

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

Form C-101  
Revised July 18, 2013

JUL 16 2019  AMENDED REPORT  
(Add 2 zones)

DISTRICT II-ARTESIA O.C.D.

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd., Suite 206 Oklahoma City OK 73116 (405) 426-2292		<sup>4</sup> OGRID Number 372920
		<sup>5</sup> API Number 30-015-33282
<sup>4</sup> Property Code 322828	<sup>3</sup> Property Name Apollo Fee	<sup>6</sup> Well No. 1

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	04	23 S	28 E		660	S	660	W	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	04	23 S	28 E		660	S	660	W	Eddy

**9. Pool Information**

Pool Name Purple Sage; Wolfcamp & Culebra Bluff; Strawn	Pool Code 98220 & 96412
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<sup>11</sup> Work Type A	<sup>12</sup> Well Type G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type P	<sup>15</sup> Ground Level Elevation 3011'
<sup>16</sup> Multiple Y	<sup>17</sup> Proposed Depth 12597'	<sup>18</sup> Formation Morrow	<sup>19</sup> Contractor to be determined	<sup>20</sup> Spud Date 7-11-19
Depth to Ground water 30' in C 00800	Distance from nearest fresh water well 4749' NW of C 00800	Distance to nearest surface water ≈1200' NW of Pecos River		

A closed-loop system will be used in lieu of lined pits.

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	48	GL - 430'	355	GL
Intermediate	12.25"	9.625"	40	GL - 6040'	2700	GL
Production	8.75"	5.5"	17 & 20	GL - 12597'	1160	6500'

**Casing/Cement Program: Additional Comments**

Will plug back Atoka and complete in Strawn & Wolfcamp. See attached well bore diagram. Marathon has assigned all of their Wolfcamp interests in S2 Section 4 to Novo and will cancel their APDs 30-015-44888 & 30-015-44889.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure (psi)	Test Pressure (psi)	Manufacturer
annular and single & double rams	ann: 3000 & rams: 5000	ann: 3000 & rams: 5000	Shaffer

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
I further certify that I have complied with 19.15.14.9 (A) NMAC  and/or 19.15.14.9 (B) NMAC , if applicable.  
Signature: *Brian Wood*

Printed name: Brian Wood  
Title: Consultant  
E-mail Address: brian@permitswest.com  
Date: 7-15-19  
Phone: 505 466-8120

OIL CONSERVATION DIVISION

Approved By: *Raymond W. Godang*  
Title: *Geologist*  
Approved Date: *7-16-19* Expiration Date: *7-16-21*  
Conditions of Approval Attached: *DH Commingling*