Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5. Lease Serial No. NMNM138866

Rec'd 05/01/2020 - NMOCD

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

abandoned wei	is form for proposals to dri II. Use form 3160-3 (APD)	6. If Indian, Allotte	ee or Tribe Name	
SUBMIT IN	TRIPLICATE - Other instru	ctions on page 2	7. If Unit or CA/A	greement, Name and/or No.
1. Type of Well			8. Well Name and I	
☑ Oil Well ☐ Gas Well ☐ Oth			MultipleSee A	Attached
Name of Operator MATADOR PRODUCTION CO	Contact: NI(DMPANYE-Mail: nicky.fitzgerald	CKY FITZGERALD d@matadorresources.com	9. API Well No. MultipleSee	Attached
3a. Address ONE LINCOLN CENTER 5400 DALLAS, TX 75240		b. Phone No. (include area code) 00 972-371-5448	10. Field and Pool JENNINGS-E	or Exploratory Area BONE SPRING, WEST
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)		11. County or Paris	sh, State
MultipleSee Attached			EDDY COUN	ITY, NM
12. CHECK THE AF	PPROPRIATE BOX(ES) TO) INDICATE NATURE O	F NOTICE, REPORT, OR O	THER DATA
TYPE OF SUBMISSION		ТҮРЕ ОР	ACTION	
Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	■ Water Disposal	
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fit BLM Bond No.: NMB001079	k will be performed or provide the operations. If the operation results andonment Notices must be filed or	Bond No. on file with BLM/BIA s in a multiple completion or reco	 Required subsequent reports must impletion in a new interval, a Form 3 	be filed within 30 days 3160-4 must be filed once
Surety Bond No.: RLB001517	2			
Matador respectfully requests Federal Com 121H (30-015-46 casing to 7-5/8? casing and de Blake Hermes at 972-371-548	6978). 2nd Bone Spring Sun eepen. Please find supporti	dry Items = Add option to sing documentation attached	lim down 9-5/8? d and contact	
This sundry will also apply to t	he following Voni wells:			
Voni Federal Com 122H (30-0 Voni Federal Com 123H (30-0				
		Accepted 0	5/01/2020 - KMS NMOCD	
14. I hereby certify that the foregoing is	Electronic Submission #512	DUCTION COMPANY, sent to	the Carlsbad *	
Name(Printed/Typed) BLAKE H	ERMES	Title DRILLIN	NG ENGINEER	
Signature (Electronic S	Submission)	Date 04/22/20	020	
	THIS SPACE FOR	FEDERAL OR STATE	OFFICE USE	
				D-4- 05/04/0000
Approved By NDUNGU KAMAU Conditions of approval, if any, are attached that the applicant holds legal or equivalent would extitle the applicant to conduct the second to the second to the applicant to the second to the s	itable title to those rights in the sul	warrant or	UM ENGINEER	Date 05/01/2020
which would entitle the applicant to condu		<u> </u>	willfully to make to any department	t or aganay of the United

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #512328 that would not fit on the form

Wells/Facilities, continued

Agreement NMNM138866	Lease NMNM138866	Well/Fac Name, Number VONI FED COM 121H	API Number 30-015-46978-00-X1	Location Sec 21 T26S R31E NWNW 320FNL 404FWL 32.034576 N Lat. 103.790504 W Lon
NMNM138866	NMNM138866	VONI FED COM 122H	30-015-46980-00-X1	Sec 21 T265 R31E NENW 320FNL 2100FWL 32.034580 N Lat. 103.785034 W Lon
NMNM138866	NMNM138866	VONI FED COM 123H	30-015-46982-00-X1	Sec 21 T26S R31E NWNE 320FNL 2166FEL 32.034584 N Lat. 103.781662 W Lon
NMNM138866	NMNM138866	VONI FED COM 124H	30-015-47015-00-X1	Sec 21 T26S R31E NENE 260FNL 1098FEL 32.034752 N Lat, 103.778214 W Lon

32. Additional remarks, continued

Voni Federal Com 124H (30-015-47015)

Thank you for your time and diligence in this matter.

Revisions to Operator-Submitted EC Data for Sundry Notice #512328

Operator Submitted

BLM Revised (AFMSS)

APDCH Sundry Type:

NOI

APDCH NOI

Lease: NMNM138866 NMNM138866

Agreement:

Operator: MATADOR PRODUCTION COMPANY

5400 LBJ FREEWAY, SUITE 1500

DALLAS, TX 75240 Ph: 972-371-5448

Admin Contact:

NICKY FITZGERALD REGULATORY ANALYST

E-Mail: nicky.fitzgerald@matadorresources.com

Ph: 972-371-5448

Tech Contact: **BLAKE HERMES**

DRILLING ENGINEER

E-Mail: bhermes@matadorresources.com

Ph: 972-371-5485

Location:

NM EDDY State: County:

JENNINGS; BONE SPRING, WEST Field/Pool:

Well/Facility: VONI FEDERAL COM 121H

Sec 21 T26S R31E 320FNL 404FWL

MATADOR PRODUCTION COMPANY

ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200

NICKY FITZGERALD **REGULATORY ANALYST**

E-Mail: nicky.fitzgerald@matadorresources.com

Ph: 972-371-5448

BLAKE HERMES DRILLING ENGINEER

E-Mail: bhermes@matadorresources.com

Ph: 972-371-5485

NM EDDY

JENNINGS-BONE SPRING, WEST

VONI FED COM 121H Sec 21 T26S R31E NWNW 320FNL 404FWL

32.034576 N Lat, 103.790504 W Lon VONI FED COM 122H Sec 21 T26S R31E NENW 320FNL 2100FWL

32.034580 N Lat, 103.785034 W Lon

VONI FED COM 123H Sec 21 T26S R31E NWNE 320FNL 2166FEL

32.034584 N Lat, 103.781662 W Lon

VONI FED COM 124H Sec 21 T26S R31E NENE 260FNL 1098FEL 32.034752 N Lat, 103.778214 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'	S NAME:	MATADOR PRODUCTION COMPANY					
LE	ASE NO.:	NMNM1	38866				
LO	CATION:	Section 2	1, T.26 S., R.31 E., NI	ΜР			
C	COUNTY:	Eddy County, New Mexico					
WELL NAM	E & NO.:	Voni Fed	eral 121H				
SURFACE HOLE FO	OTAGE:	320'/N &	454'/W				
BOTTOM HOLE FO	OOTAGE	100'/S &	660'/W				
		I.					
WELL NAM	E & NO.:	Voni Fed	eral 122H				
SURFACE HOLE FO			2210'/W				
BOTTOM HOLE FO	OOTAGE		1980'/W				
WELL NAM	E & NO.:	Voni Fed	eral 123H				
SURFACE HOLE FO		320'/N &					
BOTTOM HOLE FO		100'/S &					
WELL NAM	E & NO.:	Voni Fed	eral 124H				
SURFACE HOLE FO		260'/N &					
BOTTOM HOLE FO		100'/S & 660'/E					
		l .					
		CO	A .				
			A				
			,	·			
H2S	O Yes		⊙ No				
Potash	None		C Secretary	© R-111-P			
Cave/Karst Potential	C Low		© Medium	• High			
Cave/Karst Potential	Critical						
Variance	O None		© Flex Hose	Other Other			
Wellhead	Conven	itional	© Multibowl	⊙ Both			
Other	□4 String	Area	☐ Capitan Reef	□WIPP			
Other	Fluid Fi		☐ Cement Squeeze	☐ Pilot Hole			
Special Requirements	□ Water 1	Disposal	▼ COM	□ Unit			
*			1	1			

A. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1300 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 pounds 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** 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 cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- 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, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- 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 should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - 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 OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

NMK04272020

Casing Table Specification Sheet

Voni Fed Com #121H

SHL: 320' FNL & 404' FWL Section 21 BHL: 100' FSL & 660' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3,194'

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 - 767	0 - 767	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9086	0 - 9086	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22209	0 - 9741	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Voni Fed Com 121H

SHL: 320' FNL & 404' FWL Section 21 BHL: 100' FSL & 660' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3,194'

Drilling Operation Plan

Proposed Drilling Depth: 22209' MD / 9741' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353208224 N / -103.7901688913 W TD Lat/Long (NAD83): 32.0004506452 N / -103.7896057741 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	742	742	765	Anhydrite	Barren
Top of Salt	1,507	1,507	1,884	Salt	Barren
Castile	3,391	3,391	586	Salt	Barren
Base of Salt	3,977	3,977	32	Salt	Barren
Bell Canyon	4,009	4,009	1,115	Sandstone	Oil/Natural Gas
Cherry Canyon	5,124	5,124	1,138	Sandstone	Oil/Natural Gas
Brushy Canyon	6,262	6,262	1,638	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,900	7,900	1,312	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,212	9,212	144	Sandstone	Oil/Natural Gas
KOP	9,186	9,168		Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,376	9,356	174	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,578	9,530		Sandstone	Oil/Natural Gas
TD	22,209	9,741		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'.

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 Onshore Order #2 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 Onshore Order #2. 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 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.

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 - 767	0 - 767	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9086	0 - 9086	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22209	0 - 9741	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
- Request open to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is neccesary.

Variance Request

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

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

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

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.

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	320	1.72	559	12.5	50%	0	С	5% NaCl + LCM
Surface Tail		250	1.38	347	14.8	50%	467	С	5% NaCl + LCM
Intermediate 1	Lead	1280	2.13	2728	12.6	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	606	14.8	50%	7269	С	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8886	Η	Fluid Loss + Dispersant + Retarder + LCM
Froduction	Tail	3050	1.35	4122	13.2	25%	9186	Н	Fluid Loss + Dispersant + Retarder + LCM

5. 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	17.5	Spud Mud	0 - 767	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	767 - 9086	8.7 - 9.4	28-30	NC
Production	8.75	Cut Brine/OBM	9086 - 22209	8.6 - 9.4	28-30	NC

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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2618 psi. Expected bottom hole temperature is 168° F.

In accordance with Onshore Order 6, 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 a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "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 the equipment being used.

Casing Table Specification Sheet

Voni Fed Com 122H

SHL: 320' FNL & 2100' FWL Section 21 BHL: 100' FSL & 1980' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3,186'

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 - 814	0 - 814	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9115	0 - 9115	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22239	0 - 9772	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Voni Fed Com 122H

SHL: 320' FNL & 2100' FWL Section 21 BHL: 100' FSL & 1980' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3,186'

Drilling Operation Plan

Proposed Drilling Depth: 22239' MD / 9772' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353201577 N / -103.7849086292 W TD Lat/Long (NAD83): 32.0004525472 N / -103.7853476903 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	789	789	748	Anhydrite	Barren
Top of Salt	1,537	1,537	1,854	Salt	Barren
Castile	3,391	3,391	602	Salt	Barren
Base of Salt	3,993	3,993	30	Salt	Barren
Bell Canyon	4,023	4,023	1,114	Sandstone	Oil/Natural Gas
Cherry Canyon	5,137	5,137	1,139	Sandstone	Oil/Natural Gas
Brushy Canyon	6,276	6,276	1,646	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,922	7,922	965	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,887	8,887	462	Sandstone	Oil/Natural Gas
KOP	9,215	9,199		Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,368	9,349	213	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,609	9,562		Sandstone	Oil/Natural Gas
TD	22,239	9,772		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'.

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 Onshore Order #2 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 Onshore Order #2. 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 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.

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 - 814	0 - 814	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9115	0 - 9115	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22239	0 - 9772	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
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Variance Request

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

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

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

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.

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	350	1.72	608	12.5	50%	0	С	5% NaCl + LCM
Surface	Tail	250	1.38	347	14.8	50%	514	С	5% NaCl + LCM
Intermediate 1	Lead	1300	2.13	2760	12.6	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	608	14.8	50%	7292	С	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8915	Η	Fluid Loss + Dispersant + Retarder + LCM
Froduction	Tail	3050	1.35	4123	13.2	25%	9215	Н	Fluid Loss + Dispersant + Retarder + LCM

5. 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	17.5	Spud Mud	0 - 814	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	814 - 9115	8.7 - 9.4	28-30	NC
Production	8.75	Cut Brine/OBM	9115 - 22239	8.6 - 9.4	28-30	NC

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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2627 psi. Expected bottom hole temperature is 169° F.

In accordance with Onshore Order 6, 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 a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "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 the equipment being used.

Casing Table Specification Sheet

Voni Fed Com 123H

SHL: 320' FNL & 2166' FEL Section 21 BHL: 100' FSL & 1980' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3192

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 - 880	0 - 880	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9143	0 - 9143	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22273	0 - 9800	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Voni Fed Com 123H

SHL: 320' FNL & 2166' FEL Section 21 BHL: 100' FSL & 1980' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3192

Drilling Operation Plan

Proposed Drilling Depth: 22273' MD / 9800' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353280295 N / -103.7816556100 W TD Lat/Long (NAD83): 32.0004550455 N / -103.7809437285 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	855	855	707	Anhydrite	Barren
Salado (Top of Salt)	1,562	1,562	1,829	Salt	Barren
Castile	3,391	3,391	624	Salt	Barren
Lamar (Base of Salt)	4,015	4,015	28	Salt	Barren
Bell Canyon	4,043	4,043	1,103	Sandstone	Oil/Natural Gas
Cherry Canyon	5,146	5,146	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	6,289	6,289	1,640	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,929	7,929	986	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,915	8,915	438	Sandstone	Oil/Natural Gas
KOP	9,243	9,227		Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,371	9,353	239	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,639	9,592		Sandstone	Oil/Natural Gas
TD	22,273	9,800		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'.

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 Onshore Order #2 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 Onshore Order #2. 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 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.

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 - 880	0 - 880	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9143	0 - 9143	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22273	0 - 9800	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
- Request open to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is neccesary.

Variance Request

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

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

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

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.

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	390	1.72	676	12.5	50%	0	С	5% NaCl + LCM
Surface	Tail	250	1.38	347	14.8	50%	580	С	5% NaCl + LCM
Intermediate 1	Lead	1310	2.13	2800	12.6	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	610	14.8	50%	7314	С	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8943	Η	Fluid Loss + Dispersant + Retarder + LCM
Froduction	Tail	3060	1.35	4124	13.2	25%	9243	Н	Fluid Loss + Dispersant + Retarder + LCM

5. 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	17.5	Spud Mud	0 - 880	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	880 - 9143	8.7 - 9.4	28-30	NC
Production	8.75	Cut Brine/OBM	9143 - 22273	8.6 - 9.4	28-30	NC

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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2634 psi. Expected bottom hole temperature is 169° F.

In accordance with Onshore Order 6, 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 a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "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 the equipment being used.

Casing Table Specification Sheet

Voni Fed Com 124H

SHL: 260' FNL & 1098' FEL Section 21 BHL: 100' FSL & 660' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3191

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 - 918	0 - 918	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 9198	0 - 9198	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	8.75	0 - 22305	0 - 9819	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

Voni Fed Com 124H

SHL: 260' FNL & 1098' FEL Section 21 BHL: 100' FSL & 660' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3191

Drilling Operation Plan

Proposed Drilling Depth: 22305' MD / 9819' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353305693 N / -103.7765792824 W TD Lat/Long (NAD83): 32.0004581419 N / -103.7766856742 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	893	893	681	Anhydrite	Barren
Salado (Top of Salt)	1,574	1,574	1,817	Salt	Barren
Castile	3,391	3,391	634	Salt	Barren
Lamar (Base of Salt)	4,025	4,025	27	Salt	Barren
Bell Canyon	4,052	4,052	1,090	Sandstone	Oil/Natural Gas
Cherry Canyon	5,142	5,142	1,149	Sandstone	Oil/Natural Gas
Brushy Canyon	6,291	6,291	1,653	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,944	7,944	986	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,930	8,930	425	Sandstone	Oil/Natural Gas
KOP	9,298	9,246		Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,409	9,355	254	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,692	9,609		Sandstone	Oil/Natural Gas
TD	22,305	9,819		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'.

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.

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Surface	Lead	420	1.72	716	12.5	50%	0	С	5% NaCl + LCM
Surface	Tail	250	1.38	347	14.8	50%	618	С	5% NaCl + LCM
Intermediate 1	Lead	2630	2.13	5602	12.6	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1020	1.38	1404	14.8	50%	7358	С	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8998	Η	Fluid Loss + Dispersant + Retarder + LCM
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Intermediate 1	12.25	Diesel Bine Emulsion	918 - 9198	8.7 - 9.4	28-30	NC
Production	8.75	Cut Brine/OBM	9198 - 22305	8.6 - 9.4	28-65	NC

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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2639 psi. Expected bottom hole temperature is 169° F.

In accordance with Onshore Order 6, 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 a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "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 the equipment being used.