other			
	Change Plans	= ~		Temporarily Abandon				
Final Abandonme	ent Notice Convert to In	jection Plug Bac	k	Water Disposal				
is ready for final insp								
14. I hereby certify that the	he foregoing is true and correct. Na	me (Printed/Typed)						
		Tit	le					
Signature		Da	te					
	THE S	PACE FOR FEDER	AL OR STA	ATE OFICE USE				
Approved by			T'4					
Condition of 1	form on attached Access 1 Cd.	notice describer	- Title	I	Date			
certify that the applicant	f any, are attached. Approval of this holds legal or equitable title to those pplicant to conduct operations there	rights in the subject lease	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, 3162.3-4.

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

(Form 3160-5, page 2)

#### **Additional Information**

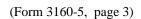
#### **Additional Remarks**

Cement volumes will be adjusted accordingly

- Modify casing set depths as shown on the casing and cement table
- Change well target from 10,011' to 8,270' TVD

#### **Location of Well**

0. SHL: LOT 5 / 1754 FNL / 686 FWL / TWSP: 21S / RANGE: 28E / SECTION: 02 / LAT: 32.5178161 / LONG: -104.063686 ( TVD: 0 feet, MD: 0 feet ) PPP: LOT 5 / 1106 FNL / 0 FWL / TWSP: 21S / RANGE: 28E / SECTION: 01 / LAT: 32.5195809 / LONG: -104.0048764 ( TVD: 9877 feet, MD: 14860 feet ) PPP: LOT 7 / 1107 FNL / 2671 FEL / TWSP: 21S / RANGE: 28E / SECTION: 1 / LAT: 32.5195704 / LONG: -104.0400911 ( TVD: 9925 feet, MD: 17600 feet ) PPP: LOT 5 / 1109 FNL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 06 / LAT: 32.5195594 / LONG: -104.0031425 ( TVD: 9972 feet, MD: 20300 feet ) BHL: LOT 6 / 1111 FNL / 2268 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5195496 / LONG: -104.0240659 ( TVD: 10011 feet, MD: 22500 feet )



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** MATADOR PRODUCTION COMPANY **WELL NAME & NO.:** SIMON CAMAMILE 0206 FED COM 122H

**APD ID:** 10400083432

**SURFACE LOCATION:** Section 2, T.21 S., R.28 E. NMP.

COUNTY: Eddy County, New Mexico

Previously known as **SIMON CAMAMILE 0206 FED COM 222H**. Changes approved through engineering via **Sundry 2877849** on 10/31/2025. Any previous COA not addressed within the updated COA still apply.

COA

$H_2S$	0	No	•	Yes
Potash /	None	Secretary	© R-111-Q	☐ Open Annulus
WIPP				$\square$ WIPP
Cave / Karst	C Low	• Medium	C High	Critical
Wellhead	Conventional	• Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	DV Tool
Special Req	Capitan Reef	☐ Water Disposal	<b>▼</b> COM	Unit
Waste Prev.	C Self-Certification	C Waste Min. Plan	APD Submitted p	rior to 06/10/2024
Additional	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing
Language	▼ Four-String	Offline Cementing	☐ Fluid-Filled	

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

#### A. CASING DESIGN

**Note:** The surface casing set depth was adjusted based on the recommendation from the BLM geologist. "set casing 25 feet into the Rustler Formation at approximately 665 feet. The Rustler does vary in this area. If salt is encountered, set casing at least 25 feet above the salt."

- 1. The 13-3/8 inch surface casing shall be set at approximately 665 ft. (a minimum of 70 ft. 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 <u>8</u> hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Note:** The 1<sup>st</sup> Intermediate casing set depth was adjusted based on the recommendation from the BLM geologist. "The operator proposes to set the 1st intermediate casing at 1175 feet, which will be in the Salt Formation. Instead, to leave room for a DV Tool and to ensure cement circulated to surface, set casing in the base of the Yates formation at approximately 1650 feet."

2. The 10-3/4 inch 1<sup>st</sup> intermediate casing shall be set in a competent bed at approximately 1,650 ft. The minimum required fill of cement behind the 10-3/4 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**.

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

- First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- Second stage above DV tool: Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

**Note:** The DV tool depth should be adjusted to reflect the revised surface casing set depth. More cement may be required.

- ❖ In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3<sup>rd</sup> casing string must come to surface.
- ❖ Special Capitan Reef Requirement: Ensure freshwater based mud is used across the Capitan interval.
- 3. The 8-5/8 inch, 2<sup>nd</sup> intermediate casing shall be set at approximately 3,832 ft. (3,817 ft. TVD) The minimum required fill of cement behind the 8-5/8-inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least 50 feet above the Capitan Reef top or 200 feet into the previous casing, whichever is greater. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan reef.

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

- a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool(s): Cement should tie-back at least **50 feet** above the Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan reef.

**Note:** The DV tool depth should be adjusted to reflect the revised 1<sup>st</sup> intermediate casing set depth.

- **4.** Operator has proposed to set **5-1/2 inch** production casing at approximately **20,875 ft.** (8,270 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

#### **Offline Cementing**

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

#### B. PRESSURE CONTROL

- 1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a **multi-bowl wellhead** assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi. The BOP/BOPE shall be pressure-tested in accordance with **title 43** CFR 3172.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in the title 43 CFR 3172.6(b)(9) must be followed.

#### **BOPE Break Testing Variance**

- Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per title 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

#### C. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## **GENERAL REQUIREMENTS**

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

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

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

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV**; (575) 361-2822.

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43** CFR 3172 as soon as 2<sup>nd</sup> Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

- 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 crewintensive operations.

SA 10/31/2025

## Offline Cementing - Surface Casing

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Elevation Above Sea Level: 3292'

Township/Range: 21S 28E

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

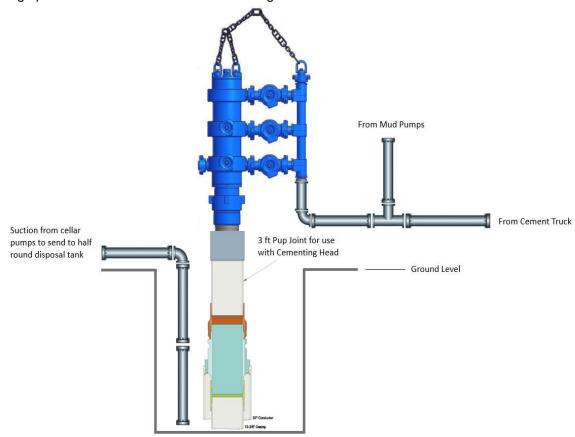
#### **Cement Program**

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
- Run casing as per normal operations. While running casing, conduct a negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing with mandrel.
- 3. Nipple down BOP and install cap flange.
- 4. Skid rig to the next well on the pad.
- 5. Rig up on the well in accordance with the diagram shown below.



- 6. Circulate bottoms up with cement truck.
  - Max anticipated time before circulating with cement truck is 24 hours.
- 7. Perform cement job, taking returns in the cellar.

## Offline Cementing - Surface Casing

- 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.

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'

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 nippling down BOP and installing cap flange.
- Skid rig to the next well on the pad.
- 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.

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

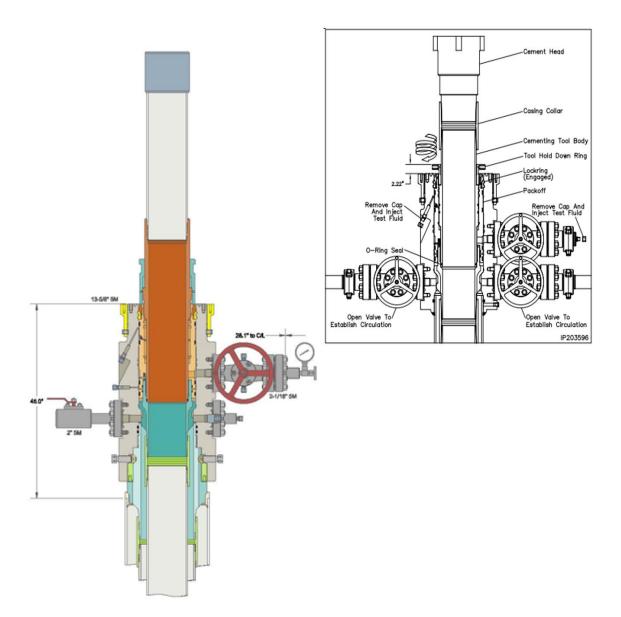
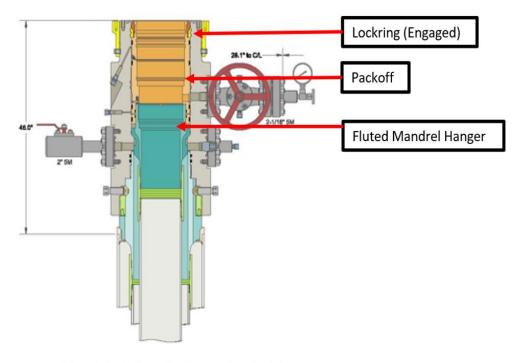
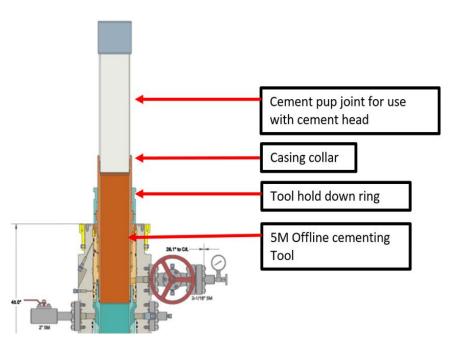


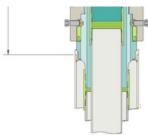
Figure 2: Step-by-Step schematics procedure

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

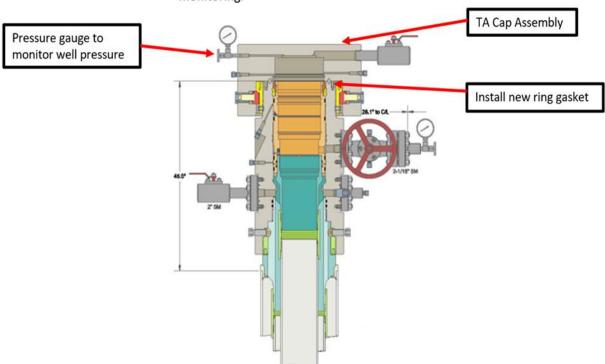


**Step 2:** Install casing hanger/packoff offline cementing tool.





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



## **Matador Production Company**

Ranger/Arrowhead Simon Camamile Fed Com Simon Camamile 0206 Fed Com #122H

Wellbore #1

Plan: BLM Plan #1

## **Standard Planning Report**

08 October, 2025

EDM 5000.14 Single User Db Database: Company: Matador Production Company

Project: Ranger/Arrowhead Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1 BLM Plan #1 Design:

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**  Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid

Minimum Curvature

Project Ranger/Arrowhead

US State Plane 1927 (Exact solution) Map System: NAD 1927 (NADCON CONUS) Geo Datum:

New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Simon Camamile Fed Com Site

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

Well Simon Camamile 0206 Fed Com #122H

**Well Position** +N/-S 4,455.8 usft Northing: 552,156.10 usft Latitude: 32° 31' 3.708 N +E/-W -203.9 usft Easting: 583,271.12 usft Longitude: 104° 3' 47.462 W

**Position Uncertainty** 0.0 usft Wellhead Elevation: **Ground Level:** 3,292.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2015 12/31/2019 6.93 60.22 47,799.35372788

BLM Plan #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 89.93

Plan Survey Tool Program 10/8/2025 Date **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.0 20,874.1 BLM Plan #1 (Wellbore #1) MWD OWSG MWD - Standard

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid Minimum Curvature

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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	6.00	145.00	999.5	-12.9	9.0	2.00	2.00	0.00	145.00	
1,100.0	6.00	145.00	1,098.9	-21.4	15.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,398.4	-34.3	24.0	2.00	-2.00	0.00	180.00	
1,600.0	0.00	0.00	1,598.4	-34.3	24.0	0.00	0.00	0.00	0.00	
1,935.4	6.71	280.40	1,933.0	-30.7	4.7	2.00	2.00	0.00	280.40	
7,289.9	6.71	280.40	7,250.9	82.2	-610.4	0.00	0.00	0.00	0.00	
7,737.1	0.00	0.00	7,697.0	86.9	-636.1	1.50	-1.50	0.00	180.00	KOP - Simon Camam
8,637.1	90.00	97.40	8,270.0	13.1	-67.9	10.00	10.00	0.00	97.40	
9,010.6	90.00	89.93	8,270.0	-10.8	304.5	2.00	0.00	-2.00	-90.00	
9,452.7	81.16	89.93	8,304.0	-10.2	744.9	2.00	-2.00	0.00	180.00	
9,894.7	90.00	89.93	8,338.0	-9.7	1,185.2	2.00	2.00	0.00	0.00	
10,336.8	98.84	89.93	8,304.0	-9.1	1,625.5	2.00	2.00	0.00	0.00	
10,778.9	90.00	89.93	8,270.0	-8.6	2,065.9	2.00	-2.00	0.00	180.00	
20,874.9	90.00	89.93	8,270.0	3.7	12,161.9	0.00	0.00	0.00	0.00	BHL - Simon Camami

Database:EDM 5000.14 Single User DbCompany:Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft Grid

Minimum Curvature

**Planned Survey** Measured Vertical Vertical Build Turn Dogleg Depth Depth Section Rate Rate Inclination Azimuth +N/-S +E/-W Rate (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (°) (°) (usft) 0.0 0.0 0.00 0.00 0.0 0.0 0.0 0.000.00 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 0.00 536.0 0.00 0.00 536.0 0.0 0.0 0.0 0.00 0.00 0.00 Z (Rustler) 0.00 0.00 600.0 0.00 600.0 0.0 0.0 0.0 0.00 0.00 700.0 0.00 0.00 700.0 0.0 0.0 0.0 0.00 0.00 0.00 Start Build 2.00 800.0 2.00 145.00 800.0 -1.4 1.0 1.0 2.00 2.00 0.00 900.0 4.00 145.00 899.8 -5.7 4.0 4.0 2.00 2.00 0.00 1,000.0 6.00 145.00 999.5 -12.9 9.0 9.0 2.00 2.00 0.00 Start 100.0 hold at 1000.0 MD 145.00 1,051.0 -17.3 12.1 12.1 0.00 0.00 0.00 1.051.8 6.00 Z (G30:CS14-CSB): Base Salt 1,100.0 6.00 145.00 1,098.9 -21.4 15.0 15.0 0.00 0.00 0.00 Start Drop -2.00 4.00 145.00 1,198.5 -28.6 20.0 20.0 2.00 -2.00 0.00 1,200.0 145.00 -2.00 1.300.0 2.00 1.298.4 -32.8 23.0 23.0 2.00 0.00 1,400.0 0.00 0.00 1,398.4 -34.3 24.0 24.0 2.00 -2.00 0.00 Start 200.0 hold at 1400.0 MD 24.0 0.00 0.00 0.00 0 00 1 498 4 -34 3 24 0 1 500 0 0.00 1,584.6 0.00 0.00 1,583.0 -34.324.0 24.0 0.00 0.00 0.00 Z (Capitan (T)) 1,600.0 0.00 0.00 1,598.4 -34.3 24.0 24.0 0.00 0.00 0.00 Start Build 2.00 280.40 22.2 1.700.0 1,698.3 22.3 2.00 2.00 0.00 2 00 -34.01.800.0 4.00 280.40 1,798.2 -33.0 17.1 17.1 2.00 2.00 0.00 -31.4 6.00 280 40 1 897 8 8.5 2 00 2 00 0.00 1 900 0 86 1,935.4 6.71 280.40 1,933.0 -30.74.7 4.7 2.00 2.00 0.00 Start 5354.6 hold at 1935.4 MD 280 40 1,997.1 -29.4 -27 -27 0.00 0.00 0.00 2.000.0 6.71 2.100.0 280 40 2.096.5 -27.3 -14.2 0.00 0.00 6 71 -14 2 0.00 2,200.0 280.40 2,195.8 -25.2 -25.7 -25.7 0.00 0.00 6.71 0.00 2 300 0 280 40 2 295 1 -23 0 -37 2 -37 2 0.00 0.00 0.00 6 71 2,400.0 6.71 280.40 2,394.4 -20.9 -48.7 -48.7 0.00 0.00 0.00 2,500.0 6.71 280.40 2,493.7 -18.8 -60.2 -60.2 0.00 0.00 0.00 2.600.0 6.71 280.40 2.593.0 -16.7 -71.6 -71.7 0.00 0.00 0.00 2,700.0 6.71 280.40 2,692.4 -14.6 -83.1 -83.1 0.00 0.00 0.00 2,800.0 6.71 280.40 2,791.7 -12.5 -94.6 -94.6 0.00 0.00 0.00 2.900.0 280 40 -106.1 -106 1 0.00 0.00 6.71 2.891.0 -10.40.00 3,000.0 280.40 2,990.3 0.00 6.71 -8.3 -117.6 -117.6 0.00 0.00 280.40 3,089.6 -129.1 -129.1 0.00 0.00 3,100.0 6 71 -6.2 0.00 280 40 3,188.9 0.00 3.200.0 -140.6-140 6 0.00 0.00 6 71 -4 1 3,300.0 6.71 280.40 3,288.3 -2.0 -152.1 -152.1 0.00 0.00 0.00 280.40 3.387.6 -163.5 0.00 3.400.0 6.71 0.2 -163.5 0.00 0.00 3,500.0 6.71 280.40 3,486.9 2.3 -175.0 -175.0 0.00 0.00 0.00 280.40 3,586.2 -186.5 0.00 0.00 3,600.0 6.71 4.4 -186.5 0.00 3,700.0 6.71 280.40 3,685.5 6.5 -198.0 -198.0 0.00 0.00 0.00 3,782.0 6.71 280.40 3,767.0 8.2 -207.4 -207.40.00 0.00 0.00

Z (G13: Cherry Cyn.)

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid Minimum Curvature

Planned Survey	
. Namiou Survey	
Measured Vertical Vertical Dogleg Bu	ild Turn
Depth Inclination Azimuth Depth +N/-S +E/-W Section Rate Ra	
(usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100	ousft) (°/100usft)
3,800.0 6.71 280.40 3,784.8 8.6 -209.5 -209.5 0.00	0.00 0.00
3,900.0 6.71 280.40 3,884.1 10.7 -221.0 -221.0 0.00	0.00 0.00
4,000.0 6.71 280.40 3,983.5 12.8 -232.5 -232.4 0.00	0.00
4,100.0 6.71 280.40 4,082.8 14.9 -244.0 -243.9 0.00	0.00 0.00
4,200.0 6.71 280.40 4,182.1 17.0 -255.4 -255.4 0.00	0.00 0.00
4,300.0 6.71 280.40 4,281.4 19.1 -266.9 -266.9 0.00	0.00 0.00
4,400.0 6.71 280.40 4,380.7 21.2 -278.4 -278.4 0.00	0.00 0.00
4,500.0 6.71 280.40 4,480.0 23.3 -289.9 -289.9 0.00	0.00 0.00
4,600.0 6.71 280.40 4,579.4 25.5 -301.4 -301.4 0.00	0.00 0.00
4,700.0 6.71 280.40 4,678.7 27.6 -312.9 -312.8 0.00 4,799.0 6.71 280.40 4,777.0 29.7 -324.3 -324.2 0.00	0.00 0.00 0.00 0.00
	0.00 0.00
<b>Z (G7: Brushy Cyn.)</b> 4,800.0 6.71 280.40 4,778.0 29.7 -324.4 -324.3 0.00	0.00 0.00
4,900.0     6.71     280.40     4,877.3     31.8     -335.9     -335.8     0.00       5,000.0     6.71     280.40     4,976.6     33.9     -347.3     -347.3     0.00	0.00 0.00 0.00 0.00
5,000.0 6.71 280.40 4,976.6 33.9 -347.3 -347.3 0.00 5,100.0 6.71 280.40 5,075.9 36.0 -358.8 -358.8 0.00	0.00 0.00
5,200.0 6.71 280.40 5,175.2 38.1 -370.3 -370.3 0.00	0.00 0.00
5,300.0 6.71 280.40 5,274.6 40.2 -381.8 -381.8 0.00	0.00 0.00
5,400.0 6.71 280.40 5,373.9 42.3 -393.3 -393.2 0.00	0.00 0.00
5,500.0 6.71 280.40 5,473.2 44.4 -404.8 -404.7 0.00	0.00 0.00
5,600.0 6.71 280.40 5,572.5 46.5 -416.3 -416.2 0.00	0.00 0.00
5,700.0 6.71 280.40 5,671.8 48.7 -427.8 -427.7 0.00	0.00 0.00
5,800.0 6.71 280.40 5,771.1 50.8 -439.2 -439.2 0.00	0.00
5,900.0 6.71 280.40 5,870.5 52.9 -450.7 -450.7 0.00	0.00 0.00
5,968.0 6.71 280.40 5,938.0 54.3 -458.5 -458.5 0.00	0.00 0.00
Z (G5: L. Brushy Cyn.)	
6,000.0 6.71 280.40 5,969.8 55.0 -462.2 -462.2 0.00	0.00 0.00
6,100.0 6.71 280.40 6,069.1 57.1 -473.7 -473.6 0.00	0.00 0.00
6,200.0 6.71 280.40 6,168.4 59.2 -485.2 -485.1 0.00	0.00 0.00
6,254.0 6.71 280.40 6,222.0 60.3 -491.4 -491.3 0.00	0.00 0.00
<b>Z (G4: BSGL (CS9))</b> 6,300.0 6.71 280.40 6,267.7 61.3 -496.7 -496.6 0.00	0.00 0.00
6,300.0 6.71 280.40 6,267.7 61.3 -496.7 -496.6 0.00 6,400.0 6.71 280.40 6,367.0 63.4 -508.2 -508.1 0.00	0.00 0.00
6,500.0 6.71 280.40 6,466.3 65.5 -519.7 -519.6 0.00	0.00 0.00
6,600.0 6.71 280.40 6,565.7 67.6 -531.1 -531.1 0.00	0.00 0.00
6,603.4 6.71 280.40 6,569.0 67.7 -531.5 -531.4 0.00	0.00 0.00
Z (L8.2: U. Avalon Shale)	0.00
6,680.9 6.71 280.40 6,646.0 69.3 -540.4 -540.4 0.00	0.00 0.00
Z (L6.3: Avalon Carb)	
6,700.0 6.71 280.40 6,665.0 69.7 -542.6 -542.5 0.00	0.00 0.00
6,800.0 6.71 280.40 6,764.3 71.8 -554.1 -554.0 0.00	0.00
6,900.0 6.71 280.40 6,863.6 74.0 -565.6 -565.5 0.00	0.00
6,900.4 6.71 280.40 6,864.0 74.0 -565.7 -565.6 0.00	0.00
Z (L6.2: L. Avalon Shale)	
7,000.0 6.71 280.40 6,962.9 76.1 -577.1 -577.0 0.00	0.00 0.00
7,100.0 6.71 280.40 7,062.2 78.2 -588.6 -588.5 0.00	0.00 0.00
7,200.0 6.71 280.40 7,161.6 80.3 -600.1 -600.0 0.00 7,257.8 6.71 280.40 7,219.0 81.5 -606.7 -606.6 0.00	0.00 0.00 0.00 0.00
7,257.8 6.71 280.40 7,219.0 81.5 -606.7 -606.6 0.00  Z (L5.1: FBSG)	0.00
•	0.00
7,289.9 6.71 280.40 7,250.9 82.2 -610.4 -610.3 0.00	0.00 0.00
Start Drop -1.50         7,300.0         6.56         280.40         7,260.9         82.4         -611.5         -611.4         1.50	-1.50 0.00
7,300.0 6.56 280.40 7,260.9 62.4 -611.5 -611.4 1.50 7,400.0 5.06 280.40 7,360.4 84.2 -621.5 -621.4 1.50	-1.50 0.00 -1.50 0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	i Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500 7,592	2.18	280.40 280.40	7,460.1 7,552.0	85.6 86.4	-628.9 -633.4	-628.8 -633.3	1.50 1.50	-1.50 -1.50	0.00 0.00
Z (L4.3: \$	SBSC)								
7,600 7,700 7,737	0.0 0.56	280.40 280.40 0.00	7,560.0 7,659.9 7,697.0	86.5 86.9 86.9	-633.7 -635.9 -636.1	-633.6 -635.8 -636.0	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 214.68
	ild 10.00 - KOP - Sim								
7,800 7,900		97.40 97.40	7,759.8 7,857.7	86.5 83.9	-632.7 -613.3	-632.6 -613.2	10.00 10.00	10.00 10.00	154.79 0.00
7,979	.6 24.25	97.40	7,932.3	80.4	-586.0	-585.9	10.00	10.00	0.00
	non Camamile 0206			70.0		F 6	40.00	40.00	2.22
8,000 8,045		97.40 97.40	7,950.8 7,991.0	79.3 76.4	-577.3 -555.6	-577.2 -555.5	10.00 10.00	10.00 10.00	0.00 0.00
Z (L4.1: \$		J1.40	7,001.0	70.7	000.0	500.0	10.00	10.00	0.00
8,100	.0 36.29	97.40	8,036.1	72.6	-525.9	-525.8	10.00	10.00	0.00
8,200 8,300	0.0 56.29	97.40 97.40	8,111.2 8,173.6	64.1 54.1	-460.5 -383.2	-460.5 -383.2	10.00 10.00	10.00 10.00	0.00 0.00
8,400		97.40	8,221.6	42.8	-296.4	-296.3	10.00	10.00	0.00
8,500 8,600		97.40 97.40	8,253.6 8,268.8	30.6 17.9	-202.6 -104.7	-202.5 -104.6	10.00 10.00	10.00 10.00	0.00 0.00
8,637		97.40	8,270.0	13.1	-67.9	-67.9	10.00	10.00	0.00
Start DL	S 2.00 TFO -90.00								
8,700	0.0 90.00	96.14	8,270.0	5.7	-5.4	-5.4	2.00	0.00	-2.00
8,800		94.14	8,270.0	-3.3	94.1	94.1	2.00	0.00	-2.00
8,900 9,000		92.14 90.14	8,270.0 8,270.0	-8.8 -10.7	194.0 294.0	194.0 294.0	2.00 2.00	0.00 0.00	-2.00 -2.00
9,010		89.93	8,270.0	-10.7	304.5	304.5	2.00	0.00	-2.00
Start Dro			·						
9,100	0.0 88.21	89.93	8,271.4	-10.6	394.0	393.9	2.00	-2.00	0.00
9,200	.0 86.21	89.93	8,276.2	-10.5	493.8	493.8	2.00	-2.00	0.00
9,300		89.93	8,284.6	-10.4	593.5	593.5	2.00	-2.00	0.00
9,400 9,452		89.93 89.93	8,296.4 8,304.0	-10.3 -10.2	692.8 744.9	692.8 744.9	2.00 2.00	-2.00 -2.00	0.00 0.00
Start Bui		33.00	3,551.0				2.00	2.00	3.00
9,500	.0 82.11	89.93	8,310.9	-10.2	791.7	791.7	2.00	2.00	0.00
9,600		89.93	8,322.9	-10.0	891.0	891.0	2.00	2.00	0.00
9,700		89.93	8,331.4	-9.9	990.6	990.6	2.00	2.00	0.00
9,800 9,894		89.93 89.93	8,336.5 8,338.0	-9.8 -9.7	1,090.5 1,185.2	1,090.5 1,185.2	2.00 2.00	2.00 2.00	0.00 0.00
Start Bui		05.53	0,000.0	-5.1	1,103.2	1,100.2	2.00	2.00	0.00
9,900		89.93	8,338.0	-9.7	1,190.5	1,190.4	2.00	2.00	0.00
10,000		89.93	8,336.1	-9.7 -9.6	1,190.5	1,190.4	2.00	2.00	0.00
10,100		89.93	8,330.7	-9.4	1,390.3	1,390.3	2.00	2.00	0.00
10,200		89.93	8,321.8	-9.3	1,489.9	1,489.9	2.00	2.00	0.00
10,300		89.93	8,309.4	-9.2	1,589.1	1,589.1	2.00	2.00	0.00
10,336		89.93	8,304.0	-9.1	1,625.5	1,625.5	2.00	2.00	0.00
Start Dro 10,400	•	90.03	8,295.0	0.4	1 600 4	1,688.0	2.00	2.00	0.00
10,400		89.93 89.93	8,295.0 8,283.5	-9.1 -8.9	1,688.1 1,787.4	1,688.0	2.00 2.00	-2.00 -2.00	0.00 0.00
10,600		89.93	8,275.5	-8.8	1,887.1	1,887.1	2.00	-2.00	0.00
10,700		89.93	8,271.0	-8.7	1,987.0	1,987.0	2.00	-2.00	0.00
10,778	90.00	89.93	8,270.0	-8.6	2,065.9	2,065.8	2.00	-2.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid

Minimum Curvature

esign:	BLM Plan #1								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 1009	96.0 hold at 10778.	9 MD							
10,800.0		89.93	8,270.0	-8.6	2,087.0	2,086.9	0.00	0.00	0.00
10,900.0		89.93	8,270.0	-8.5	2,187.0	2,186.9	0.00	0.00	0.00
11,000.0		89.93	8,270.0		,	2,186.9	0.00	0.00	0.00
,			,	-8.3	2,287.0				
11,100.0	0 90.00	89.93	8,270.0	-8.2	2,387.0	2,386.9	0.00	0.00	0.00
11,200.0	0 90.00	89.93	8,270.0	-8.1	2,487.0	2,486.9	0.00	0.00	0.00
11,300.0		89.93	8,270.0	-8.0	2,587.0	2,586.9	0.00	0.00	0.00
11,400.0		89.93	8,270.0	-7.8	2,687.0	2,686.9	0.00	0.00	0.00
11,500.0		89.93	8,270.0	-7.7	2,787.0	2,786.9	0.00	0.00	0.00
11,600.0		89.93	8,270.0	-7.6	2,887.0	2,886.9	0.00	0.00	0.00
11,700.0		89.93	8,270.0	-7.5	2,987.0	2,986.9	0.00	0.00	0.00
11,800.0		89.93	8,270.0	-7.4	3,087.0	3,086.9	0.00	0.00	0.00
11,900.0		89.93	8,270.0	-7.2	3,187.0	3,186.9	0.00	0.00	0.00
12,000.0		89.93	8,270.0	-7.1	3,287.0	3,286.9	0.00	0.00	0.00
12,100.0	0 90.00	89.93	8,270.0	-7.0	3,387.0	3,386.9	0.00	0.00	0.00
12,200.0	0 90.00	89.93	8,270.0	-6.9	3,487.0	3,486.9	0.00	0.00	0.00
12,300.0		89.93	8,270.0	-6.7	3,587.0	3,586.9	0.00	0.00	0.00
12,400.0		89.93	8,270.0	-6.6	3,687.0	3,686.9	0.00	0.00	0.00
12,500.0		89.93	8,270.0	-6.5	3,787.0	3,786.9	0.00	0.00	0.00
12,600.0		89.93	8,270.0	-6.4	3,887.0	3,886.9	0.00	0.00	0.00
12,700.0		89.93	8,270.0	-6.3	3,987.0	3,986.9	0.00	0.00	0.00
12,800.0		89.93	8,270.0	-6.1	4,087.0	4,086.9	0.00	0.00	0.00
12,900.0		89.93	8,270.0	-6.0	4,187.0	4,186.9	0.00	0.00	0.00
13,000.0		89.93	8,270.0	-5.9	4,287.0	4,286.9	0.00	0.00	0.00
13,100.0	0 90.00	89.93	8,270.0	-5.8	4,387.0	4,386.9	0.00	0.00	0.00
13,200.0	0 90.00	89.93	8,270.0	-5.6	4,487.0	4,486.9	0.00	0.00	0.00
13,300.0		89.93	8,270.0	-5.5	4,587.0	4,586.9	0.00	0.00	0.00
13,318.0		89.93	8,270.0	-5.5	4,605.0	4,605.0	0.00	0.00	0.00
	mon Camamile 020				1,00010	1,000			
13,400.0		89.93	8,270.0	-5.4	4,687.0	4,686.9	0.00	0.00	0.00
13,500.0		89.93	8,270.0	-5.3	4,787.0	4,786.9	0.00	0.00	0.00
						,			
13,600.0		89.93	8,270.0	-5.2	4,887.0	4,886.9	0.00	0.00	0.00
13,700.0		89.93	8,270.0	-5.0	4,987.0	4,986.9	0.00	0.00	0.00
13,800.0		89.93	8,270.0	-4.9	5,087.0	5,086.9	0.00	0.00	0.00
13,900.0		89.93	8,270.0	-4.8	5,187.0	5,186.9	0.00	0.00	0.00
14,000.0	0 90.00	89.93	8,270.0	-4.7	5,287.0	5,286.9	0.00	0.00	0.00
14,100.0	0 90.00	89.93	8,270.0	-4.5	5,387.0	5,386.9	0.00	0.00	0.00
14,200.0		89.93	8,270.0	-4.4	5,487.0	5,486.9	0.00	0.00	0.00
14,300.0		89.93	8,270.0	-4.3	5,587.0	5,586.9	0.00	0.00	0.00
14,400.0		89.93	8,270.0	-4.2	5,687.0	5,686.9	0.00	0.00	0.00
14,500.0		89.93	8,270.0	-4.1	5,787.0	5,786.9	0.00	0.00	0.00
14,600.0		89.93	8,270.0	-3.9	5,887.0	5,886.9	0.00	0.00	0.00
14,700.0		89.93	8,270.0	-3.8	5,987.0	5,986.9	0.00	0.00	0.00
14,800.0		89.93	8,270.0	-3.7	6,087.0	6,086.9	0.00	0.00	0.00
14,900.0		89.93	8,270.0	-3.6	6,187.0	6,186.9	0.00	0.00	0.00
15,000.0	0 90.00	89.93	8,270.0	-3.4	6,287.0	6,286.9	0.00	0.00	0.00
15,100.0	0 90.00	89.93	8,270.0	-3.3	6,387.0	6,386.9	0.00	0.00	0.00
15,200.0		89.93	8,270.0	-3.2	6,487.0	6,486.9	0.00	0.00	0.00
15,300.0		89.93	8,270.0	-3.1	6,587.0	6,586.9	0.00	0.00	0.00
15,400.0		89.93	8,270.0	-3.0	6,687.0	6,686.9	0.00	0.00	0.00
15,500.0		89.93	8,270.0	-2.8	6,787.0	6,786.9	0.00	0.00	0.00
15,600.0		89.93	8,270.0	-2.7	6,887.0	6,886.9	0.00	0.00	0.00
15,700.0		89.93	8,270.0	-2.6	6,987.0	6,986.9	0.00	0.00	0.00
15,800.0	0 90.00	89.93	8,270.0	<b>-</b> 2.5	7,087.0	7,086.9	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid Minimum Curvature

esign:	BLM Plan #1								
lanned 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)
15,900.		89.93	8,270.0	-2.3	7,187.0	7,186.9	0.00	0.00	0.00
15,989.		89.93	8,270.0	-2.2	7,276.0	7,276.0	0.00	0.00	0.00
BPP2 - Si	mon Camamile 020	16 Fed Com #12	22H						
16,000.		89.93	8,270.0	-2.2	7,287.0	7,286.9	0.00	0.00	0.00
16,100.		89.93	8,270.0	-2.1	7,387.0	7,386.9	0.00	0.00	0.00
16,200.		89.93	8,270.0	-2.0	7,487.0	7,486.9	0.00	0.00	0.00
16,300.		89.93	8,270.0	-1.9	7,587.0	7,586.9	0.00	0.00	0.00
16,400.	0 90.00	89.93	8,270.0	-1.7	7,687.0	7,686.9	0.00	0.00	0.00
16,500.		89.93	8,270.0	-1.6	7,787.0	7,786.9	0.00	0.00	0.00
16,600.		89.93	8,270.0	-1.5	7,887.0	7,886.9	0.00	0.00	0.00
16,700.		89.93	8,270.0	-1.4	7,987.0	7,986.9	0.00	0.00	0.00
16,800.		89.93	8,270.0	-1.2 1.1	8,087.0	8,086.9	0.00	0.00	0.00
16,900.		89.93	8,270.0	-1.1	8,187.0	8,186.9	0.00	0.00	0.00
17,000.		89.93	8,270.0	-1.0	8,287.0	8,286.9	0.00	0.00	0.00
17,100.		89.93	8,270.0	-0.9	8,387.0	8,386.9	0.00	0.00	0.00
17,200.		89.93	8,270.0	-0.8	8,486.9	8,486.9	0.00	0.00	0.00
17,300.		89.93 89.93	8,270.0 8,270.0	-0.6	8,586.9 8,686.0	8,586.9 8,686.0	0.00	0.00	0.00
17,400.			8,270.0	-0.5	8,686.9	8,686.9	0.00	0.00	0.00
17,500.		89.93	8,270.0	-0.4	8,786.9	8,786.9	0.00	0.00	0.00
17,600.		89.93	8,270.0	-0.3	8,886.9	8,886.9	0.00	0.00	0.00
17,700.		89.93	8,270.0	-0.1	8,986.9	8,986.9	0.00	0.00	0.00
17,800.		89.93 89.93	8,270.0	0.0	9,086.9	9,086.9	0.00	0.00	0.00
17,900.			8,270.0	0.1	9,186.9	9,186.9	0.00	0.00	0.00
18,000.		89.93	8,270.0	0.2	9,286.9	9,286.9	0.00	0.00	0.00
18,100.		89.93	8,270.0	0.3	9,386.9	9,386.9	0.00	0.00	0.00
18,200.		89.93	8,270.0	0.5	9,486.9	9,486.9	0.00	0.00	0.00
18,300. 18,400.		89.93 89.93	8,270.0 8,270.0	0.6 0.7	9,586.9 9,686.9	9,586.9 9,686.9	0.00 0.00	0.00 0.00	0.00 0.00
18,500.		89.93	8,270.0	0.8	9,786.9	9,786.9	0.00	0.00	0.00
18,600.		89.93	8,270.0	1.0	9,886.9	9,886.9	0.00	0.00	0.00
18,656.		89.93	8,270.0	1.0	9,943.0	9,943.0	0.00	0.00	0.00
18,700.	mon Camamile 020 0 90.00	89.93		1.1	9,986.9	9.986.9	0.00	0.00	0.00
18,700. 18,800.		89.93 89.93	8,270.0 8,270.0	1.1 1.2	9,986.9	9,986.9	0.00	0.00	0.00
18,900.		89.93	8,270.0	1.3	10,186.9	10,186.9	0.00	0.00	0.00
19,000. 19,100.		89.93 89.93	8,270.0 8,270.0	1.4 1.6	10,286.9 10,386.9	10,286.9 10,386.9	0.00 0.00	0.00 0.00	0.00 0.00
19,100. 19,200.		89.93	8,270.0	1.0	10,386.9	10,366.9	0.00	0.00	0.00
19,300.		89.93	8,270.0	1.8	10,486.9	10,586.9	0.00	0.00	0.00
19,400.		89.93	8,270.0	1.9	10,686.9	10,686.9	0.00	0.00	0.00
19,500. 19,600.		89.93 89.93	8,270.0 8,270.0	2.1 2.2	10,786.9 10,886.9	10,786.9 10,886.9	0.00 0.00	0.00 0.00	0.00 0.00
19,700.		89.93	8,270.0	2.2	10,886.9	10,886.9	0.00	0.00	0.00
19,800.		89.93	8,270.0	2.4	11,086.9	11,086.9	0.00	0.00	0.00
19,900. 20,000.		89.93 89.93	8,270.0 8,270.0	2.5 2.7	11,186.9 11,286.9	11,186.9 11,286.9	0.00	0.00	0.00 0.00
20,000. 20,100.		89.93 89.93	8,270.0 8,270.0	2.7	11,286.9 11,386.9	11,286.9	0.00 0.00	0.00 0.00	0.00
20,100.		89.93	8,270.0	2.9	11,486.9	11,486.9	0.00	0.00	0.00
20,300.		89.93	8,270.0	3.0	11,586.9	11,586.9	0.00	0.00	0.00
20,400. 20,500.		89.93 89.93	8,270.0 8,270.0	3.2 3.3	11,686.9 11,786.9	11,686.9 11,786.9	0.00 0.00	0.00 0.00	0.00 0.00
20,500. 20,600.		89.93 89.93	8,270.0 8,270.0	3.3 3.4	11,786.9	11,786.9	0.00	0.00	0.00
20,700.		89.93	8,270.0	3.4	11,986.9	11,986.9	0.00	0.00	0.00
20,800.		89.93	8,270.0	3.6	12,086.9	12,086.9	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid Minimum Curvature

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)
	20,874.9	90.00	89.93	8,270.0	3.7	12,161.9	12,161.9	0.00	0.00	0.00
	TD at 20874.9	9 - BHL - Simon	Camamile 0206	Fed Com #122	Н					

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Simon Camamile - plan hits target cent - Point	0.00 er	0.00	7,697.0	86.9	-636.1	552,243.00	582,635.00	32° 31' 4.584 N	104° 3' 54.888 W
FPP - Simon Camamile - plan hits target cent - Point	0.00 er	0.00	7,932.3	80.4	-586.0	552,236.49	582,685.12	32° 31' 4.518 N	104° 3' 54.303 W
BPP2 - Simon Camamile - plan hits target cent - Point	0.00 er	0.00	8,270.0	-2.2	7,276.0	552,153.87	590,547.12	32° 31′ 3.496 N	104° 2' 22.485 W
BPP3 - Simon Camamile - plan hits target cent - Point	0.00 er	0.00	8,270.0	1.0	9,943.0	552,157.13	593,214.12	32° 31′ 3.454 N	104° 1' 51.337 W
BPP1 - Simon Camamile - plan hits target cent - Point	0.00 er	0.00	8,270.0	-5.5	4,605.0	552,150.60	587,876.12	32° 31′ 3.535 N	104° 2' 53.680 W
BHL - Simon Camamile - plan misses target o - Point	0.00 center by 0.2u	0.00 usft at 20874.	8,270.0 .9usft MD (8	3.9 270.0 TVD, 3.	12,161.9 7 N, 12161.9 I	552,160.00 E)	595,433.00	32° 31′ 3.419 N	104° 1' 25.422 W

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	536.0	536.0	Z (Rustler)			
	1,051.8	1,051.0	Z (G30:CS14-CSB): Base Salt			
	1,584.6	1,583.0	Z (Capitan (T))			
	3,782.0	3,767.0	Z (G13: Cherry Cyn.)			
	4,799.0	4,777.0	Z (G7: Brushy Cyn.)			
	5,968.0	5,938.0	Z (G5: L. Brushy Cyn.)			
	6,254.0	6,222.0	Z (G4: BSGL (CS9))			
	6,603.4	6,569.0	Z (L8.2: U. Avalon Shale)			
	6,680.9	6,646.0	Z (L6.3: Avalon Carb)			
	6,900.4	6,864.0	Z (L6.2: L. Avalon Shale)			
	7,257.8	7,219.0	Z (L5.1: FBSG)			
	7,592.0	7,552.0	Z (L4.3: SBSC)			
	8,045.8	7,991.0	Z (L4.1: SBSG)			

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com

Well: Simon Camamile 0206 Fed Com #122H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

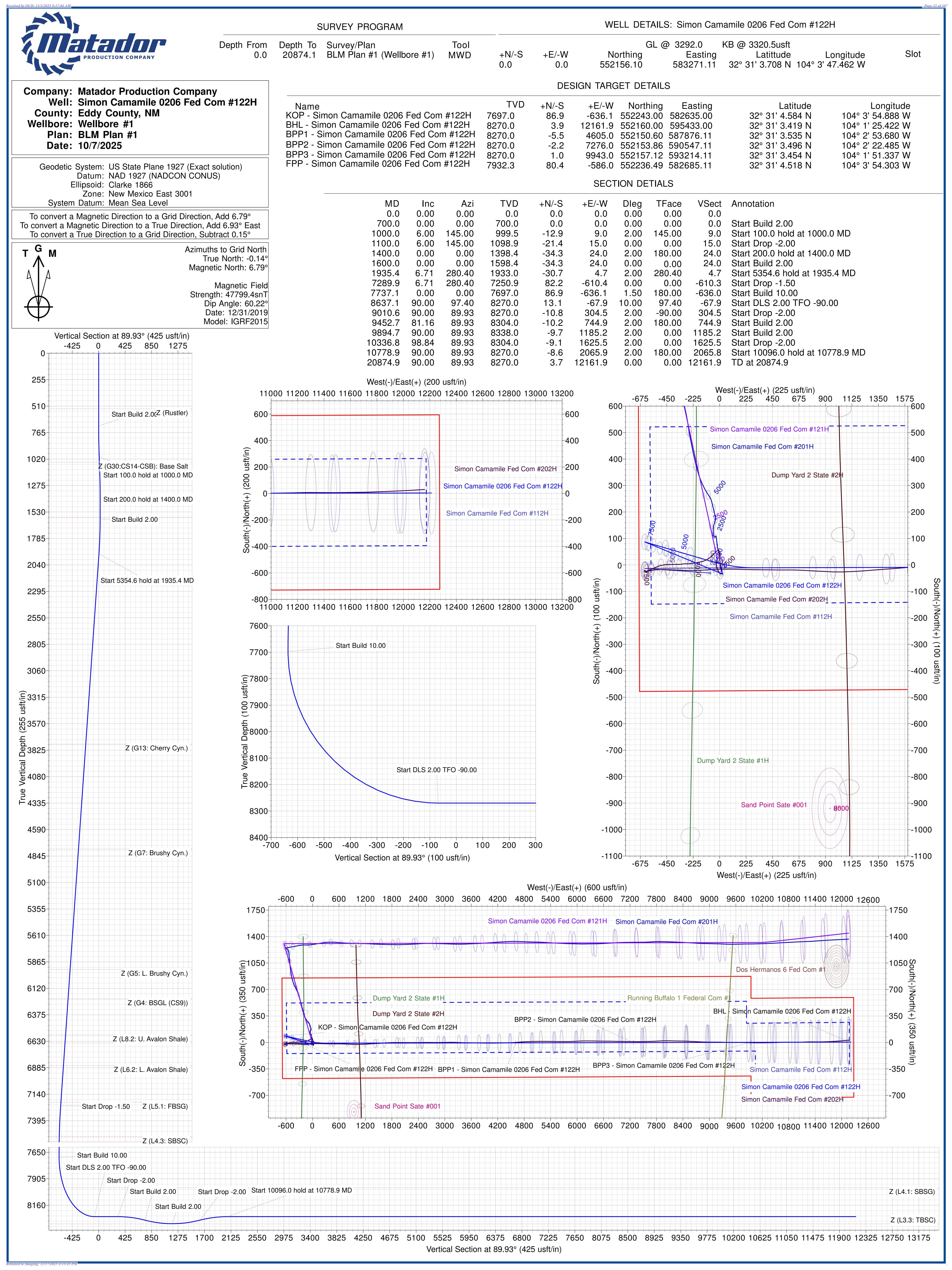
Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft KB @ 3320.5usft

Grid

Minimum Curvature

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
700.0	700.0	0.0	0.0	Start Build 2.00	
1,000.0	999.5	-12.9	9.0	Start 100.0 hold at 1000.0 MD	
1,100.0	1,098.9	-12.9	15.0		
	,		24.0	Start Drop -2.00 Start 200.0 hold at 1400.0 MD	
1,400.0	1,398.4	-34.3			
1,600.0	1,598.4	-34.3	24.0	Start Build 2.00	
1,935.4	1,933.0	-30.7	4.7	Start 5354.6 hold at 1935.4 MD	
7,289.9	7,250.9	82.2	-610.4	Start Drop -1.50	
7,737.1	7,697.0	86.9	-636.1	Start Build 10.00	
8,637.1	8,270.0	13.1	-67.9	Start DLS 2.00 TFO -90.00	
9,010.6	8,270.0	-10.8	304.5	Start Drop -2.00	
9,452.7	8,304.0	-10.2	744.9	Start Build 2.00	
9,894.7	8,338.0	-9.7	1,185.2	Start Build 2.00	
10,336.8	8,304.0	-9.1	1,625.5	Start Drop -2.00	
10,778.9	8,270.0	-8.6	2,065.9	Start 10096.0 hold at 10778.9 MD	
20,874.9	8,270.0	3.7	12,161.9	TD at 20874.9	



## **Matador Production Company**

Ranger/Arrowhead Simon Camamile Fed Com Simon Camamile 0206 Fed Com #122H

Wellbore #1 BLM Plan #1

## **Anticollision Summary Report**

08 October, 2025

#### **Anticollision Summary Report**

**TVD Reference:** 

MD Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

0.0 usft Site Error:

Reference Well: Simon Camamile 0206 Fed Com #122H

Well Error: 0.0 usft

Reference Wellbore Wellbore #1

Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile 0206 Fed Com #122H

KB @ 3320.5usft

KB @ 3320.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset TVD Reference: Offset Datum

Reference BLM Plan #1

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: **ISCWSA** 

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum center-center distance of 10,000.0 usft Results Limited by: Error Surface: Pedal Curve

Warning Levels Evaluated at: 2.00 Sigma **Casing Method:** Not applied

Date 10/8/2025 **Survey Tool Program** 

> From То

(usft) (usft) Survey (Wellbore) **Tool Name** Description

0.0 20,874.1 BLM Plan #1 (Wellbore #1) MWD OWSG MWD - Standard

Summary					
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Warning Factor
Medford 3334 Fed Com					
Medford 3334 Fed Com #124H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #124H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #124H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #138H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #138H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #138H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #138H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #228H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #228H - Wellbore #1 - BLM Plan Medford 3334 Fed Com #228H - Wellbore #1 - BLM Plan	8,111.1 11,600.0 11,800.0 8,511.7 11,600.0 11,700.0 9,857.6 11,600.0 11,700.0	15,032.1 18,382.5 18,382.5 16,672.1 19,702.6 19,702.6 18,360.7 20,057.0 20,057.0	2,684.1 2,759.4 2,771.3 2,415.2 2,462.3 2,466.9 2,619.4 2,674.9 2,679.1	2,481.7 2,419.3 2,428.2 2,229.6 2,165.6 2,169.3 2,401.8 2,398.2 2,401.3	13.259 CC 8.113 ES 8.078 SF 13.015 CC 8.299 ES 8.288 SF 12.036 CC 9.667 ES 9.645 SF
Offset Arrowhead Wells					
Dos Hermanos 6 Fed Com #1 - Wellbore #1 - Actual Dos Hermanos 6 Fed Com #1 - Wellbore #1 - Actual Dump Yard 2 State #1H - Wellbore #1 - Wellbore #1 Dump Yard 2 State #1H - Wellbore #1 - Wellbore #1 Dump Yard 2 State #1H - Wellbore #1 - Wellbore #1 Dump Yard 2 State #2H - Wellbore #1 - Wellbore #1 Dump Yard 2 State #2H - Wellbore #1 - Wellbore #1 Running Buffalo 1 Federal Com #1 - Wellbore #1 - Wellb Sand Point Sate #001 - Wellbore #1 - Actual Sand Point Sate #001 - Wellbore #1 - Actual Sand Point Sate #001 - Wellbore #1 - Actual	20,596.2 20,600.0 8,514.9 8,550.0 8,600.0 9,700.0 9,763.7 18,102.9 1,495.7 1,700.0 6,300.0	8,370.9 8,370.9 13,804.8 13,801.3 13,796.2 13,569.1 13,564.1 12,200.9 1,497.9 1,697.5 6,273.3	1,001.6 1,001.6 99.9 106.9 135.7 116.5 98.4 219.0 1,271.8 1,273.6 1,737.8	500.9 500.9 43.0 29.0 34.2 31.3 39.8 109.8 1,232.8 1,229.0 1,562.7	2.001 CC 2.000 ES, SF 1.757 CC 1.373 Level 3, ES 1.337 Level 3, SF 1.367 Level 3, ES, SF 1.680 CC 2.006 CC, ES, SF 32.565 CC 28.560 ES 9.923 SF

#### Anticollision Summary Report

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile 0206 Fed Com #122H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3320.5usft MD Reference: KB @ 3320.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile 0206 Fed Com #122H

Offset TVD Reference: Offset Datum

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance			
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Simon Camamile Fed Com						
Simon Camamile 0206 Fed Com #121H - Wellbore #1 - B Simon Camamile 0206 Fed Com #121H - Wellbore #1 - B Simon Camamile 0206 Fed Com #123H - Wellbore #1 - B Simon Camamile 0206 Fed Com #124H - Wellbore #1 - B Simon Camamile 0206 Fed Com #124H - Wellbore #1 - B Simon Camamile Fed Com #112H - Wellbore #1 - BLM P Simon Camamile Fed Com #112H - Wellbore #1 - BLM P Simon Camamile Fed Com #112H - Wellbore #1 - BLM P Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	700.0 20,874.9 20,874.9 2,288.6 20,874.9 2,637.1 2,700.0 7,015.1	700.0 20,925.2 20,893.7 2,304.8 20,820.2 2,624.1 2,686.5 7,021.2 6,745.6	30.0 1,438.9 1,318.7 2,331.7 2,638.2 40.4 40.7 89.4	25.5 824.9 699.2 2,315.8 2,019.1 22.4 22.3 37.0	2.344 2.129 147.201	CC, ES, SF CC ES, SF CC ES SF
Simon Camamile Fed Corn #113H - BLM Plan #1 - BLM Simon Camamile Fed Corn #113H - BLM Plan #1 - BLM Simon Camamile Fed Corn #125H - Wellbore #1 - Actua Simon Camamile Fed Corn #125H - Wellbore #1 - Actua Simon Camamile Fed Corn #126H - Wellbore #1 - Actua	6,662.7 20,874.9 17,010.4 20,874.9 0.0 1,145.4	20,001.2 17,208.7 21,080.0 53.9 869.5	1,404.8 1,458.2 3,923.6 3,950.5 4,487.7 4,491.2	1,355.1 891.4 3,495.2 3,335.0 4,484.7	2.573 9.159	ES, SF CC ES, SF
Simon Camamile Fed Corn #126H - Wellbore #1 - Actua Simon Camamile Fed Com #201H - Wellbore #1 - Actua Simon Camamile Fed Com #201H - Wellbore #1 - Actua Simon Camamile Fed Corn #202H - Wellbore #1 - Actua	20,874.9 735.3 20,874.9 949.2	21,045.0 729.8 22,229.7 943.7	5,260.9 37.1 2,117.6 15.3	4,484.7 4,646.2 32.6 1,698.2 9.2	8.559	SF CC, ES SF
Simon Camamile Fed Com #202H - Wellbore #1 - Actua Simon Camamile Fed Com #203H - Wellbore #1 - Actua Simon Camamile Fed Com #203H - Wellbore #1 - Actua Simon Camamile Fed Com #204H - Wellbore #1 - Actua Simon Camamile Fed Com #204H - Wellbore #1 - Actua	2,300.0 8,376.3 20,800.0 1,186.5 1,200.0	2,291.9 8,516.4 22,176.0 1,092.8 1,101.0	20.9 1,471.4 2,119.3 2,205.5 2.205.5	5.3 1,411.0 1,699.2 2,198.0 2,197.9		CC
Simon Camamile Fed Corn #204H - Wellbore #1 - Actua Simon Camamile Fed Com #205H - Wellbore #1 - Final Simon Camamile Fed Com #205H - Wellbore #1 - Final Simon Camamile Fed Com #205H - Wellbore #1 - Actua	20,874.9 8,648.7 20,874.9 1,210.7	22,261.0 8,391.0 22,390.0 1,024.0	2,203.5 3,103.9 4,052.1 4,232.0 4,474.2	2,197.9 2,568.3 3,989.2 3,658.2 4,466.8	5.795 64.405	SF CC ES, SF
Simon Camamile Fed Com #206H - Wellbore #1 - Actua Simon Camamile Fed Com #224H - Wellbore #1 - BLM P Simon Camamile Fed Com #224H - Wellbore #1 - BLM P Simon Camamile Fed Com #224H - Wellbore #1 - BLM P	20,874.9 4,089.5 8,350.0 20,874.9	22,405.0 4,111.4 8,238.6 22,423.5	5,488.3 2,040.3 2,058.5 2,672.6	4,900.3 2,010.8 1,998.9 2,192.4	9.335 69.103 34.550 5.565	CC ES

#### **Anticollision Summary Report**

MD Reference:

North Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Simon Camamile 0206 Fed Com #122H Reference Well:

Well Error: 0.0 usft Reference Wellbore Wellbore #1 Reference Design: BLM Plan #1

Output errors are at Database:

Local Co-ordinate Reference: Well Simon Camamile 0206 Fed Com #122H **TVD Reference:** 

KB @ 3320.5usft KB @ 3320.5usft

Grid

**Survey Calculation Method:** Minimum Curvature

2.00 sigma

EDM 5000.14 Single User Db

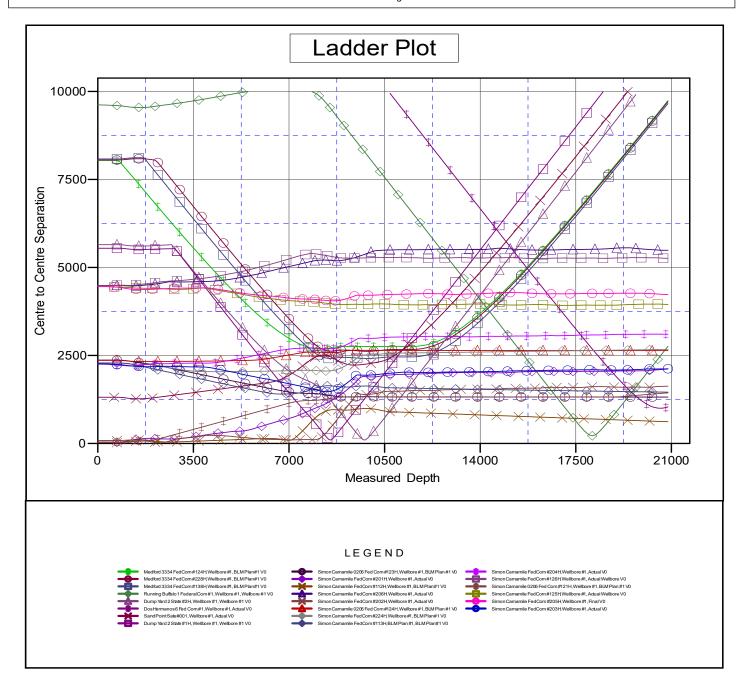
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3320.5usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile 0206 Fed Com #122H

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

Grid Convergence at Surface is: 0.15°



## **Anticollision Summary Report**

MD Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Simon Camamile 0206 Fed Com #122H Reference Well:

Well Error: 0.0 usft Reference Wellbore Wellbore #1 Reference Design: BLM Plan #1

Local Co-ordinate Reference:

Well Simon Camamile 0206 Fed Com #122H **TVD Reference:** KB @ 3320.5usft

KB @ 3320.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

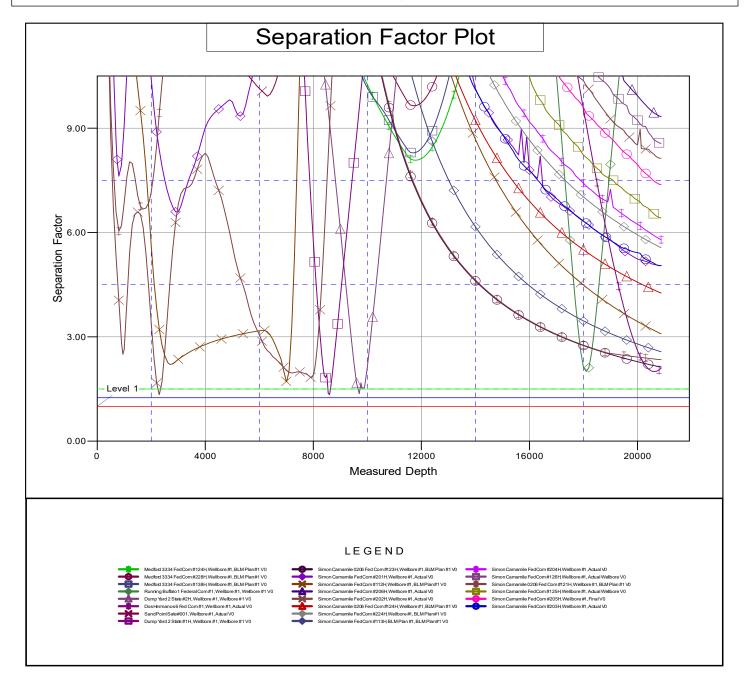
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3320.5usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile 0206 Fed Com #122H

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

Grid Convergence at Surface is: 0.15°



## Casing Specs - 8.625" 32lb Hunting TLW

Simon Camamile 0206 Fed Com 122H Township/Range: 21S 28E SHL: 1754' FNL & 686' FWL Section 2 Elevation Above Sea Level: 3292'



# TEC-LOCK WEDGE 8.625" 32.00 LB/FT (.352"Wall)

AXIS P110 HC

## **Pipe Body Data**

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

#### **Connection Data**

Standard OD:	9.000	in	
	9.000		
Pin Bored ID:	7.921	in	
Critical Section Area:	8.614	in²	
Tensile Efficiency:	94.2 %		
Compressive Efficiency:	98.5 %		
Longitudinal Yield Strength:	948,000	lbf	
Compressive Limit:	991,000	lbf	
Internal Pressure Rating:	7,860	psi	
External Pressure Rating:	4,170	psi	
Maximum Bend:	55.1	°/100ft	

## **Operational Data**

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

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

Generated on 7/26/2022

## Casing Specs - 8.625" 32lb Hunting TLW

Released to Imaging: 11/17/2025 4:13:45 PM

## Casing Specs - 5.5" 20lb Hunting TLW-SC

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'



# 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 <sup>2</sup>
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

## Casing Specs - 5.5" 20lb Hunting TLW-SC

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'

## POWERITACK

## CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: 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 <sup>rd</sup> edition					
Inspection Department	Q.C. Department	Inspection date	2024.02.20					

	Inspecti	on Items			Inspection results			
	Appearance Checking				In accordance with API Spec 16C 3 <sup>rd</sup> edition			
	Size and Lengths				In accordar	nce with API Spec	16C 3 <sup>rd</sup> edition	
Dimensions and Tolerances				In accordar	nce with API Spec	16C 3 <sup>rd</sup> edition		
End Connections: 4-1/16"×10000psi Integral flange for sour gas service				In accordar	nce with API Spec	6A 21st edition		
End Connections: 4	-1/16″×10000psi I	integral fla	nge for sour gas ser	vice	In accordance with API Spec 17D 3 <sup>rd</sup> edition			
	Hydrostatic	Testing			In accordance with API Spec 16C 3 <sup>rd</sup> edition			
	product M	larking			In accordance with API Spec 16C 3 <sup>rd</sup> edition			
Inspection co	Inspection conclusion The inspected items meet standard requirements of API Spec 16C 3 <sup>rd</sup> edition						16C 3 <sup>rd</sup> edition	
Remarks								
Approver	Jane C		Auditor		Alice D	Inspector	Leo W	

## LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



## POWERITACK HYDROSTATIC TESTING REPORT LTYY/QR-5.7.1-28 №: 240220001 API Spec 16C 3rd edition **Product Name** Choke And Kill Hose Standard **Product Specification** 3"×10000psi×11.08ft (3.38m) Serial Number 7660215 Inspection Equipment MTU-BS-1600-3200-E Test medium Water **Inspection Department** Q.C. Department Inspection Date 2024.02.20 Rate of length change Standard requirements At working pressure, the rate of length change should not more than 65 mm (2½ in..)+ 0.01 L Testing result 10000psi (69.0MPa) ,length change 7mm Hydrostatic testing At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, Standard requirements 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: 40-10/23/17 10/24/07 10/24/57 10/25/47 10/26/37 10/27/27 10/28/17 10/29/07 10/29/57 10/30/47 10/31/37 10/32/27 10/33/17 10/34/07 10/34/ 123215 123715 124215 124715 125215 125715 130215 130715 131215 131715 132215 132715 133215 The inspected items meet standard requirements of API Spec 16C 3rd edition Conclusion

Alice D

Approver

Jane C

Auditor

Leo W

Inspector

## LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



## POWER TRACK

	HYDROSTATIC T	ΓESTIN	NG REPORT			
LTYY/QR-5.7.1-28	8			№: <u>240220002</u>		
Product Name	Choke And Kill Hose		Standard	API Spec 16C 3 <sup>rd</sup> 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 lengt	th chang	ge			
Standard requirements	At working pressure ,the rate of len	ngth cha	nge should not more th	an65 mm (2½ in)+ 0.01 L		
Testing result	10000psi (69.0MPa) ,length change 8	8mm				
	Hydrostatic	etesting				
Standard requirements	At 1.5 times working pressure, the in the second pressure-holding period of					
Testing result	15000psi (103.5MPa), 3 min for the f	first tim	e, 60 min for the secon	d time, no leakage		
Graph of pressure testing:						
110 - 100 -	110 160 160 170 160 160 170 160 160 170 160 160 160 160 160 160 160 160 160 16	3/6 14/4/4 [1	14546 145446 145946 150446 150946 15	446 1519:46 1524:46 1529:46 1534:46 1539:46 1544:		

The inspected items meet standard requirements of API Spec 16C 3<sup>rd</sup> edition

Conclusion

	Approver	Jane C	Auditor	Alice D	Insp	ector	leo w
ic.	LUOHE L	(	<b>5</b> ° LETONE				

## POWERITACK

## 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 3<sup>rd</sup> 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 3<sup>rd</sup> edition.

QC Manager:

Date:Feb 20, 2024

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

## **Closed-Loop System**

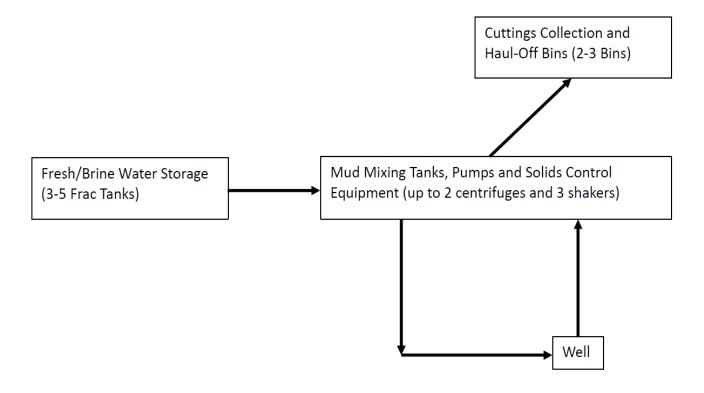
Simon Camamile 0206 Fed Com 122H

SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E

Elevation Above Sea Level: 3292'

## 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 Table Specification Sheet**

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2 BHL: 1771' FNL & 2220' FWL Section 6

Township/Range: 21S 28E

**Elevation Above Sea Level: 3292** 

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)		Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 606	0 - 606	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 1152	0 - 1151	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 3832	0 - 3817	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production Top	7.875	0 - 7637	0 - 7597	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production Bottom	6.75	7637 - 20875	7597 - 8270	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

## **Casing Design Criteria and Load Case Assumptions**

Simon Camamile 0206 Fed Com 122H

SHL: 1754' FNL & 686' FWL Section 2

Elevation Above Sea Level: 3292'

## **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).

Bust:  $DF_b = 1.125$ 

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:  $DF_f = 1.8$ 

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).

Bust:  $DF_b = 1.125$ 

- 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:  $DF_f = 1.8$ 

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**

## Bust: $DF_{h} = 1.125$

- 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<sub>f</sub> = 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).

Bust:  $DF_b = 1.125$ 

- 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:  $DF_f = 1.8$ 

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.

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'

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 4.9.2: POP winch eveter nicture with walking canabilities

rigures 1 & 2. DOF winch system picture with waiking 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.

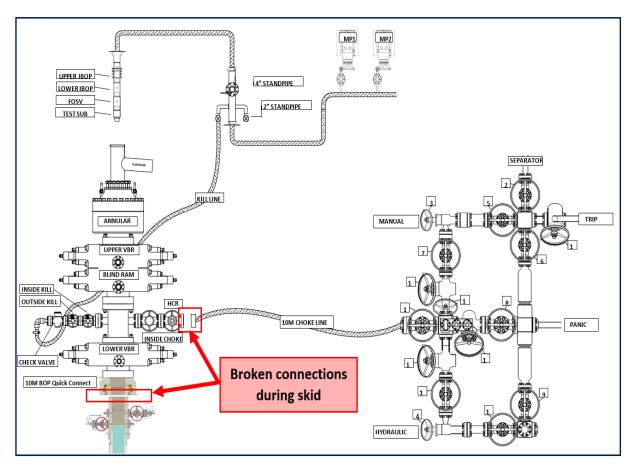


Figure 3: Shows which connections are broken during the skidding process

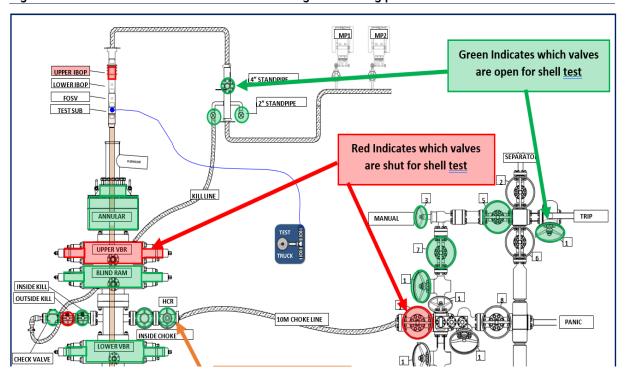


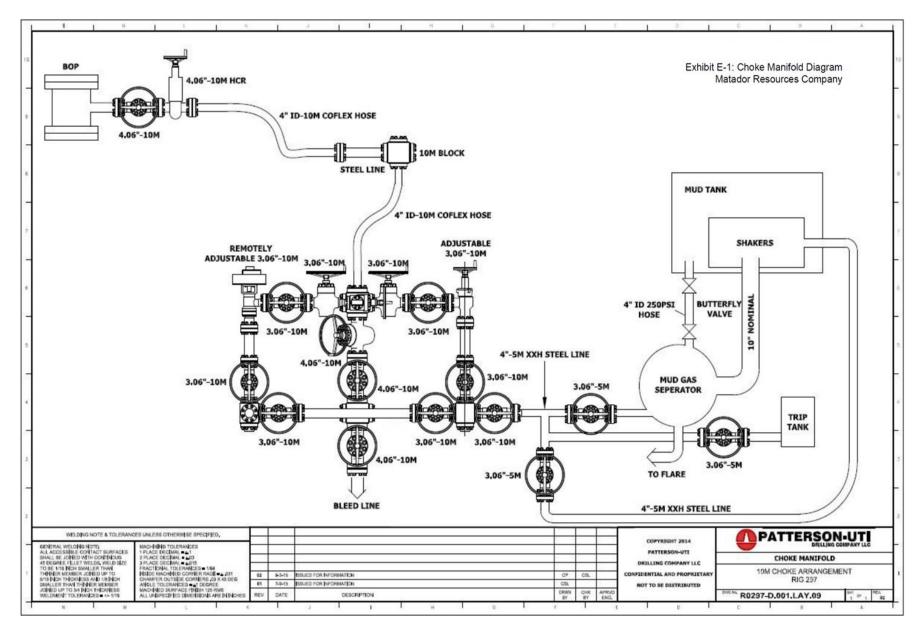


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

## **5M Choke Manifold Arrangement**

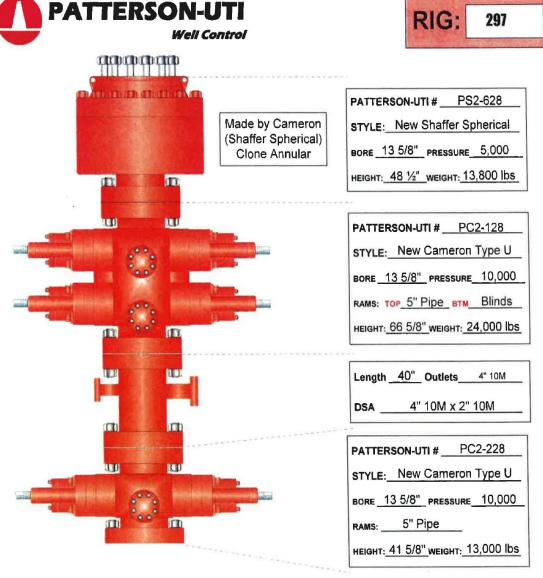
Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

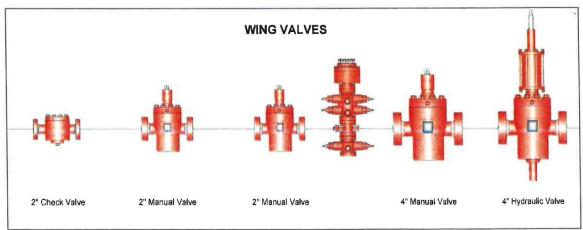
Township/Range: 21S 28E Elevation Above Sea Level: 3292'



Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'

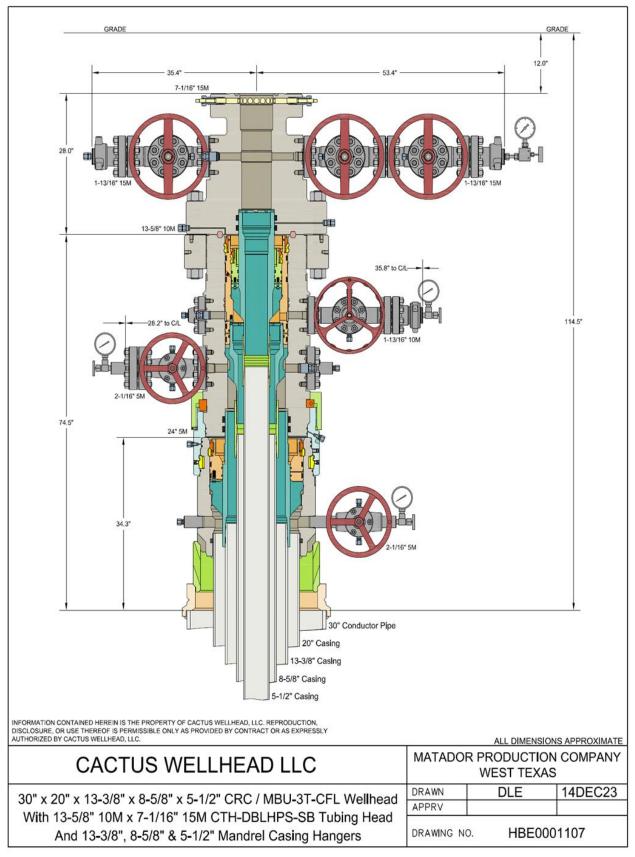




## 4-String Wellhead Diagram

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3292'



## 4-String Wellhead Diagram

Released to Imaging: 11/17/2025 4:13:45 PM

Simon Camamile 0206 Fed Com 122H SHL: 1754' FNL & 686' FWL Section 2

BHL: 1771' FNL & 2220' FWL Section 6

Township/Range: 21S 28E

**Elevation Above Sea Level: 3292** 

#### **Sundry Request**

Matador request the option to amend the well design of the Simon Camamile 0206 Fed Com 222H and make the following changes to the current APD:

- Change the well name from Simon Camamile 0206 Fed Com 222H to the Simon Camamile 0206 Fed Com 122H.
- Amend casing and cementing plan by changing surface section hole size to 17.5" and surface casing size to 13.375" as described below. Cement volumes will be adjusted accordingly.
- Amend casing and cementing plan by changing intermediate 1 hole size to 12.25" and intermediate 1 casing size to 10.75" as described below. Cement volumes will be adjusted accordingly.
- Amend casing and cementing plan by changing intermediate 2 hole size to 9.875" and intermediate 2 casing size to 8.625" as described below. Cement volumes will be adjusted accordingly
- Amend casing and cemeting plan by changing production hole size to 7.875" x 6.75" and production casing size to 5.5" as described below. Cement volumes will be adjusted accordingly
- Modify casing set depths as shown on the casing and cement table
- Change well target from 10,011' to 8,270' TVD

#### **Drilling Operation Plan**

Proposed Drilling Depth: 20875' MD / 8270' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.5177854 N / -104.0657484 W TD Lat/Long (NAD83): 32.5177356 N / -104.024228 W

## 1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	536	536	515	Anhydrite	Barren
Lamar (Base Salt)	1,052	1,051	532	Salt	Barren
Capitan	1,585	1,583	2,184	Salt	Barren
Cherry Canyon	3,782	3,767	1,010	Sandstone	Oil/Natural Gas
Brushy Canyon	4,799	4,777	1,445	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,254	6,222	997	Sandstone	Oil/Natural Gas
1st Bone Spring Sand	7,258	7,219	333	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,592	7,552	439	Carbonate	Oil/Natural Gas
KOP	7,737	7,697	•	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	8,046	7,991	349	Sandstone	Oil/Natural Gas
TD	20,875	8,270	-	Sandstone	Oil/Natural Gas
Third Bone Spring Carb	-	8,340	-	Carbonate	Oil/Natural Gas

## 2. Notable Zones

**Drill Plan** 

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 50'.

## 3. Pressure Control

#### Equipment

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

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

#### Testing Procedure

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

A third party company will test the BOPs.

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

#### Variance Request

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

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

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

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

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

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

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

## 4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 606	0 - 606	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 1152	0 - 1151	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 3832	0 - 3817	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production Top	7.875	0 - 7637	0 - 7597	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	7637 - 20875	7597 - 8270	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

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

## Variance Request

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

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

Primary Cement Design - DV/Packer 2-Stage Cement

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	210	1.47	315	12.8	50%	0	С	5% NaCl + LCM
Surface	Tail	260	1.33	347	14.8	50%	306	С	5% NaCl + LCM
Intermediate 1 w/ DV @ 656'	Stg 2 Tail	120	1.33	154	14.8	10%	0	С	5% NaCI + LCM
	Stg 1 Lead	180	1.45	262	13.2	50%	0	С	5% NaCI + LCM
	Stg 1 Tail	80	1.33	106	14.8	50%	852	С	5% NaCl + LCM
Intermediate 2 w/ DV @ 1202'	Stg 2 Tail	120	1.33	162	14.8	10%	0	С	5% NaCI + LCM
	Stg 1 Lead	250	1.42	351	12.8	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	100	1.33	131	14.8	35%	3066	A/C	5% NaCI + LCM
Production	Lead	620	2	1231	11.5	25%	1535	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1110	1.24	1382	13.2	25%	7637	A/C	Fluid Loss + Dispersant + Retarder

## 5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 606	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	606 - 1152	9.8 - 10.2	28-30	NC
Intermediate 2	9.875	Fresh Water	1152 - 3832	8.4 - 8.8	28-30	NC
Production	7.875 & 6.75	OBM/Cut Brine	3832 - 20875	8.6 - 9.4	50-65	<20

## 6. Cores, Test, & Logs

No core or drill stem test is planned.

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

## 7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 4042 psi. Maximum anticipated surface pressure is 2223 psi. Expected bottom hole temperature is 158 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.

## Hydrogen Sulfide Drilling Operations Plan Matador Resources

## 1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

## 2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

## 3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

## 4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
  - o Green Flag Normal Safe Operation Condition
  - Yellow Flag Potential Pressure and Danger
  - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

## 5 Well Control Equipment:

• See exhibit (Well Control Equipment)

#### 6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

## 7 Drilling Stem Testing:

• No DST cores are planned at this time

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- 8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary
- 10 H2S Contingency Plan:
  - See exhibit (Contingency Plan)
- 11 Emergency Contacts
  - See exhibit (Contingency Plan)

# HYDROGEN SULFIDE CONTINGENCY PLAN Drilling, Testing, & Completion

# MRC ENERGY CO.

Revie	ewers Operations Manager Operations Supt Staff RES	
	Field Supv.	
	Engineering	
	Latitude: N	
	Longitude: W	
	(Surface Location)	
	H2S Contingency Plan # 0165 Revision# 0	
	This H2S Contingency Plan is subject to updating	
	Effective date: July 8, 2015	
_	TABLE OF CONTENTS	_
I.	INTRODUCTION	3
II.	PURPOSE	4
	A. Operating Procedures	5
	B. Procedures to be Initiated Prior to reaching	6
	H2S Contingency Plan Compliance	

## MRC ENERGY CO.'S

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## **INTRODUCTION**

The H2S equipment will be rigged up 2 days prior to reaching a potential H2S containing zone. Drilling into any potential H2S zone shall not commence until the on-site MRC Drilling Supervisor has confirmed this plan in place.

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The onsite Drilling Foreman will give Total Safety one week (7 days) notice to prepare for rig up of H2S equipment)

To be effective, the plan requires the cooperation and effort of each person participating in the drilling of an H<sub>2</sub>S well. Each person must know his/her responsibilities and all emergency and safety procedures. He/she should thoroughly understand and be able to use with accuracy, all safety equipment while performing his/her normal duties, if the circumstance should arise. He/she should therefore familiarize himself/herself with the location of all safety equipment and check to see that it is properly stored, easily accessible at all times, and routinely maintained.

It is the intention of MRC ENERGY CO. and the Drilling Contractor to make every effort to provide adequate safeguards against harm to persons on the rig and in the immediate vicinity from the effects of hydrogen sulfide, which may be released into the atmosphere under emergency conditions. However, the initiative rests with the individual in utilizing the safeguards provided. The ideas and suggestions of the individuals involved in the drilling of this well are highly welcomed and act as a fundamental tool for providing the safest working conditions possible.

The drilling representative is required to enforce these procedures. They are set up for your safety and the safety of all others.

## II. PURPOSE

It is MRC Energy Co.'s intent to provide a safe working place, not only for its employees, but also for other contractors who are aiding in the drilling of this well. The safety of the general public is of utmost concern. All precautions will be taken to keep a safe working environment and protect the public.

There is a possibility of encountering toxic hydrogen sulfide gas. Safety procedures must be adhered to in order to protect all personnel connected with the operations as well as people living within the area.

The MRC Energy Co. representative will enforce all aspects of the H2S Contingency Plan. This job will become easier by a careful study of the following pages and training and informing all personnel that will be working on the well, their duties and responsibilities.

#### A. OPERATING PROCEDURES

## **DEFINITIONS:**

For purpose of this plan, on-site personnel shall be referred to as "In Scope Personnel" or "Out of Scope Personnel", per the following definitions:

**In Scope Personnel** – Personnel who will be working or otherwise present in potential H2S release areas, including the rig floor, cellar, pits, and shaker areas.

Out of Scope Personnel – Personnel who will not be working or Otherwise present in potential H2S areas. Such personnel include rig Site visitor, delivery and camp services personnel.

#### **GENERAL:**

Before this H<sub>2</sub>S contingency plan becomes operational, all regularly assigned In Scope Personnel (primarily the MRC, drilling contractor, and certain service personnel,) shall be thoroughly trained in the use of breathing equipment, emergency procedures, and responsibilities. Total Safety Technician or a designee assigned by the MRC Drilling Foreman shall keep a list of all personnel who have been through the on-site H<sub>2</sub>S training program at the drill site.

All In Scope Personnel shall be given H2S training and the steps to be taken during H2S conditions under which the well may be drilled. General information will be explained about toxic gases, as well as the physiological effects of H<sub>2</sub>S and the various classified operating conditions. In addition, the reader will be informed his/her general responsibility concerning safety equipment and emergency procedures.

The Total Safety H<sub>2</sub>S Safety Technician or MRC on-site RSE Technician shall make available the H2S Contingency Plan for all personnel to review.

Without exception, all personnel that arrive on location must proceed directly to and sign-in with the on-site MRC RSE Technician. In Scope Personnel will be required to complete an on-site H2S training and respirator fit testing before starting work, or produce evidence that they have received equivalent training. Out of Scope Personnel will be required to complete a site H2S awareness and general safety briefing. This briefing will consist of a H2S hazard overview, alarm review and required response to alarms.

# B. PROCEDURES TO BE INITIATED PRIOR TO H2S CONTINGENCY PLAN COMPLIANCE:

A list of emergency phone numbers and contacts will be on location and posted at the following locations:

- 1. MRC ENERGY CO.'S Representative's Office
- 2. Drilling Contractor's, Toolpusher Office
- 3. Living Quarters Area

All safety equipment and H<sub>2</sub>S related hardware must be set up as required by MRC Energy Co. with regard to location of briefing areas, breathing equipment, etc. All safety equipment must be inspected periodically (at least weekly) with particular attention to resuscitators and breathing equipment.

In Scope Personnel working in the well site area will be assigned breathing apparatus. Operator and drilling contractor personnel required to work in the following areas will be provided with Self Contained Breathing Apparatus:

- 1. Rig Floor
- 2. Mud Pits
- 3. Derrick
- 4. Shale Shaker
- 5. Cellar

The Total Safety H<sub>2</sub>S Safety Technician will be responsible for rigging up all H<sub>2</sub>S continuous monitoring-type detectors. The Total Safety Technician will monitor and bump test the detector units periodically (at least at least once a week to test alarm function during drilling conditions. In the event H<sub>2</sub>S is detected, or when drilling in a zone confirmed to contain H<sub>2</sub>S, the units shall be bump tested at least once every 24 hours. A bump test/calibration log will be kept on location. All results will be reported to the MRC on-site Drilling Foreman.

All Total Safety H2S equipment will be maintained and inspected by a Total Safety Technician on at least a Weekly basis.

## C. DRILLING BELOW CONTINGENCY PLAN DEPTH

H2S response drills will be held at least once per week if possible or as often as necessary to acquaint the crews and service company personnel of their responsibilities and the proper procedures to shut-in a well. Initial drills will be performed until crews demonstrate competency donning and working under mask. After the MRC Energy Co.'s representative is satisfied with initial blowout drill procedures, a drill will be conducted weekly with each crew, as necessary. The H2S Safety Technician or designee will conduct safety talks and maintain the safety equipment, consult and carry out the instructions of the drilling supervisor. All personnel allowed in the well work area during drilling or testing operations will be instructed in the use of breathing equipment until supervisory personnel are satisfied that they are capable of using it.

After familiarization, each person must perform a drill with breathing equipment. The drill should include getting the breathing equipment, donning the breathing apparatus, and performing expected duties for a short period. A record shall be kept of all personnel drilled and the date of the drill. H2S training records will be kept on location for all personnel.

Rig crews and service company personnel shall be made aware of the location of spare air bottles, resuscitation equipment, portable fire extinguishers, H<sub>2</sub>S monitors and detectors. Knowledge of the location of the H<sub>2</sub>S monitors and detectors are vital in determining as our gas location and the severity of the emergency conditions.

After any device has initially detected H2S, all areas of poor ventilation shall be inspected periodically by means of a portable H<sub>2</sub>S detector instrument. The buddy system will be utilized. (When an alarm sounds, personnel will don an SCBA, shut the well in, and proceed to SBA for roll call. The H2S Technician or designee will mask up, with a buddy and will verify source of H2S and report back to the on-site MRC Foreman.)

## D. PROCEDURES PROGRAM

#### 1. Drill Site

- a. The drilling rig will be located to allow prevailing winds to blow across the reserve pit.
- b. A Safe Briefing Area will be provided with a breathing air cascade trailer and or 30-minute SCBA's at the Primary Area. Personnel will assemble at the most up-wind station under alarm conditions, or when so ordered by the MRC Energy Co. representative, the Contractor representative, or

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- the Total Safety H<sub>2</sub>S Safety Technician. Windsocks or streamers will be anchored to various strategic places on a pole about 10 feet high, so it is in easy view from the rig floor at all times.
- c. Warning signs will be posted on the perimeters. "No Smoking" signs will be posted by MRC Energy Co.as well.
- d. One multi-channel automatic H<sub>2</sub>S monitor will be provided by Total Safety and the detector heads will be at the shale shaker, bell nipple, mud pits, rig floor, and quarter's area. The monitor will be located inside HSE or Company man trailer. Should the alarm be shut off to silence the sirens, the blinker light must continue to warn of H<sub>2</sub>S presence. The Total Safety H2S Safety Technician or designee will continuously monitor the detectors and will reactivate the alarm if H<sub>2</sub>S concentrations increase to a dangerous level.
- e. A method of escape will be open at all times.
- f. If available, land line telephone service will be provided or cell phones provided. (Primary communications provided)
- g. A rig communication system will be provided, as needed.
- h. A gas trap, choke manifold, and degasser will be installed.
- i. A kill line, securely anchored and of ample strength, will be laid to the well-head from a safe location. This line is to be used only in an emergency.

## General

- a. The MRC Energy Co. representative and/or the Contractor's Toolpusher will be available at all times. The drilling supervisor, while on duty, will have complete charge of the rig and location operations and will take whatever action is deemed necessary to insure personnel safety, to protect the well, and to prevent damage.
  - b. A Mud Engineer will be on location at all times when drilling takes place at the depth H<sub>2</sub>S may be expected. The mud engineer will be able to verify the presence or absence of H2S.

# III. CONDITIONS AND EMERGENCY PROCEDURES A. DEFINITION OF OPERATIONAL "CONDITIONS"

**CONDITION I** "POSSIBLE DANGER"

Warning Flags

Green

Alarms

No Alarm. Less than 10 ppm

Characterized By: Drilling operations in zones that may

contain hydrogen sulfide. This condition remains in effect unless  $H_2S$  is detected and it becomes necessary to go to Condition II.

General Action:

a. Be alert for a condition change

b. Check all safety equipment for availability and proper functioning.

c. Perform all drills for familiarization and proficiency.

**CONDITION II** 

"MODERATE DANGER"

Warning Flags

Yellow

Alarms:

Actuates at 10 ppm. Continuous flashing

light.

Characterized By:

Drilling operations in zones containing hydrogen sulfide. This condition will remain in effect until adding chemicals to the mud system neutralizes the hydrogen sulfide or it becomes necessary to go to

Condition III.

General Action:

- a. Be alert for a condition change
- b. WHEN DRILLING AHEAD Driller and designated crewmember
  will don 30 min SCBA, shut-in the
  well and immediately proceed to the
  Safe Briefing Area.

WHEN TRIPPING – Driller and two designated crewmembers will don 30 min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will

don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.

- c. All In Scope Personnel will proceed directly to the appropriate Safe Briefing Area.
- d. Remain in safe briefing area, take roll call and wait for instructions
- e. Contact the Total H2S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H<sub>2</sub>S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases.
- g. All Out of Scope Personnel will report to the appropriate Safe Briefing Area.

## **CONDITION III** "EXTREME DANGER"

Warning Flags

Red

Alarms

Actuate at 15 ppm. Continuous Sirens and Flashing Lights

Characterized by:

Critical well operations which pose an immediate threat of H<sub>2</sub>S exposure to on-site personnel and a potential threat to the public.

General Action:

a. WHEN DRILLING AHEAD Driller and designated crewmember
will don 30 min SCBA, shut-in the
well and immediately proceed to the
Safe Briefing Area.

WHEN TRIPPING – Driller and two designated crewmembers will don 30

- min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.
- b. All In Scope Personnel should don SCBA if nearby and immediately proceed to Safe Briefing Area. If SCBA in not nearby at time of alarm, DO NOT GO TOWARDS RIG AREA, but proceed directly to the Safe Briefing Area
- c. All out of Scope Personnel shall evacuate the location.
- d. Remain in the Safe Briefing Area, take roll call and wait for instructions.
- e. Contact the Total H2S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H<sub>2</sub>S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases. Use the buddy system.
- g. Remain in safe briefing area, take roll call and wait for instructions.
- h. A cascade breathing air systems shall be mobilized and utilized to conduct any additional on rig work required to correct the H2S release condition.
- i. If well is ignited do not assume area is safe. SO2 is hazardous and not all H2S will burn.

#### H<sub>2</sub>S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL

# A. Day To Day Drilling Operations

- 1. Upon discovering a release of H<sub>2</sub>S gas in the ambient air by warning alarms or in any other way **Do Not Panic**.
- 2. Hold your breath donning the nearest Self Contained Breathing Apparatus and rapidly move up or across-wind away from the areas where H<sub>2</sub>S sensing devices are in place, to the closest available safe briefing area. Continue to use breathing apparatus until it has been determined that the exposure of H<sub>2</sub>S gas in the ambient air no longer exists. **Do Not Panic!**
- 3. Utilize the "Buddy System", i.e.; select and pair up each person participating in the drilling of an H<sub>2</sub>S well prior to an emergency situation.
- 4. Help anyone who is overcome or affected by the H<sub>2</sub>S gas by taking him/her up-wind out of the contaminated area. (This should be done utilizing an SCBA and with a buddy.)
- 5. Take necessary steps to confirm the release of the H<sub>2</sub>S gas into the ambient air.
  - When an H2S alarm activates, two designated personnel using the buddy system, while wearing their self contained breathing apparatus, will determine by the read-out on the fixed monitor which sensing device has detected the release of the H<sub>2</sub>S gas.
  - They will utilize the hand-held sniffer type device at the particular sensing point disclosed on the fixed monitor to corroborate the fact that H<sub>2</sub>S gas has actually been released. This will rule out the possibility of a false alarm. This will be done with a buddy and under mask after reporting to the Safe Briefing Area for roll call and instructions by on-site MRC Foreman.
- 6. Refer to the Emergency Phone Numbers and call emergency personnel.
- 7. Take the necessary steps to suppress the release of H<sub>2</sub>S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H<sub>2</sub>S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gasmonitoring activities with the portable hand-operated H<sub>2</sub>S and gas detector units

#### Do Not Panic!

The MRC Energy Co. representative will assess the situation and with assistance of the Contractor's Representative and Total Safety's H<sub>2</sub>S Safety Technician or on site designee, will assign duties to each person to bring the situation under control.

#### B. RESPONSIBILITIES OF WELL-SITE PERSONNEL

In the event of a release of potentially hazardous amounts of  $H_2S$ , all personnel will immediately don their protective breathing apparatus, the well will be shut in and personnel will proceed upwind to the nearest designated safe briefing area for roll call and instructions by MRC Foreman. Consideration will be given to evacuating Out of Scope Personnel, as situation warrants.

## 1. MRC ENERGY CO.'S Well-site Representatives

- a. If MRC Energy Co.'s well-site representative is incapacitated or not on location, this responsibility will fall to the Toolpusher/Driller.
- b. Immediately upon assessing the situation, set this plan into Action by initiating the proper procedures to contain the gas and notify the appropriate people and agencies.
- c. Ensure that the alarm area indicated by the fixed H<sub>2</sub>S Monitor is checked and verified with a portable H<sub>2</sub>S detector. (Safety Technician if on location or MRC assigned designee with a buddy utilizing SCBA's)
- d. Consult Pusher/driller of remedial actions as needed.
- e. Ensure that non-essential personnel proceed to the safe briefing area.
- f. Ensure location entrance barricades are positioned. Keep the number of persons on location to a minimum during hazardous operations.

- g. Consult each contractor, Service Company and all others allowed to enter the site, that H2S gas may be encountered and the potential hazards that may exist.
- h. Authorize the evacuation of local residents if  $H_2S$  threatens Their safety.
  - i. Non essential personnel should be evacuated from location if Situation warrants.

# 2. Toolpusher

- a. Toolpusher/Driller will assume responsibilities of MRC Energy Co.'s well-site representative if that person is incapacitated or not on location.
- b. Ensure that the alarm area indicated by the fixed H<sub>2</sub>S monitor is checked and verified with a portable H<sub>2</sub>S gas detector. (Alarm area indicated by the monitor will be Checked by the H2S Technician and a buddy, under mask.) This will be done after checking in and roll call at the Upwind Safe Briefing Area.
- c. Confer with MRC Energy Co.'s well-site representative or superintendent and direct remedial action to suppress the H<sub>2</sub>S and control the well.
- d. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- e. Ensure that personnel at the drill floor area are instructed on emergency actions required.
- f. Ensure that all personnel observe the appropriate safety and emergency procedures.
- g. Ensure that all persons are accounted for and provided emergency assistance as necessary.

# 3. Mud Engineer

- a. Run a sulfide check on the flowline mud.
- Take steps to determine the source of the H<sub>2</sub>S and suppress it. Lime and H<sub>2</sub>S scavenger shall be added to the mud as necessary.

# 4. Total H<sub>2</sub>S Safety Technician, if on location, or MRC Designee

- a. H2S Safety Technician or designee don nearest SCBA and report to Safe Briefing Area for roll call, take a buddy masked up and check monitor and verify with a portable H<sub>2</sub>S detector the alarm area indicated by the fixed H<sub>2</sub>S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.
- b. If H<sub>2</sub>S is flared, check for sulfur dioxide (SO<sub>2</sub>) near the flare as necessary. Take hourly readings at different perimeters, log readings and record on location.
- c. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- d. Ensure that the appropriate warning flags are displayed.
- e. Ensure that all personnel are in S.C.B.A. as necessary.
- f. Ensure that all persons are accounted for and provide emergency assistance as necessary.
- g. Be prepared to evacuate rig if order is issued.

#### 5. General Personnel & Visitors

a. All In Scope Personnel, if not specifically designated to shut the well in or control the well, shall proceed to the (upwind) safe briefing area. All Out of Scope Personnel shall immediately proceed to the appropriate (upwind) safe briefing area or evacuate the site as conditions warrant.

- b. During any emergency, use the "buddy" system to prevent anyone from entering or being left in a gas area alone, even wearing breathing apparatus.
- c. Provide assistance to anyone who may be injured or overcome by toxic gases. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering a potentially H<sub>2</sub>S contaminated area.
- d. Remain in safe briefing area and wait for instructions.

#### C. INSTRUCTIONS FOR IGNITING THE WELL

1. The Toolpusher/Driller will confer with MRC Energy Co.'s well-site representative who will secure the approval of the "Texas Wells Delivery Manager, prior to igniting the well, if at all possible.

The Toolpusher/Driller will be responsible for igniting the well in the event of severe well control problems. This decision should be made only as a last resort in situations where it is clear that:

- a. Human life and property are endangered, or
- b. There is no hope of controlling the well under current conditions.
- 2. Once the decision has been made, the following procedures should be followed:
  - a. Two people wearing self-contained breathing apparatus will be needed for the actual lighting of the well. They must first establish the flammable perimeter by using an explosimeter. This should be established at 30% to 40% of the lower flammable limits.
  - b. After the flammable perimeter has been established and everyone removed from the area, the ignition team should select a site upwind of the well from which to ignite the well. This site should offer the maximum protection and have a clear path for retreat from the area.

- c. The ignition team should have safety belts and lifeline attached and manned before attempting ignition. If the leak is not ignited on the first attempt, move in 20 to 30 feet and fire again. Continue to monitor with the explosimeter and NEVER fire from an area with over 75% of the Lower Explosive Limit (LEL). If having trouble igniting the well, try firing 40 degrees to 90 degrees on either side of the well.
- d. If ignition is not possible due to the makeup of the gas, the toxic perimeter must be established and evacuation continued until the well is contained.
- e. All personnel must act only as directed by the person in charge of the operations.

NOTE: After the well is ignited, burning hydrogen sulfide (H<sub>2</sub>S) will convert to sulfur dioxide (SO<sub>2</sub>), which is also a highly toxic gas.

#### DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED

#### D. CORING PROCEDURES

Only essential personnel shall be on the rig floor. Ten (10) stands prior to retrieving core barrel; all personnel on drill floor and in derrick shall confirm self-Contained breathing apparatus available and ready for use.

A Total H2S Technician will don a SCBA with a buddy assigned from the rig crew, and continuously monitor for H2S at each connection. Any levels detected will require operations to be shut down and all involved personnel to don SCBAs. Precautions will remain in place until barrel is laid down.

All involved personnel will don SCBAs when removing the inner barrel from the outer barrel. SCBAs can be removed once the absence of H2S in confirmed by the Total H2S Technician.

Cores will be appropriately marked and sealed for transportation.

## **Normal Operations**

# 1. Responsibilities of well-site personnel

# a. Well-site Representative

- 1. Notify H<sub>2</sub>S Technician of expected date to reach Contingency Plan implementation depth (Two (2) days prior to reaching suspected H<sub>2</sub>S bearing zone) or prior to starting well work.
- 2. Ensure H<sub>2</sub>S Safety Technician completes rig-up procedures prior to reaching Contingency Plan effective depth.
- 3. Restrict the number of personnel at the drilling rig or well site to a minimum while drilling, starting well work, testing or coring.
- 4. Ensure weekly H<sub>2</sub>S drills/training are performed, if possible.

# B. Toolpusher

- 1. Ensure that necessary H<sub>2</sub>S safety equipment is provided on the rig, and that it is properly inspected and maintained.
- 2. Ensure that all personnel that work in the well area, are thoroughly trained in the use of H<sub>2</sub>S safety equipment and periodic drills are held to maintain an adequate level of proficiency.

# C. In Scope Personnel

- 1. Remain clean-shaven. Beards and long sideburns do not allow a proper facepiece seal.
- 2. Receive H<sub>2</sub>S safety training on location, or confirm prior training by certification that is one year within date.
- 3. Familiarize yourself with the rig's Contingency Plan.
- 4. Inspect and practice putting on your breathing apparatus.

- 5. Know the location of the "safe briefing areas".
- 6. Keep yourself "wind conscious". Be prepared to quickly move upwind and away in the event of any emergency involving release of  $H_2S$ .

# D. Total Safety H<sub>2</sub>S Safety Technician or MRC Designee

- 1. Conduct training as necessary to ensure all personnel working in well area are familiar with the contingency procedures and the operation of emergency equipment.
- 2. Check all H<sub>2</sub>S safety equipment to ensure that it is ready for emergency use:
  - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hippacks) to make sure they are charged to full volume.
  - Check pressure on cascade air bottles, if on location, to see that they are capable of recharging breathing apparatus.
  - Check oxygen resuscitator, if on location, to ensure that it is charged to full volume.
  - Check H<sub>2</sub>S detectors weekly for each shift (fixed and portable), and explosimeter, to ensure they are working properly.
- 3. Provide a weekly report to MRC Energy Co.'s well-site representative documenting:
  - Calibrations performed on H<sub>2</sub>S detectors.
  - Proper location and working order of H<sub>2</sub>S safety equipment.
  - Attendance of all personnel, trained or retrained, and their company.
  - Weekly drills, if held and a list of personnel participating and summary of actions.

# **OUT OF SCOPE PERSONNEL**

MRC Energy Co. policy will not require Out of Scope Personnel to be clean shaven, have processed medical questionnaires, fit testing, or have certified H2S Training.

# **SAFETY EQUIPMENT**

All respirators will be designed, selected, used and maintained in conformance with ANSI Z88.2, American National Standard for respiratory protection.

Personal protective equipment must be provided and used. Those who are expected to use respiratory equipment in case of an emergency will be carefully instructed in the proper use and told why the equipment is being used. Careful attention will be given to the minute details in order to avoid possible misuse of the equipment during periods of extreme stress.

Self-contained breathing apparatus provides complete respiratory and eye protection in any concentration of toxic gases and under any condition of oxygen deficiency. The wearer is independent of the surrounding atmosphere because he/she is breathing with a system admitting no outside air. It consists of a full face mask, breathing tube, pressure demand regulator, air supply cylinder, and harness. Pure breathing air from the supply cylinder flows to the mask automatically through the pressure demand regulator which reduces the pressure to a breathing level. Upon inhalation, air flows into the mask at a rate precisely regulated to the user's demand. Upon exhalation, the flow to the mask stops and the exhaled breath passes through a valve in the face piece to the surrounding atmosphere. The apparatus includes an alarm & gauge which warns the wearer to leave the contaminated area for a new cylinder of air or cylinder refill.

The derrickman is provided with a full face piece unit attached to a 5– minute escape cylinder. He will also have his own self-contained 30-minute unit breathing apparatus located on the drilling floor. He will use the 5-minute unit to exit the derrick to the floor, donning the 30-minute unit located on the floor, if needed.

All respiratory protective equipment, when not in use, should be stored in a clean, cool, dry place, and out of direct sunlight to retard the deterioration of rubber parts. After each use, the mask assembly will be scrubbed with soap and water, rinsed thoroughly, and dried. Air cylinders can be recharged to a full condition from a cascade system.

Personnel in each crew will be trained in the proper techniques of bottle filling.

The primary piece of equipment to be utilized, should anyone be overcome by hydrogen sulfide, is the oxygen resuscitator, if on location.

When asphyxiation occurs, the victim must be moved to fresh air and immediately given artificial respiration. In order to assure readiness, the bottles of oxygen will be checked at regular intervals and an extra tank kept on hand.

Hand-operated pump-type detectors incorporating detector tubes will give more accurate readings of hydrogen sulfide. The pump-type draws air to be tested through the detector tube containing lead acetate-silica gel granules. Presence of hydrogen sulfide in the air sample is shown by the development of a dark brown stain on the granules, which is the

scale reading of the concentration of hydrogen sulfide. By changing the type of detector tube used, this detector may also be used for sulfur dioxide  $(SO_2)$  detection when hydrogen sulfide  $(H_2S)$  is being burned in the flare area.

Provisions must be made for the storage of all safety equipment as is evident from the foregoing discussion. All equipment must be stored in an available location so that anyone engaged in normal work situations is no more than "one breath away' from a mask.

#### V – TOXICITY OF VARIOUS GASES

l athal	Chemical	Specific		
Lethal Common Name ppm⁴	Formula	Gravity <sup>1</sup>	PEL (OSHA) <sup>2</sup>	STEL <sup>3</sup>
Hydrogen Cyanide 300	HCN	0.94	10	150
Hydrogen Sulfide 600	H <sub>2</sub> S	1.18	20 Pea	ak- 50ppm
Note: The ACGIH(7) red	commends a TW	A(6) value of 10	opm as the TLV(5) for	H2S and an STEL of
15ppm. Sulfur Dioxide 1000	SO <sub>2</sub>	2.21	2	5 ppm
Chlorine	$CL_2$	2.45	1	
Carbon Monoxide 1000	СО	0.97	35	200/1 Hour
Carbon Dioxide 10%	CO <sub>2</sub>	1.52	5000	5%
Methane	CH <sub>4</sub>	0.55	90000	

 $<sup>^{1}</sup>$  Air = 1.0

**TLV** – Threshold Limit Value; a concentration recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

**TWA –** Time Weighted Average; the average concentration of contaminant one can be exposed to over a given eight-hour period.

**ACGIH** – (American Conference of Governmental Industrial Hygienists) is an organization comprised of Occupational Health Professionals believed by many to be the top experts in the field of Industrial Hygiene. They are recognized as an expert rexource by OSHA. The ACGIH releases a biannual publication "Threshold Limit Values and Biological Indices" that many safety professionals consider to be the authoritative document on airborne contaminants.

Reference: API RP-49, September 1974 - Reissued August 1978

<sup>&</sup>lt;sup>2</sup> Permissible - Concentration at which is believed that all workers may repeatedly be exposed, day after day, without adverse effect.

<sup>&</sup>lt;sup>3</sup> **STEL -** Short Term Exposure Limit. A 15-minute time weighted average.

<sup>&</sup>lt;sup>4</sup> **Lethal -** Concentration that will cause death with short-term exposure.

# VI. PROPERTIES OF GASES

## A. CARBON DIOXIDE

- 1. Carbon Dioxide (CO<sub>2</sub>) is usually considered inert and is commonly used to extinguish fires. It is 1.52 times heavier than air and will concentrate in low areas of still air. Humans cannot breathe air containing more than 10% CO<sub>2</sub> without losing conscience or becoming disorientation in a few minutes. Continued exposure to CO<sub>2</sub> after being affected will cause convulsions, coma, and respiratory failure.
- 2. The threshold limit of  $CO_2$  is 5000 ppm. Short-term exposure to 50,000 ppm (5%) is reasonable. This gas is colorless, odorless, and can be tolerated in relatively high concentrations.

# B. HYDROGEN SULFIDE

- 1. Hydrogen Sulfide  $(H_2S)$  is a colorless, transparent, flammable gas. It is heavier than air and, hence, may accumulate in low places.
- 2. Although the slightest presence of H<sub>2</sub>S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of H<sub>2</sub>S.

CC	ONCENT	TRATION	EFFECTS	
% H <sub>2</sub> S	PPM	GR/100 SCF <sup>1</sup>		
0.001	10	.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.	
0.0015	15	0.975	Safe for 15 minutes of exposure without respirator.	
0.01	100	6.48	Kills smell in 3-15 minutes; may sting eyes and throat.	
0.02	200	12.96	Kills smell quickly; stings eyes and throat.	
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.	
0.07	700	45.92	Rapid Unconsciousness; death will result if not rescued promptly.	
0.1	1000	64.80	Instant unconsciousness, followed by death within minutes.	

<sup>&</sup>lt;sup>1</sup> Grains per 100 Cubic Feet

# VII. Treatment Procedures for Hydrogen Sulfide Poisoning

- Remove the victim to fresh air.
- B. If breathing has ceased or is labored, begin resuscitation immediately.

Note: This is the quickest and preferred method of clearing victim's lungs of contaminated air; however, under disaster conditions, it may not be practical to move the victim to fresh air. In such instances, where those rendering first aid must continue to wear masks, a resuscitator should be used.

- C. Apply resuscitator to help purge H<sub>2</sub>S from the blood stream.
- D. Keep the victim at rest and prevent chilling.
- E. Get victim under physician's care as soon as possible.

# C. SULPHUR DIOXIDE

- 1. Sulfur Dioxide (SO<sub>2</sub>) is a colorless, non-flammable, transparent gas.
- 2. SO<sub>2</sub> is produced during the burning of H<sub>2</sub>S. Although SO<sub>2</sub> is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO<sub>2</sub> is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of SO<sub>2</sub>:

CONCEN	TRATION	EFFECTS	
% SO <sub>2</sub>	PPM		
0.0005	3 to 5	Pungent odor, normally a person can detect $SO_2$ in this range.	
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of eyes.	
0.015	150	So irritating that it can only be endured for a few minutes.	
.05	500	Causes a sense of suffocation, event with the first breath.	

# VIII. BREATHING AIR EQUIPMENT DRILLS FOR ON & OFF DUTY PERSONNEL

An H<sub>2</sub>S Drill and Training Session must be given once a week to ALL on-duty personnel with off duty personnel. On-duty and Off-duty personnel will reverse roles on alternate drills.

An H2S drill and training session must be given once a week to all off-duty personnel in coincidence with on-duty personnel reversing roles on alternate drills.

The purpose of this drill is to instruct the crews in the operation and use of breathing air and H<sub>2</sub>S related emergency equipment and to allow the personnel to become acquainted with using the equipment under working conditions. The crews should be trained to put on the breathing air equipment within one minute when required or requested to do so.

The following procedure should be used for weekly drills. The MRC supervisor must be satisfied that the crews are proficient with the equipment.

- 1. All personnel should be informed that a drill will be held.
- 2. The Total H2S Safety Technician or a designee assigned by the MRC Drilling Foreman should initiate the drill by signaling as he/she would if H2S was detected.
- 3. Personnel should don their breathing apparatus.
- 4. Once the breathing air equipment is on, the H2S Technician should check all personnel to insure proper operation.

A training and information session will be conducted after each drill to answer any H<sub>2</sub>S related questions and to cover any gaps identified from one of the following topics:

- · Condition II, and III alerts and steps to be taken by all personnel.
- The importance of wind direction when dealing with  $H_2S$ .
- · Proper use and storage of all types of breathing equipment.
- Proper use and storage of oxygen resuscitators.
- Proper use and storage of H<sub>2</sub>S detectors (Mini Checks or equivalent).
- The "buddy system" and the procedure for rescuing a person overcome by  $H_2S$ .
- · Responsibilities and duties.
- · Location of  $H_2S$  safety equipment.
- Other parts of the "H<sub>2</sub>S Contingency Plan" that should be reviewed.

NOTE: A record of attendance must be kept for weekly drills and training sessions.

# IX. HYDROGEN SULFIDE TRAINING CURRICULUM

(FOR EMPLOYERS, VISITORS, AND CONTRACTORS)

EACH PERSON WILL BE INFORMED ON THE RESTRICTIONS OF HAVING BEARDS AND CONTACT LENS. THEY WILL ALSO BE INFORMED OF THE AVAILABILITY OF SPECTACLE KITS.

AFTER THE H2S EQUIPMENT IS RIGGED UP, ALL IN SCOPE PERSONNEL WILL BE H2S TRAINED AND PUT THROUGH A DRILL. ANY DEFICIENCIES WILL BE CORRECTED.

Training Completion cards are good for one year and will indicate date of completion or expiration. Personnel previously trained on another facility and visiting, must attend a "supplemental briefing" on H2S equipment and procedures before beginning duty. Visitors who remain on the location more than 24 hours must receive full H2S training given all crew members. A "supplemental briefing" will include but not be limited to: Location of respirators, familiarization with safe briefing areas, alarms with instruction on responsibilities in the event of a release and hazards of H2S and (SO2, if applicable). A training and drill log will be kept.

Topics for full H2S training shall include the following equipment if on location, but not be limited to the following:

#### 1. **Brief Introduction on H2S**

- A. Slide or Computer presentation (If Available)
- B. H2S material will be distributed
- C. Re-emphasize the properties, toxicity, and hazards of H2S
- D. Source of SO2 (if applicable)

#### 2. **H2S Detection**

- A. Description of H2S sensors
- B. Description of warning system (how it works & it's location)
- C. Actual location of H2S sensors
- D. Instruction on use of pump type detector (Gastec)
- E. Use of card detectors, ampoules, or dosimeters
- F. Use of combustible gas detector
- G. Other personnel detectors used
- H. Alarm conditions I & II,
- I. SO2 alarms (if applicable)

# 3. **H2S Protection**

- A. Types of breathing apparatus provided (30-minute SCBA & 5-minute SCBA (with voice diaphragms for communication if supplied)
- B. Principle of how breathing apparatus works
- C. Demonstration on how to use breathing apparatus
- D. Location of breathing apparatus

# 4. Cascade System

- A. Description of cascade system
- B. How system works
- C. Cascade location of rig with reference to briefing areas
- D. How to use cascade system (with 5-minute hose work line units & refill, if supplied)
- E. Importance of wind direction and actual location of Windsocks
- F. Purpose of compressor/function (if one is on site)

## 5. **H2S Rescue and First Aid**

- A. Importance of wind direction
- B. Safe briefing area
- C. Buddy system
- D. H2S symptoms
- E. Methods of rescue

# 6. **Hands on Training**

- A. Donning/familiarization of SCBA 30-minue unit
- B. Donning/familiarization of SKADA 5- MIN. Packs
- C. Familiarization of cascades
- D. Use of O2 resuscitator
- E. Alarm conditions upwind briefing areas, etc...
- F. Duties and responsibilities of all personnel
- G. Procedures for evacuation
- H. Search and Rescue teams

#### 7. Certification

A. Testing on material covered

# TOTAL SAFETY US INC., FIT TEST

X. EMPLOYI	EE INFORMA	TION			
Employee Na	ame:			_ Date:	
Date of Empl	loyee Medica	l Evaluation:			
Medical State Authorized	us (circle):	Unrestricted	Limitations	on Use	Use Not
RESPIRATOR	R INFORMAT	IOIN			
Respirator Ty	ype (Dustmas	sk, SCBA, etc):			
Brand:					
Size: (circle):	XS	S	M	L	XL
FIT TEST INF	ORMATION				
Type of Fit T	est Performed titative	d:			
<u> Yumi</u>	Porta Count Fittester 300				
Quali	Irritant Smo	oke etate (Banana Oil)	) ] ]	Passed / Fa Passed / Fa Passed / Fa Passed / Fa	niled niled
I hereby certify that			ccordance wi	th the OSH	A Fit Testing
Protocols found in A					
Fit Tester Name (Pr	int):				
Signature:				_ Date:	

#### XI. H<sub>2</sub>S SAFETY SERVICES

HYDROGEN SULFIDE SAFETY PACKAGE – Contained on location in Total Safety H2S Equipment Trailer, unless otherwise noted:

#### RESPIRATORY SAFETY SYSTEMS

# QTY DESCRIPTION

- 30-Minute Pressure Demand SCBA (4-Primary Safe Briefing Area, 4-Secondary Safe Briefing Area, 4-floor with one of these for derrick man)
- 9 Hose Line 5-minute Work Unit w/Escape Cylinder (1 in derrick, 6 on drill floor, 1 in mud pit wt area, 1 in shaker area)

The following shall be part of the package if requested by the MRC Foremen (at least one trailer with cascade system is required to be located in the MRC Magnolia asset for use as needed)

- 1 Breathing air cascade of 10 bottles w/regulator
- 2 Refill lines to refill 30-minute units on location
- 6-Man manifold that can be rigged up to work area on floor, if needed
- 6 25 foot hose lines
- 2 50 foot hose lines
- 100 Feet of hose line to rig cascade up to 12 man manifold on floor
- 12 30-minute Self Contained Breathing apparatus

#### **DETECTION AND ALARM SAFETY SYSTEM**

- H2S Fixed Monitor w/8Channels (Loc determined at rig up) suggested. (Mud pit area, shaker area, bell nipple area, floor/driller area, & outside quarters)
- 5 H2S Sensors
- Explosion Proof Alarms (Light and Siren)
  (1 on floor, 1 in work area, 1 in trailer area where quarters are located)
- 2 Personal H2S monitors
- 1 Portable Tri-Gas Hand Held Meter (O2, LEL, H2S)
- 1 Sensidyne/Gastech Manual Pump Type Detector
- 8 Boxes H2S Tubes Various Ranges
- 2 Boxes SO2 Tubes Various Ranges
- 1 Calibration Gas
- 1 Set Paper Work for Records: Training, Cal, Inspection, other

# ADDITIONAL SAFETY RELATED EQUIPMENT

## QTY DESCRIPTION

- Windsocks with Pole and Bracket
- 1 Set Well Condition Sign w/Green, Yellow, Red Flags
- 1 Primary Safe Briefing Area Sign
- 1 Secondary Safe Briefing Area Sign
- 6 Operating Condition Signs for Work Areas & Living Quarters

# TRAILER WITH BREATHING AIR CASCADE WILL ALSO INCLUDE THE FOLLOWING:

This equipment will be part of the H2S equipment stored in the trailer, when on location

- 1 First aid kit
- 1 Fire Blanket
- 1 Eye wash station
- 2 Safety Harness w/150' safety line

# XII. EMERGENCY PHONE NUMBERS (Updated March 18, 2009)

# **EMERGENCY PHONE NUMBERS**

MRC Energy Co. Emergency Phone #
MRC Energy Co. Permian Operations Phone-----MRC Energy Co. Production
113 Daw Rd
Mansfield LA 71052

Title	Names	Phone	Cell
Operations Manager			
Operation Supt.			
Operations			
Supervisor			
Operations			
Supervisor			
Office Supervisor			
HSE	_		
Scheduler Planner			

**Hydrogen Sulfide Safety Consultants** 

Total Safety W. Bender	575-392-2973	After Hours 24 Hour Call
Blvd. Hobbs, NM		Center Through Office
		Number
Tommy Throckmorton	575-392-2973	940-268-9614
Operations Manager		
Rodney Jourdan Sales	575-392-2973	432-349-3928
Contact		

# MRC Energy Co. MEDICAL RESPONSE PLAN AND IT'S MEDICAL PROTOCOLS WILL BE FOLLOWED

MEDICAL COORDINATOR # -----

**Emergency Numbers & Directions** 

# Hospitals (911)

Artesia General Hospital		
702 N. 13 <sup>th</sup> St.	Main Phone Number	575-748-3333
Artesia, NM 88210		
Nor-Lea General Hospital		
1600 N. Main Ave.	Main Phone Number	575-396-6611
Lovington, NM 88260		
Lea Regional Medical		
Center	Main Phone Number	575-492-5260
5419 N. Lovington Hwy		
Hobbs, NM 88240		
Carlsbad General Hospital		
2430 W. Pierce St.	Main Phone Number	575-887-4100
Carlsbad, NM		
<b>Lovelace Regional Hospital</b>		
117 E. 19 <sup>th</sup> St	Main Phone Number	575-627-7000
Roswell, NM 88201		
Winkler Co. Memorial		
Hospital	Main Phone Number	432-586-8299
821 Jeffee Dr.		
Kermit, Texas 79745		
<b>Reeves County Hospital</b>		
2323 Texas St.	Main Phone Number	432-447-3551
Pecos, Texas 79772		

State Police (911)

State I once () II		
Texas DPS Loving co.		
225 N.Pecos	Office Number	432-377-2411
Mentone, Texas 79754		
Texas DPS Winkler Co.		
100 E Winkler	Office Number	432-586-3465
Kermit, Texas 79745		
Texas DPS Pecos Co.		
148 N I-20 Frontage RD	Office Number	432-447-3532
Pecos, Texas 79772		
New Mexico State Police		_
3300 W. Main St	Office Number	575-748-9718
Artesia, NM		
New Mexico State Police		
304 N. Canyon St	Office Number	575-885-3137
Carlsbad, NM 88220		
New Mexico State Police		
5100 Jack Gomez Blvd.	Office Number	575-392-5588
Hobbs, NM 88240		

**Local Law Enforcement (911) (Sheriff)** 

Edeal Eaw Emoleciment ()	/ (SHETHI)	
Reeves Co. Sheriff 500 N. Oak ST	Office Number	432-445-4901
Pecos, Texas 79722		
Winkler Co. Sheriff		
1300 Bellaire St.	Office Number	432-586-3461
Kermit, Texas 79745		
Loving Co. Sheriff		
Courthouse	Office Number	432-377-2411
Mentone, Texas		
Lea Co. Sheriff		
1417 S. Commercial St.	Office Number	
Lovington, NM 88260		
Eddy Co. Sheriff		
305 N 7th St.	Office Number	575-766-9888
Artesia, NM 88210		
Eddy Co. Sheriff		
305 N 7th St.	Office Number	575-746-9888
Carlsbad, NM 88220		

# Federal & State Agencies

OSHA Lubbock Area Office	Main Number	806-472-7681 EXT 7685
1205 Texas Av. Room 806	Wall Number	800-472-7081 EXT 7083
Lubbock, Texas 79401		
New Mexico Environment		
	Loo Emagazione	575-623-3935
Department	Joe Fresquez	575-025-3935
400 N Pennsylvania		
Roswell, NM 88201 Texas Railroad		
	Notes Name Is an	944 772 0205
Commission	Main Number	844-773-0305
Midland, Texas		
DVAC III INCESTICATION		
BLM Carlsbad, NM Field	36.37	575 224 5072
Office	Main Number	575-234-5972
620 E. Green ST		
Carlsbad, NM 88220		
BLM Hobbs Field Station		
414 W. Taylor Rd.	Main Number	575-689-5981
Hobbs, NM 88240		
<b>BLM Roswell District</b>		
Office	Main Number	575-627-0272
2909 W. Second St.		
Roswell, NM 88201		
TECQ Texas Commission		
on Environmental Quality	Main Number	800-832-8224
New Mexico OCD		
U.S. Environmental		
<b>Protection Agency Region</b>	Main Number	214-655-2222
6		
Texas/New Mexico		
<b>National Response Center</b>		
Toxic Chemicals & Oil	Main Number	800-424-8802
Spills		
1		

**Rig Company** 

ing company		
	1	1

#### XIII. EVACUATION OF THE GENERAL PUBLIC

The procedure to be used in alerting nearby persons in the event of any occurrence that could pose a threat to life or property will be arranged and completed with public officials in detail, prior to drilling into the hydrogen sulfide formations.

In the event of an actual emergency, the following steps will be immediately taken:

- 1. The MRC Energy Co.'s representative will dispatch sufficient personnel to immediately warn each resident and transients down-wind within radius of exposure from the well site. Then warn all residence in the radius of exposure. Additional evacuation zones may be necessary as the situation warrants.
- 2. The MRC Energy Co.'s representative will immediately notify proper authorities, including the Sheriff's Office, Highway Patrol, and any other public officials as described above and will enlist their assistance in warning residents and transients in the calculated radius of exposure.
- 3. The MRC Energy Co.'s representative will dispatch sufficient personnel to divert traffic in the vicinity away from the potentially dangerous area. A guard to the entrance of the well site will be posted to monitor essential and non essential traffic.

#### 4. General:

- A. The area included within the radius of exposure is considered to be the zone of maximum potential hazard from a hydrogen sulfide gas escape. Immediate evacuation of public areas, in accordance with the provisions of this contingency plan, is imperative. When it is determined that conditions exist which create an additional area (beyond the initial zone of maximum potential hazard) vulnerable to possible hazard, public areas in the additional hazardous area will be evacuated in accordance with the contingency plan.
- B. In the event of a disaster, after the public areas have been evacuated and traffic stopped, it is expected that local civil authorities will have arrived and within a few hours will have assumed direction of and control of the public, including all public areas. MRC Energy Co. will cooperate with these authorities to the fullest extent and will exert every effort by careful advice to such authorities to prevent panic or rumors.
- C. MRC Energy Co. will dispatch appropriate management personnel at the disaster site as soon as possible. The company's personnel

- will cooperate with and provide such information to civil authorities as they might require.
- D. One of the products of the combustion of hydrogen sulfide is sulfur dioxide (SO<sub>2</sub>). Under certain conditions this gas may be equally as dangerous as H<sub>2</sub>S. A pump type detector device, which determines the percent of SO<sub>2</sub> in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO<sub>2</sub> detector should be utilized to check concentrations in the proximity of the well once every hour, or as necessary and the situation warrants. Also, if any low areas are suspected of having high concentrations, personnel should be made aware of these areas, and steps should be taken to determine whether or not these low areas are hazardous.

Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Josh Passauer	Vice President Drilling	972-371-5240	918-704-3699
Toby Solis	<b>Drilling Superintendent</b>		817-372-7817
Dee Smith	<b>Drilling Superintendent</b>	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Roy Shirley	Construction Superintender	nt	432-634-2136
Rayland Vannatta	Construction Superintende	nt	575-361-2132

<u>Artesia</u>	
Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283

Carlsbad	
Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
New Mexico Oil Conservation Division	575-887-6544

Santa Fe	
New Mexico Emergency Response Comission (Santa Fe)	505-476-9600
New Mexico Emergency Response Comission (Santa Fe) 24 hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635

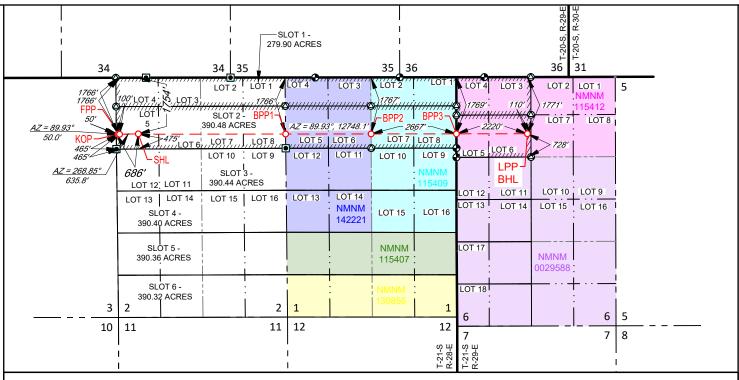
<u>National</u>	
National Emegency Response Center (Washington, D.C.)	800-424-8802

<u>Medical</u>	
Flight for Life- 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare- R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM	505-842-4433
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949

<u>Other</u>		
Boots & Coots IWC	800-256-9688	or 281-931-8884
Cudd Pressure Control	432-699-0139	or 432-563-3356
Haliburton	575-746-2757	
B.J. Services	575-746-3569	

C-102 Submit Electronically		State of New Energy, Minerals & Natural					ent	Revised July 9, 2024				
Via OCD Permitt			~,				ON DIVISION					
								mittal	Amended Report			
						Type:		As Drilled				
	WELL LOCATION AND ACREAGE DEDICATION PLAT											
API Number		<u>'</u>	Pool Code		Pool N		EDICATI		<u> </u>			
NA			97995		V	VC-015 G-0	5 S20293	5P; BOI	NE SI	PRING		
Property Code			Property Name	CIMO		U E 0006 EEE	2 COM			Well Number		
NA OGRID No.			On and a Name	SINC	JN CAMAM	LE 0206 FED	J COM				122H	
228937			Operator Name	MATA	DOR PROD	UCTION CO	MPANY		Ground Level Elevation 3292'			
Surface Owner:	State Fee Fee	Tribal Federa	1			Mineral Owner: 🔽	State Fee Tı	ribal 🖊 Federa	al			
					Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn		Feet from the E/W	Latitu	ıde		Longitude	County	
5	2	21-S	28-E	_	1754' N	686' W	N 32.51	78160	W 1	04.0636859	EDDY	
		l	1	1		ole Location		-				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitu	ıde		Longitude	County	
6	6	21-S	29-E	-	1771' N	2220' W	N 32.51	77356	W 1	04.0242280	EDDY	
			<u> </u>									
Dedicated Acres		ning Well Defi	•			Overlapping Spacing Unit (Y/N)  Consolidated Code						
670.38	Defin	ning   -	Pending	Pending			Ÿ			Ę		
Order Numbers	R-22800	)				Well Setbacks are ur	nder Common Owi	nership:	res <b>N</b> o	o		
					Kick Off I	Point (KOP)						
UL or lot no.	Section	Township	Range	Lot Idn		Feet from the E/W	Latitu	ıde		Longitude	County	
5	2	21-S	28-E	-	1766' N	50' W	N 32.5177854 W 10		04.0657484	EDDY		
										<u> </u>		
III 1.	G 4:	T 1:	T p	T . T1	First Take  Feet from the N/S	Point (FTP)  Feet from the E/W	T 10	1		T 2.1	G	
UL or lot no.	Section	Township	Range	Lot Idn			Latitude N 32.5177852		10/1	Longitude	County	
5	2	21-S	28-E	-	1766' N	100' W	N 32.51	77852	VV 1	04.0655862	EDDY	
					Last Take	Point (LTP)						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitu	ıde		Longitude	County	
6	6	21-S	29-E	-	1771' N	2220' W	N 32.51	77356	W 1	04.0242280	EDDY	
										<u>.</u>		
Unitized Area or A				Spacing Unity	Туре		Gr	ound Floor Ele	evation			
Lots 1-8 c					✓Horizont	tal Vertical		ound Floor Ele 3320'				
& Lots 3-6	of Sec.	6, 1215	-R29E									
OPERATO	OR CERTIF	FICATION				SURVEYOR	RS CERTIFI	CATION				
I hereby certij	fy that the in	formation co			complete to the	I hereby certify	that the well	location sh	own on	this plat was Mitte		
that this orga	nization eithe	er owns a wo	rking interest (	or unleased 1	directional well, nineral interest ght to drill this	notes of actual is true and cor				y supervision and l	hal the same	
well at this lo or unleased m	cation pursua ineral interes	ant to a contr st, or to a vo	ract with an or Juntary pooling	vner of a wo					1		%\ \	
	a horizontal	well, I furth	er certify that							12 / A2 / 1/	8	
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					\ \frac{1}{2}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
any part of the pooling order			ı will be locate	a or obtaine	a a compulsory					100/2012		
Addison Fisher. 10/9/25									ONAL	50		
Addison Fisher 10/9/25 Signature Date					Signature and Seal	of Professional Su	rvevor	Date	· · · · · · · · · · · · · · · · · · ·	- 		
Addion Fis	sher		2					-,	Dulk			
Print Name						Certificate Number	Ī	Date of Survey				
addison.f	isher@m	atadorre	sources.c	om				08/29	9/2024			

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024			
			Initial Submittal		
		Submittal Type:	Amended Report		
		71	As Drilled		
Property Name and Well Number					
SIMON CAMAMILE 0206 FED COM 122H					



## SURFACE LOCATION (SHL)

NEW MEXICO EAST NAD 1983 X=624452 Y=552217 LAT.: N 32.5178160 LONG.: W 104.0636859 NAD 1927 X=583271 Y=552156 LAT.: N 32.5176967 LONG.: W 104.0631838 1754' FNL 686' FWL

**BLM PERF. POINT (BPP1)** 

**NEW MEXICO EAST** 

NAD 1983

X=629056 Y=552211

LAT.: N 32.5177667 LONG.: W 104.0487478

NAD 1927

X=587876 Y=552150

LAT.: N 32.5176472

# 1766' FNL 50' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST

NAD 1983

X=623816 Y=552205

LAT.: N 32.5177854

LONG.: W 104.0657484

NAD 1927

X=582635 Y=552143

LAT.: N 32.5176661

LONG.: W 104.0652462

BLM PERF. POINT (BPP2)

NEW MEXICO EAST

NAD 1983

X=631728 Y=552215

LAT.: N 32.5177562

LONG.: W 104.0400820

NAD 1927

X=590547 Y=552154

LAT.: N 32.5176367

LONG.: W 104.0395805

1767' FNL 2667' FEL

#### **FIRST PERF. POINT (FPP)**

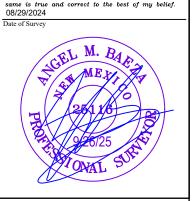
NEW MEXICO EAST NAD 1983 X=623866 Y=552205 LAT.: N 32.5177852 LONG.: W 104.0655862 NAD 1927 X=582685 Y=552143 LAT.: N 32.5176659 LONG.: W 104.0650840 1766' FNL 100' FWL

#### **BLM PERF. POINT (BPP3)**

NEW MEXICO EAST NAD 1983 X=634395 Y=552218 LAT.: N 32.5177453 LONG.: W 104.0314295 NAD 1927 X=593214 Y=552157 LAT.: N 32.5176256 LONG.: W 104.0309282 1769' FNL 0' 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. 08/29/2024



#### LONG.: W 104.0482461 1766' FNL 0' FEL LAST PERF. POINT (LPP) BOTTOM HOLE LOCATION (BHL)

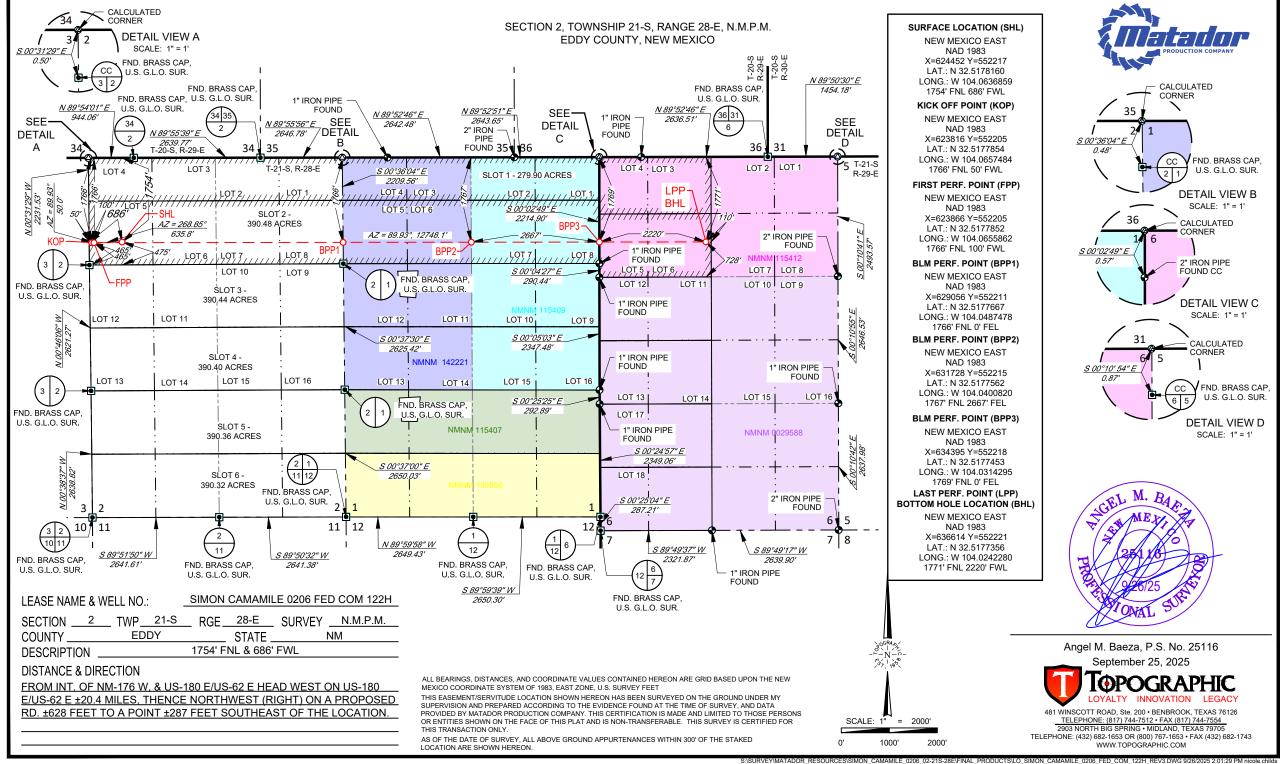
NEW MEXICO EAST NAD 1983 X=636614 Y=552221 LAT.: N 32.5177356 LONG.: W 104.0242280 NAD 1927 X=595433 Y=552160 LAT.: N 32.5176159 LONG.: W 104.0237270

1771' FNL 2220' FWL

Released to Imaging: 11/17/2025 4:13:45 PM

7:04

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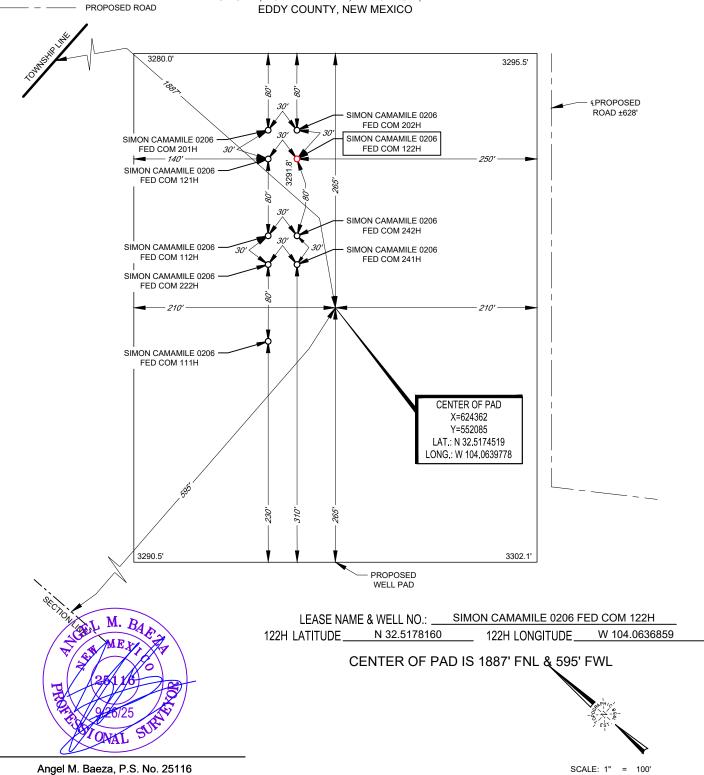
**LEGEND** 

TOWNSHIP LINE

SECTION LINE



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



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

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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General Information Phone: (505) 629-6116

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

CONDITIONS

Action 522441

#### **CONDITIONS**

Operator:	OGRID:	
MATADOR PRODUCTION COMPANY	228937	
One Lincoln Centre	Action Number:	
Dallas, TX 75240	522441	
	Action Type:	
	[C-103] NOI Change of Plans (C-103A)	

#### CONDITIONS

Cre	eated By	Condition	Condition Date
W	/ard.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	11/17/2025
W	/ard.rikala	Any previous COA's not addressed within the updated COA's still apply.	11/17/2025