

Well Name: VONI FED COM	Well Location: T26S / R31E / SEC 21 / NENW / 32.0345794 / -103.7846788	County or Parish/State: EDDY / NM
Well Number: 226H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138866	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001547019	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 03/08/2021	Time Sundry Submitted: 10:19
Date proposed operation will begin: 06/28/2021	

**Procedure Description:** BLM Bond No.: NMB001079 Surety Bond No.: RLB0015172 Matador requests the option to amend the casing and cement design to the attached plan. Omit 9-5/8" casing string and utilize a diesel brine emulsion mud system. Please see the supporting documentation attached and contact Blake Hermes at 972-371-5485 or bhermes@matadorresources.com for any questions.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Voni\_Fed\_Com\_226H\_BLM\_Tapered\_String\_Spec\_20210308101540.pdf
- Voni\_Fed\_Com\_226H\_BLM\_Drill\_Plan\_20210308101540.pdf

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Conditions of Approval

Additional Reviews

VONI\_FED\_COM\_226H\_SUNDRY\_\_\_Drilling\_Calculations\_20210317121317.pdf  
VONI\_FED\_COM\_226H\_SUNDRY\_\_\_COA\_20210317121256.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature:** FITZGERALD  
**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  
**Signed on:** MAR 08, 2021 10:17 AM

Field Representative

**Representative Name:**  
**Street Address:**  
**City:** **State:** **Zip:**  
**Phone:**  
**Email address:**

BLM Point of Contact

**BLM POC Name:** CHRISTOPHER WALLS  
**BLM POC Phone:** 5752342234  
**Disposition:** Approved  
**Signature:** Chris Walls  
**BLM POC Title:** Petroleum Engineer  
**BLM POC Email Address:** cwalls@blm.gov  
**Disposition Date:** 04/05/2021

212631 C ATS-19-2209 VONI FED COM 226H Eddy NMNM138866 Matador 13-22 03172021 RI SUNDRY

## VONI FED COM 226H SUNDRY

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	14.69	2.32	0.47	1,066	6	0.86	4.47	58,097
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,446			Tail Cmt	does not	circ to sfc.	Totals:	1,066	58,097			
Comparison of Proposed to Minimum Required Cement Volumes											
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP				BOPE
17 1/2	0.6946	710	1148	740	55	8.80	3158	5M	1.56		
Class 'C' tail cmt yield above 1.35.											
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.											
Site plat (pipe racks S or E) as per O.O.I.II.D.4.L not found.											

7 5/8	casing inside the		13 3/8	Design Factors					Int 1		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	P 110	BTC	2.69	0.93	1.08	11,790	2	1.57	1.69	350,163
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	11,790	350,163		
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		1066	overlap.			
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg		
9 7/8	0.2148	1070	3467	2890	20	9.40	6013	10M	0.69		
Class 'H' tail cmt yld > 1.20							MASP is within 10% of 5000psig, need exrta equip?				
More cement may be needed , Casing must be 1/3 fluid filled during drilling.											

Tail cmt											
5 1/2	casing inside the	7 5/8	Design Factors					Prod 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	P 110	TLW	2.83	1.48	1.64	24,815	2	2.39	2.16	496,300
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,748							Totals:		24,815		496,300
The cement volume(s) are intended to achieve a top of				11590	ft from surface or a		200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg
6 3/4	0.0835	1030	1229	1106	11	13.50					0.44
Class 'C' tail cmt yld > 1.35											
More cement may be needed.											
#N/A											

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>MATADOR PRODUCTION COMPANY</b>
<b>LEASE NO.:</b>	<b>NMNM138866</b>
<b>WELL NAME &amp; NO.:</b>	<b>VONI FED COM 226H SUNDRY</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>350'/N &amp; 2270'/E</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>240'/S &amp; 2310'/E</b>
<b>LOCATION:</b>	<b>Section 21, T.26 S., R.31 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

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 checked="" type="radio"/> Multibowl	<input 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 checked="" 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

- The **7-5/8** inch intermediate casing shall be set at approximately **11790 feet**. 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.

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

**Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must run a CBL from TD of the Choose an item." casing to surface. Submit results to BLM.**

**RI03172021**

**Drill Plan****Voni Fed Com 226H****SHL: 350' FNL & 2270' FWL Section 21****BHL: 240' FSL & 2310' FWL Section 33****Township/Range: 26S 31E****Elevation Above Sea Level: 3186****Drilling Operation Plan**

Proposed Drilling Depth: 24815' MD / 12493' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353220496 N / -103.7840760118 W

TD Lat/Long (NAD83): 32.0008378390 N / -103.7842839769 W

**1. Estimated Tops**

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	789	789	748	Anhydrite	Barren
Salado (Top of Salt)	1,537	1,537	1,854	Salt	Barren
Lamar (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
2nd Bone Spring Carbonate	9,349	9,349	213	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,562	9,562	558	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,120	10,120	661	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,781	10,781	427	Sandstone	Oil/Natural Gas
Wolfcamp	11,208	11,208	-	Shale	Oil/Natural Gas
<b>KOP</b>	<b>11,940</b>	<b>11,920</b>	-	<b>Shale</b>	<b>Oil/Natural Gas</b>
<b>TD</b>	<b>24,815</b>	<b>12,493</b>	-	<b>Shale</b>	<b>Oil/Natural Gas</b>

**2. Notable Zones**

Wolfcamp 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 18,000' 10,000-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**

**Drill Plan**

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 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 5000 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 10M 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.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The "Well Control Plan For 10M MASP Section of Wellbore" is attached.

**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 - 1066	0 - 1066	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 11790	0 - 11770	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24815	0 - 12493	5.5	20	P-110	Hunting TLW-SC	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

Variance Request

**Drill Plan**

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	460	1.747	797	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.379	348	14.8	50%	766	C	5% NaCl + LCM
Intermediate 1	Lead	870	3.66	3201	10.3	25%	0	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	200	1.413	286	13.2	25%	10790	A/C	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	1030	1.193	1224	14.2	10%	11590	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 - 1066	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Brine Diesel Emulsion	1066 - 11790	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11790 - 24815	12 - 13.5	50-65	<20

**6. Cores, Test, & Logs**

No core or drill stem test is planned.

No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve.

**7. Down Hole Conditions**



## **Drill Plan**

No abnormal pressure or temperature is expected. Bottom hole pressure is 8770 psi. Maximum anticipated surface pressure is 6022 psi. Expected bottom hole temperature is 201° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of a "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H<sub>2</sub>S safety package on all wells, attached is a "H<sub>2</sub>S 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.

## Tapered String Specification Sheet

Voni Fed Com 226H

SHL: 350' FNL & 2270' FWL Section 21

BHL: 240' FSL & 2310' FWL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3186'

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
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Production	6.75	0 - 24815	0 - 12493	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 23097

COMMENTS

Operator: MATADOR PRODUCTION COMPANY                      One Lincoln Centre 5400 LBJ Freeway, Ste 1500                      Dallas, TX75240		OGRID: 228937	Action Number: 23097	Action Type: C-103A
Created By	Comment	Comment Date		
kpickford	KP GEO Review 4/7/2021	04/07/2021		
jagarcia	Accepted for Record	04/07/2021		

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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 23097

**CONDITIONS OF APPROVAL**

Operator: MATADOR PRODUCTION COMPANY                      One Lincoln Centre 5400 LBJ Freeway, Ste 1500                      Dallas, TX75240		OGRID: 228937	Action Number: 23097	Action Type: C-103A
OCD Reviewer	Condition			
kpickford	Adhere to previous NMOCD Conditions of Approval			