

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM61349

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

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

3. Address: 1001 WEST WILSHIRE BOULEVARD SUITE 206 OKLAHOMA CITY, OK 73116 3a. Phone No. (include area code) Ph: 405-286-3916

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: NENE 1127FNL 395FEL 32.338951 N Lat, 104.033241 W Lon
At top prod interval reported below: NWNW 458FNL 332FWL
At total depth: NENE 384FNL 137FEL

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. NMNM140395

8. Lease Name and Well No. RANA SALADA FED COM 0605 231H

9. API Well No. 30-015-46085-00-S1

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

11. Sec., T., R., M., or Block and Survey or Area Sec 1 T23S R28E Mer NMP

12. County or Parish EDDY 13. State NM

14. Date Spudded 07/08/2019 15. Date T.D. Reached 10/16/2019 16. Date Completed D & A Ready to Prod. 11/24/2019

17. Elevations (DF, KB, RT, GL)* 3089 GL

18. Total Depth: MD 20902 TVD 10855 19. Plug Back T.D.: MD 20841 TVD 10856 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit analysis)
Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	381		395	94	0	0
12.250	9.625 J55	40.0	0	2990		1135	372	0	0
8.750	7.625 P110	29.7	0	10085		705	303	0	0
6.750	5.500 P110	23.0	0	20887		940	206	10000	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	10976	20682	10976 TO 20682	0.460	1504	OPEN/PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10976 TO 20682	11,600 GAL FR, 12,822 GAL CLAY CONTROL 101, 5110 GAL SCALE STOP 54, 12,698 GAL SURFACTANT 201,

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/24/2019	01/13/2020	24	→	1010.0	7105.0	3086.0	52.0	0.76	FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
31	SI 0	3300.0	→	1010	7105	3086	7305	PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #502525 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER	297	740	ANHY.	RUSTLER	297
SALADO	740	1382	SALT	SALADO	740
CASTILE	1382	3008	ANHY.	CASTILE	1382
DELAWARE	3008	6359	SS,SH,LMS: WATER&OIL	DELAWARE	3008
BONE SPRING	6359	9734	SS,LMS,SH: OIL	BONE SPRING	6359
WOLFCAMP	9734	20902	SS,SH,LMS: OIL	WOLFCAMP	9734

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #502525 Verified by the BLM Well Information System.
For NOVO OIL AND GAS NORTHERN DELA, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 02/25/2020 (20DMH0111SE)**

Name (please print) BRIAN WOOD Title CONSULTANT

Signature (Electronic Submission) Date 02/10/2020

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.

Revisions to Operator-Submitted EC Data for Well Completion #502525

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM91078	NMNM61349
Agreement:		NMNM140395 (NMNM140395)
Operator:	NOVO OIL & GAS N DELAWARE LLC 1001 W. WILSHIRE BLVD. SUITE 206 OKLAHOMA CITY, OK 73116 Ph: 405-286-3916	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 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
Well Name: Number:	RANA SALADA FED COM 0605 231H	RANA SALADA FED COM 0605 231H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 1 T23S R28E Mer NMP NENE 1127FNL 395FEL	NM EDDY Sec 1 T23S R28E Mer NMP NENE 1127FNL 395FEL 32.338951 N Lat, 104.033241 W Lon
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Logs Run:	GR	GR
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:	RUSTLER SALADO CASTILE DELAWARE BONE SPRING WOLFCAMP	RUSTLER SALADO CASTILE DELAWARE BONE SPRING WOLFCAMP
Markers:	RUSTLER SALADO CASTILE DELAWARE BONE SPRING WOLFCAMP	RUSTLER SALADO CASTILE DELAWARE BONE SPRING WOLFCAMP