

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. NMNM59383	
2. Name of Operator NOVO OIL AND GAS NORTHERN DISTRICT Contact: KURT SHIPLEY Email: kshipley@novoog.com				6. If Indian, Allottee or Tribe Name	
3. Address 1001 WEST WILSHIRE BOULEVARD SUITE 206 OKLAHOMA CITY, OK 73116				7. Unit or CA Agreement Name and No.	
3a. Phone No. (include area code) Ph: 405-286-3916				8. Lease Name and Well No. RANA SALADA FED COM 0504 234H	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 6 T23S R29E Mer NMP At surface SESE 1241FSL 669FEL 32.330433 N Lat, 104.017769 W Lon Sec 5 T23S R29E Mer NMP At top prod interval reported below SWSW 407FSL 330FWL Sec 4 T23S R29E Mer NMP At total depth SWSE 382FSL 1550FEL				9. API Well No. 30-015-46088-00-S1	
10. Field and Pool, or Exploratory PURPLE SAGE-WOLFCAMP (GAS)				11. Sec., T., R., M., or Block and Survey or Area Sec 6 T23S R29E Mer NMP	
12. County or Parish EDDY				13. State NM	
14. Date Spudded 07/13/2019		15. Date T.D. Reached 08/16/2019		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/24/2019	
17. Elevations (DF, KB, RT, GL)* 3039 GL					
18. Total Depth: MD 19892 TVD 10932		19. Plug Back T.D.: MD 19833 TVD 10932		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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	250		260	62	0	0
12.250	9.625 J55	40.0	0	2989		1255	387	0	0
8.750	7.625 P110	29.7	0	8456		705	307	0	0
6.750	5.500 P110	23.0	0	19881		1300	299	0	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

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11157	19736	11157 TO 19736	0.460	1376	OPEN/PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
11157 TO 19736	11,018 GAL FR, 11826 GAL CLAY CONTROL 101, 4666 GAL SCALE STOP 54, 11,770 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	12/27/2019	24		1243.0	8578.0	3573.0	52.0	0.83	FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
34	SI 0	3529.0		1243	8578	3573	6901	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 #502527 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.*)
CAPTURED

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.

30. Summary of Porous Zones (Include Aquifers):				31. Formation (Log) Markers	
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	313	764	ANHY.	RUSTLER	313
SALADO	764	1404	SALT	SALADO	764
CASTILE	1404	2870	ANHY.	CASTILE	1404
DELAWARE	2870	6466	SS,SH,LMS: WATER&OIL	DELAWARE	2870
BONE SPRING	6466	9805	SS,LMS,SH: OIL	BONE SPRING	6466
WOLFCAMP	9805	19892	SS,SH,LMS: OIL	WOLFCAMP	9805

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 #502527 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 (20DMH0112SE)

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Revisions to Operator-Submitted EC Data for Well Completion #502527

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM59383	NMNM59383
Agreement:		
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 0504 234H	RANA SALADA FED COM 0504 234H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 6 T23S R29E Mer NMP SESE 1241FSL 669FEL	NM EDDY Sec 6 T23S R29E Mer NMP SESE 1241FSL 669FEL 32.330433 N Lat, 104.017769 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