

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.
NMNM91078

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 0605 231H

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

9. API Well No.
30-015-46085-00-X1

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 1 T23S R28E 1127FN1 395FEL
32.338951 N Lat, 104.953241 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 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 checked="" 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 Drilling Operations
	<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.

See attached for detailed drilling and completion data.

GC 1/20/20
Accepted for record - NMOCD

RECEIVED
JAN 10 2020
EMNRD-OCD ARTESIA

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #497462 verified by the BLM Well Information System
For NOVO OIL AND GAS NORTHERN DELA, sent to the Carlsbad
Committed to AFMSS for processing by JONATHON W SHEPARD on 01/07/2020 (20JS0049SE)

Name (Printed/Typed) BRIAN WOOD Title CONSULTANT

Signature (Electronic Submission) Date 01/02/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED** Title JONATHON SHEPARD
PETROLEUM ENGINEER Date 01/07/2020

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 ****

1/31/20 *LL*

Drilling Operations and Completion Data

10/30/2019: COMPLETION OPERATIONS BEGAN.

11/2/2019: OPENED TOE SLEEVES WITH 10,000 PSI. DROPPED DISSOLVABLE BALL AND PRESSURE TESTED 5-1/2" CASING TO 12,500 PSI.

11/9/2019: PERFORATE WELL FROM 10,976' TO 20,682' AND FRACTURE STIMULATE WELL WITH 17,066,540 LBS 100 MESH AND 7,887,470 LBS 40/70 SAND AND 2,525,509 GALS OF WATER WITH 47 STAGES. DRILLED OUT PLUGS.

11/24/2019: BEGAN FLOWING BACK WELL.

7/8/2019: SPUD WELL WITH SPUDDER RIG.

7/8/2019: DRILLED 17-1/2" HOLE TO 381'. RAN 381' OF 13-3/8", 54.50 PPF, J55, BTC CASING WITH 9 CENTRALIZERS (ONE PER JOINT). CASING SET AT 381'. CEMENTED WITH 395 SX OF CLASS C + 2% CACL₂, 14.8 PPG, 1.34 CU.FT. CEMENT WITH FULL CIRCULATION. BUMPED PLUG WITH 700 PSI. CIRCULATED 32 BBLS SX TO SURFACE.

7/9/2019: RELEASED SPUDDER RIG.

9/10/2019: INSTALLED BOP. TESTED TO 250 PSI LOW/5000 PSI. TESTED SURFACE CASING TO 1500 PSI FOR 30 MIN HELD OK.

9/12/2019: DRILLED 12-1/4" HOLE TO 3,005'. RAN 2,990' OF 9-5/8", 40.00 PPF, J55, BTC CASING WITH 24 CENTRALIZERS (1 PER JOINT FOR 1ST 3 JOINTS AND 1 EVERY 3RD JOINT TO SURFACE). CASING SET AT 2,990'. CEMENTED WITH LEAD 945 SX 35/65 PERLITE/C, 12.8 PPG, 1.94 CU.FT. AND TAIL 190 SX CLASS C 14.8 PPG, 1.33 CU FT CEMENT WITH FULL CIRCULATION. BUMPED PLUG WITH 1300 PSI. CIRCULATED 163 BBLS TO SURFACE. WOC FOR 24 HOURS.

9/15/2019: TESTED CASING TO 1,500 PSI FOR 30 MIN. HELD OK. DRILLED 8-3/4" HOLE TO 10,115'. RAN 10,085' OF 7-5/8", 29.70 PPF, RYS110, EAGLE SFH CASING WITH 60 CENTRALIZERS (1 PER JOINT FOR 1ST 3 JOINTS AND 1 EVERY 4TH JOINT TO SURFACE). CASING SET AT 10,085'. CEMENTED WITH LEAD 575 SX CLASS H W/BEADS, 10.5 PPG, 2.70 CU.FT. AND TAIL 130 SX CLASS C 14.5 PPG, 1.26 CU.FT. FT CEMENT WITH FULL CIRCULATION. BUMPED PLUG WITH 2100 PSI. CIRCULATED 31 BBLS TO SURFACE. WOC FOR 24 HOURS.

9/22/2019: TESTED CASING TO 2,300 PSI FOR 30 MIN. HELD OK. FIT TEST TO 14.0 PPG. DRILLED 6-3/4" HOLE TO 20,902'. RAN 20,887' OF 5-1/2", 23.00 PPF, P110CYHP, TMK ULTRA SF CASING WITH TOE SLEEVES AT 20,798' AND 20,753', MARKER JTS AT 15,982' AND 10,146'. CASING SET AT 20,887'. CEMENTED WITH 940 SX 50/50 POZ/H, 14.5 PPG, 1.29 CU.FT. CEMENT WITH FULL CIRCULATION. BUMPED PLUG WITH 4500 PSI. CALCULATED TOC @ 10,000'.

Revisions to Operator-Submitted EC Data for Sundry Notice #497462

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM91078	NMNM91078
Agreement:		
Operator:	NOVO OIL & GAS N DELAWARE LLC 1001 W. WILSHIRE BLVD. SUITE 206 OKLAHOMA CITY, OK 73116 Ph: 405-285-3916	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 0605 231H Sec 1 T23S R28E Mer NMP NENE 1127FNL 395FEL	RANA SALADA FED COM 0605 231H Sec 1 T23S R28E 1127FNL 395FEL 32.338951 N Lat, 104.033241 W Lon