

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.
NMNM59383

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

8. Well Name and No.
RANA SALADA FED COM 0504 234H

9. API Well No.
30-015-46088-00-X1

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NOVO OIL AND GAS NORTHERN DELA
Contact: KURT SHIPLEY
Email: kshipley@novoog.com

3a. Address
1001 WEST WILSHIRE BOULEVARD SUITE 206
OKLAHOMA CITY, OK 73116

3b. Phone No. (include area code)
Ph: 405-286-3916

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 6 T23S R29E SESE 1241FSL 669FEL
32.330433 N Lat, 104.017769 W Lon

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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<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.

Due to poor availability of the approved casing, substitute casing for the intermediate casing is requested. The casing substitute has a non-API connection but is superior in strength to the originally proposed casing. Also, due to poor availability of the stage collar with this connection a single stage cementing segment is being proposed.

Casing Request:

7 5/8", 29.70 ppf, RYS110, USS-Eagle SFH SC to be set at 9800' TMD.

Design Safety Factors: Collapse 2.71, Burst 6.31, Tension 2.29

Casing specification sheet is attached.

Carlsbad Field Office
OCD Artesia

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 21 2019

Existing COAs still Apply, Except For the Following:

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #474708 verified by the BLM Well Information System
For NOVO OIL AND GAS NORTHERN DELA, sent to the Carlsbad
Committed to AFMSS for processing by GANDY VIGIL on 07/23/2019 (19CV0075SE)

RECEIVED

Name (Printed/Typed) BRIAN WOOD	Title CONSULTANT
Signature (Electronic Submission)	Date 07/23/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JEROMY PORTER</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>07/24/2019</u>
----------------------------------	---------------------------------	------------------------

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 Carlsbad

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 ****

RW 10-29-19

Additional data for EC transaction #474708 that would not fit on the form

32. Additional remarks, continued

Cementing Request:

Lead: 380 sx; 1026 cu ft; 20% excess; 2.70 cu ft/sx; 10.50 ppg; Class H + gel + extender + retarder + LCM + beads; 500 psi 24 hour compressive strength

Tail: 100 sx; 126 cu ft; 20% excess; 1.26 cu ft/sx; 14.50 ppg; Class H + gel + retarder + LCM; 1200 psi 24 hour compressive strength.

Conditions of Approval

- 7 5/8" Intermediate Casing must be kept at least 1/3 fluid filled to meet BLM Collapse Requirements.
- Cement to Surface. Excess cement calculates to 13%, additional cement might be required.

JJP07242019

Revisions to Operator-Submitted EC Data for Sundry Notice #474708

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM61349	NMNM59383
Agreement:		
Operator:	NOVO OIL & GAS N DELAWARE LLC 1001 W. WILSHIRE BLVD. SUITE 206 OKLAHOMA CITY, OK 73116 Ph: 405-404-0414	NOVO OIL AND GAS NORTHERN DELA 1001 WEST WILSHIRE BOULEVARD SUITE 206 OKLAHOMA CITY, OK 73116 Ph: 4054040414
Admin Contact:	KURT SHIPLEY VP-OPERATIONS E-Mail: kshipley@novoog.com Cell: 405-404-0414 Ph: 405-286-3916	KURT SHIPLEY VP-OPERATIONS E-Mail: kshipley@novoog.com Cell: 405-404-0414 Ph: 405-286-3916
Tech Contact:	BRIAN WOOD CONSULTANT E-Mail: brian@permitswest.com Ph: 505-466-8120	BRIAN WOOD CONSULTANT E-Mail: brian@permitswest.com Ph: 505-466-8120
Location:		
State:	NM	NM
County:	EDDY COUNTY	EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	RANA SALADA FED COM 0504 234H Sec 6 T23S R29E Mer NMP SESE 1241FSL 669FEL	RANA SALADA FED COM 0504 234H Sec 6 T23S R29E SESE 1241FSL 669FEL 32.330433 N Lat, 104.017769 W Lon



U. S. Steel Tubular Products

7/23/2019 8:28:16 AM

7.625" 29.70lbs/ft (0.375" Wall) USS RYS110 USS-EAGLE SFH® SC



MECHANICAL PROPERTIES	Pipe	USS-EAGLE SFH® SC	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	125,000	--	psi
Minimum Tensile Strength	120,000	--	psi

DIMENSIONS	Pipe	USS-EAGLE SFH® SC	
Outside Diameter	7.625	7.901	in.
Wall Thickness	0.375	--	in.
Inside Diameter	6.875	6.794	in.
Standard Drift	6.750	6.750	in.
Alternate Drift	--	6.750	in.
Nominal Linear Weight, T&C	29.70	--	lbs/ft
Plain End Weight	29.06	--	lbs/ft

SECTION AREA	Pipe	USS-EAGLE SFH® SC	
Critical Area	8.541	6.879	sq. in.
Joint Efficiency	--	80.5	%

PERFORMANCE	Pipe	USS-EAGLE SFH® SC	
Minimum Collapse Pressure	5,350	5,350	psi
External Pressure Leak Resistance	--	5,350	psi
Minimum Internal Yield Pressure	9,460	9,460	psi
Minimum Pipe Body Yield Strength	940,000	--	lbs
Joint Strength	--	757,000	lbs
Compression Rating	--	757,000	lbs
Reference Length	--	17,364	ft
Maximum Uniaxial Bend Rating	--	53.3	deg/100 ft

MAKE-UP DATA	Pipe	USS-EAGLE SFH® SC	
Make-Up Loss	--	5.96	in.
Minimum Make-Up Torque	--	19,000	ft-lbs
Maximum Make-Up Torque	--	21,000	ft-lbs
Maximum Operating Torque	--	44,100	ft-lbs

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products
 460 Wildwood Forest Drive, Suite 300S
 Spring, Texas 77380

1-877-893-9461
 connections@uss.com
 www.usstubular.com