Form 3160-5 (June 2019)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUREAU OF LAND MANAGEMENT	
NDRY NOTICES AND REPORTS ON WELLS	

BURI	EAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM59383				
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	o re-enter an	6. If Indian, Allottee of	or Tribe Name				
	<b>TRIPLICATE</b> - Other instructions on pag	e 2	7. If Unit of CA/Agree	eement, Name and/or No.				
1. Type of Well  ✓ Oil Well Gas W	/ell Other		8. Well Name and No	D. RANA SALADA 0503 FED COM/224				
2. Name of Operator NOVO OIL AND	GAS NORTHERN DELAWARE LLC		9. API Well No. 3001	 1554055				
	NUE, SUITE 912, NEW (3b. Phone No. (504) 523-18		10. Field and Pool or PURPLE SAGE/W	Exploratory Area				
4. Location of Well (Footage, Sec., T.,R SEC 8/T23S/R29E/NMP	.,M., or Survey Description)		11. Country or Parish EDDY/NM	11. Country or Parish, State EDDY/NM				
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF	NOTICE, REPORT OR OT	HER DATA				
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION					
Notice of Intent	Acidize Deep Alter Casing Hydr	en aulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity				
Subsequent Report		Construction and Abandon	Recomplete Temporarily Abandon	Other				
Final Abandonment Notice	Convert to Injection Plug		Water Disposal					
completed. Final Abandonment Not is ready for final inspection.)  APD Change to revise casing a Novo Oil & Gas Northern Delar requirements.  Revised casing design attached		s, including reclamation	n, have been completed and	the operator has detennined that the site				
4. I hereby certify that the foregoing is JENNIFER ELROD / Ph: (940) 452	true and correct. Name (Printed/Typed) -6214	Senior Regula	tory Analyst					
Signature (Electronic Submissio	n)	Date	02/15/2	2024				
	THE SPACE FOR FED	ERAL OR STATE	OFICE USE					
Approved by CHRISTOPHER WALLS / Ph: (575	s) 234-2234 / Approved	Petroleur Title	n Engineer	<b>02/16/2024</b> Date				
	ned. Approval of this notice does not warran quitable title to those rights in the subject leduct operations thereon.		BAD					
itle 18 U.S.C. Section 1001 and Title 43	STES C Section 1212 make it a crime for an	ny nerson knowingly an	d willfully to make to any d	enartment or agency of the United States				

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

(Instructions on page 2)

### **GENERAL INSTRUCTIONS**

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

### SPECIFIC INSTRUCTIONS

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

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

### **NOTICES**

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

# **Additional Information**

### **Location of Well**

 $0. \ SHL: \ NENW \ / \ 518 \ FNL \ / \ 2276 \ FWL \ / \ TWSP: \ 23S \ / \ RANGE: \ 29E \ / \ SECTION: \ 8 \ / \ LAT: \ 32.3256647 \ / \ LONG: \ -104.008353 \ ( \ TVD: \ 0 \ feet \ )$   $PPP: \ SWSE \ / \ 990 \ FSL \ / \ 2310 \ FEL \ / \ TWSP: \ 23S \ / \ RANGE: \ 29E \ / \ SECTION: \ 5 \ / \ LAT: \ 32.3297612 \ / \ LONG: \ -104.0067028 \ ( \ TVD: \ 6450 \ feet \ MD: \ 6905 \ feet \ )$   $BHL: \ SWSW \ / \ 990 \ FSL \ / \ 990 \ FWL \ / \ TWSP: \ 23S \ / \ RANGE: \ 29E \ / \ SECTION: \ 3 \ / \ LAT: \ 32.3298236 \ / \ LONG: \ -103.9770452 \ ( \ TVD: \ 6690 \ feet \ MD: \ 16019 \ feet \ )$ 



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

Sundry Print Reports
02/16/2024

Well Name: RANA SALADA 0503 FED Well Location: T23S / R29E / SEC 8 /

COM NEN

NENW /

County or Parish/State:

Well Number: 224H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM59383 Unit or CA Name: Unit or CA Number:

US Well Number: 3001554055 Well Status: Approved Application for Operator: NOVO OIL AND GAS

Permit to Drill NORTHERN DELAWARE LLC

# **Notice of Intent**

**Sundry ID: 2775238** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/15/2024 Time Sundry Submitted: 09:01

Date proposed operation will begin: 02/15/2024

**Procedure Description:** APD Change to revise casing design from 3-String to 4-String Novo Oil & Gas Northern Delaware requests this change to a 4-string well design with a salt protection string set in accordance with R-111-P requirements. Revised casing design attached

## **NOI Attachments**

### **Procedure Description**

Rana\_Salada\_0503\_Fed\_Com\_224H\_4\_string\_casing\_20240215090034.pdf

# **Conditions of Approval**

# Additional

Sec\_08\_23S\_29E\_NMP\_Sundry\_2775238\_Rana\_Salada\_0503\_Fed\_Com\_224H\_COAs\_20240216140344.pdf

Page 1 of 2

eceived by OCD: 2/16/2824 3:02:3503 FED

COM

Well Location: T23S / R29E / SEC 8 /

NENW /

Well Number: 224H

Type of Well: OIL WELL

Allottee or Tribe Name:

County or Parish/State:

Page 5 of

Lease Number: NMNM59383 Unit or CA Name: Unit or CA Number:

US Well Number: 3001554055 Well Status: Approved Application for Operator: NOVO OIL AND GAS

Permit to Drill NORTHERN DELAWARE LLC

# **Operator**

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

Operator Electronic Signature: JENNIFER ELROD Signed on: FEB 15, 2024 09:01 AM

Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Title: Senior Regulatory Analyst

Street Address: 300 N MARIENFIELD STREET SUITE 1000

City: MIDLAND State: TX

Phone: (940) 452-6214

Email address: JENNIFER.ELROD@PERMIANRES.COM

# **Field**

**Representative Name:** 

**Street Address:** 

City: State: Zip:

Phone:

**Email address:** 

# **BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

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

**Disposition:** Approved **Disposition Date:** 02/16/2024

Signature: Chris Walls

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### 3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Тор ТVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	390	0	390	390	J55	54.5	BTC	5.87	2.17	Dry	7.50	Dry	7.03
Intermediate 1	12.25	9.625	0	3000	0	3000	3000	J55	36	ВТС	3.11	1.55	Dry	3.07	Dry	2.71
Intermediate 2	8.75	7.625	0	9902	0	9902	9902	P110HC	29.7	MOFXL	8.06	2.30	Dry	1.67	Dry	2.38
Production	6.75	5.5	0	10751	0	10418	10751	P110RY	20	GeoConn	2.05	2.14	Dry	2.08	Dry	2.08
Production	6.75	5.5	10751	19371	10418	10418	8620	P110RY	20	Bushmast	2.05	2.14	Dry	2.08	Dry	2.08
BLM Min Safety Factor							ty Factor	1.125	1		1.6		1.6			

Non API casing spec sheets and casing design assumptions attached.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: NOVO Oil and Gas Northern Delaware LLC
WELL NAME & NO.: Rana Salada 0503 Fed Com 224H
LOCATION: Sec 8-23S-29E-NMP

**COUNTY:** Eddy County, New Mexico

Changes approved through engineering via **Sundry 2775238** on 02/16/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H <sub>2</sub> S	• No	C Yes							
Potash / WIPP	O None	Secretary	<b>⊙</b> R-111-P	□ WIPP					
Cave / Karst	C Low	Medium	• High	Critical					
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	Both	<ul><li>Diverter</li></ul>					
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	✓ DV Tool					
Special Req	☐ Break Testing	☐ Water Disposal	<b>▼</b> COM	□ Unit					
Variance	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	☐ Capitan Reef					
Variance	▼ Four-String	☐ Offline Cementing	▼ Fluid-Filled	☐ Open Annulus					
	☐ Batch APD / Sundry								

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B. CASING**

- 1. The **13-3/8** inch surface casing shall be set at approximately **300** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth adjusted per BLM geologist*.
  - 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

- <u>24 hours in the Potash Area</u> 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.

Both the first and second intermediate casing must be kept fluid-filled to meet BLM's minimum collapse requirements.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing (set at 2940 per BLM geologist) is:
  - 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, Capitan Reef, or potash.
  - ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
  - ❖ Note: This casing does not meet the 0.422" clearance requirements within the surface casing (per 43 CFR 3172). It has been deemed acceptable per the approving engineer due to the cement volumes involved.
- 3. The minimum required fill of cement behind the **7-5/8** inch 2<sup>nd</sup> intermediate casing is:
  - 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, Capitan Reef, or potash.
- 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back **500 feet** into the previous casing. If cement does not circulate, contact the appropriate BLM office.

### C. 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. Operator has proposed a multi-bowl wellhead assembly. 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 43 CFR 3172 must be followed.

### D. 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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.

# **GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

- Eddy County
   Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
- Lea County
   Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
  - e. 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

# D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 315280

### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	315280
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/16/2025