Permit includes an approved change of plans appended to this document

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-56725

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 03/27/2026

Confidential

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

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

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

C-102
Revised July 9, 2024
Submit Electronically
Via OCD Permitting

Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025	30213	HAT MESA; BONE SPRING

Property Code	Property Name	Well Number
	GAVILON FED COM	106H

ORGID No.	Operator Name	Ground Level Elevation
228937	MATADOR PRODUCTION COMPANY	3,659'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	33	20 S	33 E		395' FSL	537' FWL	32.523437	-103.675083	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	20 S	33 E		110' FNL	2,314' FWL	32.551072	-103.669329	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	INFILL	Gavilon 603H	N	C

Order Numbers. R-20451 (30-025-47862)
Well setbacks are under Common Ownership: Yes ☒ No

Operator has been notified.

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	20 S	33 E		50' FSL	2,314' FWL	32.522485	-103.669317	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	20 S	33 E		100' FSL	2,314' FWL	32.522623	-103.669317	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	20 S	33 E		110' FNL	2,314' FWL	32.551072	-103.669329	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
BLM CA# NMNM 105793439	☒ Horizontal ☐ Vertical	3,659' KB

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.

Debbie Creed 11/13/2025

Signature Date

Debbie Creed

Printed Name

debbie.creed@matadorresources.com

Email Address

SURVEYOR CERTIFICATIONS

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

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

25 Sept 2025

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number: TIM C. PAPPAS 21209

Date of Survey: 07/28/2025

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

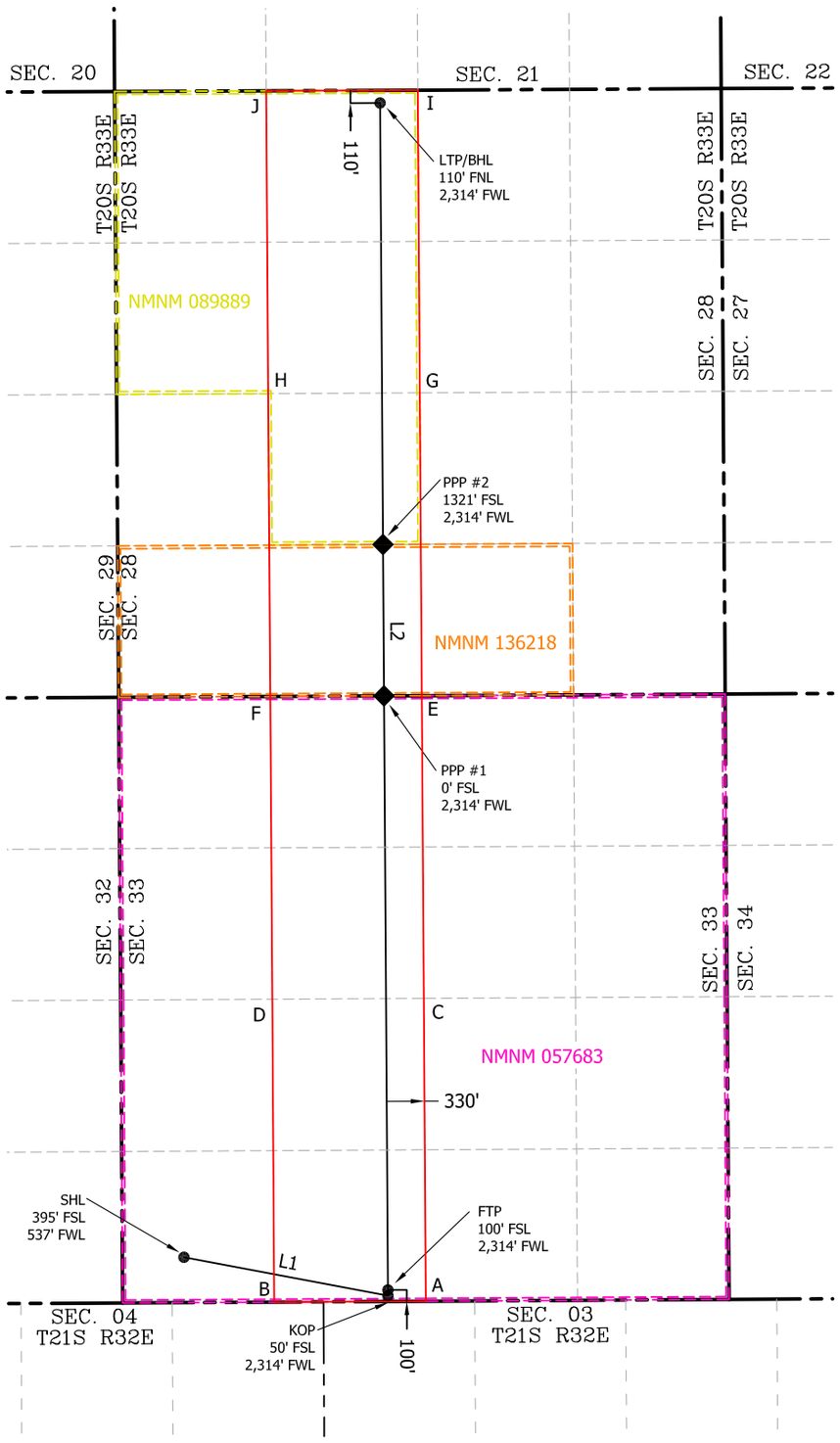
FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street – Columbus, TX 78934
Ph: 817.349.9800 – Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net
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DATE:	07/28/2025	PROJECT NO:	2025070210
DRAWN BY:	WL	SCALE:	
CHECKED BY:	KC	SHEET:	1 OF 2
FIELD CREW:	SL/ZK	REVISION:	1

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



COORDINATE TABLE					
SHL (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	554,783.6	N	Y =	554,498.5	N
X =	744,221.6	E	X =	746,000.6	E
LAT. =	32.523437	°N	LAT. =	32.522623	°N
LONG. =	103.675083	°W	LONG. =	103.669317	°W
KOP (NAD 83 NME)			LTP/BHL (NAD 83 NME)		
Y =	554,448.5	N	Y =	564,848.6	N
X =	746,000.9	E	X =	745,932.2	E
LAT. =	32.522485	°N	LAT. =	32.551072	°N
LONG. =	103.669317	°W	LONG. =	103.669329	°W
SHL (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	554,722.4	N	Y =	554,437.3	N
X =	703,040.8	E	X =	704,819.8	E
LAT. =	32.523316	°N	LAT. =	32.522502	°N
LONG. =	103.674589	°W	LONG. =	103.668824	°W
KOP (NAD 27 NME)			LTP/BHL (NAD 27 NME)		
Y =	554,387.3	N	Y =	564,787.3	N
X =	704,820.1	E	X =	704,751.7	E
LAT. =	32.522365	°N	LAT. =	32.550952	°N
LONG. =	103.668823	°W	LONG. =	103.668835	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	559,678.4	N	Y =	559,617.1	N
X =	745,996.4	E	X =	704,815.7	E
LAT. =	32.536861	°N	LAT. =	32.536740	°N
LONG. =	103.669323	°W	LONG. =	103.668732	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	560,998.8	N	Y =	560,937.5	N
X =	745,957.7	E	X =	704,777.0	E
LAT. =	32.540490	°N	LAT. =	32.540370	°N
LONG. =	103.669325	°W	LONG. =	103.668831	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	554,400.4	N	A - X =	746,331.3	E
B - Y =	554,392.9	N	B - X =	745,009.1	E
C - Y =	557,040.9	N	C - X =	746,313.9	E
D - Y =	557,033.6	N	D - X =	744,991.8	E
E - Y =	559,680.1	N	E - X =	746,296.6	E
F - Y =	559,673.0	N	F - X =	744,974.3	E
G - Y =	562,320.8	N	G - X =	746,279.0	E
H - Y =	562,314.0	N	H - X =	744,956.6	E
I - Y =	564,960.1	N	I - X =	746,261.5	E
J - Y =	564,954.2	N	J - X =	744,938.9	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	554,339.2	N	A - X =	705,150.4	E
B - Y =	554,331.7	N	B - X =	703,828.3	E
C - Y =	556,979.7	N	C - X =	705,133.2	E
D - Y =	556,972.4	N	D - X =	703,811.1	E
E - Y =	559,618.9	N	E - X =	705,115.9	E
F - Y =	559,611.7	N	F - X =	703,793.7	E
G - Y =	562,259.5	N	G - X =	705,098.5	E
H - Y =	562,252.7	N	H - X =	703,776.1	E
I - Y =	564,898.7	N	I - X =	705,081.0	E
J - Y =	564,892.8	N	J - X =	703,758.5	E

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	100° 39'49"	1,810.64'
L2	359° 37'17"	10,400.32'

FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street – Columbus, TX 78934
Ph: 817.349.9800 – Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net
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DATE:	07/28/2025	PROJECT NO:	2025070210
DRAWN BY:	WL	SCALE:	1" = 1500'
CHECKED BY:	KC	SHEET:	2 OF 2
FIELD CREW:	SL/ZK	REVISION:	1

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 8/6/2025

II. Type: ☒Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Gavilon Fed Com 101H	30-025	UL-M Sec 33 T20S R33E	425' FSL 507' FWL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 102H	30-025	UL-M Sec 33 T20S R33E	425' FSL 537' FWL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 103H	30-025	UL-O Sec 33 T20S R33E	515' FSL 1879' FEL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 105H	30-025	UL-M Sec 33 T20S R33E	395' FSL 507' FWL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 106H	30-025	UL-M Sec 33 T20S R33E	395' FSL 537' FWL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 107H	30-025	UL-O Sec 33 T20S R33E	515' FSL 1849' FEL	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 241H	30-025	UL-M Sec 33 T20S R33E	315' FSL 507' FWL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 242H	30-025	UL-M Sec 33 T20S R33E	315' FSL 537' FWL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 243H	30-025	UL-O Sec 33 T20S R33E	485' FSL 1879' FEL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 244H	30-025	UL-O Sec 33 T20S R33E	485' FSL 1849' FEL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 231H	30-025	UL-M Sec 33 T20S R33E	285' FSL 507' FWL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 232H	30-025	UL-M Sec 33 T20S R33E	285' FSL 537' FWL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 233H	30-025	UL-O Sec 33 T20S R33E	405' FSL 1879' FEL	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 234H	30-025	UL-O Sec 33 T20S R33E	405' FSL 1849' FEL	800 BOPD	1800 MCFD	2100 BWPD

IV. Central Delivery Point Name: Gavilon TB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Gavilon Fed Com 101H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 102H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 103H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 105H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 106H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 107H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 241H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 242H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 243H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 244H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 231H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 232H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 233H	30-025	TBD	TBD	TBD	TBD	TBD
Gavilon Fed Com 234H	30-025	TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Released to Imaging: 8/21/2026 8:53:16 AM

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐does ☐does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:
☒Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Mark Gonzales
Title: Facilities Engineer
E-mail Address: mark.gonzales@matadorresources.com
Date: 8/6/2025
Phone: (915) 240-3468
OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's

Gavilon Fed Com 101H, 102H, 103H, 105H, 106H, 107H, 241H, 242H, 243H, 244H, 231H, 232H, 233H, and 234H

VI. Separation Equipment

Flow from each well will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates for each well can be seen in the table below. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Gavilon Fed Com 101H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 102H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 103H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 105H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 106H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 107H	900 BOPD	1400 MCFD	1600 BWPD
Gavilon Fed Com 241H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 242H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 243H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 244H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 231H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 232H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 233H	800 BOPD	1800 MCFD	2100 BWPD
Gavilon Fed Com 234H	800 BOPD	1800 MCFD	2100 BWPD

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to

perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33
BHL: 110' FNL & 2314' FWL Section 28
Township/Range: 20S 33E
Elevation Above Sea Level: 3659

Drilling Operation Plan

Proposed Drilling Depth: 19283' MD / 8850' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.522485 N / -103.669317 W
TD Lat/Long (NAD83): 32.551072 N / -103.669329 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,593	1,593	313	Anhydrite	Barren
Salado (Top of Salt)	1,906	1,906	1,697	Salt	Barren
Lamar (Base of Salt)	3,603	3,603	269	Salt	Barren
Capitan	3,872	3,872	1,427	Limestone	Barren
Bell Canyon	5,299	5,299	1,718	Sandstone	Oil/Natural Gas
Brushy Canyon	7,206	7,017	1,514	Sandstone	Oil/Natural Gas
KOP	**8,334**	**8,130**	**-**	**Sandstone**	**Oil/Natural Gas**
Bone Spring Lime	8,761	8,531	1,046	Limestone	Oil/Natural Gas
Avalon Shale	10,235	8,848	729	Shale	Oil/Natural Gas
TD	**19,283**	**8,850**	**-**	**Shale**	**Oil/Natural Gas**
1st Bone Spring Sand	-	9,577	-	Sandstone	Oil/Natural Gas

2. Notable Zones

Avalon 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 120'.

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 requests a variance for the use of a diverter along with a 2000-psi annular to be installed after running 16” casing.

Matador requests the option to cut off 20” SOW wellhead and run 13-3/8” SOW multi-bowl wellhead system once 1st intermediate string is run and cemented. Both wellhead designs are attached for review.

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 - 1663	0 - 1663	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 3703	0 - 3703	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5349	0 - 5349	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 19283	0 - 8850	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- All applicable R-111-Q regulations will be adhered to
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for .
- Request option to drill 6.75" production hole from KOP to TD, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for the 8-5/8" casing and 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.

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

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	860	1.72	1478	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.38	381	14.8	50%	1330	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1713'	Stg 2 Tail	230	1.78	406	13.5	10%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Lead	470	1.84	858	12.5	50%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Tail	170	1.33	231	14.8	50%	2962	C	10% NaCl + 1% MgO + LCM
Intermediate 2 w/ DV @ 3753'	Stg 2 Tail	280	1.78	504	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	280	3.66	1022	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	120	1.38	170	13.2	35%	4349	A/C	5% NaCl + LCM
Production	Lead	50	3.66	175	12.5	0%	6349	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1530	1.35	2070	13.2	0%	7334	A/C	Fluid Loss + Dispersant + Retarder

Post-Completion Cement Design - Bradenhead Squeeze

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Production	Stg 2 Tail	120	3.66	440	12.5	25%	4849	A/C	Fluid Loss + Dispersant + Retarder
	Stg 1 Lead	50	3.66	175	12.5	0%	6349	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	1530	1.35	2070	13.2	0%	7334	A/C	Fluid Loss + Dispersant + Retarder

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

As per R-111-Q.(C).(5).(c), the annulus between int. 2 and production casing will be monitored and designed to relieve pressure from annulus below the failure threshold.

5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1663	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	1663 - 3703	9.8 - 10.4	28-30	NC
Intermediate 2	9.875	Fresh Water	3703 - 5349	8.6 - 9.2	28-30	NC
Production	7.875	OBM/Cut Brine	5349 - 19283	9 - 9.6	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 4418 psi. Maximum anticipated surface pressure is 2471 psi. Expected bottom hole temperature is 165 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.

Casing Table Specification Sheet

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33
BHL: 110' FNL & 2314' FWL Section 28
Township/Range: 20S 33E
Elevation Above Sea Level: 3659

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 - 1663	0 - 1663	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 3703	0 - 3703	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5349	0 - 5349	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 19283	0 - 8850	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Matador Production Company

Casing Design Criteria and Load Case Assumptions

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

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 Title 43 CFR 3172 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: $DF_b = 1.125$

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

Tensile: $DF_f = 1.8$

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.

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.

Casing Specs - 5.5" 20lb Hunting TLW-SC

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**



TEC-LOCK WEDGE

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

Pipe Body Data

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

Connection Data

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

Operational Data

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

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

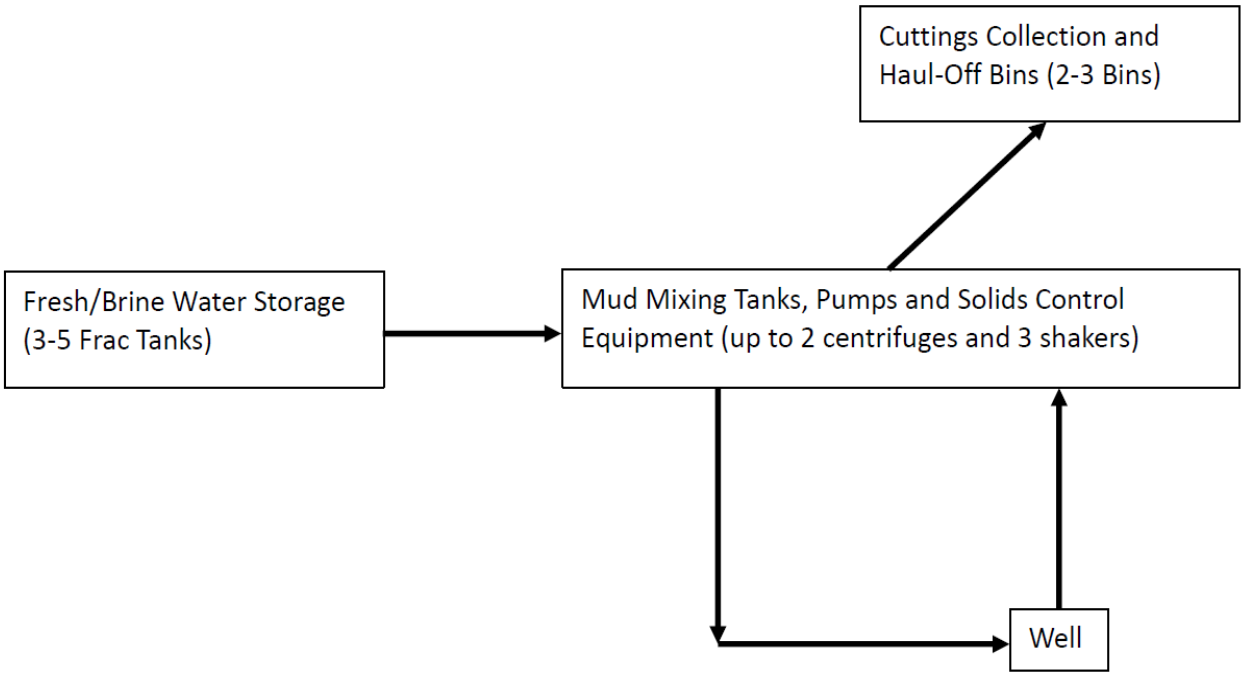
HUNTING

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Closed-Loop System

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

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.

Matador Production Company

Ranger/Arrowhead
Gavilon
Gavilon Fed Com #106H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

06 August, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project Ranger/Arrowhead

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

Site Gavilon

Site Position:		**Northing:**	554,458.88 usft	**Latitude:**	32° 31' 21.313 N
From:	Lat/Long	**Easting:**	703,322.35 usft	**Longitude:**	103° 40' 25.252 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.35 °

Well Gavilon Fed Com #106H

Well Position	**+N/-S**	263.5 usft	**Northing:**	554,722.36 usft	**Latitude:**	32° 31' 23.938 N
	+E/-W	-281.5 usft	**Easting:**	703,040.84 usft	**Longitude:**	103° 40' 28.520 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,659.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	6.20	60.22	47,325.53496501

Design BLM Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.62

Plan Survey Tool Program **Date** 8/6/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,282.7	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,875.0	0.00	0.00	3,875.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,992.8	22.36	106.12	4,964.6	-59.8	206.9	2.00	2.00	0.00	106.12	
6,844.5	22.36	106.12	6,677.1	-255.3	883.5	0.00	0.00	0.00	0.00	
8,334.8	0.00	0.00	8,130.0	-335.1	1,159.3	1.50	-1.50	0.00	180.00	KOP - Gavilon Fed Cc
9,459.8	90.00	29.85	8,846.2	286.1	1,515.7	8.00	8.00	0.00	29.85	
10,467.5	89.66	359.62	8,849.2	1,249.4	1,769.1	3.00	-0.03	-3.00	-90.67	BHL - Gavilon Fed Co
10,484.0	90.00	359.62	8,849.3	1,265.9	1,769.0	2.00	2.00	0.00	0.00	
19,283.3	90.00	359.62	8,850.0	10,064.9	1,710.9	0.00	0.00	0.00	0.00	BHL - Gavilon Fed Co

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,593.0	0.00	0.00	1,593.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,906.0	0.00	0.00	1,906.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,603.0	0.00	0.00	3,603.0	0.0	0.0	0.0	0.00	0.00	0.00
G30:CS14-CSB (Lamar/Tansil)									
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,872.0	0.00	0.00	3,872.0	0.0	0.0	0.0	0.00	0.00	0.00
Capitan									
3,875.0	0.00	0.00	3,875.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
3,900.0	0.50	106.12	3,900.0	0.0	0.1	0.0	2.00	2.00	0.00
4,000.0	2.50	106.12	4,000.0	-0.8	2.6	-0.8	2.00	2.00	0.00
4,100.0	4.50	106.12	4,099.8	-2.5	8.5	-2.5	2.00	2.00	0.00
4,200.0	6.50	106.12	4,199.3	-5.1	17.7	-5.2	2.00	2.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.0	8.50	106.12	4,298.4	-8.7	30.2	-8.9	2.00	2.00	0.00
4,400.0	10.50	106.12	4,397.1	-13.3	46.1	-13.6	2.00	2.00	0.00
4,500.0	12.50	106.12	4,495.1	-18.9	65.2	-19.3	2.00	2.00	0.00
4,600.0	14.50	106.12	4,592.3	-25.3	87.7	-25.9	2.00	2.00	0.00
4,700.0	16.50	106.12	4,688.6	-32.8	113.3	-33.5	2.00	2.00	0.00
4,800.0	18.50	106.12	4,784.0	-41.1	142.2	-42.0	2.00	2.00	0.00
4,900.0	20.50	106.12	4,878.3	-50.4	174.3	-51.5	2.00	2.00	0.00
4,992.8	22.36	106.12	4,964.6	-59.8	206.9	-61.2	2.00	2.00	0.00
Start 1851.7 hold at 4992.8 MD									
5,000.0	22.36	106.12	4,971.3	-60.5	209.5	-61.9	0.00	0.00	0.00
5,100.0	22.36	106.12	5,063.8	-71.1	246.0	-72.7	0.00	0.00	0.00
5,200.0	22.36	106.12	5,156.3	-81.7	282.6	-83.5	0.00	0.00	0.00
5,300.0	22.36	106.12	5,248.8	-92.2	319.1	-94.3	0.00	0.00	0.00
5,354.3	22.36	106.12	5,299.0	-98.0	339.0	-100.2	0.00	0.00	0.00
G25: Bell Cyn									
5,400.0	22.36	106.12	5,341.2	-102.8	355.6	-105.1	0.00	0.00	0.00
5,500.0	22.36	106.12	5,433.7	-113.4	392.2	-116.0	0.00	0.00	0.00
5,600.0	22.36	106.12	5,526.2	-123.9	428.7	-126.8	0.00	0.00	0.00
5,700.0	22.36	106.12	5,618.7	-134.5	465.3	-137.6	0.00	0.00	0.00
5,800.0	22.36	106.12	5,711.2	-145.0	501.8	-148.4	0.00	0.00	0.00
5,878.7	22.36	106.12	5,784.0	-153.4	530.6	-156.9	0.00	0.00	0.00
G13: Cherry Cyn.									
5,900.0	22.36	106.12	5,803.7	-155.6	538.3	-159.2	0.00	0.00	0.00
6,000.0	22.36	106.12	5,896.2	-166.2	574.9	-170.0	0.00	0.00	0.00
6,100.0	22.36	106.12	5,988.6	-176.7	611.4	-180.8	0.00	0.00	0.00
6,200.0	22.36	106.12	6,081.1	-187.3	648.0	-191.6	0.00	0.00	0.00
6,300.0	22.36	106.12	6,173.6	-197.8	684.5	-202.4	0.00	0.00	0.00
6,400.0	22.36	106.12	6,266.1	-208.4	721.0	-213.2	0.00	0.00	0.00
6,500.0	22.36	106.12	6,358.6	-219.0	757.6	-224.0	0.00	0.00	0.00
6,600.0	22.36	106.12	6,451.1	-229.5	794.1	-234.8	0.00	0.00	0.00
6,700.0	22.36	106.12	6,543.5	-240.1	830.7	-245.6	0.00	0.00	0.00
6,800.0	22.36	106.12	6,636.0	-250.6	867.2	-256.4	0.00	0.00	0.00
6,844.5	22.36	106.12	6,677.1	-255.3	883.5	-261.2	0.00	0.00	0.00
Start Drop -1.50									
6,900.0	21.52	106.12	6,728.7	-261.1	903.4	-267.1	1.50	-1.50	0.00
7,000.0	20.02	106.12	6,822.2	-271.0	937.5	-277.2	1.50	-1.50	0.00
7,100.0	18.52	106.12	6,916.5	-280.1	969.2	-286.5	1.50	-1.50	0.00
7,200.0	17.02	106.12	7,011.8	-288.6	998.5	-295.2	1.50	-1.50	0.00
7,205.5	16.94	106.12	7,017.0	-289.0	1,000.0	-295.7	1.50	-1.50	0.00
G7: Brushy Cyn.									
7,300.0	15.52	106.12	7,107.8	-296.4	1,025.4	-303.2	1.50	-1.50	0.00
7,400.0	14.02	106.12	7,204.5	-303.4	1,049.9	-310.4	1.50	-1.50	0.00
7,500.0	12.52	106.12	7,301.8	-309.8	1,072.0	-316.9	1.50	-1.50	0.00
7,600.0	11.02	106.12	7,399.7	-315.5	1,091.6	-322.7	1.50	-1.50	0.00
7,700.0	9.52	106.12	7,498.1	-320.4	1,108.7	-327.8	1.50	-1.50	0.00
7,800.0	8.02	106.12	7,596.9	-324.7	1,123.3	-332.1	1.50	-1.50	0.00
7,900.0	6.52	106.12	7,696.1	-328.2	1,135.5	-335.7	1.50	-1.50	0.00
8,000.0	5.02	106.12	7,795.6	-331.0	1,145.2	-338.6	1.50	-1.50	0.00
8,100.0	3.52	106.12	7,895.3	-333.1	1,152.3	-340.7	1.50	-1.50	0.00
8,200.0	2.02	106.12	7,995.2	-334.4	1,157.0	-342.1	1.50	-1.50	0.00
8,300.0	0.52	106.12	8,095.2	-335.0	1,159.1	-342.7	1.50	-1.50	0.00
8,334.8	0.00	0.00	8,130.0	-335.1	1,159.3	-342.7	1.50	-1.50	0.00
Start Build 8.00 - KOP - Gavilon Fed Com #106H									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.0	5.21	29.85	8,195.1	-332.5	1,160.7	-340.2	8.00	8.00	0.00
8,448.3	9.08	29.85	8,243.0	-327.3	1,163.7	-335.0	8.00	8.00	0.00
G5: L. Brushy Cyn.									
8,500.0	13.21	29.85	8,293.7	-318.6	1,168.7	-326.4	8.00	8.00	0.00
8,600.0	21.21	29.85	8,389.1	-293.0	1,183.4	-300.8	8.00	8.00	0.00
8,624.0	23.13	29.85	8,411.4	-285.1	1,187.9	-293.0	8.00	8.00	0.00
FTP - Gavilon Fed Com #106H									
8,700.0	29.21	29.85	8,479.5	-256.1	1,204.6	-264.0	8.00	8.00	0.00
8,760.5	34.05	29.85	8,531.0	-228.6	1,220.4	-236.6	8.00	8.00	0.00
G4: BSGL (CS9)									
8,800.0	37.21	29.85	8,563.1	-208.6	1,231.8	-216.7	8.00	8.00	0.00
8,900.0	45.21	29.85	8,638.3	-151.5	1,264.6	-159.9	8.00	8.00	0.00
9,000.0	53.21	29.85	8,703.6	-85.9	1,302.3	-94.5	8.00	8.00	0.00
9,100.0	61.21	29.85	8,757.7	-13.0	1,344.1	-21.9	8.00	8.00	0.00
9,200.0	69.21	29.85	8,799.6	65.7	1,389.2	56.4	8.00	8.00	0.00
9,300.0	77.21	29.85	8,828.4	148.6	1,436.8	139.1	8.00	8.00	0.00
9,400.0	85.21	29.85	8,843.7	234.3	1,486.0	224.4	8.00	8.00	0.00
9,459.8	90.00	29.85	8,846.2	286.1	1,515.7	276.1	8.00	8.00	0.00
Start DLS 3.00 TFO -90.67									
9,500.0	89.99	28.65	8,846.2	321.2	1,535.3	311.0	3.00	-0.03	-3.00
9,600.0	89.95	25.65	8,846.3	410.1	1,581.0	399.6	3.00	-0.03	-3.00
9,700.0	89.92	22.65	8,846.4	501.4	1,621.9	490.6	3.00	-0.03	-3.00
9,800.0	89.88	19.65	8,846.5	594.6	1,657.9	583.6	3.00	-0.03	-3.00
9,900.0	89.85	16.65	8,846.8	689.6	1,689.1	678.4	3.00	-0.03	-3.00
10,000.0	89.81	13.65	8,847.1	786.2	1,715.2	774.8	3.00	-0.03	-3.00
10,100.0	89.78	10.65	8,847.4	883.9	1,736.2	872.4	3.00	-0.03	-3.00
10,200.0	89.75	7.65	8,847.8	982.6	1,752.1	971.0	3.00	-0.03	-3.00
10,234.9	89.74	6.60	8,848.0	1,017.2	1,756.5	1,005.6	3.00	-0.03	-3.00
L8.2: U. Avalon Shale									
10,300.0	89.72	4.65	8,848.3	1,082.0	1,762.8	1,070.3	3.00	-0.03	-3.00
10,400.0	89.69	1.65	8,848.8	1,181.9	1,768.3	1,170.1	3.00	-0.03	-3.00
10,467.5	89.66	359.62	8,849.2	1,249.4	1,769.1	1,237.6	3.00	-0.03	-3.00
Start DLS 2.00 TFO 0.00									
10,484.0	90.00	359.62	8,849.3	1,265.9	1,769.0	1,254.1	2.00	2.00	0.00
Start 8799.2 hold at 10484.0 MD									
10,500.0	90.00	359.62	8,849.3	1,281.9	1,768.9	1,270.1	0.00	0.00	0.00
10,600.0	90.00	359.62	8,849.3	1,381.9	1,768.2	1,370.1	0.00	0.00	0.00
10,700.0	90.00	359.62	8,849.3	1,481.9	1,767.5	1,470.1	0.00	0.00	0.00
10,800.0	90.00	359.62	8,849.3	1,581.9	1,766.9	1,570.1	0.00	0.00	0.00
10,900.0	90.00	359.62	8,849.3	1,681.9	1,766.2	1,670.1	0.00	0.00	0.00
11,000.0	90.00	359.62	8,849.3	1,781.9	1,765.6	1,770.1	0.00	0.00	0.00
11,100.0	90.00	359.62	8,849.3	1,881.8	1,764.9	1,870.1	0.00	0.00	0.00
11,200.0	90.00	359.62	8,849.3	1,981.8	1,764.2	1,970.1	0.00	0.00	0.00
11,300.0	90.00	359.62	8,849.3	2,081.8	1,763.6	2,070.1	0.00	0.00	0.00
11,400.0	90.00	359.62	8,849.3	2,181.8	1,762.9	2,170.1	0.00	0.00	0.00
11,500.0	90.00	359.62	8,849.3	2,281.8	1,762.3	2,270.1	0.00	0.00	0.00
11,600.0	90.00	359.62	8,849.4	2,381.8	1,761.6	2,370.1	0.00	0.00	0.00
11,700.0	90.00	359.62	8,849.4	2,481.8	1,760.9	2,470.1	0.00	0.00	0.00
11,800.0	90.00	359.62	8,849.4	2,581.8	1,760.3	2,570.1	0.00	0.00	0.00
11,900.0	90.00	359.62	8,849.4	2,681.8	1,759.6	2,670.1	0.00	0.00	0.00
12,000.0	90.00	359.62	8,849.4	2,781.8	1,759.0	2,770.1	0.00	0.00	0.00
12,100.0	90.00	359.62	8,849.4	2,881.8	1,758.3	2,870.1	0.00	0.00	0.00
12,200.0	90.00	359.62	8,849.4	2,981.8	1,757.6	2,970.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	90.00	359.62	8,849.4	3,081.8	1,757.0	3,070.1	0.00	0.00	0.00
12,400.0	90.00	359.62	8,849.4	3,181.8	1,756.3	3,170.1	0.00	0.00	0.00
12,500.0	90.00	359.62	8,849.4	3,281.8	1,755.7	3,270.1	0.00	0.00	0.00
12,600.0	90.00	359.62	8,849.4	3,381.8	1,755.0	3,370.1	0.00	0.00	0.00
12,700.0	90.00	359.62	8,849.4	3,481.8	1,754.3	3,470.1	0.00	0.00	0.00
12,800.0	90.00	359.62	8,849.5	3,581.8	1,753.7	3,570.1	0.00	0.00	0.00
12,900.0	90.00	359.62	8,849.5	3,681.8	1,753.0	3,670.1	0.00	0.00	0.00
13,000.0	90.00	359.62	8,849.5	3,781.8	1,752.4	3,770.1	0.00	0.00	0.00
13,100.0	90.00	359.62	8,849.5	3,881.8	1,751.7	3,870.1	0.00	0.00	0.00
13,200.0	90.00	359.62	8,849.5	3,981.8	1,751.0	3,970.1	0.00	0.00	0.00
13,300.0	90.00	359.62	8,849.5	4,081.8	1,750.4	4,070.1	0.00	0.00	0.00
13,400.0	90.00	359.62	8,849.5	4,181.8	1,749.7	4,170.1	0.00	0.00	0.00
13,500.0	90.00	359.62	8,849.5	4,281.8	1,749.1	4,270.1	0.00	0.00	0.00
13,600.0	90.00	359.62	8,849.5	4,381.8	1,748.4	4,370.1	0.00	0.00	0.00
13,700.0	90.00	359.62	8,849.5	4,481.8	1,747.7	4,470.1	0.00	0.00	0.00
13,800.0	90.00	359.62	8,849.5	4,581.8	1,747.1	4,570.1	0.00	0.00	0.00
13,900.0	90.00	359.62	8,849.6	4,681.8	1,746.4	4,670.1	0.00	0.00	0.00
14,000.0	90.00	359.62	8,849.6	4,781.8	1,745.8	4,770.1	0.00	0.00	0.00
14,100.0	90.00	359.62	8,849.6	4,881.8	1,745.1	4,870.1	0.00	0.00	0.00
14,112.9	90.00	359.62	8,849.6	4,894.7	1,745.0	4,883.0	0.00	0.00	0.00
BPP1 - Gavilon Fed Com #106H									
14,200.0	90.00	359.62	8,849.6	4,981.8	1,744.4	4,970.1	0.00	0.00	0.00
14,300.0	90.00	359.62	8,849.6	5,081.8	1,743.8	5,070.1	0.00	0.00	0.00
14,400.0	90.00	359.62	8,849.6	5,181.8	1,743.1	5,170.1	0.00	0.00	0.00
14,500.0	90.00	359.62	8,849.6	5,281.8	1,742.4	5,270.1	0.00	0.00	0.00
14,600.0	90.00	359.62	8,849.6	5,381.8	1,741.8	5,370.1	0.00	0.00	0.00
14,700.0	90.00	359.62	8,849.6	5,481.8	1,741.1	5,470.1	0.00	0.00	0.00
14,800.0	90.00	359.62	8,849.6	5,581.8	1,740.5	5,570.1	0.00	0.00	0.00
14,900.0	90.00	359.62	8,849.6	5,681.8	1,739.8	5,670.1	0.00	0.00	0.00
15,000.0	90.00	359.62	8,849.6	5,781.8	1,739.1	5,770.1	0.00	0.00	0.00
15,100.0	90.00	359.62	8,849.7	5,881.8	1,738.5	5,870.1	0.00	0.00	0.00
15,200.0	90.00	359.62	8,849.7	5,981.8	1,737.8	5,970.1	0.00	0.00	0.00
15,300.0	90.00	359.62	8,849.7	6,081.8	1,737.2	6,070.1	0.00	0.00	0.00
15,400.0	90.00	359.62	8,849.7	6,181.8	1,736.5	6,170.1	0.00	0.00	0.00
15,433.2	90.00	359.62	8,849.7	6,215.0	1,736.3	6,203.3	0.00	0.00	0.00
BPP2 - Gavilon Fed Com #106H									
15,500.0	90.00	359.62	8,849.7	6,281.8	1,735.8	6,270.1	0.00	0.00	0.00
15,600.0	90.00	359.62	8,849.7	6,381.8	1,735.2	6,370.1	0.00	0.00	0.00
15,700.0	90.00	359.62	8,849.7	6,481.7	1,734.5	6,470.1	0.00	0.00	0.00
15,800.0	90.00	359.62	8,849.7	6,581.7	1,733.9	6,570.1	0.00	0.00	0.00
15,900.0	90.00	359.62	8,849.7	6,681.7	1,733.2	6,670.1	0.00	0.00	0.00
16,000.0	90.00	359.62	8,849.7	6,781.7	1,732.5	6,770.1	0.00	0.00	0.00
16,100.0	90.00	359.62	8,849.7	6,881.7	1,731.9	6,870.1	0.00	0.00	0.00
16,200.0	90.00	359.62	8,849.7	6,981.7	1,731.2	6,970.1	0.00	0.00	0.00
16,300.0	90.00	359.62	8,849.8	7,081.7	1,730.6	7,070.1	0.00	0.00	0.00
16,400.0	90.00	359.62	8,849.8	7,181.7	1,729.9	7,170.1	0.00	0.00	0.00
16,500.0	90.00	359.62	8,849.8	7,281.7	1,729.2	7,270.1	0.00	0.00	0.00
16,600.0	90.00	359.62	8,849.8	7,381.7	1,728.6	7,370.1	0.00	0.00	0.00
16,700.0	90.00	359.62	8,849.8	7,481.7	1,727.9	7,470.1	0.00	0.00	0.00
16,800.0	90.00	359.62	8,849.8	7,581.7	1,727.3	7,570.1	0.00	0.00	0.00
16,900.0	90.00	359.62	8,849.8	7,681.7	1,726.6	7,670.1	0.00	0.00	0.00
17,000.0	90.00	359.62	8,849.8	7,781.7	1,725.9	7,770.1	0.00	0.00	0.00
17,100.0	90.00	359.62	8,849.8	7,881.7	1,725.3	7,870.1	0.00	0.00	0.00
17,200.0	90.00	359.62	8,849.8	7,981.7	1,724.6	7,970.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,300.0	90.00	359.62	8,849.8	8,081.7	1,724.0	8,070.1	0.00	0.00	0.00
17,400.0	90.00	359.62	8,849.8	8,181.7	1,723.3	8,170.1	0.00	0.00	0.00
17,500.0	90.00	359.62	8,849.9	8,281.7	1,722.6	8,270.1	0.00	0.00	0.00
17,600.0	90.00	359.62	8,849.9	8,381.7	1,722.0	8,370.1	0.00	0.00	0.00
17,700.0	90.00	359.62	8,849.9	8,481.7	1,721.3	8,470.1	0.00	0.00	0.00
17,800.0	90.00	359.62	8,849.9	8,581.7	1,720.7	8,570.1	0.00	0.00	0.00
17,900.0	90.00	359.62	8,849.9	8,681.7	1,720.0	8,670.1	0.00	0.00	0.00
18,000.0	90.00	359.62	8,849.9	8,781.7	1,719.3	8,770.1	0.00	0.00	0.00
18,100.0	90.00	359.62	8,849.9	8,881.7	1,718.7	8,870.1	0.00	0.00	0.00
18,200.0	90.00	359.62	8,849.9	8,981.7	1,718.0	8,970.1	0.00	0.00	0.00
18,300.0	90.00	359.62	8,849.9	9,081.7	1,717.4	9,070.1	0.00	0.00	0.00
18,400.0	90.00	359.62	8,849.9	9,181.7	1,716.7	9,170.1	0.00	0.00	0.00
18,500.0	90.00	359.62	8,849.9	9,281.7	1,716.0	9,270.1	0.00	0.00	0.00
18,600.0	90.00	359.62	8,849.9	9,381.7	1,715.4	9,370.1	0.00	0.00	0.00
18,700.0	90.00	359.62	8,850.0	9,481.7	1,714.7	9,470.1	0.00	0.00	0.00
18,800.0	90.00	359.62	8,850.0	9,581.7	1,714.0	9,570.1	0.00	0.00	0.00
18,900.0	90.00	359.62	8,850.0	9,681.7	1,713.4	9,670.1	0.00	0.00	0.00
19,000.0	90.00	359.62	8,850.0	9,781.7	1,712.7	9,770.1	0.00	0.00	0.00
19,100.0	90.00	359.62	8,850.0	9,881.7	1,712.1	9,870.1	0.00	0.00	0.00
19,200.0	90.00	359.62	8,850.0	9,981.7	1,711.4	9,970.1	0.00	0.00	0.00
19,283.3	90.00	359.62	8,850.0	10,064.9	1,710.9	10,053.4	0.00	0.00	0.00
TD at 19283.3 - BHL - Gavilon Fed Com #106H									

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 - Gavilon Fed Com - plan hits target center - Point	0.00	0.00	8,130.0	-335.1	1,159.3	554,387.30	704,200.10	32° 31' 20.551 N	103° 40' 15.006 W
FTP - Gavilon Fed Com - plan hits target center - Point	0.00	0.00	8,411.4	-285.1	1,187.9	554,437.26	704,228.76	32° 31' 21.044 N	103° 40' 14.667 W
BPP1 - Gavilon Fed Con - plan hits target center - Point	0.00	0.00	8,849.6	4,894.7	1,745.0	559,617.06	704,785.84	32° 32' 12.265 N	103° 40' 7.784 W
BPP2 - Gavilon Fed Con - plan hits target center - Point	0.00	0.00	8,849.7	6,215.0	1,736.3	560,937.36	704,777.12	32° 32' 25.330 N	103° 40' 7.789 W
BHL - Gavilon Fed Com - plan hits target center - Point	0.00	0.00	8,850.0	10,064.9	1,710.9	564,787.30	704,751.70	32° 33' 3.427 N	103° 40' 7.806 W

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,593.0	1,593.0	Rustler		0.00	359.62
1,906.0	1,906.0	Salado		0.00	359.62
3,603.0	3,603.0	G30:CS14-CSB (Lamar/Tansil)		0.00	359.62
3,872.0	3,872.0	Capitan		0.00	359.62
5,354.3	5,299.0	G25: Bell Cyn		0.00	359.62
5,878.7	5,784.0	G13: Cherry Cyn.		0.00	359.62
7,205.5	7,017.0	G7: Brushy Cyn.		0.00	359.62
8,448.3	8,243.0	G5: L. Brushy Cyn.		0.00	359.62
8,760.5	8,531.0	G4: BSGL (CS9)		0.00	359.62
10,234.9	8,848.0	L8.2: U. Avalon Shale		0.00	359.62

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,875.0	3,875.0	0.0	0.0	Start Build 2.00
4,992.8	4,964.6	-59.8	206.9	Start 1851.7 hold at 4992.8 MD
6,844.5	6,677.1	-255.3	883.5	Start Drop -1.50
8,334.8	8,130.0	-335.1	1,159.3	Start Build 8.00
9,459.8	8,846.2	286.1	1,515.7	Start DLS 3.00 TFO -90.67
10,467.5	8,849.2	1,249.4	1,769.1	Start DLS 2.00 TFO 0.00
10,484.0	8,849.3	1,265.9	1,769.0	Start 8799.2 hold at 10484.0 MD
19,283.3	8,850.0	10,064.9	1,710.9	TD at 19283.3

Released to Imaging: 8/21/2026 8:53:16 AM

Matador Production Company

Ranger/Arrowhead
Gavilon
Gavilon Fed Com #106H

Wellbore #1
BLM Plan #1

Anticollision Summary Report

06 August, 2025

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Project:	Ranger/Arrowhead	**TVD Reference:**	KB @ 3687.5usft
Reference Site:	Gavilon	**MD Reference:**	KB @ 3687.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

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

Survey Tool Program **Date** 8/6/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,282.7	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Gavilon						
Gavilon Fed Com #101H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	42.5	15.2	1.555	CC
Gavilon Fed Com #101H - Wellbore #1 - BLM Plan #1	3,900.0	3,899.7	42.7	15.2	1.552	ES, SF
Gavilon Fed Com #102H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	29.8	2.5	1.092	Level 2, CC
Gavilon Fed Com #102H - Wellbore #1 - BLM Plan #1	3,900.0	3,900.0	29.9	2.4	1.086	Level 2, ES, SF
Gavilon Fed Com #103H - Wellbore #1 - BLM Plan #1	19,283.3	19,200.2	674.3	340.9	2.023	CC, ES, SF
Gavilon Fed Com #104H - Wellbore #1 - Wellbore #1	17,903.4	17,955.2	2,516.8	2,223.3	8.577	CC
Gavilon Fed Com #104H - Wellbore #1 - Wellbore #1	19,283.3	19,339.4	2,549.0	2,211.0	7.542	ES, SF
Gavilon Fed Com #105H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	30.2	2.9	1.106	Level 2, CC
Gavilon Fed Com #105H - Wellbore #1 - BLM Plan #1	3,900.0	3,900.0	30.3	2.8	1.102	Level 2, ES, SF
Gavilon Fed Com #107H - Wellbore #1 - BLM Plan #1	19,283.3	19,039.5	1,322.8	983.1	3.894	CC, ES, SF
Gavilon Fed Com #114H - Wellbore #1 - Actual	19,278.3	19,901.0	2,625.8	2,298.4	8.020	CC
Gavilon Fed Com #114H - Wellbore #1 - Actual	19,283.3	19,901.0	2,625.8	2,298.3	8.017	ES, SF
Gavilon Fed Com #124H - Wellbore #1 - Actual	9,833.5	8,757.6	2,771.4	2,702.5	40.196	CC, ES
Gavilon Fed Com #124H - Wellbore #1 - Actual	19,283.3	20,737.0	3,011.7	2,716.0	10.184	SF
Gavilon Fed Com #134H - Wellbore #1 - Actual	9,860.3	8,665.7	2,805.2	2,736.4	40.770	CC, ES
Gavilon Fed Com #134H - Wellbore #1 - Actual	19,283.3	21,511.3	3,530.9	3,264.8	13.271	SF
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	3,987.1	3,987.0	113.9	85.8	4.054	CC
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	4,000.0	4,000.0	113.9	85.7	4.041	ES
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	4,100.0	4,096.1	115.8	86.9	4.013	SF
Gavilon Fed Com #232H - Wellbore #1 - BLM Plan #1	4,971.4	4,964.1	93.7	58.4	2.656	CC
Gavilon Fed Com #232H - Wellbore #1 - BLM Plan #1	5,000.0	5,007.7	93.8	58.3	2.639	ES, SF
Gavilon Fed Com #233H - Wellbore #1 - BLM Plan #1	9,508.3	8,909.6	1,386.8	1,319.3	20.542	CC, ES
Gavilon Fed Com #233H - Wellbore #1 - BLM Plan #1	19,283.3	22,282.3	3,255.6	3,078.5	18.382	SF
Gavilon Fed Com #234H - Wellbore #1 - BLM Plan #1	9,729.4	8,621.1	2,018.4	1,950.8	29.883	CC, ES
Gavilon Fed Com #234H - Wellbore #1 - BLM Plan #1	19,283.3	22,268.9	3,754.3	3,529.9	16.730	SF
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	85.5	58.2	3.131	CC
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	4,000.0	4,000.0	85.8	57.6	3.043	ES
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	4,200.0	4,200.5	88.3	58.8	2.989	SF
Gavilon Fed Com #242H - Wellbore #1 - BLM Plan #1	4,926.0	4,924.9	37.1	2.8	1.080	Level 2, CC, ES, SF
Gavilon Fed Com #243H - Wellbore #1 - BLM Plan #1	9,548.1	8,887.1	1,511.0	1,443.5	22.381	CC, ES
Gavilon Fed Com #243H - Wellbore #1 - BLM Plan #1	19,283.3	22,502.9	3,683.7	3,488.1	18.839	SF
Gavilon Fed Com #244H - Wellbore #1 - BLM Plan #1	7,566.0	7,022.1	2,084.7	2,032.5	39.970	CC, ES
Gavilon Fed Com #244H - Wellbore #1 - BLM Plan #1	19,283.3	22,683.4	4,338.0	4,097.0	18.001	SF
Gavilon Fed Com #305H - Wellbore #1 - Actual	8,525.0	8,346.0	60.3	1.1	1.018	Level 2, CC
Gavilon Fed Com #305H - Wellbore #1 - Actual	8,550.0	8,369.5	60.8	0.9	1.016	Level 2, ES, SF
Gavilon Fed Com #306H - Wellbore #1 - Actual	6,577.7	6,505.2	63.6	11.9	1.229	Level 2, CC, ES, SF
Gavilon Fed Com #403H - Wellbore #1 - Actual	16,818.1	17,350.9	1,082.3	876.2	5.252	CC

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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	GAVILON FED COM 106H
APD ID:	10400108627
LOCATION:	Section 33, T20S, R33E. NMP.
COUNTY:	Lea County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☑ Open Annulus
	4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone)			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☑ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☑ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) Drilling Plan shall be activated at spud. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

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

B. CASING PROGRAM

1. The **13-3/8 inch** surface casing shall be set at approximately **1,663** ft. (a minimum of 70 feet into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered set casing at least 25 ft. above the salt.**
   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

Approval Date: 03/27/2026

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **10-3/4** inch 1st intermediate casing shall be set in a competent bed at approximately **3,703 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, and Potash.**

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

a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef, and Potash.** Excess cement for the 2nd stage is below %25. More cement might be needed.

3. The **8-5/8-inch** 2nd intermediate casing shall be set in a competent bed at approximately **5,349 ft.** The minimum required fill of cement behind the **8-5/8-inch** intermediate casing is:

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

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

a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef, and Potash.** Excess cement for the 2nd stage is below %25. More cement might be needed.

- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

4. Operator has proposed to set **5-1/2** inch production casing at approximately **19,283 ft.** (8,850 ft. TVD). The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Operator has proposed to cement the production casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.

  a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation.

  b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 2nd intermediate casing and below the Marker Bed 126.** If cement does not circulate, the appropriate BLM office shall be notified.

- ❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**

- ❖ Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.

- ❖ A monitored open annulus will be incorporated during completion by leaving the 2nd Intermediate Casing x Production Casing annulus un-cemented and monitored. Operator must follow **all** monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days.**

- ❖ **In the event of a casing failure during completion,** the operator must contact the BLM engineer at (575-706-2779) and inspection staff (575-393-3612 Lea County).

Note: Operator has requested the option to drill 6.75" production hole from KOP to TD. This option is granted. Adjust cement volume accordingly.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Lea County: 575-689-5981**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed to use a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, and Production Strings. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate casing shoe shall be **5000 (5M)** psi. The BOP/BOPE shall be tested in accordance with **title 43 CFR 3172.**

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

- The operator will submit an as-drilled survey well plat of the well completion, including but not limited to those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Lea County Petroleum Engineering Inspection Staff:
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
b. When the operator proposes to set surface casing with Spudder Rig
   i. Notify the BLM when moving in and removing the Spudder Rig.
   ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING & CEMENTING

1. The current acceptable methods of cement verification are as follows:
   i. Observing cement circulated to surface,
   ii. Cement Bond Log (CBL),
   iii. Temperature log within 8-10 hours after completing the cement job,
   iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
3. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

Approval Date: 03/27/2026

6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
9. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
   i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
   ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
   iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
   iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
   v. The results of the test shall be reported to the appropriate BLM office.
   vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
   vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
   viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate

casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

SA 02/09/2026

MRC ENERGY CO.'S

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
    - 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 E-1

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

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
11 Emergency Contacts

- See exhibit E-6

HYDROGEN SULFIDE CONTINGENCY PLAN
Drilling, Testing, & Completion

MRC ENERGY CO.

Reviewers

---------- Operations Manager
---------- Operations Supt.
---------- Staff RES
---------- Field Supt.
Blake Hermes---Engineering

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 H2S Contingency Plan Compliance**	**6**
	C.	**Drilling Below Contingency Plan Depth**	**7**
	D.	**Procedures program**	**7**
III.	**CONDITIONS & H_2S EMERGENCY PROCEDURES**		**10**
	A.	**Definition of Operational "Conditions"**	**10**
	B.	**H2S Emergency Procedures; In Scope Personnel**	**12**
	C.	**Instructions for Igniting the Well**	**16**
	D.	**Coring**	**17**
	E.	**Normal Operations**	**18**
IV.	**SAFETY EQUIPMENT**		**21**
V.	**TOXICITY OF VARIOUS GASES**		**23**
VI.	**PROPERTIES OF GASES**		**24**
VII.	**TREATMENT PROCEDURES FOR H2S POISONING**		**25**
VIII.	**BREATHING AIR EQUIPMENT DRILLS ON/OFF DUTY**		**26**
IX.	**HYDROGEN SULFIDE TRAINING CURRICULUM**		**27**
X.	**FIT TEST**		**29**
XI.	**H2S EQUIPMENT LIST**		**30**
XII.	**EMERGENCY PHONE NUMBERS**		**32**
XIII.	**EVACUATION OF GENERAL PUBLIC**		**37**
XIV.	**SEPCO EMERGENCY PHONE NUMBERS AND DIRECTIONS TO WELL SITE**		**38**
XV.	**ROE MAP (RADIUS OF EXPOSURE)**		**39**
XVI.	**RESIDENCE LIST WITHIN ROE**		**40**

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.

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_2S 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_2S 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_2S 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_2S 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_2S 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_2S 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_2S Safety Technician will be responsible for rigging up all H_2S 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_2S is detected, or when drilling in a zone confirmed to contain H_2S, 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_2S monitors and detectors. Knowledge of the location of the H_2S 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_2S 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

the Total Safety H_2S 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_2S 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_2S presence. The Total Safety H2S Safety Technician or designee will continuously monitor the detectors and will reactivate the alarm if H_2S concentrations increase to a dangerous level.

e. A method of escape will be open at all times.

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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_2S 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_2S 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_2S 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_2S 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_2S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL

A. Day To Day Drilling Operations

1. Upon discovering a release of H_2S 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_2S 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_2S 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_2S well prior to an emergency situation.

4. Help anyone who is overcome or affected by the H_2S 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_2S 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_2S 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_2S 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_2S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H_2S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gas-monitoring activities with the portable hand-operated H_2S 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_2S 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_2S Monitor is checked and verified with a portable H_2S 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_2S monitor is checked and verified with a portable H_2S 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_2S 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.

b. Take steps to determine the source of the H_2S and suppress it. Lime and H_2S scavenger shall be added to the mud as necessary.

4. Total H_2S 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_2S detector the alarm area indicated by the fixed H_2S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.

b. If H_2S is flared, check for sulfur dioxide (SO_2) 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_2S 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_2S) will convert to sulfur dioxide (SO_2), 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_2S Technician of expected date to reach Contingency Plan implementation depth (Two (2) days prior to reaching suspected H_2S bearing zone) or prior to starting well work.

2. Ensure H_2S 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_2S drills/training are performed, if possible.

B. Toolpusher

1. Ensure that necessary H_2S 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_2S 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_2S 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_2S 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_2S safety equipment to ensure that it is ready for emergency use:

   - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hip-packs) 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_2S 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_2S detectors.

   - Proper location and working order of H_2S 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

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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.

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V – TOXICITY OF VARIOUS GASES

Common Name	Chemical Formula	Specific Gravity[1]	PEL (OSHA)[2]	STEL[3]	Lethal ppm[4]
Hydrogen Cyanide	HCN	0.94	10	150	300
Hydrogen Sulfide	H_2S	1.18	20	Peak- 50ppm	600
Note: The ACGIH(7) recommends a TWA(6) value of 10ppm as the TLV(5) for H2S and an STEL of 15ppm.					
Sulfur Dioxide	SO_2	2.21	2	5 ppm	1000
Chlorine	CL_2	2.45	1		
Carbon Monoxide	CO	0.97	35	200/1 Hour	1000
Carbon Dioxide	CO_2	1.52	5000	5%	10%
Methane	CH_4	0.55	90000		

[1] **Air = 1.0**

[2] **Permissible -** Concentration at which is believed that all workers may repeatedly be exposed, day after day, without adverse effect.

[3] **STEL -** Short Term Exposure Limit. A 15-minute time weighted average.

[4] **Lethal -** Concentration that will cause death with short-term exposure.

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 bi-annual 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

VI. PROPERTIES OF GASES

A. CARBON DIOXIDE

1. Carbon Dioxide (CO_2) 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_2 without losing conscience or becoming disorientation in a few minutes. Continued exposure to CO_2 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_2S 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_2S.

CONCENTRATION			EFFECTS
% H_2S	PPM	GR/100 SCF[1]	
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.

[1] Grains per 100 Cubic Feet

VII. Treatment Procedures for Hydrogen Sulfide Poisoning

A. 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_2S 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_2) is a colorless, non-flammable, transparent gas.

2. SO_2 is produced during the burning of H_2S. Although SO_2 is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO_2 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_2:

CONCENTRATION		**EFFECTS**
% SO_2	**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_2S 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_2S 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_2S 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_2S 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_2S 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. EMPLOYEE INFORMATION

Employee Name: _____ Date: _____

Date of Employee Medical Evaluation: _____

Medical Status (circle): Unrestricted Limitations on Use Use Not Authorized

RESPIRATOR INFORMATIOIN

Respirator Type (Dustmask, SCBA, etc):_____

Brand:_____

Size: (circle): XS S M L XL

FIT TEST INFORMATION

Type of Fit Test Performed:

Quantitative

Porta Count	Fit Factor:_____
Fittester 3000	Fit Factor:_____

Qualitative

Irritant Smoke	Passed / Failed
Isoamyl Acetate (Banana Oil)	Passed / Failed
Saccharin	Passed / Failed
Bitrex	Passed / Failed

I hereby certify that this fittest was conducted in accordance with the OSHA Fit Testing Protocols found in Appendix A of 1910.134.

Fit Tester Name (Print):_____

Signature:_____ Date:_____

XI. H_2S SAFETY SERVICES

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

RESPIRATORY SAFETY SYSTEMS

QTY	DESCRIPTION
12	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
1	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

1	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
3	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

MRC ENERGY CO.'S

ADDITIONAL SAFETY RELATED EQUIPMENT

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

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

State Police (911)

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

Local Law Enforcement (911) (Sheriff)

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

MRC ENERGY CO.'S

Federal & State Agencies

OSHA Lubbock Area Office 1205 Texas Av. Room 806 Lubbock, Texas 79401	**Main Number**	**806-472-7681 EXT 7685**
New Mexico Environment Department 400 N Pennsylvania Roswell, NM 88201	**Joe Fresquez**	**575-623-3935**
Texas Railroad Commission Midland, Texas	**Main Number**	**844-773-0305**
BLM Carlsbad, NM Field Office 620 E. Green ST Carlsbad, NM 88220	**Main Number**	**575-234-5972**
BLM Hobbs Field Station 414 W. Taylor Rd. Hobbs, NM 88240	**Main Number**	**575-393-3612**
BLM Roswell District Office 2909 W. Second St. Roswell, NM 88201	**Main Number**	**575-627-0272**
TECQ Texas Commission on Environmental Quality	**Main Number**	**800-832-8224**
New Mexico OCD		
U.S. Environmental Protection Agency Region 6 Texas/New Mexico	**Main Number**	**214-655-2222**
National Response Center Toxic Chemicals & Oil Spills	**Main Number**	**800-424-8802**

Rig Company

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_2). Under certain conditions this gas may be equally as dangerous as H_2S. A pump type detector device, which determines the percent of SO_2 in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO_2 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.

MRC ENERGY CO.'S

Exhibit E-6: H2S Contingency Plan Emergency Contacts
Matador Resources Company

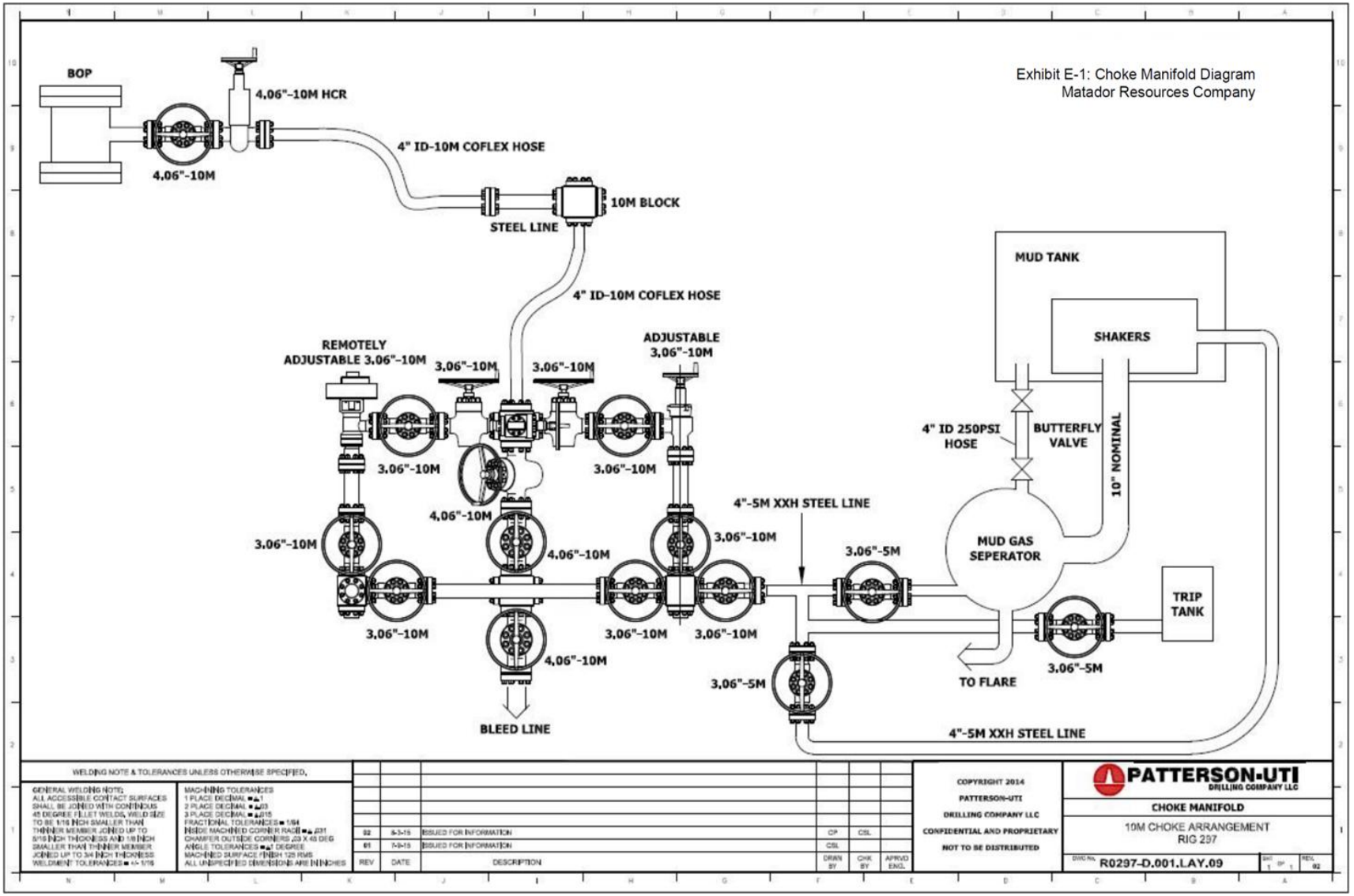
Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel			
Name	**Title**	**Office**	**Mobile**
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Blake Hermes	Drilling Engineer	972-371-5485	713-876-8558
	Construction Superintendent		
	Construction Superintendent		

Artesia		
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	
National		
National Emegency Response Center (Washington, D.C.)	800-424-8802	
Medical		
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	
Other		
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	

5M Choke Manifold Arrangement

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33

Township/Range: 20S 33E
Elevation Above Sea Level: 3659'



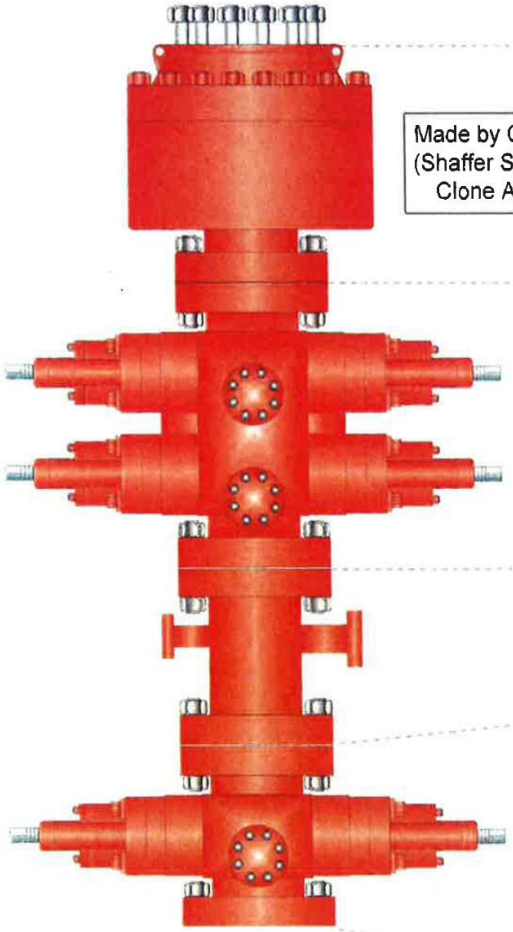
Matador Production Company

5M BOP

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

PATTERSON-UTI
Well Control

RIG: 297



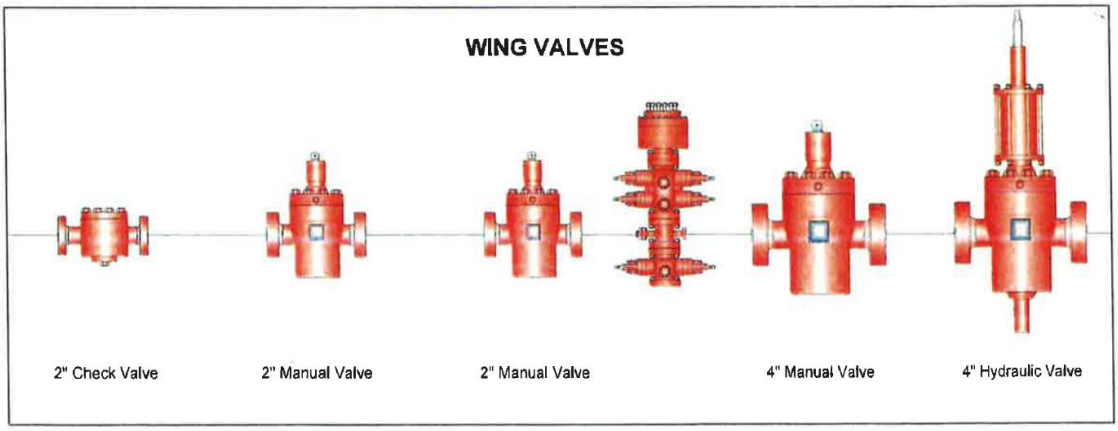
Made by Cameron
(Shaffer Spherical)
Clone Annular

PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" PRESSURE 5,000
HEIGHT: 48 ½" WEIGHT: 13,800 lbs

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

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

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



Matador Production Company

Co-Flex Hose Certification

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

POWERTRACK

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 3rd edition
Inspection Department	Q.C. Department	Inspection date	2024.02.20

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

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

Co-Flex Hose Certification

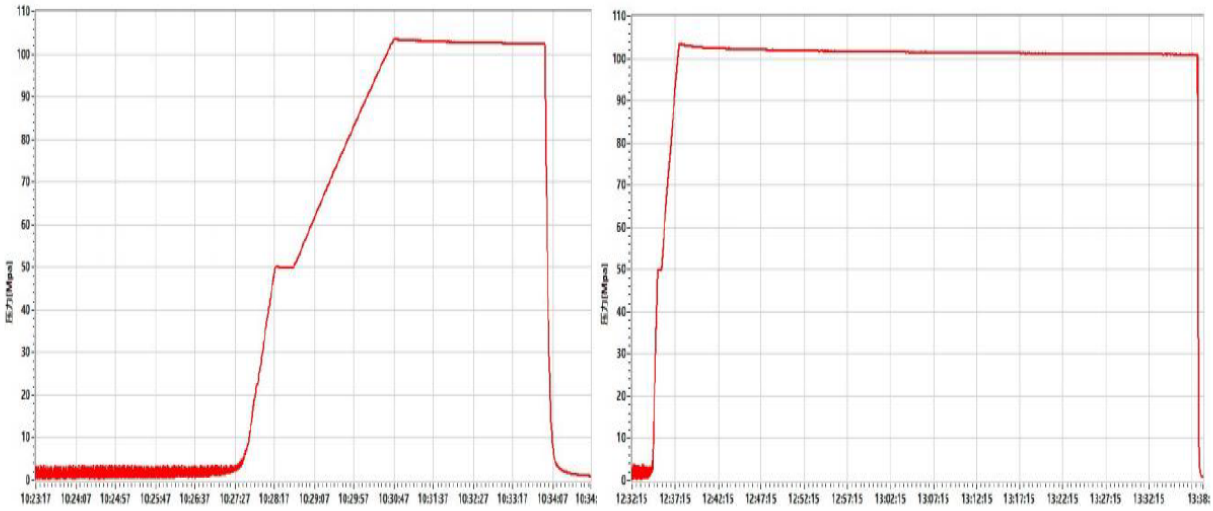
POWERTRACK

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 240220001

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×11.08ft（3.38m）	Serial Number	7660215
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2024.02.20
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than65 mm (2½ in..)+ 0.01 L		
Testing result	10000psi (69.0MPa) ,length change 7mm		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



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

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

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Co-Flex Hose Certification

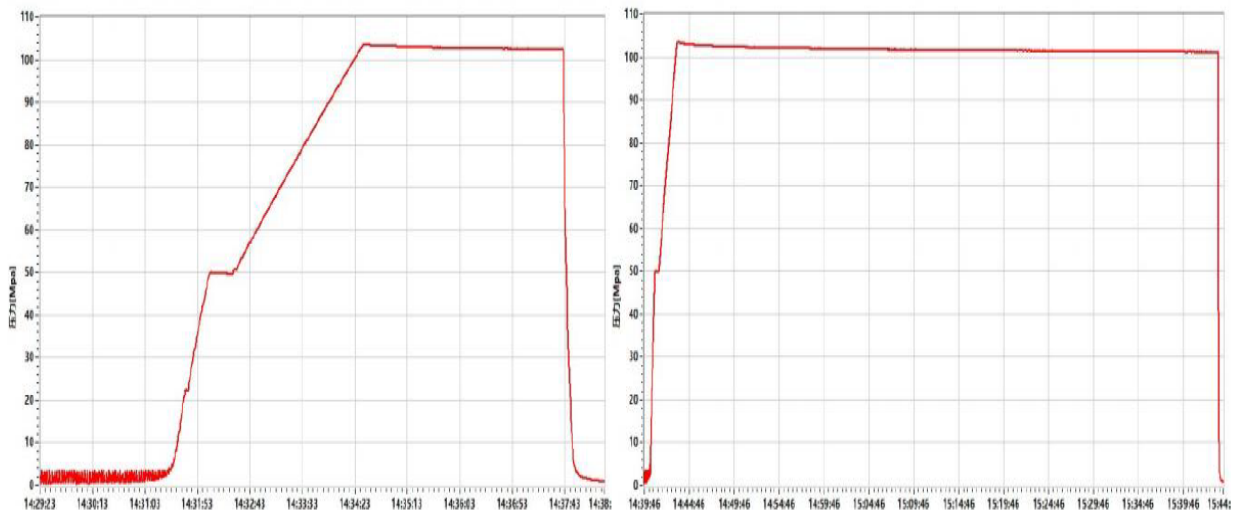
POWERTRACK

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 240220002

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×11.08ft（3.38m）	Serial Number	7660216
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2024.02.19
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than65 mm (2½ in..)+ 0.01 L		
Testing result	10000psi (69.0MPa) ,length change 8mm		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD			LETONE		

Co-Flex Hose Certification

POWERTRACK

CERTIFICATE OF CONFORMANCE

№:LT240220003

Product Name：Choke And Kill Hose

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

Serial Number：7660215、7660216

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

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

QC Manager： Jane C Date:Feb 20, 2024

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE

Offline Cementing - Intermediate Casing

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

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.

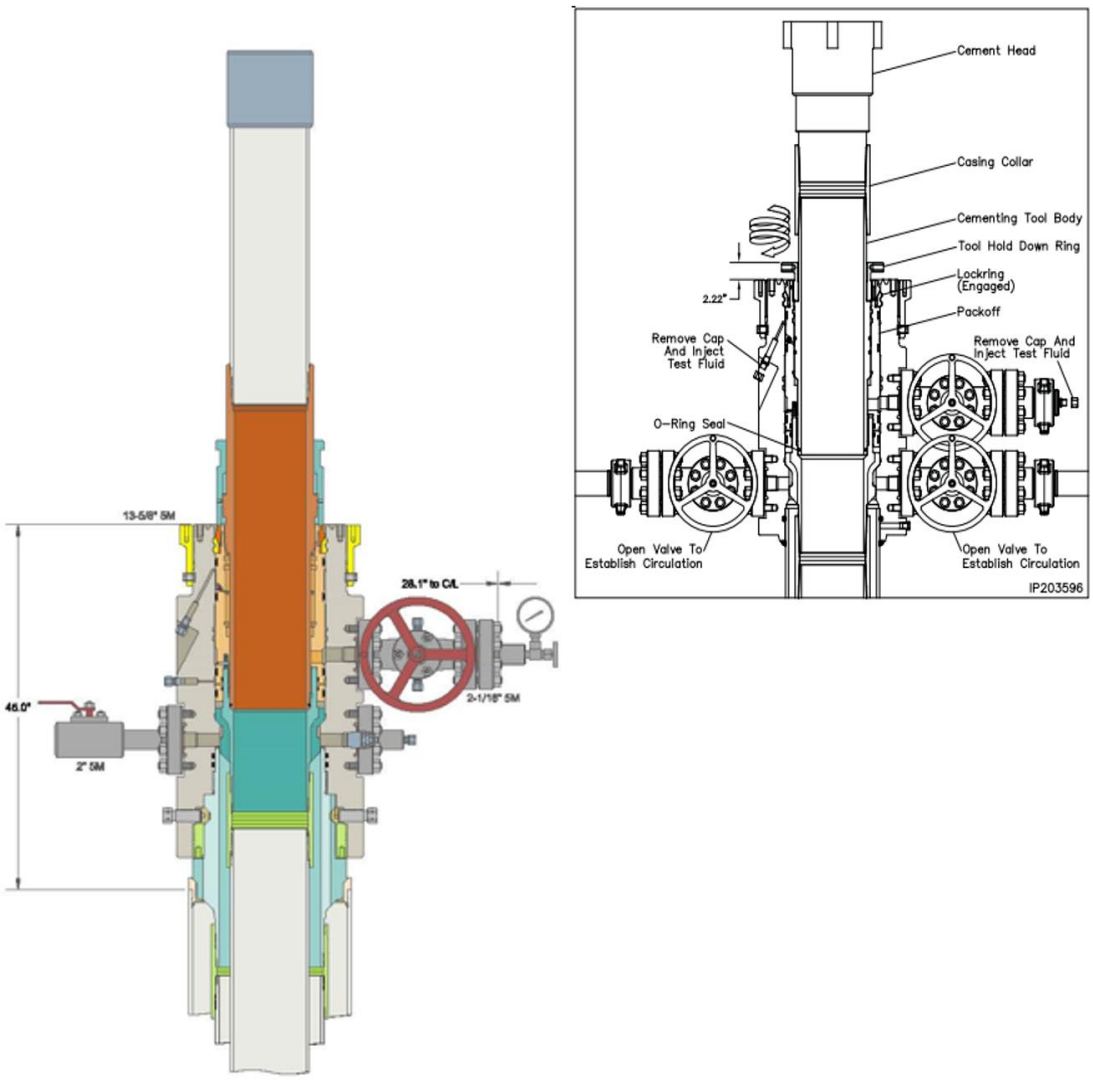
- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies
- Intermediate hole section must have a MASP of 5,000 psi or lower.

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.
6. Skid rig to the next well on the pad.
7. Rig up lines to take returns from wellhead through the cement choke manifold to the pits.
8. Attach a test pump with manifold to the open fitting and pump clean fluid until a stable test pressure of 5,000 psi is achieved. Hold pressure for 15 minutes. After a satisfactory test, bleed off test pressure, remove test pump and reinstall cap flange on the open fitting.
9. Attach the test pump to the upper outlet valve and pressure up the void area between the upper and lowermost O-rings until a stable test pressure of 5,000 psi is achieved. After a satisfactory test, bleed off all test pressure and leave the upper valve in the open position.
10. Place a mark across the top of the wellhead to monitor possible rotation of the tool during the cement jo
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.

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Offline Cementing - Intermediate Casing

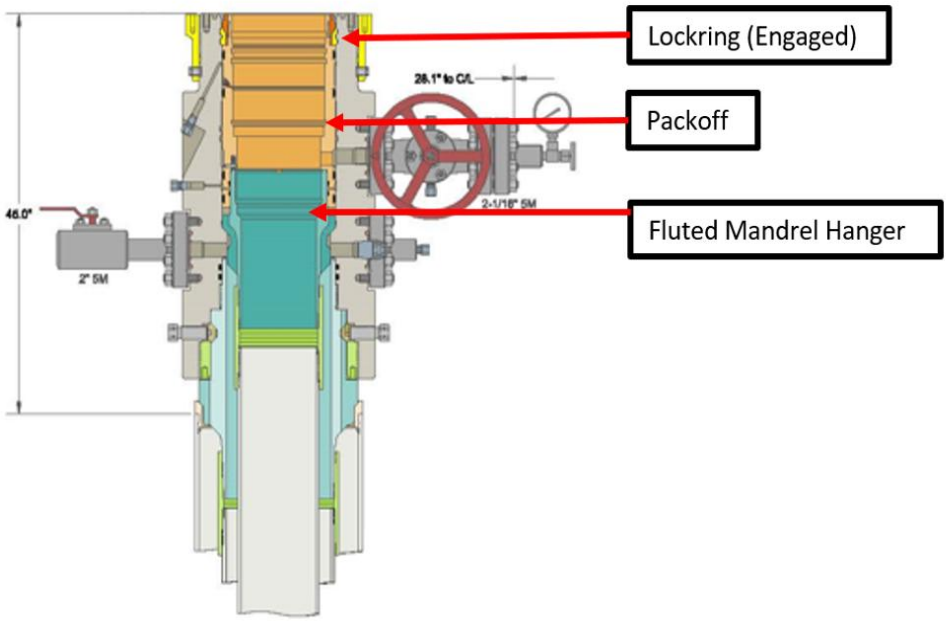
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



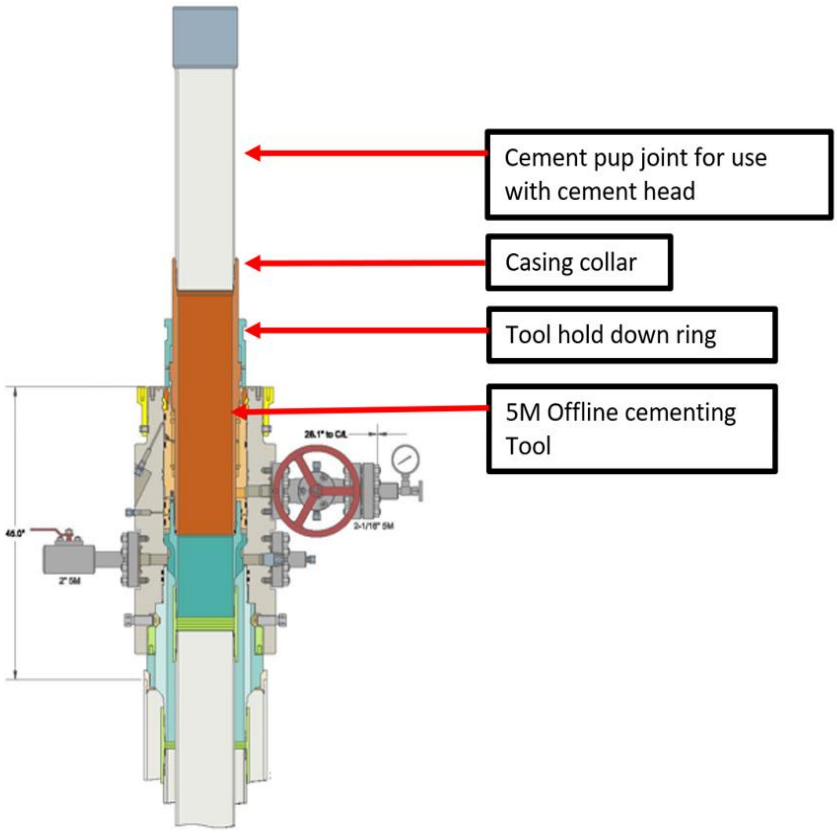
Offline Cementing - Intermediate Casing

Figure 2: Step-by-Step schematics procedure

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

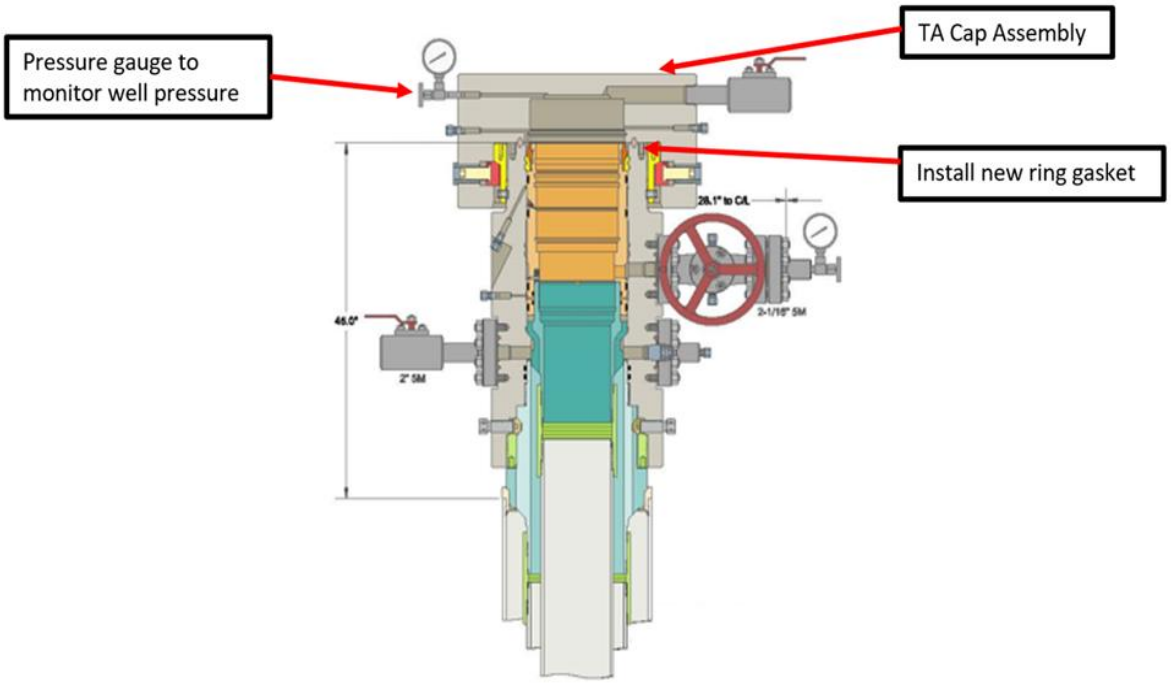


Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing

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



Offline Cementing - Surface Casing

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

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

Cement Program

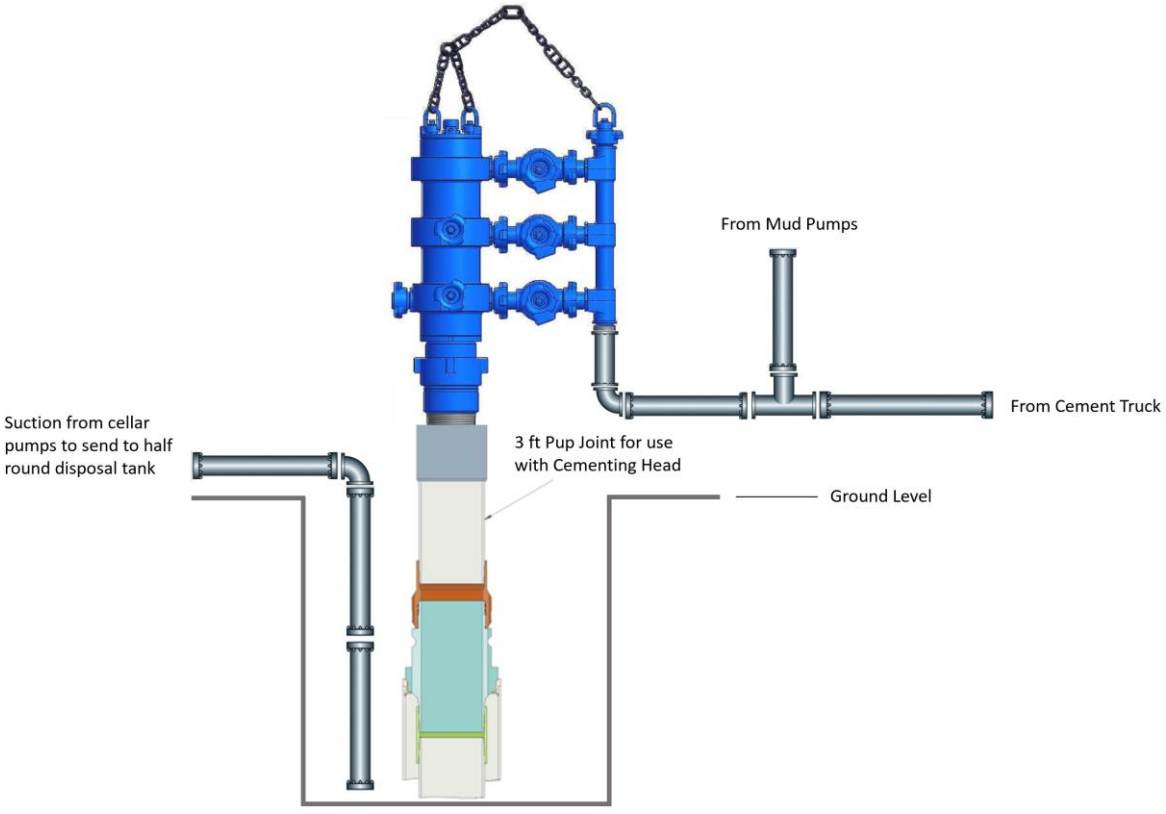
No changes to the cement program will take place for offline cementing.

Offline Cementing Procedure

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

- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies

1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
2. Land casing with mandrel.
3. Install cap flange.
4. Skid rig to the next well on the pad.
5. Rig up on the well in accordance with the diagram shown below.



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

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Modified BOP Testing Procedure for Batch Drilling

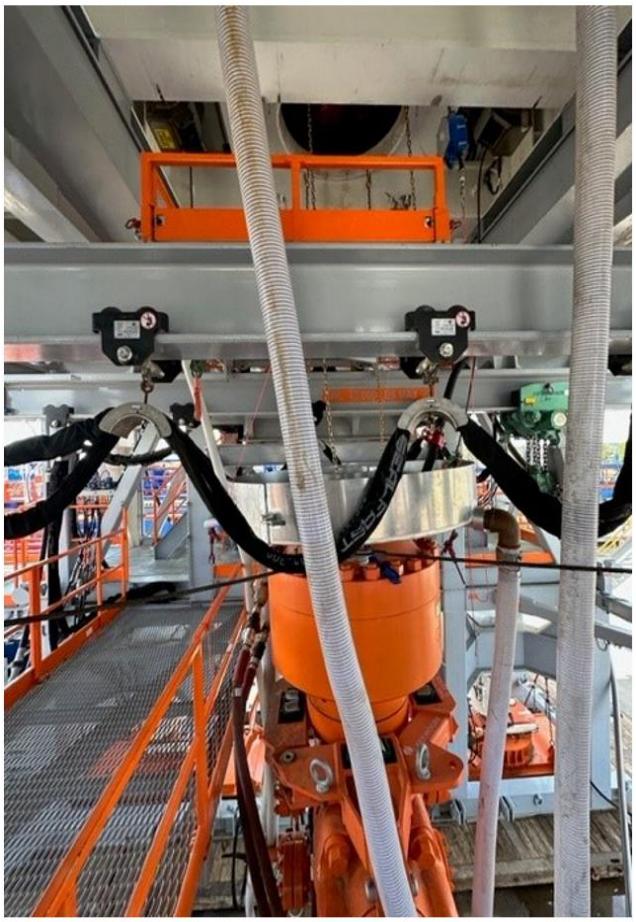
Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**

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

Justification

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

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





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

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Modified BOP Testing Procedure for Batch Drilling

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

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

Procedure

1. Matador Production Company will follow the below guidelines prior to implementing break testing varian
   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 wel
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.

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Modified BOP Testing Procedure for Batch Drilling

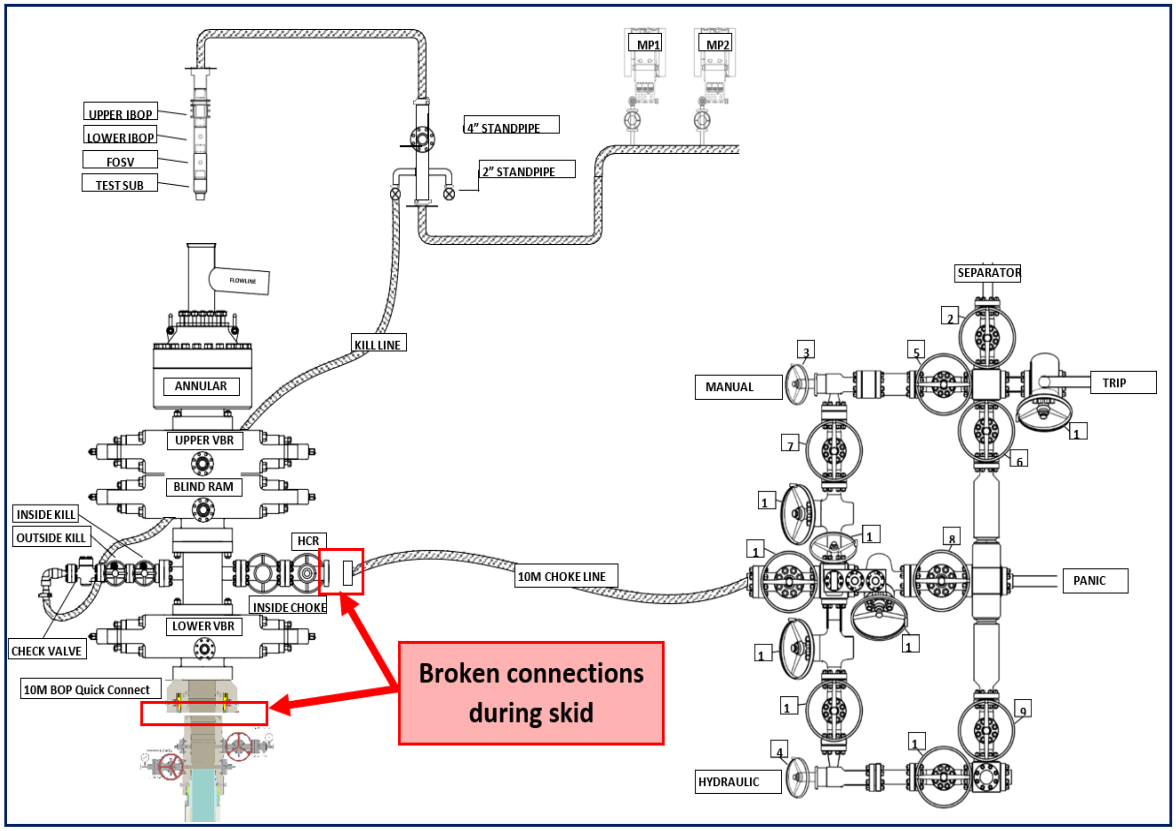


Figure 3: Shows which connections are broken during the skidding process

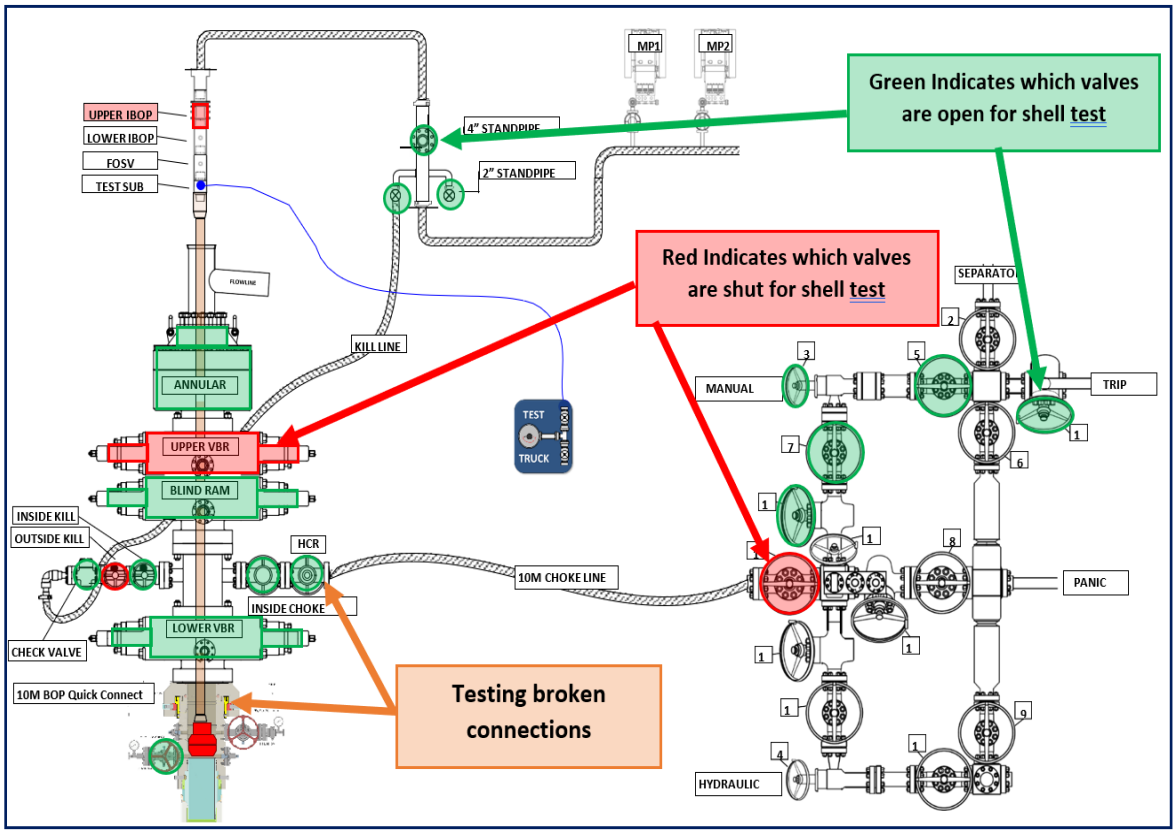
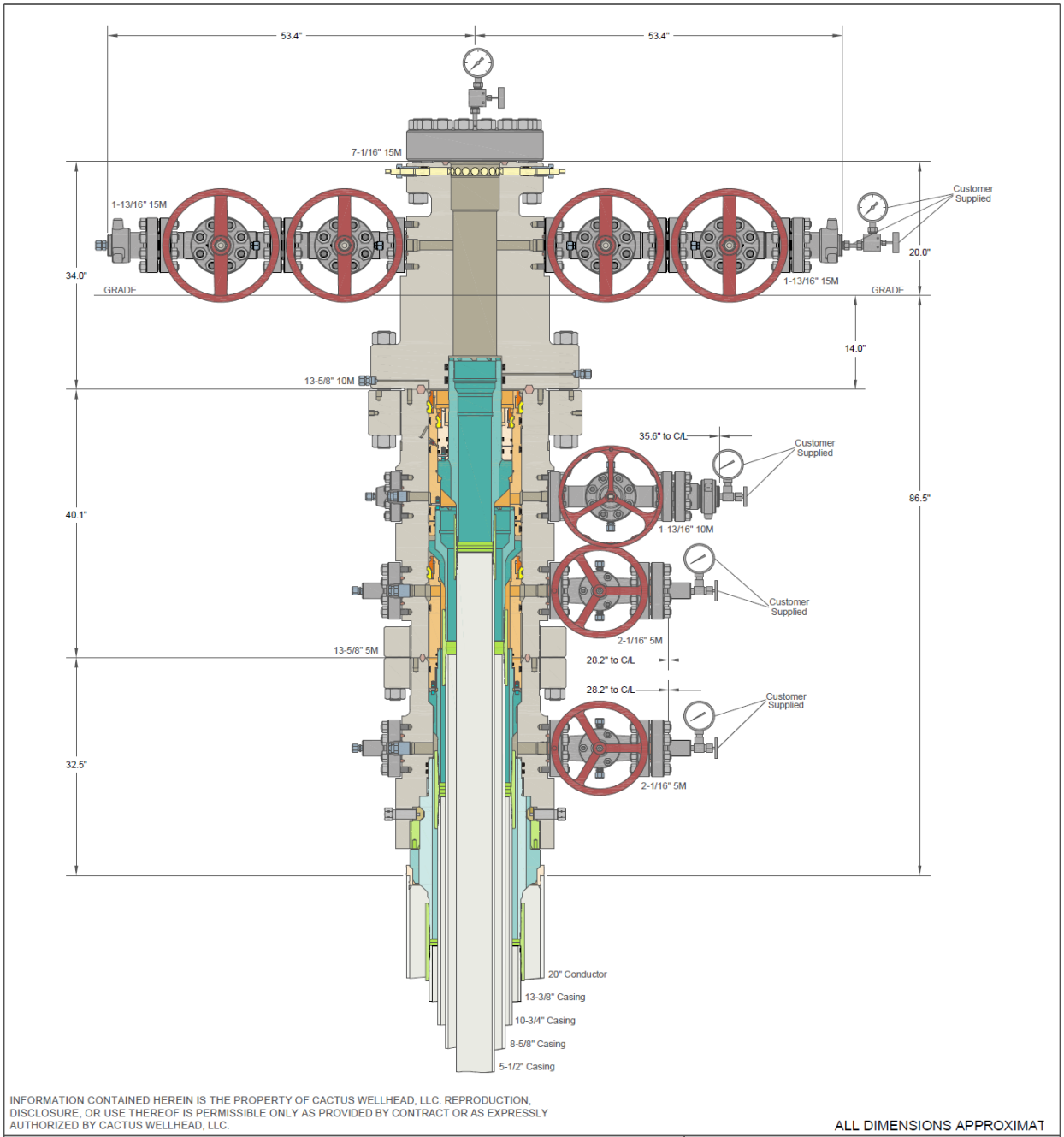


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

4-String Wellhead Diagram

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33

Township/Range: 20S 33E
Elevation Above Sea Level: 3659'



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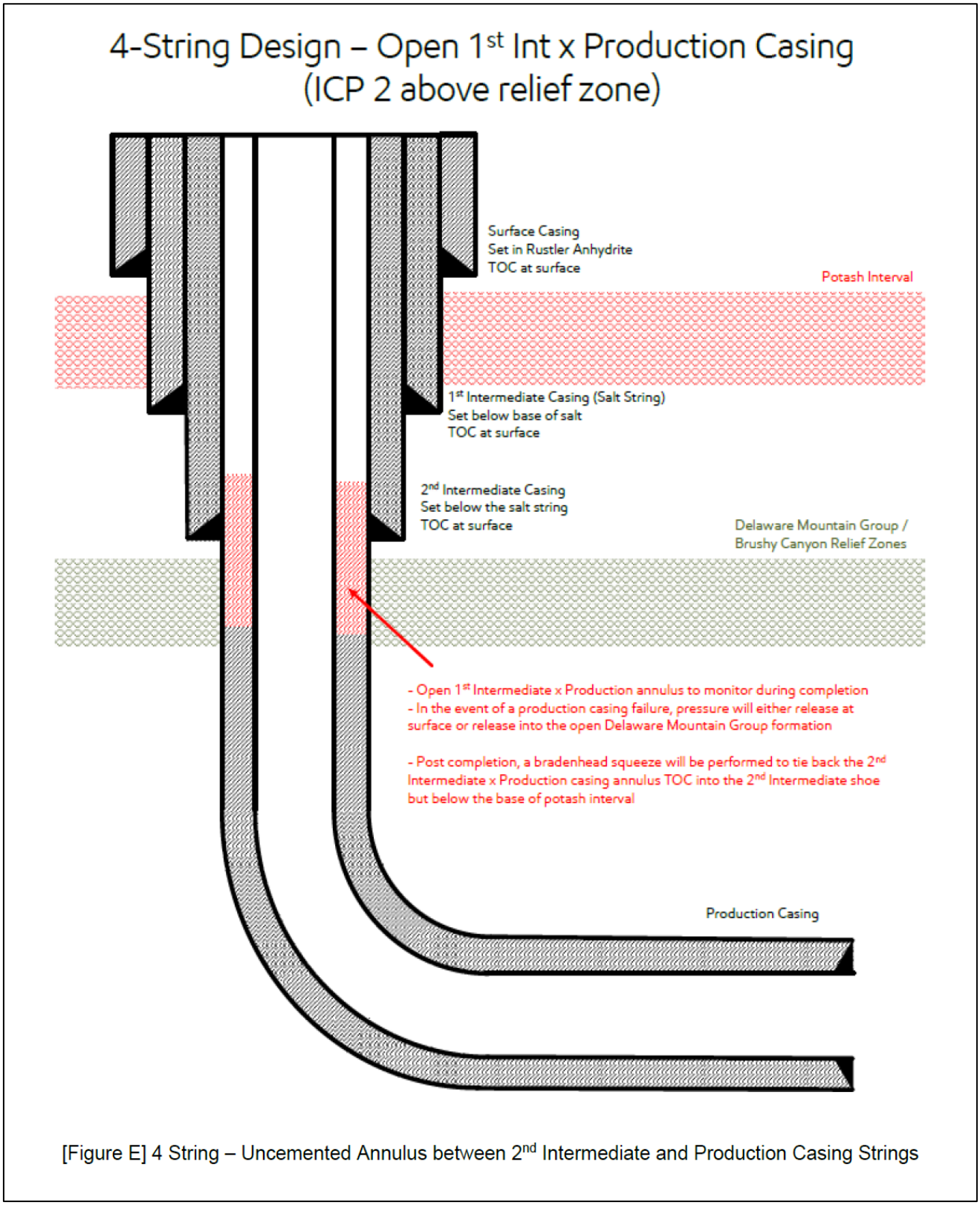
ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	MATADOR PRODUCTION COMPANY NEW MEXICO		
20" x 13-3/8" x 10-3/4" x 8-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO System With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 10-3/4" & 8-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN	VJK	20MAY25
	APPRV		
	DRAWING NO.	HBE0001531	

Matador Production Company

R-111-Q 4-String Wellbore Schematic

Gavilon Fed Com 106H **Township/Range: 20S 33E**
SHL: 395' FSL & 537' FWL Section 33 **Elevation Above Sea Level: 3659'**



[Figure E] 4 String – Uncemented Annulus between 2nd Intermediate and Production Casing Strings

Matador Production Company

Well Name: GAVILON FED COM

Well Location: T20S / R33E / SEC 33 / SWSW / 32.523437 / -103.675083

County or Parish/State: LEA / NM

Well Number: 106H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM57683

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2908175

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/28/2026

Time Sundry Submitted: 12:30

Date proposed operation will begin: 04/30/2026

Procedure Description: BLM Bond # NMB001079 and Surety Bond # RLB0015172 Matador request the option to amend the well design of the Gavilon Fed Com 106H (APD ID: 10400108627) and make the following changes to the current APD: -Change well BHL from 110' FNL & 2314' FWL Section 28 to 110' FNL & 2580' FWL Section 28 - Modify casing set depths as shown in the casing and cementing table. Cement volumes will be adjusted accordingly

NOI Attachments

Procedure Description

Gavilon_Fed_Com_106H_Directional_Wall_Plot_20260424125105.pdf

2025070210___MATADOR___GAVILON_FED_COM_106H_C_102_FINAL_04_15_2026_New_C_102_20260424125105.pdf

Gavilon_Fed_Com_106H_Drill_Plan_with_Sundry_Info_20260424125105.pdf

Gavilon_Fed_Com_106H_Directional_AC_Report_20260424125105.pdf

Gavilon_Fed_Com_106H_Directional_Well_Plan_20260424125105.pdf

Gavilon_Fed_Com_106H_Casing_Table_Spec_20260424125105.pdf

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Well Name: GAVILON FED COM

Well Location: T20S / R33E / SEC 33 / SWSW / 32.523437 / -103.675083

County or Parish/State: LEA / NM

Well Number: 106H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM57683

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional

GAVILON_FED_COM_106H_Sundry_2908175_COA_20260511095858.pdf

Operator

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

Operator Electronic Signature: ADDISON FISHER

Signed on: APR 24, 2026 12:51 PM

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: 06/09/2026

Signature: Chris Walls

Released to Imaging: 8/21/2026 8:53:16 AM

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No. 30-025-56725

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: SWSW / 395 FSL / 537 FWL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.523437 / LONG: -103.675083 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 2314 FWL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.522623 / LONG: -103.669317 (TVD: 8411 feet, MD: 8624 feet)

PPP: SESW / 1321 FSL / 2314 FWL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.54049 / LONG: -103.669325 (TVD: 8849 feet, MD: 15433 feet)

PPP: NENW / 0 FSL / 2314 FWL / TWSP: 20S / RANGE: 33E / SECTION: 33 / LAT: 32.536861 / LONG: -103.669323 (TVD: 8849 feet, MD: 14112 feet)

BHL: NENW / 110 FNL / 2314 FWL / TWSP: 20S / RANGE: 33E / SECTION: 28 / LAT: 32.551072 / LONG: -103.669329 (TVD: 8850 feet, MD: 19283 feet)

CONFIDENTIAL

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	GAVILON FED COM 106H
APD ID:	10400108627
LOCATION:	Section 33, T20S, R33E. NMP.
COUNTY:	Lea County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☑ Open Annulus
	4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone)			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☑ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☑ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

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

A. CASING PROGRAM

1. The **13-3/8 inch** surface casing shall be set at approximately **1,663** ft. (a minimum of 70 feet into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
   b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
   c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
   d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **10-3/4** inch 1st intermediate casing shall be set in a competent bed at approximately **3,653 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, and Potash.**

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

   a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

   b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef, and Potash.** Excess cement for the 2nd stage is below %25. More cement might be needed.

   Note: *The proposed casing set depth of 5,834 ft would be in the Cherry Canyon. Instead, set the casing at the previously accepted depth of 5,349 ft, below the base of the Capitan Reef and above the Delaware Sands.*

3. The **8-5/8-inch** 2nd intermediate casing shall be set in a competent bed at approximately **5,349 ft.** The minimum required fill of cement behind the **8-5/8-inch** intermediate casing is:

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

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

   a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

   b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef, and Potash.** Excess cement for the 2nd stage is below %25. More cement might be needed.

   ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

4. Operator has proposed to set **5-1/2** inch production casing at approximately **19,347 ft.** (8,850 ft. TVD). The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Operator has proposed to cement the production casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.

  a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation.

  b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 2nd intermediate casing and below the Marker Bed 126.** If cement does not circulate, the appropriate BLM office shall be notified.

❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**

❖ Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.

❖ A monitored open annulus will be incorporated during completion by leaving the 2nd Intermediate Casing x Production Casing annulus un-cemented and monitored. Operator must follow **all** monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days.**

❖ **In the event of a casing failure during completion,** the operator must contact the BLM engineer at 575-706-2779 and inspection staff at 575-361-2822.

Note: Operator has requested the option to drill 6.75" production hole from KOP to TD. This option is granted. Adjust cement volume accordingly.

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.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:
a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Lea County Inspection Staff:
Email blm_nm_cfo_drillingnotifications@blm.gov; The inspector on call phone, 575-361-2822, will remain active as a secondary contact for notifications; calls only, text messages are not accepted at this number.

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

A. CASING & CEMENTING

1. The current acceptable methods of cement verification are as follows:
   i. Observing cement circulated to surface,
   ii. Cement Bond Log (CBL),
   iii. Temperature log within 8-10 hours after completing the cement job,
   iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the

hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
    iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the

WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

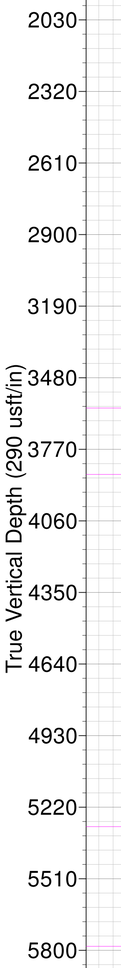
SA 05/11/2026

Received by OCD: 7/2/2026 7:38:02 PM

Company: Matador Production Company
Well: Gavilon Fed Com #106H
County: Lea County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 4/21/2026

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

To convert a Magnetic Direction to a Grid Direction, Add 5.84°
To convert a Magnetic Direction to a True Direction, Add 6.20° East
To convert a True Direction to a Grid Direction, Subtract 0.35°



Azimuths to Grid North
True North: -0.35°
Magnetic North: 5.84°

Magnetic Field
Strength: 47325.5snT
Dip Angle: 60.22°
Date: 12/31/2024
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	19347.1	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Gavilon Fed Com #106H

GL @ 3659.0 KB @ 3687.5usft

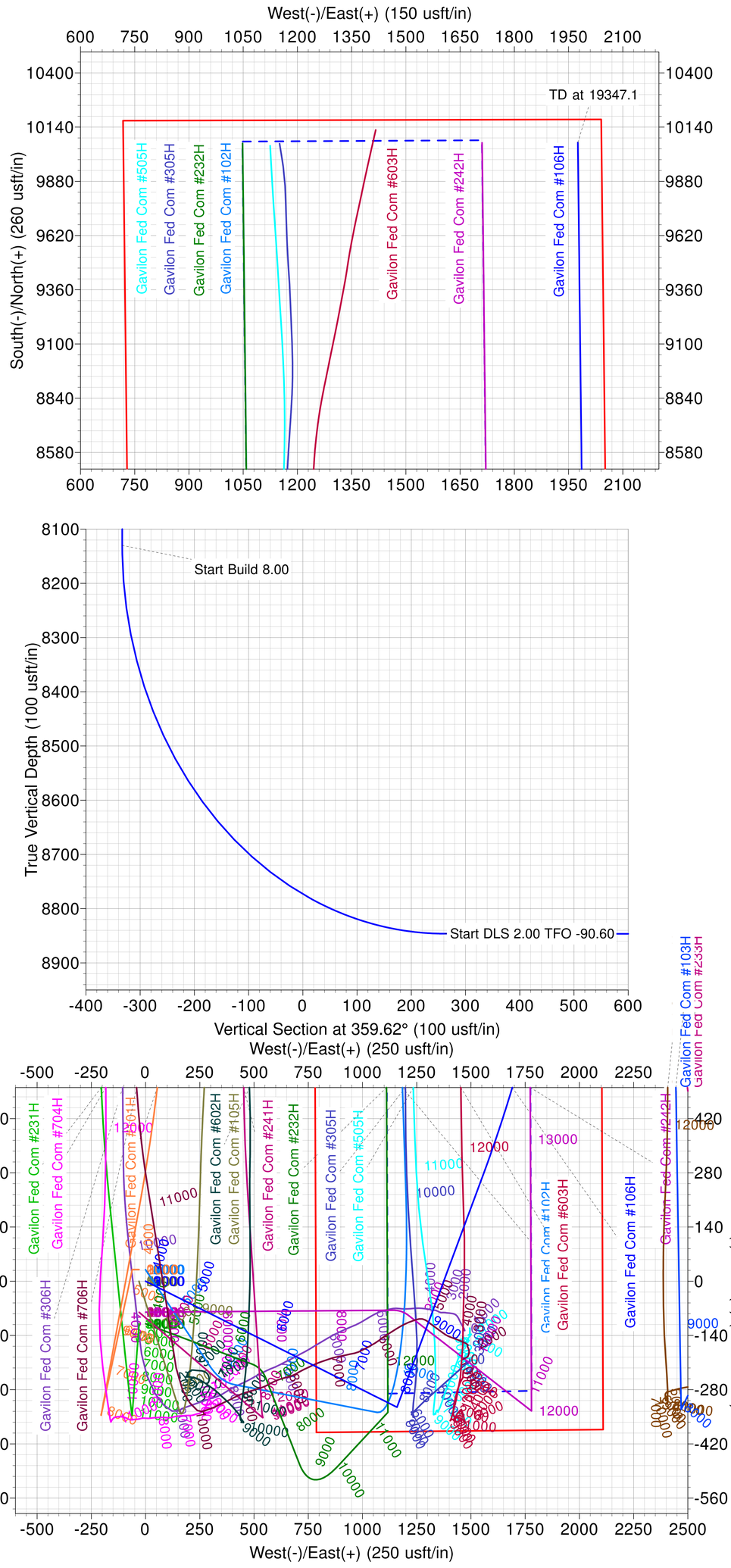
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	554722.36	703040.84	32° 31' 23.938 N	103° 40' 28.520 W	

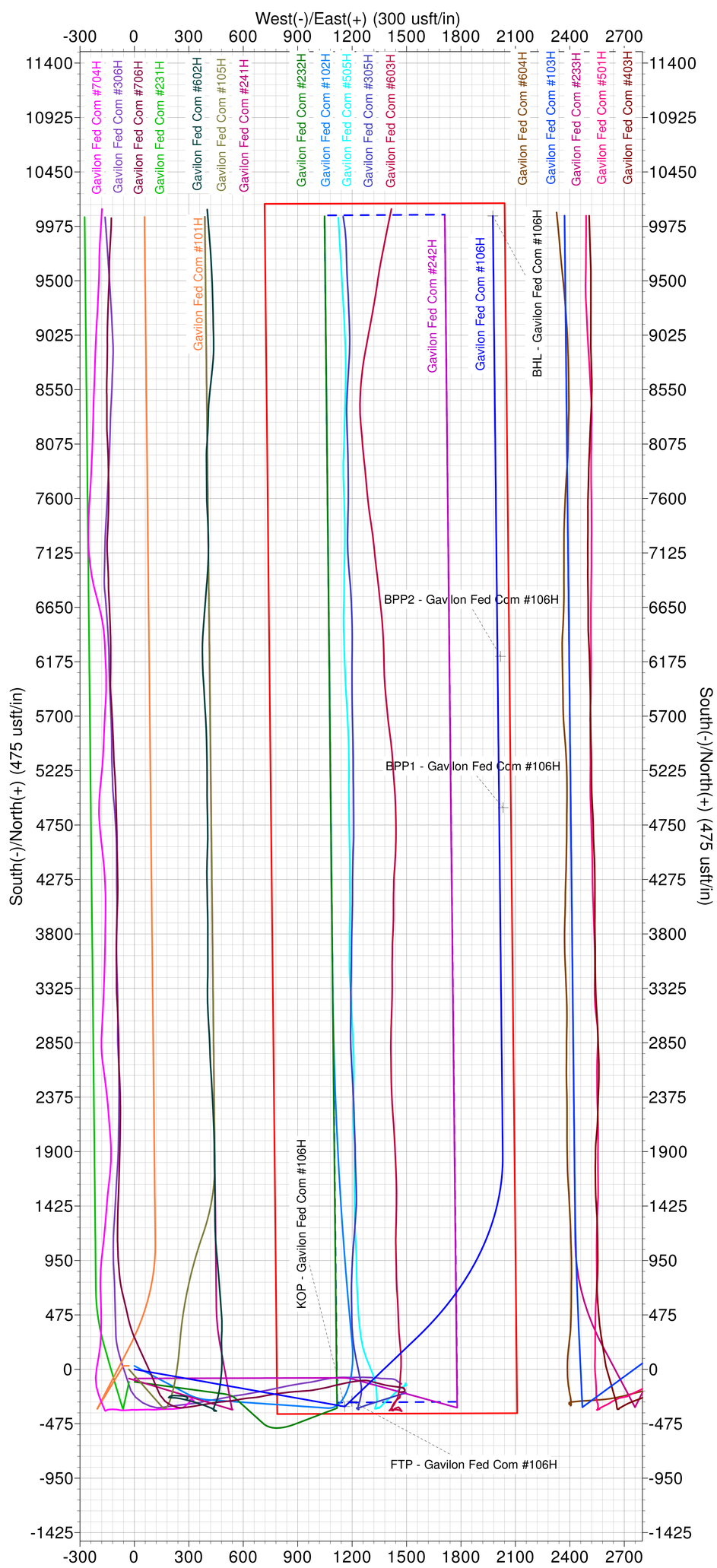
DESIGN TARGET DETAILS

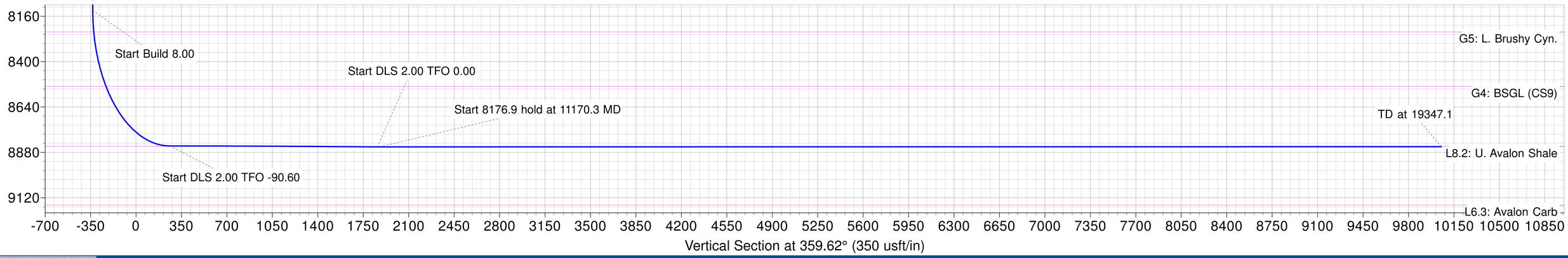
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Gavilon Fed Com #106H	8130.0	-325.4	1159.3	554397.00	704200.10	32° 31' 20.647 N	103° 40' 15.005 W
BHL - Gavilon Fed Com #106H	8850.0	10066.1	1975.8	564788.50	705016.60	32° 33' 3.423 N	103° 40' 4.711 W
BHL - Gavilon Fed Com #106H	8850.0	10066.1	1975.8	564788.50	705016.60	32° 33' 3.423 N	103° 40' 4.711 W
BPP1 - Gavilon Fed Com #106H	8850.2	4901.2	2032.6	559623.56	705073.48	32° 32' 12.311 N	103° 40' 4.423 W
BPP2 - Gavilon Fed Com #106H	8850.2	6222.0	2018.1	560944.36	705058.93	32° 32' 25.382 N	103° 40' 4.497 W
FTP - Gavilon Fed Com #106H	8419.6	-278.6	1198.7	554443.76	704239.51	32° 31' 21.107 N	103° 40' 14.541 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3875.0	0.00	0.00	3875.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
4989.0	22.28	105.68	4961.1	-57.8	205.9	2.00	105.68	-59.2	Start 1859.5 hold at 4989.0 MD
6848.5	22.28	105.68	6681.8	-248.3	884.7	0.00	0.00	-254.2	Start Drop -1.50
8333.8	0.00	0.00	8130.0	-325.4	1159.3	1.50	180.00	-333.0	Start Build 8.00
9458.8	90.00	33.50	8846.2	271.9	1554.6	8.00	33.50	261.6	Start DLS 2.00 TFO -90.60
11153.0	89.66	359.62	8851.3	1872.2	2030.4	2.00	-90.60	1858.7	Start DLS 2.00 TFO 0.00
11170.3	90.01	359.62	8851.4	1889.5	2030.3	2.00	0.00	1875.9	Start 8176.9 hold at 11170.3 MD
19347.1	90.01	359.62	8850.0	10066.1	1975.8	0.00	0.00	10052.8	TD at 19347.1







Released to Imaging: 8/21/2026 8:53:10 AM

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

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

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

C-102
Revised July 9, 2024
Submit Electronically
Via OCD Permitting

Submittal Type: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

30-025-56725

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
Pending	30213	HAT MESA; BONE SPRING

Property Code	Property Name	Well Number
Pending 332434	GAVILON FED COM	106H

ORGID No.	Operator Name	Ground Level Elevation
228937	MATADOR PRODUCTION COMPANY	3,659'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	33	20 S	33 E		395' FSL	537' FWL	32.523437	-103.675083	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	20 S	33 E		110' FNL	2,580' FWL	32.551071	-103.668469	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	INFILL	30-025-47862	N	C

Order Numbers. R-20451

Well setbacks are under Common Ownership: ☐ Yes ☒ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	20 S	33 E		50' FSL	2,580' FWL	32.522485	-103.668454	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	20 S	33 E		100' FSL	2,580' FWL	32.522623	-103.668454	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	20 S	33 E		110' FNL	2,580' FWL	32.551071	-103.668469	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
BLM CA #NMNM 105793439	☒ Horizontal ☐ Vertical	3,687' (KB)

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.

Addison Fisher 4/24/2026

Signature Date

Addison Fisher

Printed Name

addison.fisher@matadorresources.com

Email Address

SURVEYOR CERTIFICATIONS

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

I, JOHN E. LEGERE, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29787, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN E. LEGERE
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 29787

JOHN E. LEGERE NEW MEXICO 29787 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
JOHN E. LEGERE 29787	04/21/2026

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

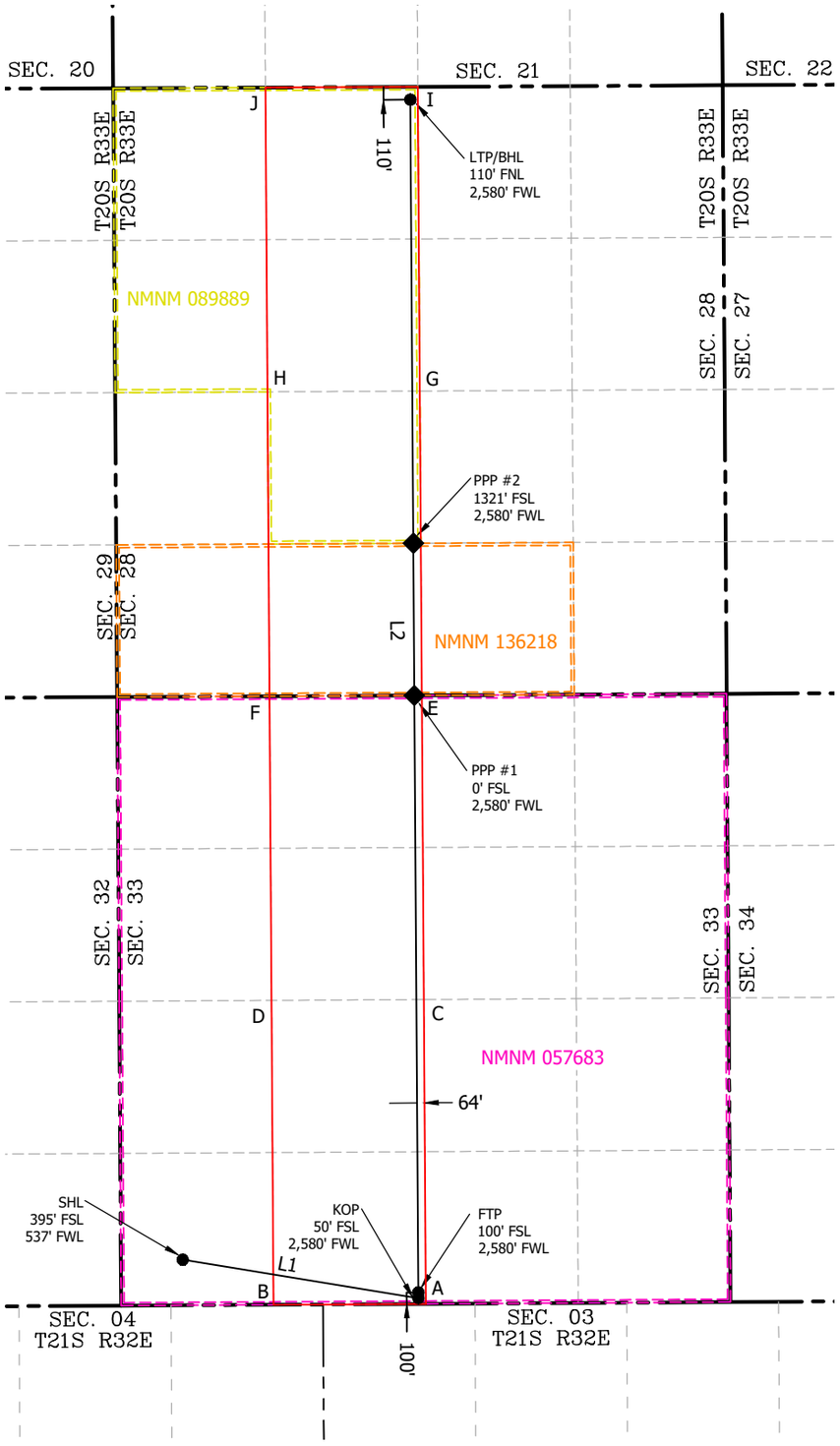
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DATE:	04/15/2026	PROJECT NO:	2025070210
DRAWN BY:	HP	SCALE:	
CHECKED BY:	KC	SHEET:	1 OF 2
FIELD CREW:	SL/ZK	REVISION:	1

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



COORDINATE TABLE					
SHL (NAD 83 NME)			**FTP (NAD 83 NME)**		
Y =	554,778.6	N	Y =	554,500.0	N
X =	744,226.6	E	X =	746,266.3	E
LAT. =	32.523423	°N	LAT. =	32.522622	°N
LONG. =	103.675066	°W	LONG. =	103.668454	°W
KOP (NAD 83 NME)			**LTP/BHL (NAD 83 NME)**		
Y =	554,450.0	N	Y =	564,849.8	N
X =	746,266.7	E	X =	746,197.1	E
LAT. =	32.522485	°N	LAT. =	32.551071	°N
LONG. =	103.668454	°W	LONG. =	103.668469	°W
SHL (NAD 27 NME)			**FTP (NAD 27 NME)**		
Y =	554,717.4	N	Y =	554,438.8	N
X =	703,045.8	E	X =	705,085.5	E
LAT. =	32.523302	°N	LAT. =	32.522502	°N
LONG. =	103.674573	°W	LONG. =	103.667962	°W
KOP (NAD 27 NME)			**LTP/BHL (NAD 27 NME)**		
Y =	554,388.8	N	Y =	564,788.5	N
X =	705,085.9	E	X =	705,016.6	E
LAT. =	32.522364	°N	LAT. =	32.550951	°N
LONG. =	103.667961	°W	LONG. =	103.667975	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	559,679.8	N	Y =	559,618.6	N
X =	746,231.7	E	X =	705,051.0	E
LAT. =	32.536860	°N	LAT. =	32.536740	°N
LONG. =	103.668462	°W	LONG. =	103.667968	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	561,000.2	N	Y =	560,938.9	N
X =	746,222.9	E	X =	705,042.3	E
LAT. =	32.540489	°N	LAT. =	32.540369	°N
LONG. =	103.668464	°W	LONG. =	103.667970	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	554,400.4	N	A - X =	746,331.3	E
B - Y =	554,392.9	N	B - X =	745,009.1	E
C - Y =	557,040.9	N	C - X =	746,313.9	E
D - Y =	557,033.6	N	D - X =	744,991.8	E
E - Y =	559,680.1	N	E - X =	746,296.6	E
F - Y =	559,673.0	N	F - X =	744,974.3	E
G - Y =	562,320.8	N	G - X =	746,279.0	E
H - Y =	562,314.0	N	H - X =	744,956.6	E
I - Y =	564,960.1	N	I - X =	746,261.5	E
J - Y =	564,954.2	N	J - X =	744,938.9	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	554,339.2	N	A - X =	705,150.4	E
B - Y =	554,331.7	N	B - X =	703,828.3	E
C - Y =	556,979.7	N	C - X =	705,133.2	E
D - Y =	556,972.4	N	D - X =	703,811.1	E
E - Y =	559,618.9	N	E - X =	705,115.9	E
F - Y =	559,611.7	N	F - X =	703,793.7	E
G - Y =	562,259.5	N	G - X =	705,098.5	E
H - Y =	562,252.7	N	H - X =	703,776.1	E
I - Y =	564,898.7	N	I - X =	705,081.0	E
J - Y =	564,892.8	N	J - X =	703,758.5	E

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- DEDICATED ACREAGE

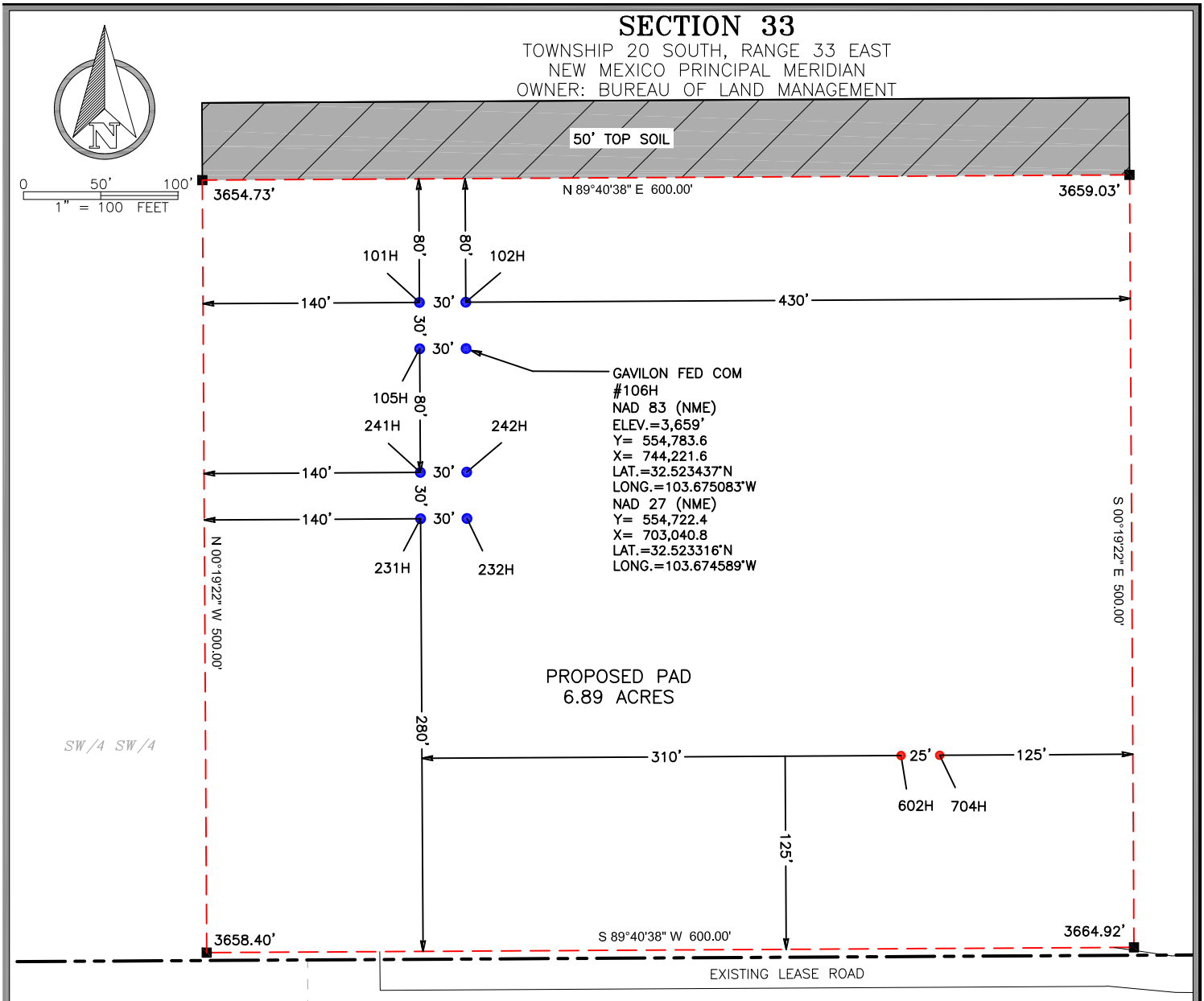
LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	99° 15'47"	2,072.15'
L2	359° 37'00"	10,400.00'

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DATE:	04/15/2026	PROJECT NO:	2025070210
DRAWN BY:	HP	SCALE:	1" = 1500'
CHECKED BY:	KC	SHEET:	2 OF 2
FIELD CREW:	SL/ZK	REVISION:	1

SECTION 33

TOWNSHIP 20 SOUTH, RANGE 33 EAST
NEW MEXICO PRINCIPAL MERIDIAN
OWNER: BUREAU OF LAND MANAGEMENT



LOT 2

SECTION 4

TOWNSHIP 21 SOUTH, RANGE 32 EAST
NEW MEXICO PRINCIPAL MERIDIAN
OWNER: BUREAU OF LAND MANAGEMENT

LOT 1

LEGEND

- PROPOSED PAD
- SECTION LINE
- PERMITTED SURFACE HOLE LOCATION
- DRILLED SURFACE HOLE LOCATION
- *ALL LABELED ELEVATIONS ARE NATURAL GROUND ELEVATIONS

NOTE:

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

25 Sept 2025

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

FSC INC
SURVEYORS+ENGINEERS
2205 Walnut Street - Columbus, TX 78934
Ph: 979.732.3114 - Fax: 979.732.5271
TBPLS FIRM 10000100 - TBPE FIRM 17957
www.fscInc.net

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 176 AND SALT LAKE LN. GO SOUTH ON SALT LAKE LN. (GRAVEL) APPROX. 0.4 MILES. TURN RIGHT (WEST) ON EXISTING LEASE ROAD AND GO APPROX. 1.28 MILES AND THE LOCATION IS TO THE NORTH.

MATADOR RESOURCES

WELL SITE PLAN

GAVILON FED. COM. 106H
LOCATED 537 FEET FROM THE WEST LINE AND 395 FEET FROM THE SOUTH LINE OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO

DATE:	07-28-2025	PROJECT NO:	2025070210
DRAWN BY:	KC	SCALE:	1" = 100'
CHECKED BY:	WL	SHEET:	1 OF 3
FIELD CREW:	SL/CH	REVISION:	1

Drill Plan

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33
BHL: 110' FNL & 2580' FWL Section 28
Township/Range: 20S 33E
Elevation Above Sea Level: 3659

Sundry Request

Matador request the option to amend the well design of the Gavilon Fed Com 106H and make the following changes to the current APD:
- Change well BHL from 110' FNL & 2314' FWL Section 28 to 110' FNL & 2580' FWL Section 28
- Modify casing set depths as shown in the casing and cementing table. Cement volumes will be adjusted accordingly

Drilling Operation Plan

Proposed Drilling Depth: 19347' MD / 8850' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.522485 N / -103.668454 W
TD Lat/Long (NAD83): 32.551071 N / -103.668469 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,593	1,593	313	Anhydrite	Barren
Salado (Top of Salt)	1,906	1,906	1,697	Salt	Barren
Lamar (Base of Salt)	3,603	3,603	269	Salt	Barren
Capitan	3,872	3,872	1,427	Limestone	Barren
Bell Canyon	5,354	5,299	485	Sandstone	Oil/Natural Gas
Cherry Canyon	5,878	5,784	1,233	Sandstone	Oil/Natural Gas
Brushy Canyon	7,205	7,017	1,514	Sandstone	Oil/Natural Gas
KOP	**8,334**	**8,130**	**-**	**Sandstone**	**Oil/Natural Gas**
Bone Spring Lime	8,760	8,531	317	Limestone	Oil/Natural Gas
Avalon Shale	10,456	8,848	546	Shale	Oil/Natural Gas
TD	**19,347**	**8,850**	**-**	**Shale**	**Oil/Natural Gas**
First Bone Spring Carb	-	9,394		Carbonate	Oil/Natural Gas

2. Notable Zones

Avalon 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 120'.

3. Pressure Control

Equipment
Matador requests a variance for a 2M annular to be installed after running 16” casing.

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

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

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

A third party company will test the BOPs.

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

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

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

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

Matador requests a variance for the use of a diverter along with a 2000-psi annular to be installed after running 16” casing.

Matador requests the option to cut off 20” SOW wellhead and run 13-3/8” SOW multi-bowl wellhead system once 1st intermediate string is run and cemented. Both wellhead designs are attached for review.

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 - 1663	0 - 1663	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 3653	0 - 3653	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5928	0 - 5834	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 19347	0 - 8850	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- All applicable R-111-Q regulations will be adhered to
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review
- Request option to drill 6.75" production hole from KOP to TD, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for the 8-5/8" casing and 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.

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

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	800	1.72	1383	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.38	381	14.8	50%	1330	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1713'	Stg 2 Tail	230	1.78	406	13.5	10%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Lead	460	1.84	847	12.5	50%	0	C	10% NaCl + 1% MgO + LCM
	Stg 1 Tail	170	1.33	228	14.8	50%	2922	C	10% NaCl + 1% MgO + LCM
Intermediate 2 w/ DV @ 3703'	Stg 2 Tail	280	1.78	497	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	320	3.66	1158	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	120	1.38	170	13.2	35%	4928	A/C	5% NaCl + LCM
Production	Lead	20	3.66	72	12.5	0%	6928	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1540	1.35	2081	13.2	0%	7334	A/C	Fluid Loss + Dispersant + Retarder

Post-Completion Cement Design - Bradenhead Squeeze

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Production	Bradenhead Squeeze	190	1.35	262	14.8	0%	5428	C	Fluid Loss + Dispersant + Retarder

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

As per R-111-Q.(C).(5).(c), the annulus between int. 2 and production casing will be monitored and designed to relieve pressure from annulus below the failure threshold.

5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1663	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	1663 - 3653	9.5 - 10.2	28-30	NC
Intermediate 2	9.875	Fresh Water	3653 - 5928	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	5928 - 19347	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 4326 psi. Maximum anticipated surface pressure is 2379 psi. Expected bottom hole temperature is 165 F.

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

Matador Production Company

Ranger/Arrowhead
Gavilon
Gavilon Fed Com #106H

Wellbore #1
BLM Plan #1

Anticollision Summary Report

22 April, 2026

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Project:	Ranger/Arrowhead	**TVD Reference:**	KB @ 3687.5usft
Reference Site:	Gavilon	**MD Reference:**	KB @ 3687.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

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

Survey Tool Program **Date** 4/22/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,347.1	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Gavilon						
Gavilon Fed Com #101H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	42.5	15.2	1.555	CC
Gavilon Fed Com #101H - Wellbore #1 - BLM Plan #1	3,900.0	3,899.7	42.7	15.2	1.552	ES, SF
Gavilon Fed Com #102H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	29.8	2.5	1.092	Level 2, CC
Gavilon Fed Com #102H - Wellbore #1 - BLM Plan #1	3,900.0	3,900.0	29.9	2.4	1.086	Level 2, ES, SF
Gavilon Fed Com #103H - Wellbore #1 - BLM Plan #1	11,169.7	11,022.2	418.0	333.2	4.932	CC
Gavilon Fed Com #103H - Wellbore #1 - BLM Plan #1	19,347.1	19,199.6	418.5	94.8	1.293	Level 3, ES, SF
Gavilon Fed Com #104H - Wellbore #1 - Wellbore #1	17,962.5	17,952.4	2,252.8	1,960.2	7.700	CC
Gavilon Fed Com #104H - Wellbore #1 - Wellbore #1	19,347.1	19,338.0	2,285.1	1,947.8	6.774	ES, SF
Gavilon Fed Com #105H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	30.2	2.9	1.106	Level 2, CC
Gavilon Fed Com #105H - Wellbore #1 - BLM Plan #1	3,900.0	3,900.0	30.3	2.8	1.102	Level 2, ES, SF
Gavilon Fed Com #107H - Wellbore #1 - BLM Plan #1	11,152.6	10,844.5	1,057.4	967.9	11.814	CC
Gavilon Fed Com #107H - Wellbore #1 - BLM Plan #1	19,347.1	19,039.0	1,057.9	718.5	3.117	ES, SF
Gavilon Fed Com #114H - Wellbore #1 - Actual	19,342.4	19,901.0	2,372.9	2,048.3	7.312	CC
Gavilon Fed Com #114H - Wellbore #1 - Actual	19,347.1	19,901.0	2,372.9	2,048.2	7.309	ES, SF
Gavilon Fed Com #124H - Wellbore #1 - Actual	10,014.5	8,755.5	2,682.7	2,611.0	37.423	CC
Gavilon Fed Com #124H - Wellbore #1 - Actual	19,347.1	20,737.0	2,793.6	2,505.4	9.695	ES, SF
Gavilon Fed Com #134H - Wellbore #1 - Actual	10,049.4	8,665.6	2,712.2	2,640.5	37.842	CC, ES
Gavilon Fed Com #134H - Wellbore #1 - Actual	19,347.1	21,523.6	3,345.1	3,087.9	13.006	SF
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	3,961.6	3,961.6	113.9	86.0	4.080	CC
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	4,000.0	4,000.0	113.9	85.8	4.042	ES
Gavilon Fed Com #231H - Wellbore #1 - BLM Plan #1	4,100.0	4,103.9	115.8	87.0	4.012	SF
Gavilon Fed Com #232H - Wellbore #1 - BLM Plan #1	4,963.1	4,955.9	95.3	60.1	2.706	CC
Gavilon Fed Com #232H - Wellbore #1 - BLM Plan #1	5,000.0	5,007.7	95.5	59.9	2.685	ES, SF
Gavilon Fed Com #233H - Wellbore #1 - BLM Plan #1	9,569.3	8,909.6	1,340.5	1,271.8	19.494	CC, ES
Gavilon Fed Com #233H - Wellbore #1 - BLM Plan #1	19,347.1	22,281.8	3,212.4	3,040.5	18.685	SF
Gavilon Fed Com #234H - Wellbore #1 - BLM Plan #1	9,857.1	8,631.6	1,947.2	1,877.4	27.912	CC, ES
Gavilon Fed Com #234H - Wellbore #1 - BLM Plan #1	19,347.1	22,268.3	3,621.4	3,407.1	16.903	SF
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	3,875.0	3,875.0	85.5	58.2	3.131	CC
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	4,000.0	4,000.0	85.8	57.6	3.044	ES
Gavilon Fed Com #241H - Wellbore #1 - BLM Plan #1	4,200.0	4,200.5	88.5	58.9	2.994	SF
Gavilon Fed Com #242H - Wellbore #1 - BLM Plan #1	4,926.3	4,925.4	38.4	4.0	1.117	Level 2, CC, ES, SF
Gavilon Fed Com #243H - Wellbore #1 - BLM Plan #1	9,620.6	8,887.1	1,460.9	1,392.0	21.201	CC, ES
Gavilon Fed Com #243H - Wellbore #1 - BLM Plan #1	19,347.1	22,502.3	3,597.1	3,410.2	19.251	SF
Gavilon Fed Com #244H - Wellbore #1 - BLM Plan #1	9,826.3	8,390.2	2,068.0	2,000.2	30.508	CC, ES
Gavilon Fed Com #244H - Wellbore #1 - BLM Plan #1	19,347.1	22,682.8	4,181.7	3,949.2	17.983	SF
Gavilon Fed Com #305H - Wellbore #1 - Actual	8,508.5	8,331.2	63.3	3.9	1.066	Level 2, CC, ES
Gavilon Fed Com #305H - Wellbore #1 - Actual	8,550.0	8,370.4	64.4	4.0	1.066	Level 2, SF

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

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Project:	Ranger/Arrowhead	**TVD Reference:**	KB @ 3687.5usft
Reference Site:	Gavilon	**MD Reference:**	KB @ 3687.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Gavilon						
Gavilon Fed Com #306H - Wellbore #1 - Actual	6,579.1	6,506.7	56.9	5.2	1.101	Level 2, CC, ES, SF
Gavilon Fed Com #403H - Wellbore #1 - Actual	16,897.9	17,366.5	911.4	732.1	5.083	CC
Gavilon Fed Com #403H - Wellbore #1 - Actual	19,347.1	19,815.0	931.6	695.4	3.944	ES, SF
Gavilon Fed Com #501H - Wellbore #1 - Actual	9,486.2	8,902.0	1,182.6	1,113.7	17.162	CC
Gavilon Fed Com #501H - Wellbore #1 - Actual	9,500.0	8,901.7	1,182.7	1,113.6	17.103	ES
Gavilon Fed Com #501H - Wellbore #1 - Actual	19,347.1	20,717.0	1,712.3	1,523.7	9.078	SF
Gavilon Fed Com #505H - Wellbore #1 - Actual	8,713.3	8,517.3	159.5	98.3	2.608	CC, ES
Gavilon Fed Com #505H - Wellbore #1 - Actual	8,750.0	8,548.6	160.7	98.6	2.588	SF
Gavilon Fed Com #602H - Wellbore #1 - Actual	5,067.0	5,037.4	182.6	146.9	5.121	CC, ES
Gavilon Fed Com #602H - Wellbore #1 - Actual	5,100.0	5,067.8	183.0	147.1	5.096	SF
Gavilon Fed Com #603H - Wellbore #1 - Actual	8,775.7	8,560.3	240.8	179.4	3.921	CC
Gavilon Fed Com #603H - Wellbore #1 - Actual	8,800.0	8,579.1	241.3	179.3	3.897	ES
Gavilon Fed Com #603H - Wellbore #1 - Actual	8,850.0	8,616.4	245.6	182.5	3.892	SF
Gavilon Fed Com #604H - Wellbore #1 - Actual	9,448.0	8,919.4	1,025.2	956.8	14.980	CC
Gavilon Fed Com #604H - Wellbore #1 - Actual	9,458.8	8,919.4	1,025.3	956.7	14.936	ES
Gavilon Fed Com #604H - Wellbore #1 - Actual	19,347.1	21,692.0	2,474.8	2,301.4	14.276	SF
Gavilon Fed Com #704H - Wellbore #1 - Actual	5,431.1	5,375.3	183.4	144.8	4.747	CC, ES
Gavilon Fed Com #704H - Wellbore #1 - Actual	5,500.0	5,438.8	185.3	146.1	4.729	SF
Gavilon Fed Com #706H - Wellbore #1 - Actual	6,989.1	6,876.6	74.7	20.2	1.371	Level 3, CC, ES, SF
Gavilon Fed Com #708H - Wellbore #1 - Actual	9,678.9	8,892.8	1,633.9	1,565.1	23.722	CC
Gavilon Fed Com #708H - Wellbore #1 - Actual	9,700.0	8,892.5	1,634.2	1,564.9	23.609	ES
Gavilon Fed Com #708H - Wellbore #1 - Actual	19,347.1	21,867.0	2,717.3	2,517.4	13.590	SF

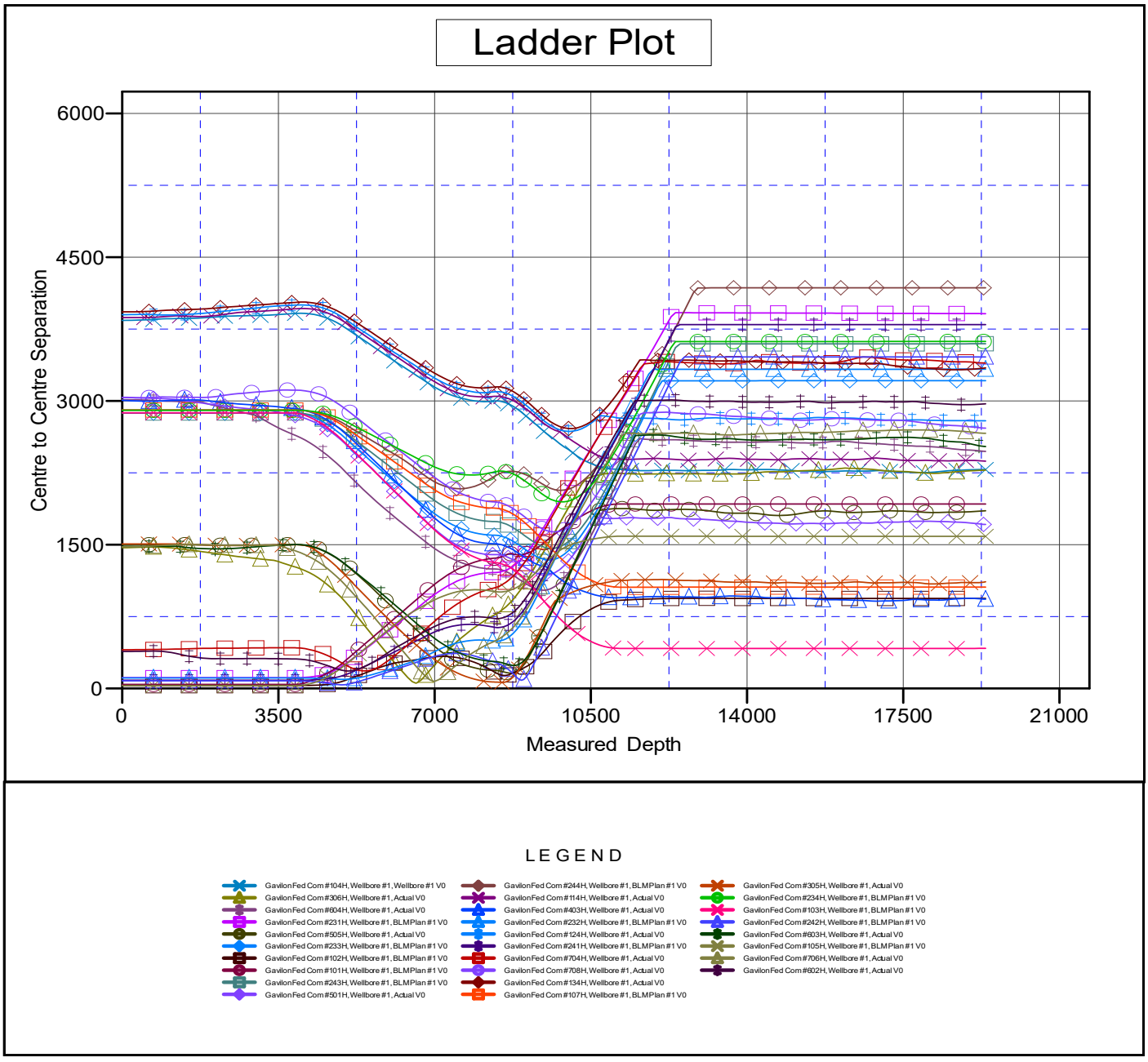
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Project:	Ranger/Arrowhead	**TVD Reference:**	KB @ 3687.5usft
Reference Site:	Gavilon	**MD Reference:**	KB @ 3687.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3687.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Gavilon Fed Com #106H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.35°



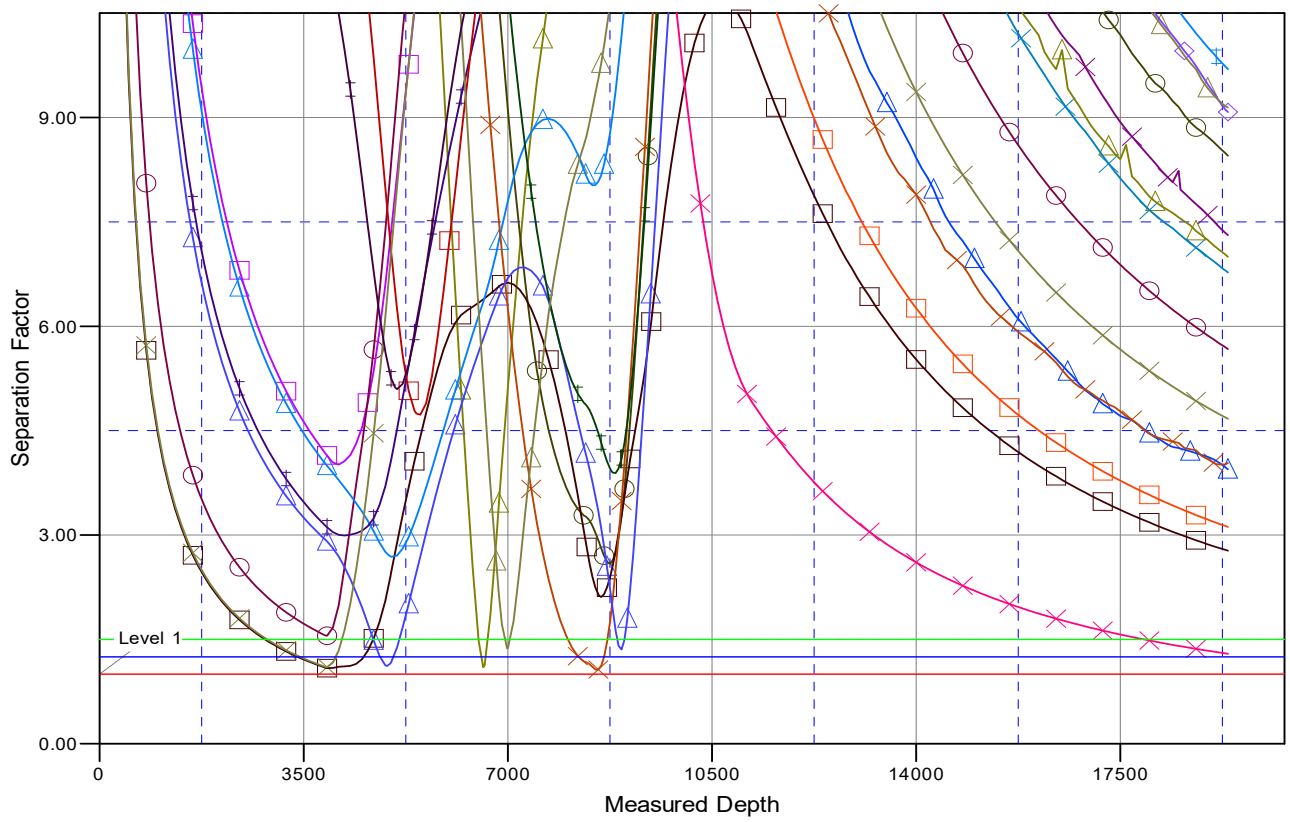
Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Project:	Ranger/Arrowhead	**TVD Reference:**	KB @ 3687.5usft
Reference Site:	Gavilon	**MD Reference:**	KB @ 3687.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3687.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Gavilon Fed Com #106H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.35°

Separation Factor Plot



LEGEND

Matador Production Company

Ranger/Arrowhead
Gavilon
Gavilon Fed Com #106H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

22 April, 2026

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project Ranger/Arrowhead

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

Site Gavilon

Site Position:		**Northing:**	554,458.88 usft	**Latitude:**	32° 31' 21.313 N
From:	Lat/Long	**Easting:**	703,322.35 usft	**Longitude:**	103° 40' 25.252 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.35 °

Well Gavilon Fed Com #106H

Well Position	**+N/-S**	263.5 usft	**Northing:**	554,722.36 usft	**Latitude:**	32° 31' 23.938 N
	+E/-W	-281.5 usft	**Easting:**	703,040.84 usft	**Longitude:**	103° 40' 28.520 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,659.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	6.20	60.22	47,325.53496501

Design BLM Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.62

Plan Survey Tool Program **Date** 4/22/2026

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,347.1	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,875.0	0.00	0.00	3,875.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,989.0	22.28	105.68	4,961.1	-57.8	205.9	2.00	2.00	0.00	105.68	
6,848.5	22.28	105.68	6,681.8	-248.3	884.7	0.00	0.00	0.00	0.00	
8,333.8	0.00	0.00	8,130.0	-325.4	1,159.3	1.50	-1.50	0.00	180.00	KOP - Gavilon Fed Cc
9,458.8	90.00	33.50	8,846.2	271.9	1,554.6	8.00	8.00	0.00	33.50	
11,153.0	89.66	359.62	8,851.3	1,872.2	2,030.4	2.00	-0.02	-2.00	-90.60	BHL - Gavilon Fed Cc
11,170.3	90.01	359.62	8,851.4	1,889.5	2,030.3	2.00	2.00	0.00	0.00	
19,347.1	90.01	359.62	8,850.0	10,066.1	1,975.8	0.00	0.00	0.00	0.00	BHL - Gavilon Fed Cc

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,593.0	0.00	0.00	1,593.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,906.0	0.00	0.00	1,906.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,603.0	0.00	0.00	3,603.0	0.0	0.0	0.0	0.00	0.00	0.00
G30:CS14-CSB (Lamar/Tansil)									
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,872.0	0.00	0.00	3,872.0	0.0	0.0	0.0	0.00	0.00	0.00
Capitan									
3,875.0	0.00	0.00	3,875.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
3,900.0	0.50	105.68	3,900.0	0.0	0.1	0.0	2.00	2.00	0.00
4,000.0	2.50	105.68	4,000.0	-0.7	2.6	-0.8	2.00	2.00	0.00
4,100.0	4.50	105.68	4,099.8	-2.4	8.5	-2.4	2.00	2.00	0.00
4,200.0	6.50	105.68	4,199.3	-5.0	17.7	-5.1	2.00	2.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.0	8.50	105.68	4,298.4	-8.5	30.3	-8.7	2.00	2.00	0.00
4,400.0	10.50	105.68	4,397.1	-13.0	46.2	-13.3	2.00	2.00	0.00
4,500.0	12.50	105.68	4,495.1	-18.3	65.4	-18.8	2.00	2.00	0.00
4,600.0	14.50	105.68	4,592.3	-24.7	87.9	-25.2	2.00	2.00	0.00
4,700.0	16.50	105.68	4,688.6	-31.9	113.6	-32.6	2.00	2.00	0.00
4,800.0	18.50	105.68	4,784.0	-40.0	142.5	-40.9	2.00	2.00	0.00
4,900.0	20.50	105.68	4,878.3	-49.0	174.7	-50.2	2.00	2.00	0.00
4,989.0	22.28	105.68	4,961.1	-57.8	205.9	-59.2	2.00	2.00	0.00
Start 1859.5 hold at 4989.0 MD									
5,000.0	22.28	105.68	4,971.3	-58.9	209.9	-60.3	0.00	0.00	0.00
5,100.0	22.28	105.68	5,063.8	-69.2	246.4	-70.8	0.00	0.00	0.00
5,200.0	22.28	105.68	5,156.4	-79.4	282.9	-81.3	0.00	0.00	0.00
5,300.0	22.28	105.68	5,248.9	-89.7	319.4	-91.8	0.00	0.00	0.00
5,354.1	22.28	105.68	5,299.0	-95.2	339.2	-97.4	0.00	0.00	0.00
G25: Bell Cyn									
5,400.0	22.28	105.68	5,341.5	-99.9	355.9	-102.3	0.00	0.00	0.00
5,500.0	22.28	105.68	5,434.0	-110.1	392.5	-112.7	0.00	0.00	0.00
5,600.0	22.28	105.68	5,526.5	-120.4	429.0	-123.2	0.00	0.00	0.00
5,700.0	22.28	105.68	5,619.1	-130.6	465.5	-133.7	0.00	0.00	0.00
5,800.0	22.28	105.68	5,711.6	-140.9	502.0	-144.2	0.00	0.00	0.00
5,878.3	22.28	105.68	5,784.0	-148.9	530.5	-152.4	0.00	0.00	0.00
G13: Cherry Cyn.									
5,900.0	22.28	105.68	5,804.1	-151.1	538.5	-154.7	0.00	0.00	0.00
6,000.0	22.28	105.68	5,896.7	-161.4	575.0	-165.2	0.00	0.00	0.00
6,100.0	22.28	105.68	5,989.2	-171.6	611.5	-175.7	0.00	0.00	0.00
6,200.0	22.28	105.68	6,081.7	-181.9	648.0	-186.2	0.00	0.00	0.00
6,300.0	22.28	105.68	6,174.3	-192.1	684.5	-196.6	0.00	0.00	0.00
6,400.0	22.28	105.68	6,266.8	-202.3	721.0	-207.1	0.00	0.00	0.00
6,500.0	22.28	105.68	6,359.3	-212.6	757.5	-217.6	0.00	0.00	0.00
6,600.0	22.28	105.68	6,451.9	-222.8	794.0	-228.1	0.00	0.00	0.00
6,700.0	22.28	105.68	6,544.4	-233.1	830.5	-238.6	0.00	0.00	0.00
6,800.0	22.28	105.68	6,636.9	-243.3	867.0	-249.1	0.00	0.00	0.00
6,848.5	22.28	105.68	6,681.8	-248.3	884.7	-254.2	0.00	0.00	0.00
Start Drop -1.50									
6,900.0	21.51	105.68	6,729.6	-253.5	903.2	-259.5	1.50	-1.50	0.00
7,000.0	20.01	105.68	6,823.1	-263.1	937.3	-269.3	1.50	-1.50	0.00
7,100.0	18.51	105.68	6,917.5	-272.0	969.1	-278.4	1.50	-1.50	0.00
7,200.0	17.01	105.68	7,012.7	-280.2	998.4	-286.8	1.50	-1.50	0.00
7,204.5	16.94	105.68	7,017.0	-280.6	999.7	-287.2	1.50	-1.50	0.00
G7: Brushy Cyn.									
7,300.0	15.51	105.68	7,108.7	-287.8	1,025.4	-294.6	1.50	-1.50	0.00
7,400.0	14.01	105.68	7,205.4	-294.7	1,049.9	-301.6	1.50	-1.50	0.00
7,500.0	12.51	105.68	7,302.8	-300.9	1,072.0	-308.0	1.50	-1.50	0.00
7,600.0	11.01	105.68	7,400.7	-306.4	1,091.6	-313.6	1.50	-1.50	0.00
7,700.0	9.51	105.68	7,499.1	-311.2	1,108.7	-318.5	1.50	-1.50	0.00
7,800.0	8.01	105.68	7,597.9	-315.3	1,123.4	-322.7	1.50	-1.50	0.00
7,900.0	6.51	105.68	7,697.1	-318.7	1,135.6	-326.2	1.50	-1.50	0.00
8,000.0	5.01	105.68	7,796.6	-321.4	1,145.2	-329.0	1.50	-1.50	0.00
8,100.0	3.51	105.68	7,896.3	-323.4	1,152.4	-331.1	1.50	-1.50	0.00
8,200.0	2.01	105.68	7,996.2	-324.7	1,157.0	-332.4	1.50	-1.50	0.00
8,300.0	0.51	105.68	8,096.2	-325.3	1,159.1	-333.0	1.50	-1.50	0.00
8,333.8	0.00	0.00	8,130.0	-325.4	1,159.3	-333.0	1.50	-1.50	-312.29
Start Build 8.00 - KOP - Gavilon Fed Com #106H									

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Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.0	5.29	33.50	8,196.1	-322.8	1,160.9	-330.5	8.00	8.00	50.63
8,447.3	9.08	33.50	8,243.0	-317.9	1,164.2	-325.6	8.00	8.00	0.00
G5: L. Brushy Cyn.									
8,500.0	13.29	33.50	8,294.7	-309.4	1,169.8	-317.1	8.00	8.00	0.00
8,600.0	21.29	33.50	8,390.1	-284.6	1,186.2	-292.4	8.00	8.00	0.00
8,631.8	23.83	33.50	8,419.4	-274.4	1,193.0	-282.3	8.00	8.00	0.00
FTP - Gavilon Fed Com #106H									
8,700.0	29.29	33.50	8,480.4	-249.0	1,209.8	-257.0	8.00	8.00	0.00
8,759.5	34.05	33.50	8,531.0	-223.0	1,227.0	-231.1	8.00	8.00	0.00
G4: BSGL (CS9)									
8,800.0	37.29	33.50	8,563.9	-203.3	1,240.1	-211.5	8.00	8.00	0.00
8,900.0	45.29	33.50	8,639.0	-148.3	1,276.5	-156.7	8.00	8.00	0.00
9,000.0	53.29	33.50	8,704.2	-85.1	1,318.3	-93.8	8.00	8.00	0.00
9,100.0	61.29	33.50	8,758.2	-15.0	1,364.7	-24.0	8.00	8.00	0.00
9,200.0	69.29	33.50	8,799.9	60.7	1,414.8	51.3	8.00	8.00	0.00
9,300.0	77.29	33.50	8,828.7	140.5	1,467.6	130.8	8.00	8.00	0.00
9,400.0	85.29	33.50	8,843.8	222.9	1,522.1	212.8	8.00	8.00	0.00
9,458.8	90.00	33.50	8,846.2	271.9	1,554.6	261.6	8.00	8.00	0.00
Start DLS 2.00 TFO -90.60									
9,500.0	89.99	32.68	8,846.2	306.4	1,577.0	295.9	2.00	-0.02	-2.00
9,600.0	89.97	30.68	8,846.2	391.5	1,629.5	380.6	2.00	-0.02	-2.00
9,700.0	89.95	28.68	8,846.3	478.3	1,679.0	467.2	2.00	-0.02	-2.00
9,800.0	89.93	26.68	8,846.4	566.9	1,725.5	555.4	2.00	-0.02	-2.00
9,900.0	89.91	24.68	8,846.6	657.0	1,768.8	645.3	2.00	-0.02	-2.00
10,000.0	89.89	22.68	8,846.7	748.6	1,809.0	736.6	2.00	-0.02	-2.00
10,100.0	89.87	20.68	8,846.9	841.5	1,845.9	829.2	2.00	-0.02	-2.00
10,200.0	89.85	18.68	8,847.2	935.7	1,879.6	923.2	2.00	-0.02	-2.00
10,300.0	89.83	16.68	8,847.5	1,030.9	1,909.9	1,018.2	2.00	-0.02	-2.00
10,400.0	89.81	14.68	8,847.8	1,127.2	1,937.0	1,114.3	2.00	-0.02	-2.00
10,455.9	89.79	13.56	8,848.0	1,181.4	1,950.6	1,168.4	2.00	-0.02	-2.00
L8.2: U. Avalon Shale									
10,500.0	89.79	12.68	8,848.2	1,224.4	1,960.6	1,211.3	2.00	-0.02	-2.00
10,600.0	89.77	10.68	8,848.6	1,322.3	1,980.8	1,309.1	2.00	-0.02	-2.00
10,700.0	89.75	8.68	8,849.0	1,420.9	1,997.7	1,407.6	2.00	-0.02	-2.00
10,800.0	89.73	6.68	8,849.4	1,520.0	2,011.0	1,506.6	2.00	-0.02	-2.00
10,900.0	89.71	4.68	8,849.9	1,619.5	2,020.9	1,606.0	2.00	-0.02	-2.00
11,000.0	89.69	2.68	8,850.4	1,719.3	2,027.3	1,705.8	2.00	-0.02	-2.00
11,100.0	89.67	0.68	8,851.0	1,819.2	2,030.3	1,805.7	2.00	-0.02	-2.00
11,153.0	89.66	359.62	8,851.3	1,872.2	2,030.4	1,858.7	2.00	-0.02	-2.00
Start DLS 2.00 TFO 0.00									
11,170.3	90.01	359.62	8,851.4	1,889.5	2,030.3	1,875.9	2.00	2.00	0.00
Start 8176.9 hold at 11170.3 MD									
11,200.0	90.01	359.62	8,851.3	1,919.2	2,030.1	1,905.7	0.00	0.00	0.00
11,300.0	90.01	359.62	8,851.3	2,019.2	2,029.4	2,005.7	0.00	0.00	0.00
11,400.0	90.01	359.62	8,851.3	2,119.2	2,028.7	2,105.7	0.00	0.00	0.00
11,500.0	90.01	359.62	8,851.3	2,219.2	2,028.1	2,205.7	0.00	0.00	0.00
11,600.0	90.01	359.62	8,851.3	2,319.2	2,027.4	2,305.7	0.00	0.00	0.00
11,700.0	90.01	359.62	8,851.3	2,419.2	2,026.7	2,405.7	0.00	0.00	0.00
11,800.0	90.01	359.62	8,851.2	2,519.2	2,026.1	2,505.7	0.00	0.00	0.00
11,900.0	90.01	359.62	8,851.2	2,619.2	2,025.4	2,605.7	0.00	0.00	0.00
12,000.0	90.01	359.62	8,851.2	2,719.2	2,024.7	2,705.7	0.00	0.00	0.00
12,100.0	90.01	359.62	8,851.2	2,819.2	2,024.1	2,805.7	0.00	0.00	0.00
12,200.0	90.01	359.62	8,851.2	2,919.2	2,023.4	2,905.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	90.01	359.62	8,851.2	3,019.2	2,022.7	3,005.7	0.00	0.00	0.00
12,400.0	90.01	359.62	8,851.1	3,119.2	2,022.1	3,105.7	0.00	0.00	0.00
12,500.0	90.01	359.62	8,851.1	3,219.2	2,021.4	3,205.7	0.00	0.00	0.00
12,600.0	90.01	359.62	8,851.1	3,319.2	2,020.7	3,305.7	0.00	0.00	0.00
12,700.0	90.01	359.62	8,851.1	3,419.2	2,020.1	3,405.7	0.00	0.00	0.00
12,800.0	90.01	359.62	8,851.1	3,519.2	2,019.4	3,505.7	0.00	0.00	0.00
12,900.0	90.01	359.62	8,851.1	3,619.2	2,018.7	3,605.7	0.00	0.00	0.00
13,000.0	90.01	359.62	8,851.0	3,719.2	2,018.1	3,705.7	0.00	0.00	0.00
13,100.0	90.01	359.62	8,851.0	3,819.2	2,017.4	3,805.7	0.00	0.00	0.00
13,200.0	90.01	359.62	8,851.0	3,919.2	2,016.7	3,905.7	0.00	0.00	0.00
13,300.0	90.01	359.62	8,851.0	4,019.2	2,016.1	4,005.7	0.00	0.00	0.00
13,400.0	90.01	359.62	8,851.0	4,119.1	2,015.4	4,105.7	0.00	0.00	0.00
13,500.0	90.01	359.62	8,851.0	4,219.1	2,014.7	4,205.7	0.00	0.00	0.00
13,600.0	90.01	359.62	8,851.0	4,319.1	2,014.1	4,305.7	0.00	0.00	0.00
13,700.0	90.01	359.62	8,850.9	4,419.1	2,013.4	4,405.7	0.00	0.00	0.00
13,800.0	90.01	359.62	8,850.9	4,519.1	2,012.7	4,505.7	0.00	0.00	0.00
13,900.0	90.01	359.62	8,850.9	4,619.1	2,012.1	4,605.7	0.00	0.00	0.00
14,000.0	90.01	359.62	8,850.9	4,719.1	2,011.4	4,705.7	0.00	0.00	0.00
14,100.0	90.01	359.62	8,850.9	4,819.1	2,010.7	4,805.7	0.00	0.00	0.00
14,181.9	90.01	359.62	8,850.9	4,901.1	2,010.2	4,887.6	0.00	0.00	0.00
BPP1 - Gavilon Fed Com #106H									
14,200.0	90.01	359.62	8,850.9	4,919.1	2,010.1	4,905.7	0.00	0.00	0.00
14,300.0	90.01	359.62	8,850.8	5,019.1	2,009.4	5,005.7	0.00	0.00	0.00
14,400.0	90.01	359.62	8,850.8	5,119.1	2,008.7	5,105.7	0.00	0.00	0.00
14,500.0	90.01	359.62	8,850.8	5,219.1	2,008.1	5,205.7	0.00	0.00	0.00
14,600.0	90.01	359.62	8,850.8	5,319.1	2,007.4	5,305.7	0.00	0.00	0.00
14,700.0	90.01	359.62	8,850.8	5,419.1	2,006.7	5,405.7	0.00	0.00	0.00
14,800.0	90.01	359.62	8,850.8	5,519.1	2,006.1	5,505.7	0.00	0.00	0.00
14,900.0	90.01	359.62	8,850.7	5,619.1	2,005.4	5,605.7	0.00	0.00	0.00
15,000.0	90.01	359.62	8,850.7	5,719.1	2,004.7	5,705.7	0.00	0.00	0.00
15,100.0	90.01	359.62	8,850.7	5,819.1	2,004.1	5,805.7	0.00	0.00	0.00
15,200.0	90.01	359.62	8,850.7	5,919.1	2,003.4	5,905.7	0.00	0.00	0.00
15,300.0	90.01	359.62	8,850.7	6,019.1	2,002.7	6,005.7	0.00	0.00	0.00
15,400.0	90.01	359.62	8,850.7	6,119.1	2,002.1	6,105.7	0.00	0.00	0.00
15,500.0	90.01	359.62	8,850.6	6,219.1	2,001.4	6,205.7	0.00	0.00	0.00
15,502.8	90.01	359.62	8,850.6	6,221.9	2,001.4	6,208.5	0.00	0.00	0.00
BPP2 - Gavilon Fed Com #106H									
15,600.0	90.01	359.62	8,850.6	6,319.1	2,000.7	6,305.7	0.00	0.00	0.00
15,700.0	90.01	359.62	8,850.6	6,419.1	2,000.1	6,405.7	0.00	0.00	0.00
15,800.0	90.01	359.62	8,850.6	6,519.1	1,999.4	6,505.7	0.00	0.00	0.00
15,900.0	90.01	359.62	8,850.6	6,619.1	1,998.7	6,605.7	0.00	0.00	0.00
16,000.0	90.01	359.62	8,850.6	6,719.1	1,998.1	6,705.7	0.00	0.00	0.00
16,100.0	90.01	359.62	8,850.5	6,819.1	1,997.4	6,805.7	0.00	0.00	0.00
16,200.0	90.01	359.62	8,850.5	6,919.1	1,996.7	6,905.7	0.00	0.00	0.00
16,300.0	90.01	359.62	8,850.5	7,019.1	1,996.1	7,005.7	0.00	0.00	0.00
16,400.0	90.01	359.62	8,850.5	7,119.1	1,995.4	7,105.7	0.00	0.00	0.00
16,500.0	90.01	359.62	8,850.5	7,219.1	1,994.7	7,205.7	0.00	0.00	0.00
16,600.0	90.01	359.62	8,850.5	7,319.1	1,994.1	7,305.7	0.00	0.00	0.00
16,700.0	90.01	359.62	8,850.4	7,419.1	1,993.4	7,405.7	0.00	0.00	0.00
16,800.0	90.01	359.62	8,850.4	7,519.1	1,992.7	7,505.7	0.00	0.00	0.00
16,900.0	90.01	359.62	8,850.4	7,619.1	1,992.1	7,605.7	0.00	0.00	0.00
17,000.0	90.01	359.62	8,850.4	7,719.1	1,991.4	7,705.7	0.00	0.00	0.00
17,100.0	90.01	359.62	8,850.4	7,819.1	1,990.7	7,805.7	0.00	0.00	0.00
17,200.0	90.01	359.62	8,850.4	7,919.1	1,990.1	7,905.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,300.0	90.01	359.62	8,850.3	8,019.1	1,989.4	8,005.7	0.00	0.00	0.00
17,400.0	90.01	359.62	8,850.3	8,119.1	1,988.7	8,105.7	0.00	0.00	0.00
17,500.0	90.01	359.62	8,850.3	8,219.1	1,988.1	8,205.7	0.00	0.00	0.00
17,600.0	90.01	359.62	8,850.3	8,319.1	1,987.4	8,305.7	0.00	0.00	0.00
17,700.0	90.01	359.62	8,850.3	8,419.1	1,986.7	8,405.7	0.00	0.00	0.00
17,800.0	90.01	359.62	8,850.3	8,519.1	1,986.1	8,505.7	0.00	0.00	0.00
17,900.0	90.01	359.62	8,850.2	8,619.0	1,985.4	8,605.7	0.00	0.00	0.00
18,000.0	90.01	359.62	8,850.2	8,719.0	1,984.7	8,705.7	0.00	0.00	0.00
18,100.0	90.01	359.62	8,850.2	8,819.0	1,984.1	8,805.7	0.00	0.00	0.00
18,200.0	90.01	359.62	8,850.2	8,919.0	1,983.4	8,905.7	0.00	0.00	0.00
18,300.0	90.01	359.62	8,850.2	9,019.0	1,982.7	9,005.7	0.00	0.00	0.00
18,400.0	90.01	359.62	8,850.2	9,119.0	1,982.1	9,105.7	0.00	0.00	0.00
18,500.0	90.01	359.62	8,850.1	9,219.0	1,981.4	9,205.7	0.00	0.00	0.00
18,600.0	90.01	359.62	8,850.1	9,319.0	1,980.7	9,305.7	0.00	0.00	0.00
18,700.0	90.01	359.62	8,850.1	9,419.0	1,980.1	9,405.7	0.00	0.00	0.00
18,800.0	90.01	359.62	8,850.1	9,519.0	1,979.4	9,505.7	0.00	0.00	0.00
18,900.0	90.01	359.62	8,850.1	9,619.0	1,978.7	9,605.7	0.00	0.00	0.00
19,000.0	90.01	359.62	8,850.1	9,719.0	1,978.1	9,705.7	0.00	0.00	0.00
19,100.0	90.01	359.62	8,850.0	9,819.0	1,977.4	9,805.7	0.00	0.00	0.00
19,200.0	90.01	359.62	8,850.0	9,919.0	1,976.7	9,905.7	0.00	0.00	0.00
19,300.0	90.01	359.62	8,850.0	10,019.0	1,976.1	10,005.7	0.00	0.00	0.00
19,347.1	90.01	359.62	8,850.0	10,066.1	1,975.8	10,052.8	0.00	0.00	0.00
TD at 19347.1 - BHL - Gavilon Fed Com #106H									

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 - Gavilon Fed Com - plan hits target center - Point	0.00	0.01	8,130.0	-325.4	1,159.3	554,397.00	704,200.10	32° 31' 20.647 N	103° 40' 15.005 W
FTP - Gavilon Fed Com - plan misses target center by 7.1usft at 8631.8usft MD (8419.4 TVD, -274.4 N, 1193.0 E) - Point	0.00	0.00	8,419.6	-278.6	1,198.7	554,443.76	704,239.51	32° 31' 21.107 N	103° 40' 14.541 W
BHL - Gavilon Fed Com - plan hits target center - Point	0.00	0.00	8,850.0	10,066.1	1,975.8	564,788.50	705,016.60	32° 33' 3.423 N	103° 40' 4.711 W
BPP2 - Gavilon Fed Cor - plan misses target center by 16.7usft at 15502.8usft MD (8850.6 TVD, 6221.9 N, 2001.4 E) - Point	0.00	0.00	8,850.2	6,222.0	2,018.1	560,944.36	705,058.93	32° 32' 25.382 N	103° 40' 4.497 W
BPP1 - Gavilon Fed Cor - plan misses target center by 22.4usft at 14181.9usft MD (8850.9 TVD, 4901.1 N, 2010.2 E) - Point	0.00	0.00	8,850.2	4,901.2	2,032.6	559,623.56	705,073.47	32° 32' 12.311 N	103° 40' 4.423 W

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Gavilon Fed Com #106H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3687.5usft
Project:	Ranger/Arrowhead	**MD Reference:**	KB @ 3687.5usft
Site:	Gavilon	**North Reference:**	Grid
Well:	Gavilon Fed Com #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,593.0	1,593.0	Rustler		0.00	359.62
1,906.0	1,906.0	Salado		0.00	359.62
3,603.0	3,603.0	G30:CS14-CSB (Lamar/Tansil)		0.00	359.62
3,872.0	3,872.0	Capitan		0.00	359.62
5,354.1	5,299.0	G25: Bell Cyn		0.00	359.62
5,878.3	5,784.0	G13: Cherry Cyn.		0.00	359.62
7,204.5	7,017.0	G7: Brushy Cyn.		0.00	359.62
8,447.3	8,243.0	G5: L. Brushy Cyn.		0.00	359.62
8,759.5	8,531.0	G4: BSGL (CS9)		0.00	359.62
10,455.9	8,848.0	L8.2: U. Avalon Shale		0.00	359.62

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,875.0	3,875.0	0.0	0.0	Start Build 2.00
4,989.0	4,961.1	-57.8	205.9	Start 1859.5 hold at 4989.0 MD
6,848.5	6,681.8	-248.3	884.7	Start Drop -1.50
8,333.8	8,130.0	-325.4	1,159.3	Start Build 8.00
9,458.8	8,846.2	271.9	1,554.6	Start DLS 2.00 TFO -90.60
11,153.0	8,851.3	1,872.2	2,030.4	Start DLS 2.00 TFO 0.00
11,170.3	8,851.4	1,889.5	2,030.3	Start 8176.9 hold at 11170.3 MD
19,347.1	8,850.0	10,066.1	1,975.8	TD at 19347.1

Released to Imaging: 8/21/2026 8:53:16 AM

Casing Table Specification Sheet

Gavilon Fed Com 106H
SHL: 395' FSL & 537' FWL Section 33
BHL: 110' FNL & 2580' FWL Section 28
Township/Range: 20S 33E
Elevation Above Sea Level: 3659

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 - 1663	0 - 1663	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 3653	0 - 3653	10.75	45.5	HCL-80	BUTT-SC	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5928	0 - 5834	8.625	32	P-110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 19347	0 - 8850	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Matador Production Company

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 601701
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

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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

Operator:	OGRID:
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	Action Number: 601701
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
nfitzgerald	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/2/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	8/21/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	8/21/2026
jeffrey.harrison	This well is within the Capitan Reef. The first intermediate casing string shall be set and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	8/21/2026
jeffrey.harrison	This well is within the designated 4-string area. Four full casing strings must be utilized for this well.	8/21/2026
jeffrey.harrison	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	8/21/2026
jeffrey.harrison	If a DV tool used, once the DV tool is opened and circulation is established, it needs to be noted if cement is circulated off of the top of the DV tool and how much.	8/21/2026
jeffrey.harrison	If cement is not circulated off of the top of the DV tool, then a CBL will be required. Depending upon the results of the CBL, remedial action may be required prior to drilling operations continuing.	8/21/2026
jeffrey.harrison	Cement must be in place for at least 8 hours AND achieve a minimum compressive strength of 500 psi before performing further operations on the well.	8/21/2026
jeffrey.harrison	Brine water shall not be used in the Capitan Reef. Only fresh water shall be utilized until the Capitan Reef is cased and cemented.	8/21/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/21/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	8/21/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	8/21/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	8/21/2026
jeffrey.harrison	Administrative order required for non-standard location prior to production.	8/21/2026