

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Report

Well Name: VONI FED COM Well Location: T26S / R31E / SEC 21 / County or Parish/State: EDDY /

NWNW / 32.0345749 / -103.7902491 NM

Well Number: 221H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMNM138866 Unit or CA Name: Unit or CA Number:

US Well Number: 3001547018 Well Status: Approved Application for Operator: MATADOR

Permit to Drill PRODUCTION COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 03/10/2021 Time Sundry Submitted: 04:37

Date proposed operation will begin: 05/01/2021

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_221H_BLM_Drill_Plan_20210310163429.pdf

Voni_Fed_Com_221H_BLM_Tapered_String_Spec_20210310163429.pdf

eived by OCD: 5/4/2021 12:50:27 PM Well Name: VONI FED COM

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Operator: MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional Reviews

VONI_FED_COM_221H_SUNDRY___Drilling_Calculations_20210316105534.pdf

VONI_FED_COM_221H_SUNDRY___COA_20210316105519.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: NICKY FITZGERALD Signed on: MAR 10, 2021 04:35 PM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS State: TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field Representative

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Chris Walls

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved Disposition Date: 04/05/2021

Page 2 of 2

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | MATADOR PRODUCTION COMPANY

LEASE NO.: | NMNM138866

WELL NAME & NO.: | VONI FED COM 221H SUNDRY

SURFACE HOLE FOOTAGE: 320'/N & 484'/W **BOTTOM HOLE FOOTAGE** 240'/S & 338'/ W

LOCATION: | Section 21, T.26 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	O Yes	No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	O Medium	• High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	□4 String Area	☐Capitan Reef	□WIPP
Other	Fluid Filled	✓ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	□ Unit

ALL Previous COAs Still Apply.

A. CASING

1. The **7-5/8** inch intermediate casing shall be set at approximately **11805** 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.

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.
- **❖** 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.

RI03162021

VONI FED COM 221H SUNDRY

13 3/8	/8 surface csg in a 17 1/2 inch hole.					<u>Design Factors</u>					Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	54.50	J	55	BTC	14.90	2.35	0.48	1,051	6	0.87	4.53	57,280	
w/8.4#	t/g mud, 30min Sf	c Csg Test psig:	1,452	Tail Cmt	does not	circ to sfc.	Totals:	1,051				57,280	
Comparison (of Proposed to	Minimum Re	equired Ceme	nt Volumes									
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	
17 1/2	0.6946	700	1131	730	55	8.80	3155	5M				1.56	
Class 'C' tail cr	nt yield above	1.35.											
Burst Frac Gra	dient(s) for Segi	ment(s) A, B =	, b All > 0.7	0, OK.									
									4				

7 5/8	casing ins	ide the	13 3/8			Design	<u>Factors</u>		A	Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	Р	110	BTC	2.69	0.93	1.11	11,805	2	1.62	1.70	350,609
w/8.4#	/g mud, 30min Sfo	c Csg Test psig:					Totals:	11,805				350,609
	The cement vo	olume(s) are	intended to a	chieve a top of	0	ft from si	urface or a	1051				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	2888	20	9.40	5842	10M				0.69
Class 'H' tail cn	nt yld > 1.20						MASP is with	in 10% of 50	00psig, r	eed exrta	equip?	
					More comen	t may be nee	dad Casing n	ouet ho 1//2	fluid fill	od during	drilling	
L					wore terrier		ueu , casilig ii	iust be 1//3	, maia mi	eu uuring	ŭ	
Tail cmt												

I all cmt												
5 1/2	casing in	side the	7 5/8			Design Fa	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	Р	110	TLW	2.91	1.53	1.69	24,459	2	2.46	2.23	489,180
w/8.4	#/g mud, 30min Sf	fc Csg Test psig:	2,670				Totals:	24,459				489,180
,	The cement ve	olume(s) are	intended to a	chieve a top of	11611	ft from su	ırface or a	194				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	1000	1193	1075	11	13.50						0.44
Class 'C' tail cr	nt yld > 1.35											
<u> </u>				More cement r	nay be neede	d.						
#N/A												

Carlsbad Field Office 3/16/2021

Voni Fed Com 221H

SHL: 320' FNL & 484' FWL Section 21 BHL: 240' FSL & 338' FWL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3194

Drilling Operation Plan

Proposed Drilling Depth: 24459' MD / 12137' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353186972 N / -103.7909563304 W TD Lat/Long (NAD83): 32.0008349213 N / -103.7906431123 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	742	742	765	Anhydrite	Barren
Salado (Top of Salt)	1,507	1,507	1,884	Salt	Barren
Lamar (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	961	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,861	8,861	495	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,356	9,356	174	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,530	9,530	630	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,160	10,160	595	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,755	10,755	436	Sandstone	Oil/Natural Gas
Wolfcamp	11,191	11,191	-	Shale	Oil/Natural Gas
KOP	11,955	11,908	-	Shale	Oil/Natural Gas
TD	24,459	12,137	-	Shale	Oil/Natural Gas

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 - 1051	0 - 1051	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 11805	0 - 11758	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24459	0 - 12137	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

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	450	1.747	780	13.5	50%	0	С	5% NaCl + LCM
Surface	Tail	250	1.379	348	14.8	50%	751	С	5% NaCl + LCM
Intermediate 1	Lead	870	3.66	3195	10.3	25%	0	A/C	Fluid Loss + Dispersant + Retarder + LCM
intermediate i	Tail	200	1.413	286	13.2	25%	10805	A/C	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	1000	1.193	1190	14.2	10%	11605	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 - 1051	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Brine Diesel Emulsion	1051 - 11805	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11805 - 24459	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 8520 psi. Maximum anticipated surface pressure is 5850 psi. Expected bottom hole temperature is 201° 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.

Tapered String Specification Sheet

Voni Fed Com 221H

SHL: 320' FNL & 484' FWL Section 21 BHL: 240' FSL & 338' FWL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3194'

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 - 24459	0 - 12137	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

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**

CONDITIONS

Action 26831

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
MATADOR PRODUCTION COMPANY One Lincoln Centre	228937	26831	C-103A
5400 LBJ Freeway, Ste 1500 Dallas, TX75240			

OCD Reviewer	Condition
jagarcia	None