

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Batch Well Data

GAVILON FED COM 305H, US Well Number: 3002548867, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

GAVILON FED COM 306H, US Well Number: 3002548629, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

GAVILON FED COM 403H, US Well Number: 3002547857, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

GAVILON FED COM 706H, US Well Number: 3002548527, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

GAVILON FED COM 505H, US Well Number: 3002547860, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

GAVILON FED COM 501H, US Well Number: 3002547858, Case Number: NMNM57683, Lease Number: NMNM57683,
Operator:MATADOR PRODUCTION COMPANY

CONFIDENTIAL

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
GAVILON FED	706H	3002548527	NMNM57683	NMNM57683	MATADOR
GAVILON FED	501H	3002547858	NMNM57683	NMNM57683	MATADOR
GAVILON FED	505H	3002547860	NMNM57683	NMNM57683	MATADOR
GAVILON FED	306H	3002548629	NMNM57683	NMNM57683	MATADOR
GAVILON FED	403H	3002547857	NMNM57683	NMNM57683	MATADOR
GAVILON FED	305H	3002548867	NMNM57683	NMNM57683	MATADOR

Notice of Intent

Sundry ID: 2675401

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/13/2022

Date proposed operation will begin: 06/24/2022

Type of Action: APD Change

Time Sundry Submitted: 05:21

Procedure Description: BLM Bond No.: NMB001079 Surety Bond No.: RLB0015172 Matador would like to request the slimming of our proposed casing design to have 16" surface, 10.75" intermediate I, 8.625" intermediate II and 5.5" production casing. We would also like to change the hole sizes to 20" surface, 13.5" intermediate I, 9.625" intermediate II and 7.875" production hole.

NOI Attachments

Procedure Description

- Gavilon__501H_Drill_Plan___Slim_Hole_Sundry_20220607120306.pdf
- Gavilon_Fed_Com__403H_Drill_Plan_Slim_Hole_Design_20220607120243.pdf
- Gavilon__306H_Drill_Plan___Slimhole_Sundry_20220607120153.pdf
- Gavilon__305H_Drill_Plan___Slimhole_Sundry_20220607120125.pdf
- Gavilon__706H_Drill_Plan___Slimhole_Sundry_20220607120044.pdf
- Gavilon__505H_Drill_Plan___Slimhole_Sundry_20220607120008.pdf
- 8.625in_32lbf_P110EC_SPRINT_SF_alt_20220607120008.pdf

Operator

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

Operator Electronic Signature: NICKY FITZGERALD

Signed on: JUN 07, 2022 12:03 PM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS**State:** TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City:**State:****Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 06/27/2022

Signature: Chris Walls

Issued on: 24 Jun. 2021 by Wesley Ott

VAM® SPRINT-SF

Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00 Plain End: 31.13	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-SF

PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	High Yield	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

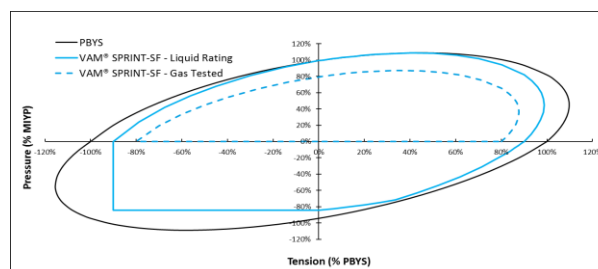
CONNECTION PROPERTIES		
Connection Type	Integral Semi-Flush	
Connection OD (nom):	9.033	in.
Connection ID (nom):	7.944	in.
Make-Up Loss	5.886	in.
Critical Cross Section	8.223	sqin.
Tension Efficiency	90.0	% of pipe
Compression Efficiency	90.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	1,030	klb
Compression Resistance	1,030	klb
Internal Yield Pressure	8,930	psi
Collapse Resistance	4,000	psi
Max. Structural Bending	57	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft

* 87.5% RBW

TORQUE VALUES		
Min. Make-up torque	24,750	ft.lb
Opt. Make-up torque	27,250	ft.lb
Max. Make-up torque	29,750	ft.lb
Max. Torque with Sealability (MTS)	50,000	ft.lb

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



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usa@vamfieldservice.com
mexico@vamfieldservice.com
brazil@vamfieldservice.com

Do you need help on this product? - Remember no one knows VAM® like VAM®

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dubai@vamfieldservice.com
nigeria@vamfieldservice.com
angola@vamfieldservice.com

china@vamfieldservice.com
baku@vamfieldservice.com
singapore@vamfieldservice.com
australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



Drill Plan**Gavilon Fed Com #305H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #305H to make the following changes to the current APD.

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	20	0 - 1521	0 - 1521	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3281	0 - 3281	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 4996	0 - 4996	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 19786	0 - 9570	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	1150	1.78	2047	13.5	100%	0	C	5% NaCl + LCM
	Tail	350	1.35	478	14.8	100%	1217	C	5% NaCl + LCM
Intermediate 1	Lead	1110	1.78	1968	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.35	380	14.8	50%	2625	C	5% NaCl + LCM
Intermediate 2	Lead	450	1.78	796	13.5	50%	0	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	160	1.35	216	14.8	50%	3997	C	5% NaCl + LCM
Production	Lead	270	3.66	998	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1660	1.35	2240	13.2	15%	8594	A/C	Fluid Loss + Dispersant +

-Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 10-3/4" or 8-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

-Matador would also like to request a variance to perform a bradenhead squeeze on Intermediate 2 if needed.

Mud Program

An electronic Pason mud monitoring system complying with Onshore Order #2 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	20	Spud Mud	0 - 1521	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1521 - 3281	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3281 - 4996	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	4996 - 19786	8.6 - 9.4	28-30	NC

Drill Plan**Gavilon Fed Com #306H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #306H to make the following changes to the current APD.

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	20	0 - 1487	0 - 1487	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3295	0 - 3295	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 4970	0 - 4970	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 19797	0 - 9570	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	1120	1.78	2000	13.5	100%	0	C	5% NaCl + LCM
	Tail	350	1.35	471	14.8	100%	1187	C	5% NaCl + LCM
Intermediate 1	Lead	1100	1.78	1962	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.35	381	14.8	50%	2636	C	5% NaCl + LCM
Intermediate 2	Lead	450	1.78	792	13.5	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	160	1.35	215	14.8	50%	3976	C	5% NaCl + LCM
Production	Lead	280	3.66	1029	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1640	1.35	2214	13.2	15%	8734	A/C	Fluid Loss + Dispersant + Retarder + LCM

-Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 10-3/4" or 8-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

-Matador would also like to request a variance to perform a bradenhead squeeze on Intermediate 2 if needed.

Mud Program

An electronic Pason mud monitoring system complying with Onshore Order #2 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	20	Spud Mud	0 - 1487	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1487 - 3295	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3295 - 4970	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	4970 - 19797	8.6 - 9.4	28-30	NC

Drill Plan**Gavilon Fed Com #501H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #501H to make the following changes to the current APD.

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	20	0 - 1575	0 - 1575	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3301	0 - 3301	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5026	0 - 5026	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 20834	0 - 9897	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	1490	1.78	2645	13.5	100%	0	C	5% NaCl + LCM
	Tail	2330	1.35	3140	14.8	100%	1260	C	5% NaCl + LCM
Intermediate 1	Lead	1120	1.78	1996	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.35	382	14.8	50%	2641	C	5% NaCl + LCM
Intermediate 2	Lead	450	1.78	802	13.5	50%	0	C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	160	1.35	217	14.8	50%	4026	C	5% NaCl + LCM
Production	Lead	270	3.66	989	10.3	25%	4826	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1690	1.35	2283	13.2	15%	9427	A/C	Fluid Loss + Dispersant + Retarder + LCM

-Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 10-3/4" or 8-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

-Matador would also like to request a variance to perform a bradenhead squeeze on Intermediate 2 if needed.

Mud Program

An electronic Pason mud monitoring system complying with Onshore Order #2 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	20	Spud Mud	0 - 1575	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1575 - 3301	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3301 - 5026	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	5026 - 20834	8.8 - 9.5	28-30	NC

Drill Plan**Gavilon Fed Com #505H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #505H to make the following changes to the current APD.

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	20	0 - 1555	0 - 1555	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3298	0 - 3298	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5003	0 - 5003	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 20691	0 - 10470	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	1170	1.78	2090	13.5	100%	0	C	5% NaCl + LCM
	Tail	1910	1.35	2578	14.8	100%	1244	C	5% NaCl + LCM
Intermediate 1	Lead	1120	1.78	1987	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.35	382	14.8	50%	2638	C	5% NaCl + LCM
Intermediate 2	Lead	450	1.78	798	13.5	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	160	1.35	217	14.8	50%	4003	C	5% NaCl + LCM
Production	Lead	280	3.66	1009	10.3	25%	4803	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1660	1.35	2240	13.2	15%	9500	A/C	Fluid Loss + Dispersant + Retarder + LCM

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Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	20	Spud Mud	0 - 1555	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1555 - 3298	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3298 - 5003	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	5003 - 20691	8.6 - 9.4	28-30	NC

Drill Plan**Gavilon Fed Com #706H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #706H to make the following changes to the current APD.

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	20	0 - 1555	0 - 1555	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3665	0 - 3665	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5045	0 - 5045	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 20687	0 - 10470	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	1170	1.78	2090	13.5	100%	0	C	5% NaCl + LCM
	Tail	1910	1.35	2578	14.8	100%	1244	C	5% NaCl + LCM
Intermediate 1	Lead	1210	1.78	2148	13.5	50%	0	C	5% NaCl + LCM
	Tail	310	1.35	422	14.8	50%	2932	C	5% NaCl + LCM
Intermediate 2	Lead	460	1.78	810	13.5	50%	0	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	160	1.35	217	14.8	50%	4045	C	5% NaCl + LCM
Production	Lead	330	3.66	1214	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1640	1.35	2219	13.2	15%	9599	A/C	Fluid Loss + Dispersant +

-Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 10-3/4" or 8-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

-Matador would also like to request a variance to perform a bradenhead squeeze on Intermediate 2 if needed.

Mud Program

An electronic Pason mud monitoring system complying with Onshore Order #2 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	20	Spud Mud	0 - 1555	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1555 - 3665	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3665 - 5045	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	5045 - 20687	8.6 - 9.4	28-30	NC

Drill Plan**Gavilon Fed Com #403H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #403H to make the following changes to the current APD.

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	20	0 - 1575	0 - 1575	16	84	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	13.5	0 - 3296	0 - 3296	10.75	45.5	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	9.875	0 - 5021	0 - 5021	8.625	32	P-110	VAM-Sprint SF	1.125	1.125	1.8
Production	7.875	0 - 19884	0 - 9570	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- 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

String	Type	Sacks	Yield	Cu.	Weight	Percent	Top of	Class	Blend
Surface	Lead	1190	1.78	2115	13.5	100%	0	C	5% NaCl + LCM
	Tail	370	1.35	495	14.8	100%	1260	C	5% NaCl + LCM
Intermediate 1	Lead	1120	1.78	1993	13.5	50%	0	C	5% NaCl + LCM
	Tail	280	1.35	381	14.8	50%	2637	C	5% NaCl + LCM
Intermediate 2	Lead	450	1.78	801	13.5	50%	0	C	Bentonite + 1% CaCL ₂ + 8%
	Tail	160	1.35	217	14.8	50%	4021	C	5% NaCl + LCM
Production	Lead	220	3.66	796	10.3	25%	4821	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	1680	1.35	2272	13.2	15%	8532	A/C	Fluid Loss + Dispersant + Retarder + LCM

-Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 10-3/4" or 8-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

-Matador would also like to request a variance to perform a bradenhead squeeze on Intermediate 2 if needed.

Mud Program

An electronic Pason mud monitoring system complying with Onshore Order #2 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	20	Spud Mud	0 - 1575	8.4 - 8.8	28-30	NC
Intermediate 1	13.5	Brine Water	1575 - 3296	9.5 - 10.2	28-32	NC
Intermediate 2	9.875	Fresh Water	3296 - 5021	8.4 - 8.6	28-30	NC
Production	7.875	OBM/Cut Brine	5021 - 19884	8.6 - 9.4	28-30	NC

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

CONDITIONS

Action 121450

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 121450
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/14/2022