

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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.  
NMNM138866

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. Multiple--See Attached
2. Name of Operator MATADOR PRODUCTION COMPANYE-Mail: nicky.fitzgerald@matadorresources.com		9. API Well No. Multiple--See Attached
3a. Address ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240	3b. Phone No. (include area code) 500 972-371-5448	10. Field and Pool or Exploratory Area JENNINGS-BONE SPRING, WEST
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Multiple--See Attached		11. County or Parish, State EDDY COUNTY, NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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 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 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 determined that the site is ready for final inspection.

BLM Bond No.: NMB001079  
Surety Bond No.: RLB0015172

Matador respectfully requests the option to amend the casing, cementing and mud program on the Voni Federal Com 121H (30-015-46978). 2nd Bone Spring Sundry Items = Add option to slim down 9-5/8? casing to 7-5/8? casing and deepen. Please find supporting documentation attached and contact Blake Hermes at 972-371-5485 or BHermes@matadorresources.com for any questions.

This sundry will also apply to the following Voni wells:

Voni Federal Com 122H (30-015-46980)  
Voni Federal Com 123H (30-015-46982)

ACCEPTED 05/01/2020 - KMS NMOCD

14. I hereby certify that the foregoing is true and correct.	
<b>Electronic Submission #512328 verified by the BLM Well Information System For MATADOR PRODUCTION COMPANY, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 05/01/2020 (20PP2569SE)</b>	
Name (Printed/Typed) <b>BLAKE HERMES</b>	Title <b>DRILLING ENGINEER</b>
Signature (Electronic Submission)	Date <b>04/22/2020</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

<u>Approved By</u> <b>NDUNGU KAMAU</b>	Title <b>PETROLEUM ENGINEER</b>	Date <b>05/01/2020</b>
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 <b>Carlsbad</b>

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

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

### Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM138866	NMNM138866	VONI FED COM 121H	30-015-46978-00-X1	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 T26S 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

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM138866	NMNM138866
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5448	MATADOR PRODUCTION COMPANY ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com  Ph: 972-371-5448	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	BLAKE HERMES DRILLING ENGINEER E-Mail: bhermes@matadorresources.com  Ph: 972-371-5485
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	JENNINGS;BONE SPRING,WEST	JENNINGS-BONE SPRING, WEST
Well/Facility:	VONI FEDERAL COM 121H Sec 21 T26S R31E 320FNL 404FWL	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 NWNW 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

<b>OPERATOR'S NAME:</b>	MATADOR PRODUCTION COMPANY
<b>LEASE NO.:</b>	NMNM138866
<b>LOCATION:</b>	Section 21, T.26 S., R.31 E., NMP
<b>COUNTY:</b>	Eddy County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Voni Federal 121H
<b>SURFACE HOLE FOOTAGE:</b>	320'/N & 454'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 660'/W

<b>WELL NAME &amp; NO.:</b>	Voni Federal 122H
<b>SURFACE HOLE FOOTAGE:</b>	320'/N & 2210'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1980'/W

<b>WELL NAME &amp; NO.:</b>	Voni Federal 123H
<b>SURFACE HOLE FOOTAGE:</b>	320'/N & 2086'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1980'/E

<b>WELL NAME &amp; NO.:</b>	Voni Federal 124H
<b>SURFACE HOLE FOOTAGE:</b>	260'/N & 1208'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 660'/E

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**ALL PREVIOUS COAs STILL APPLY.**

### 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 **High Cave/Karst Areas** 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
<b>KOP</b>	<b>9,186</b>	<b>9,168</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>
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
<b>TD</b>	<b>22,209</b>	<b>9,741</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>

**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 necessary.

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	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	320	1.72	559	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	467	C	5% NaCl + LCM
Intermediate 1	Lead	1280	2.13	2728	12.6	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	606	14.8	50%	7269	C	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8886	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	3050	1.35	4122	13.2	25%	9186	H	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
<b>KOP</b>	<b>9,215</b>	<b>9,199</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>
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
<b>TD</b>	<b>22,239</b>	<b>9,772</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>

**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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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
- Request open to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is necessary.

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	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	350	1.72	608	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	514	C	5% NaCl + LCM
Intermediate 1	Lead	1300	2.13	2760	12.6	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	608	14.8	50%	7292	C	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8915	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	3050	1.35	4123	13.2	25%	9215	H	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
<b>KOP</b>	<b>9,243</b>	<b>9,227</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>
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
<b>TD</b>	<b>22,273</b>	<b>9,800</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>

**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 necessary.

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	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	390	1.72	676	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	580	C	5% NaCl + LCM
Intermediate 1	Lead	1310	2.13	2800	12.6	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	440	1.38	610	14.8	50%	7314	C	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8943	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	3060	1.35	4124	13.2	25%	9243	H	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
<b>KOP</b>	<b>9,298</b>	<b>9,246</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>
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
<b>TD</b>	<b>22,305</b>	<b>9,819</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>

**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

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**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 - 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

- 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 necessary.

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	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	420	1.72	716	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	618	C	5% NaCl + LCM
Intermediate 1	Lead	2630	2.13	5602	12.6	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1020	1.38	1404	14.8	50%	7358	C	5% NaCl + LCM
Production	Lead	20	2.22	50	11.5	25%	8998	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	3050	1.35	4117	13.2	25%	9298	H	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 - 918	8.4 - 8.8	28-30	NC
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.