BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING NOVEMBER 14, 2019

CASE Nos. 20886 & 20887

Ovation 131-132H Well Ovation 135H Well Ovation 211-212HH Well Ovation 215H Well Ovation 221-222H Well Ovation 231-232H Well Ovation 231-232H Well Ovation 235H Well

EDDY COUNTY, NEW MEXICO



STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF NOVO OIL & GAS NORTHERN DELAWARE, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NOS. 20886 & 20887

<u>AFFIDAVIT OF BRANDON PATRICK</u> <u>IN SUPPORT OF CASE NOS. 20886 AND 20887</u>

Brandon Patrick, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Brandon Patrick. I work for Novo Oil & Gas Northern Delaware, LLC ("Novo") as a Landman.
- 2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum landman have been accepted by the Division and made a matter of record.

CASE NO. 20886

- 3. I am familiar with the application filed by Novo in this case, and I am familiar with the status of the lands in the subject area.
- 4. None of the uncommitted parties has indicated opposition to this pooling application, and therefore I do not expect any opposition at the hearing.
- 5. Novo is seeking an order pooling all uncommitted interests in the Bone Spring formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the N/2 of Section 13, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.
- 6. Novo seeks to dedicate the above horizontal spacing unit to the following proposed wells:

- The Ovation Fed Com 13 #131H Well (API No. pending) to be horizontally drilled from a surface location in the NE/4 NE/4 (Unit A of Section 14, T23S, R28E, to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 13.
- The Ovation Fed Com 13 #132H Well (API No. pending) and the Ovation Fed Com 13 #135H Well (API No. pending), both of which will be horizontally drilled from a common surface location in the SE/4 NE/4 (Unit H) of Section 14, T23S, R28E, to bottom hole locations in the SE/4 NE/4 (Unit H) of Section 13.
- 7. Novo has prepared draft Form C-102s to file with the Division for these proposed wells that are attached hereto as **Novo Exhibit A-1**, **Novo Exhibit A-2**, and **Novo Exhibit A-3**.
- 8. It is Novo's understanding that the Division's district office has placed these wells in the Culebra Bluff; Bone Spring, South Pool (Pool Code 15011).
- 9. The completed interval for the **Ovation Fed Com 13 #132H Well** will remain within 330 feet of the N/2 N/2 of Section 13 to allow inclusion of these proximity tracts in a standard 320-acre horizontal well spacing comprised of the N/2 of Section 13. Incorporating the proximity tracts, the completed intervals for these proposed wells will comply with the Division's setback requirements.
- 10. There are no depth severances in the Bone Spring formation underlying this acreage.
- Novo Exhibit A-4 identifies the tracts of land comprising the proposed horizontal spacing unit that includes both fee and federal lands. This exhibit shows the interest owners that Novo seeks to pool and provides a unit recapitulation, showing the percentage of ownership

interests in the proposed spacing unit. Novo is seeking to pool both working interest owners and overriding royalty interest owners identified on Exhibit A-4.

- 12. There are no unleased interests in this acreage.
- 13. A copy of the well proposal letter for the wells, along with the corresponding AFEs, is attached as **Novo Exhibit A-5**. The costs reflected in the AFEs are consistent with what Novo and other operators have incurred for drilling similar horizontal wells in the area.

CASE NO. 20887

- 14. I am familiar with the application filed by Novo in this case, and I am familiar with the status of the lands in the subject area.
- 15. None of the uncommitted parties has indicated opposition to this pooling application, and therefore I do not expect any opposition at the hearing.
- 16. Novo is seeking an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the N/2 of Section 13, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.
- 17. Novo seeks to dedicate the above horizontal spacing unit to the following proposed wells:
 - The Ovation Fed Com 13 #211H Well (API No. pending), the Ovation Fed Com 13 #212H Well (API No. pending), the Ovation Fed Com 13 #221H Well, the Ovation Fed Com 13 #231H Well, and the Ovation Fed Com 13 #232H Well, each will be horizontally drilled from a common surface location in the NE/4 NE/4 (Unit A) of Section 14, T23S, R28E, to bottom hole locations in the NE/4 NE/4 (Unit A) of Section 13.

- The Ovation Fed Com 13 #215H Well, the Ovation Fed Com 13 #222H Well, the Ovation Fed Com 13 #225H Well, and the Ovation Fed Com 13 #235H Well each will be horizontally drilled from a common surface location in the SE/4 NE/4 (Unit H) of Section 14, T23S, R28E, to bottom hole locations in the SE/4 NE/4 (Unit H) of Section 13.
- 18. Novo has prepared draft Form C-102s to file with the Division for these proposed wells that are attached hereto as **Novo Exhibit A-6**, **Novo Exhibit A-7**, and **Novo Exhibit A-8**.
- 19. It is Novo's understanding these wells are located in the Purple Sage; Wolfcamp (Gas) Pool (Pool Code 98220).
- 20. The completed intervals of these wells will comply with the setbacks of the Special Rules for the Purple Sage Wolfcamp Pool.
 - 21. There are no depth severances in the Wolfcamp formation underlying this acreage.
- 22. **Novo Exhibit A-9** identifies the tracts of land comprising the proposed horizontal spacing unit that includes both fee and federal lands. This exhibit shows the interest owners that Novo seeks to pool and provides a unit recapitulation, showing the percentage of ownership interests in the proposed spacing unit. Novo is seeking to pool both working interest owners and overriding royalty interest owners identified on Exhibit A-9.
 - 23. There are no unleased interests in this acreage.
- 24. A copy of the well proposal letter for the wells, along with the corresponding AFEs, is attached as **Novo Exhibit A-10**. The costs reflected in the AFEs are consistent with what Novo and other operators have incurred for drilling similar horizontal wells in the area.

25. Novo has been able to locate contact information for all of the parties it seeks to pool and has undertaken good faith efforts to reach an agreement with the uncommitted interest owners in Case Nos. 20886 and 20887.

26. In Case Nos. 20886 and 20887, Novo seeks approval of overhead and administrative costs at \$8,000/month while drilling and \$800/month while producing. These costs are consistent with what Novo and other operators are charging in this area for these types of wells. Novo respectfully requests that these administrative and overhead costs be incorporated into any order entered by the Division in this case.

27. For both **Case Nos. 20886** and **20887**, I provided the law firm of Holland & Hart LLP a list of names and addresses for the uncommitted interest owners. In compiling these addresses, Novo conducted a diligent search of all public records in the county where the proposed wells are located and of phone directories, including computer searches.

28. **Novo Exhibits A-1** through **A-8** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT.

BRANDON PATRICK

STATE OF OKLAHOMA)	
COUNTY OF OKLAHOMA)	
SUBSCRIBED and SWORN to bef	ore me this 12 th day of November 2019 by
Brandon Patrick.	
My Commission Expires: 11/15/20	NOTARY PUBLIC NOTARY PUBLIC # 16010609 EXP. 11/15/20

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 & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

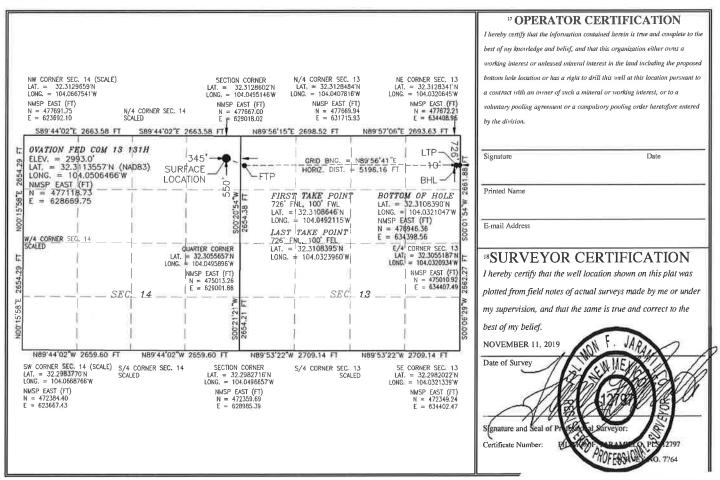
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 ,	API Number		² Pool Code ³ Pool Name									
1	ALI MUMIDEI	ı		roorc	oue		1001142	ime				
								-	6			
4 Property C	Code				5 Proper	y Name			· ·	6 Well Number		
					OVATION F	ED COM 13			131H			
⁷ OGRID I	No.				⁸ Operate	r Name				⁹ Elevation		
372920	0		NOV	OOIL	& GAS NORT	HERN DELAWA	RE, LLC			2993.0		
		[∞] Surface Location										
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
A	14	23 S 28 E 550 NORTH 345 EAST							EDDY			
		¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township Range Lot Idn Feet from the North/South line Feet from the East/West line Cou							County			
A	13	23 S	3 S 29 E 726 NORTH 10 EAST ED							EDDY		
12 Dedicated Acre	s ¹³ Joint	oint or Infill 14 Consolidation Code 15 Order No.										

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A1

Case # 20886 & 20887

Inten		As Dril	led										
API#													
Ope	rator Na	me:				Pro	perty N	lame	:				Well Number
NO		& GAS N	NORTHE	RN		OVATION FED COM 13							131H
):							•
Kick (Off Point	(KOP)											
UL	Section	Township	Range	Lot	Feet		From I	N/S	Feet	Fro	om E/W	County	
Latitu	ude				Longitu	ide						NAD	
First	Take Poir	it (FTP)											
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												1	
Last T	ake Poin	t (LTP)											
UL A	Section 13	Township 23S	Range 28E	Lot	Feet 726		m N/S PRTH	Feet 100		rom E/W	Coun EDD		
Latitu		_			Longitu		2000				NAD		
32.3	310839	5			104.0	J323	3960				83		
Is this	s well the	defining v	vell for the	e Horiz	zontal Sp	oacin	g Unit?	. [
ls this	well an i	infill well?]								
	ll is yes pl ng Unit.	lease provi	ide API if a	availab	le, Oper	ator	Name	and v	vell nur	mber foi	Defini	ng well fo	r Horizontal
API#]										
Ope	rator Nar	ne:				Pro	perty N	lame:	:				Well Number

KZ 06/29/2018

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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

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

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

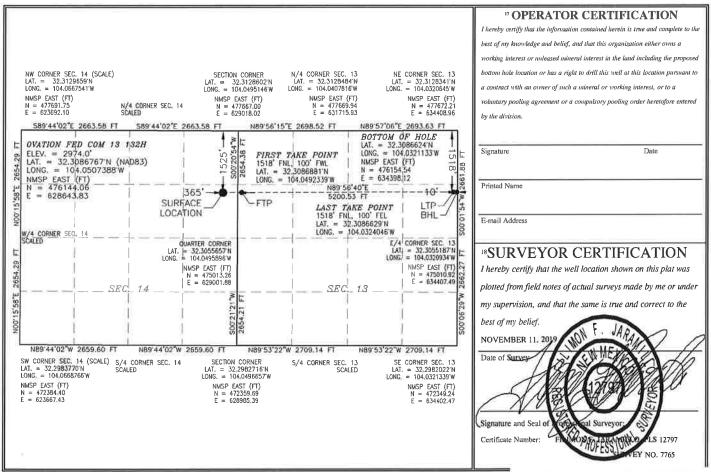
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /	API Number	r		² Pool Co	ode		³ Pool Na	nme				
⁴ Property (Code				5 Property	Name			6	Well Number		
					OVATION FE	D COM 13				132H		
OGRID 1	No.		⁸ Operator Name ⁹ Elevation									
372920	0	NOVO OIL			& GAS NORTH	ERN DELAWA	RE, LLC			2974.0		
			[∞] Surface Location									
UL or lot no.	Section	Townshi	ownship Range Lot Idn Feet from the North/South line Feet from the East/West line Co							County		
Н	14	23 S	28 E		1525	NORTH	365	EAST EDDY				
		¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	t from the North/South line Feet from the East/West line County						
Н	13	23 S	29 E		1518	NORTH	NORTH 10 EAST EDDY					
12 Dedicated Acre	s ¹³ Joint	or Infill	14 Consolidatio	solidation Code 15 Order No.								

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A2
Submitted by: Novo Oil & Gas Northern Delaware

Inten	t	As Dril	led											
API#														
NO	rator Na VO OIL _AWAR	& GAS N	NORTHE	ERN			perty N ATIOI			OM 1	3			Well Number 132H
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From I	N/S	Feet		Fron	n E/W	County	
Latitu	ıde				Longitu	ıde			1				NAD	
First 1	Гаke Poir	nt (FTP)			IX-									
UL E	Section 13	Township 23S	Range 28E	Lot	Feet 1518		From I		Feet 100		Fron	n E/W ST	County	
Latitu	ude 308688	lı.			Longitu 104.(2339						NAD 83	
Last T	ake Poin	t (LTP)												
UL H	Section 13	Township 23S	Range 28E	Lot	Feet 1518		om N/S DRTH	Feet		From EAS		Count		
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s this	well an	infill well?												
	ng Unit.	lease prov	de API if a	availab	ole, Ope	rator	Name	and v	vell n	umber	for I	Definir	ng well fo	r Horizontal
Ope	rator Nai	ne:				Pro	perty N	lame	îe le					Well Number

KZ 06/29/2018

District 1 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

District III
1000 Rio Brazos Road, Aztec, NM 87410
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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 & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

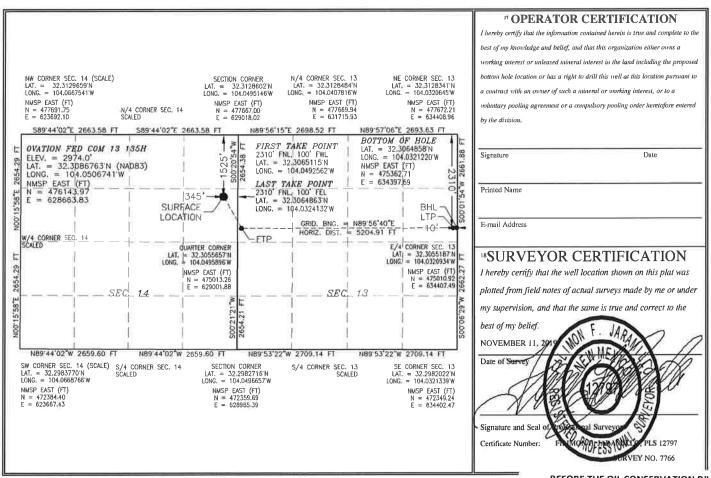
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1,	API Number	г			² Pool C	ode			³ Pool Na	me		
⁴ Property (Code					§ Pr	operty l	Name			6	Well Number
						OVATIO	N FE	D COM 13				135H
⁷ OGRID I	No.					⁸ Op	erator l	Name				⁹ Elevation
37292	0			NOV	OIL	& GAS NO	RTH	ERN DELAWA	RE, LLC			2974.0
			[™] Surface Location									
UL or lot no.	Section	Townsh	ip	Range	Lot Idn	Feet from	the .	North/South line	Feet from the	East/We	st line	County
Н	14	23 S		28 E	E 1525 NORTH 345 EAST							EDDY
			¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Townsh	ip	Range	ange Lot Idn Feet from the North/South line Feet from the East/West line C							
Н	13	23 S		29 E	2310 NORTH 10 EAST F							
12 Dedicated Acre	s ¹³ Joint	¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.							₩ <u></u>			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



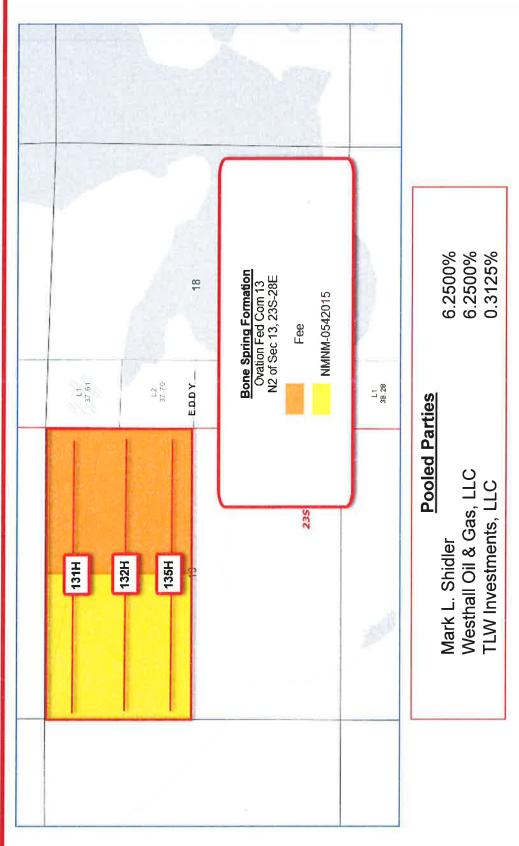
BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. A3

Inten	!	As Dril	led											
NO	rator Nai VO OIL AWAR	& GAS N	NORTHE	ERN		1	perty N ATIOI			OM 13	3			Well Number 135H
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From f	N/S	Feet		From	E/W	County	
Latitu	ıde				Longitu	ıde							NAD	
First 7	Гаке Poin	it (FTP)												
UL E	Section 13	Township 23S	Range 28E	Lot	Feet 2310		From NOR		Feet 100		From WES		County	
Latitu			-		Longitu								NAD 83	
Last T	ake Poin	t (LTP)										1		
UL H	Section 13	Township 23S	Range 28E	Lot	Feet 2310		m N/S PRTH	Feet 100		From E EAST		Count EDD		
Latitu					Longitu 104.0	ıde		1				NAD 83		
ls this	well the	defining v	vell for the	e Horiz	zontal Sp	pacin	g Unit?							
Is this	well an i	nfill well?	Ü											
Spacir	l is yes pl ng Unit.	ease provi	ide API if a	availab	lle, Opei	rator	Name	and v	vell nu	ımber	for D	efinir	ng well fo	r Horizontal
API#														
Ope	rator Nar	ne;	·			Pro	perty N	lame:						Well Number



Ovation Fed Com 13 Wells - 131H, 132H, 135H - Bone Spring



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. A4

Submitted by: Novo Oil & Gas Northern Delaware Hearing Date: November 14, 2019 Case # 20886 & 20887

Summary of Interest

Ovation Fed Com 13 131H, 132H, & 135H

N2 of Section 13, Township 23 South, Range 28 East

Bone Spring Formation

320.00-acre spacing

Non-Standard Well Location: Ovation Fed Com 13 132H

Committed Working Interest:

Novo Oil & Gas Northern Delaware, LLC

87.18750%

87.18750%

Uncommitted Working Interest:

• Mark L. Shilder

Westhall Oil & Gas, LLC

TLW Investments, LLC *

o Interest subleased to Stryker Energy, LLC

6.25000% 6.25000% 0.31250%

12.81250%

Unleased Mineral Interest:

None



^{*}Note: On June 1, 2019, in an unrecorded Memorandum of Oil & Gas Sublease, TLW Investments, LLC granted a sublease to Stryker Energy, the NE4 NW4 of Section 13, 23S-28E, Eddy County, NM, in Federal Lease NMNM-0542015, dated May I, 1964.

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	Ovation Fed Com 13 N2	1 N2		
Name	Street	City	State	Zip
Section 13 ORRI				
Don Paage Royalties	550 West Texas Ave, Suite 800	Midland	×	19707
Robert H. Northington	15250 Prestonwood Blvd, 263	Dallas	¥	75248-4791
H. P. McLish	1520 W Canal Ct, Suite 250	Littleton	8	80120
Chase Hicks	111 Stoney Creek Lane	Terrell	¥	75160-5140



Justin Carter Landman Novo Oli & Gas Northern Delaware, LLC 1001 W. Wilshire Blvd, Suite 206 Oklahoma City, Oklahoma 73116 Office: 405.286.3375 jcarter@novoog.com

August 30, 2019

SEE ATTACHED LIST OF WORKING INTEREST OWNERS

Re: Ovation Fed Com 13 Third Bone Spring Wells
N/2 of Section 13, Township 23 South, Range 28 East
Eddy County, New Mexico

Proposed Wells
Ovation Fed Com 13 131H
Ovation Fed Com 13 132H
Ovation Fed Com 13 135H

320- acre spacing unit

Ladies and Gentlemen:

Novo Oil & Gas Northern Delaware, LLC ("Novo") as Operator hereby propose the drilling of the following Ovation Fed Com 13 one-mile horizontal wells, located in N/2 of Section 13, Township 23 South, Range 28 East, Eddy County, New Mexico, to the Third Bone Spring formation. In connection with the above, Novo will be seeking a Non-Standard Spacing Unit covering N/2 of Section 13.

The estimated cost of drilling, testing, completing, and equipping of each Well is itemized on the enclosed Authority for Expenditures ("AFE") dated August 29, 2019.

Proposed Wells - Ovation Fed Com 13 131H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East
First take point: 726' FNL, 100' FWL of Section 13, Township 23 South, Range 28 East
Last take point: 726' FNL, 100' FEL of Section 13, Township 23 South, Range 28 East
BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East
The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to
an approximate true vertical depth (TVD) of 9,535' feet subsurface to evaluate the Third Bone Spring
formation. The proposed well will have measured depth (MD) of approximately 14,535' feet.

Proposed Well - Ovation Fed Com 13 132H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East
First take point: 1,518' FNL, 100' FWL of Section 13, Township 23 South, Range 28 East
Last take point: 1,518' FNL, 100' FEL of Section 13, Township 23 South, Range 28 East
BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,545' feet subsurface to evaluate the Third Bone Spring formation. The proposed well will have measured depth (MD) of approximately 14,545' feet.

Proposed Well - Ovation Fed Com 13 135H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East First take point: 2,310' FNL, 100' FWL of Section 13, Township 23 South, Range 28 East Last take point: 2,310' FNL, 100' FEL of Section 13, Township 23 South, Range 28 East BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,550' feet subsurface to evaluate the Third Bone Spring formation. The proposed well will have measured depth (MD) of approximately 14,550' feet.

Regarding the above, enclosed for your handling is a copy of the AFEs. In the event you elect to participate in the proposed well, please execute the enclosed AFEs and return to the attention of the undersigned within thirty (30) days from receipt of this letter. Novo will provide a copy of its proposed Operating Agreement upon request. Should you have any questions regarding the above, please call me at (405) 286.3375 or if by email, my email address is jearter@novoog.com.

Sincerely,

Novo Oil & Gas Northern Delaware, LLC

Landman

Not to participate in the Ovation Fed Com 13 131H.
Participate in the Ovation Fed Com 13 131H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 132H.
Participate in the Ovation Fed Com 13 132H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 135H.
Participate in the Ovation Fed Com 13 135H for its Proportionate share of costs.
Ву:
Printed Name:
Title:
Date:
Contact Number:

Ovation Fed Com 13 Fed Com Wells N2 of Section 13-23S-28E

Respondents/Working Interest Owners

Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd. Suite 206 Oklahoma City, OK 73116

Mark L. Shidler 1313 Campbell Rd, Bldg D Houston, TX 77005

Westhall Oil & Gas, LLC P.O. Box 4 Loco Hills, NM 88255

TLW Investments, LLC 1001 Fannin, Suite 2020 Houston, TX 77002



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Washin, Suite 206
Olinhoms City, Outhorn 27310
405-286-4391

	NAME AL LOCATION	Ovation Fed Com 13 131H T23S, R28E, Sec 13 - T23S, R28E, Sec 13	AFE TYPE		opment em Delaware	AFE NUMBER DRILLING DAYS	2015	108
	CE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION		Bone Spring	DEPTH (TVD/TMD)	-	5' / 14,535'
	M-HOLE LOCATION	T23S, R28E, Sec 13 NE/4 NE/4	COUNTY		County	STATE		Mexico
	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs				Article Colonia	all bound	W110333517
	(***:::					***************		
CCT.		DESCRIPTION OF EXPENDITURE INTANGIBLE COSTS		De	ILLING (300)	COST ESTIMATE COMPLETION (500)		
01	SURVEY/PERMITS/DA			S	50,000	COMPLETION (500)	s	50,0
02	LOCATION & ROAD	WINGEO/EEGAL			150,000		-	150,0
03	RIG MOVE			-	150,000			150,0
04	DRILLING - FOOTAGE			1177	50,000		1	50,0
05	DRILLING - DAYWORK				640,000			840,0
06	COMPLETION/WORK					60,000		60,0
07	COIL TUBING/SNUBBI					125,000		125,0
08	SLICKLINE/SWABBING							
09	BITS				100,000	5,000		105,0
10	DIRECTIONAL SERVICE	ES			264,000			264,0
11	CASING CREW	VIII-17-17-17-17-17-17-17-17-17-17-17-17-17-		-	100,000	- Language	1	100,0
12	TOOL & EQUIPMENT F	RENTAL		-	50,000	80,000	-	130,0
13	FUEL & POWER			-	160,000	175,000	-	335,
14	DIESEL - BASE FOR M			-	100,000		-	100,
15	MUD LOGGING & GEO				22,000			22,
16	DISPOSAL, RESTORA	HON & BACKFILL		-	150,000	12.22	-	150,
17	TRUCKING			-	120,000	40,000	-	160,
18	TESTING			1	000 000		1	200
19	CEMENTING				200,000	190,000	-	200,
20	PERFORATING			-		190,000	-	190,
21	CASED HOLE LOGS	SERVICE		-		45,000		45.
22 23	DOWNHOLE TOOLS & OTHER STIMULATION	SERVICE		-		45,000	-	40,
24	FORMATION STIMULA	TION		-		1,750,000		1,750.
25	CONSULTING SERVICE	101-04				20,000		1,730
26	SUPERVISION	L-4		_	120,000	85,000	-	205
27	CONTRACT LABOR			+	5,000	20,000	1	25
28	OTHER LABOR			-	5,000	100,000		100
29	COMPANY CONSULTI	NG/SUPV				120,020		
30	WATER				50,000	400,000		450
31	FLUIDS & CHEMICALS				200,000			200
32	CORING & ANALYSIS							
33	COMMUNICATIONS				10,000	10,000		20
34	BOP TESTING				20,000	10,000		30,
36	FISHING TOOLS & SEI	RVICES						
37	INSPECTIONS				10,000	5,000		15,
38	WIRELINE SERVICES							
39	ENGINEERING & GEO				- Netonyan			
40	ENGINEERING & GEO	LOGY - OFFICE		-	14,000		-	14
41	MULTISHOT & GYRO			-			_	
42	RE-ENTRY SERVICES			-			-	
43	CAMPS & TRAILERS	77.2		-	15,000	15,000	-	30
14	SAFETY EQUIPMENT	& H2S		-	20,000	5,000	-	25
45	CONTINGENCY			-	10,000	2.000	-	10
46	INSURANCE			-	10,000	2,000	-	12
47	MISCELLANEOUS SIM-OPS			-	10,000	10,000	-	20
49	TOTAL INTANGIBLE C	OSTS		s	2,790,000	\$ 3,152,000	s	5,942
_	T G T T G T T T T T T T T T T T T T T T	TANGIBLE COSTS			ILLING (400)	COMPLETION (600)	-	TOTAL
11	CASING - CONDUCTO			S	10,000		\$	10
)2	CASING - SURFACE				20,000			20
)3	CASING - INTERMEDIA	ATE			168,000			168
34	CASING - INTERMEDIA							
)5	CASING - PRODUCTIO	N / LINER			360,000			360
06	SUBSURFACE EQUIP				50,000	25,000		75
07	PRODUCTION TUBING	Service Control of the Control of th		1		55,000		55
80	SUBSURFACE PUMPI							
	WELLHEAD EQUIPME	NT		-	50,000		-	70
	FLOWLINES	O POLICE		-		100,000		100
	SURFACE PUMPING E			-				
	LINER HANGER & ASS	OC EUGIP		_		200 404		000
3	VALVES & FITTINGS			-		200,000	-	200
5	RODS			-	20,000	9.000	1	i gen
	TRUCKING	T.		+	50,000	2,000	-	52
-	RE-ENTRY EQUIPMEN	A/PLA-PARTIES		-		500,000	-	500
	PRODUCTION EQUIPM MISCELLANEOUS	MENT I		-	10,000	The second secon	-	20
	TANGIBLE EQUIP-ACC	HISTIONS		-	10,000	10,000	-	20
	THE REPORT OF THE PARTY OF THE	Getterprocess to the Committee of the Co		\$	728,000	\$ 902,000	\$	1,630
49	TOTAL INTANGINI F C					1000	+	1,440
	TOTAL ESTIMATED			s	3,518,000	\$ 4,054,000	100	7,572,

PREPARED BT:	Aaron Cattley	Belief Operations Engineer	DATE. GIZBIZU19
OPERATOR APPROVAL:	700	VP - Operations	DATE: 8/29/2019
OPERATOR APPROVAL:	- PE	CFO	DATE: 8/24/2019
PARTNER COMPANY NAME:			
PARTNER APPROVAL:	-		DATE:
TITLE:			



TOTAL ESTIMATED WELL COST

NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1004 Weet Windlere, Suite 2006 Oldshown City, Okthomn 75/116

WELL N	National Statement Committee Committ	Ovation Fed Com 13 132H	AFE TYPE	Development	AFE NUMBER	2015169
	AL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	22
	CE LOCATION	T23S, R28E, Sec 14 NE/4		Third Bone Spring	DEPTH (TVD/TMD)	9,545' / 14,545'
	M-HOLE LOCATION	T23S, R28E, Sec 13 SE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
ROJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs	for 5,080' horizontal	well.		
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
01	SURVEY/PERMITS/DA	The state of the s		\$ 50,000	COMPLETION (500)	\$ 50,00
02	LOCATION & ROAD	WAGEGIEEGAL		150,000		150,00
03	RIG MOVE			150,000		150,00
04	DRILLING - FOOTAGE			50,000		50,00
05	DRILLING - DAYWORK			640,000		640,00
06	COMPLETION/WORK			040,000	60,000	
07	COIL TUBING/SNUBBI	1000110000			125,000	125,00
08	SLICKLINE/SWABBING				120,000	123,00
09	BITS			100,000	5,000	105,00
10	DIRECTIONAL SERVICE	ce		264,000	5,000	264,00
11	CASING CREW	140		100,000		100,00
12	TOOL & EQUIPMENT F	DENTAL		50,000	80,000	
13	FUEL & POWER	CENTAL		* TOTAL PARTY OF THE PARTY OF T		130,00
14	DIESEL - BASE FOR M	IIID	-	160,000	175,000	335,00
15	MUD LOGGING & GEO			22,000		100,00
	A STATE OF THE PARTY OF THE PAR	North Colors (Colors Colors Co		- 2 T(1) (00 H/1) A		22,00
16	DISPOSAL, RESTORA TRUCKING	TION & DAGREILL		150,000	40.000	150,00
	Africa Salting Str., No. 100 (101) of public control			120,000	40,000	160,00
18	TESTING			200.000		200.00
20	CEMENTING PERFORATING			200,000	100.000	200,00
	A STATE OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PER				190,000	190,00
21	DOWNHOLE TOOLS &	SEDVICE		,	48.000	45.00
	The production of the second section of the section of				45,000	45,00
23	OTHER STIMULATION	#/			. 222 222	
24	FORMATION STIMULA				1,750,000	1,750,00
26	CONSULTING SERVIC	ES		470.000	20,000	20,00
26	SUPERVISION			120,000	85,000	205,00
27	CONTRACT LABOR			5,000	20,000	25,00
28	OTHER LABOR COMPANY CONSULTI	ALCO POLICY C			100,000	100,00
30	A STATE OF THE PARTY OF THE PAR	NG/SUPV		70.000	100.000	
31	FLUIDS & CHEMICALS			50,000	400,000	450,00
32	A secure of a second contract property and the artists of the second			200,000		200,00
33	CORING & ANALYSIS			40.000	40.000	
34	COMMUNICATIONS			10,000	10,000	20,00
36	BOP TESTING	NACC.		20,000	10,000	30,00
37	FISHING TOOLS & SEI	TVICES		10,000	F 000	15.00
38	INSPECTIONS			10,000	5,000	15,00
39	WIRELINE SERVICES ENGINEERING & GEO	LOCK FIELD				
40	ENGINEERING & GEO			14,000		44.00
41	MULTISHOT & GYRO	LOGI - OFFICE		14,000		14,00
42	RE-ENTRY SERVICES					
43	CAMPS & TRAILERS			15,000	15,000	30.00
44	SAFETY EQUIPMENT	P HTC		20,000	5,000	The second second
45	CONTINGENCY	a rizo		20,000	5,000	25,00
46	INSURANCE			10,000	2,000	12,00
47	MISCELLANEOUS			10,000	10,000	20,00
49	SIM-OPS			10,000	10,000	20,00
40	TOTAL INTANGIBLE C	OSTS		\$ 2,790,000	\$ 3,152,000	\$ 5,942,00
_		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
01	CASING - CONDUCTO			\$ 10,000		\$ 10,00
02	CASING - SURFACE	711		20,000		20,00
03	CASING - INTERMEDIA	NTE .		168,000		188,00
04	CASING - INTERMEDIA			150,000		100,00
05	CASING - PRODUCTIO			360,000		360.00
06	SUBSURFACE EQUIPM			50,000	25,000	75,00
	PRODUCTION TUBING			44,000	55,000	55,00
	SUBSURFACE PUMPIN				00,000	55,00
	WELLHEAD EQUIPME			80,000	10,000	70,00
	FLOWLINES				100,000	100,00
	SURFACE PUMPING E	QUIPMENT				100,00
12	LINER HANGER & ASS					
	VALVES & FITTINGS				200,000	200,00
	RODS				200,000	200,00
17	TRUCKING			50,000	2,000	52,00
	RE-ENTRY EQUIPMEN	Ť		30,000	.000,3	52,00
20					500.000	
20 34	PRODUCTION FOLIPM	MENT				
34	PRODUCTION EQUIPM MISCELLANEOUS	MENT		10,000	A STATE OF THE PARTY OF THE PAR	500,00
34 47	MISCELLANEOUS			10,000	10,000	20,00
34 47		UISITIONS		10,000 \$ 728,000	10,000	20,00

PREPARED BY:	Aaron Cattley	Senior Operations Engineer	DATE: 8/29/2019
OPERATOR APPROVAL:	288	VP - Operations	DATE: 8/29/2019
OPERATOR APPROVAL:	MI	CFO CFO	DATE: 2/2019
91			
PARTNER COMPANY NAME:			
PARTNER APPROVAL:			DATE:
TITLE:			

s

3,518,000 \$

4,054,000 \$

7,572,000



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wildlife. Suite 206 Oklahema City, Oklahomiz 73116 405-286-4391

WELL N	VAME	Ovation Fed Com 13 135H	AFE TYPE	Development	AFE NUMBER	2015170
ATER	AL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	22
	CE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Third Bone Spring	DEPTH (TVD/TMD)	9,550' / 14,550'
	M-HOLE LOCATION	T23S, R28E, Sec 13 SE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
ROJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs	tor 5,080 nonzonta	I well,		
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
01	SURVEY/PERMITS/DA			\$ 50,000	TOTAL CONTRACTOR OF THE PARTY O	\$ 50,000
02	LOCATION & ROAD			150,000		150,000
03	RIG MOVE			150,000		150,000
04	DRILLING - FOOTAGE			50,000		50,000
05	DRILLING - DAYWORK			840,000		640,000
06	COMPLETION/WORK				60,000	60,000
07	COIL TUBING/SNUBBI				125,000	125,000
80	SLICKLINE/SWABBING			****		105.00
10	BITS DIRECTIONAL SERVICE	ree .		100,000	5,000	105,000
11	CASING CREW	EO		100,000		100,000
12	TOOL & EQUIPMENT	PENTAL		50,000	80,000	130,000
13	FUEL & POWER	CHIAC		160,000	175,000	335,000
14	DIESEL - BASE FOR M	UD		100,000	175,000	100,000
15	MUD LOGGING & GEO			22,000		22,000
16	DISPOSAL, RESTORA			150,000		150,000
17	TRUCKING	WAST-BELOOK THEST ASSECTED.		120,000	40,000	160,000
18	TESTING				1	(
19	CEMENTING			200,000		200,000
20	PERFORATING			1000	190,000	190,000
21	CASED HOLE LOGS					
22	DOWNHOLE TOOLS &	SERVICE			45,000	45,000
23	OTHER STIMULATION					
24	FORMATION STIMULA	1.01310			1,750,000	1,750,000
25	CONSULTING SERVIC	ES		1227202	20,000	20,000
28	SUPERVISION			120,000	85,000	205,000
27 28	CONTRACT LABOR OTHER LABOR			5,000	20,000	25,000
29	COMPANY CONSULTI	NC/RUDY			100,000	100,000
30	WATER	NG/SUPV		50,000	400,000	450,000
31	FLUIDS & CHEMICALS			200,000	.400,000	200,000
32	CORING & ANALYSIS			200,000		200,000
33	COMMUNICATIONS			10,000	10,000	20,000
34	BOP TESTING			20,000	10,000	30,000
36	FISHING TOOLS & SEL	RVICES				0
37	INSPECTIONS			10,000	5,000	15,000
38	WIRELINE SERVICES			ļ		
39	ENGINEERING & GEO	LOGY - FIELD				
40	ENGINEERING & GEO	LOGY - OFFICE		14,000		14,000
41	MULTISHOT & GYRO					(
42	RE-ENTRY SERVICES					Contract of the Contract of th
43	CAMPS & TRAILERS	dent displace of		15,000	15,000	30,000
44	SAFETY EQUIPMENT	k H2S		20,000	5,000	25,000
45	CONTINGENCY			40.000	***	
46	INSURANCE			10,000	2,000	12,000
47	MISCELLANEOUS SIM-OPS			10,000	10,000	20,000
*43)	TOTAL INTANGIBLE C	OSTS		\$ 2,790,000	\$ 3,152,000	\$ 5,942,000
	C THE INTERIOR OF	TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
01	CASING - CONDUCTO			\$ 10,000		\$ 10,000
02	CASING - SURFACE	***		20,000		20,000
03	CASING - INTERMEDIA	TE		168,000		168,000
04	CASING - INTERMEDIA	The state of the s				0
05	CASING - PRODUCTIO			360,000		360,000
08	SUBSURFACE EQUIPM	MENT		50,000	25,000	75,000
07	PRODUCTION TUBING				55,000	55,000
	SUBSURFACE PUMPIN					0
	WELLHEAD EQUIPME	NT		60,000	10,000	70,000
	FLOWLINES	PVOTTGERGE			100,000	100,000
	SURFACE PUMPING E					0
12	LINER HANGER & ASS	OC EQUIP			MAR. 5.7.5	000.000
	VALVES & FITTINGS				200,000	200,000
	RODS			50.000	0.000	60.000
17	TRUCKING	Y		50,000	2,000	52,000
	RE-ENTRY EQUIPMEN PRODUCTION EQUIPMENT				500,000	
	MISCELLANEOUS	ICIT I		10,000	10,000	500,000 20,000
49	TANGIBLE EQUIP-ACC	UISITIONS		10,000	10,000	20,000
43	TOTAL INTANGIBLE C	A TAY OF A MANAGEMENT		\$ 728,000	\$ 902,000	
	TO THE INTARGIBLE O					
	TOTAL ESTIMATED	WELL COST		\$ 3,518,000	\$ 4,054,000	\$ 7,572,000

PREPARED BY: OPERATOR APPROVAL: OPERATOR APPROVAL:	Aaron Cattley	Senior Operations Engineer VP - Operations	DATE: 8/29/2019 DATE: 8/29/2019
PARTNER COMPANY NAME: PARTNER APPROVAL:			DATE:
TITLE:			

District 1 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 & Natural Resources Department

> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /	API Number			² Pool Co	de		³ Pool Na	me		
⁴ Property (Code				5 Property	Name			6 W	/ell Number
					OVATION FE	D COM 13				211H
OGRID !	Vo.				8 Operator	Name			9	Elevation
37292	0		NOV	O OIL &	GAS NORTH	ERN DELAWA	RE, LLC		2	2993.0
					" Surface	e Location			70	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
A	14	23 S	28 E		550	NORTH	325	EAS	T	EDDY
			" B	ottom I	lole Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idu	Feet from the	North/South line	Feet from the	East/Wes	st line	County
A	13	23 S	29 E		330	NORTH	130	EAS	T	EDDY
12 Dedicated Acre	s ^D Joint	or Infill	14 Consolidation	n Code	•	•	15 Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	" OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the
	best of my knowledge and belief, and that this organization either owns a
	working interest or unleased mineral interest in the land including the proposed
	bottom hole location or has a right to drill this well at this location pursuant to
NW CORNER SEC. 14 (SCALE) SECTION CORNER N/4 CORNER SEC. 13 NE CORNER SEC. 13 LAT. = 32.3128602 N LAT. = 32.3128484N LAT. = 32.3128484N LAT. = 32.3128341N	a contract with an owner of such a mineral or working interest, or to a
LONG, = 104.0667541"W LONG, = 104.0495146"W LONG, = 104.0407816"W	
N = 477691.75 N/4 CORNER SEC, 14 N = 477667.00 N = 477669.94 N = 477672.21 E = 623692.10 SCALED E = 623692.10 E = 631715.93 E = 634408.96	voluntary pooling agreement or a compulsory pooling order heretofore entered
S89'44'02"E 2863.58 FT S89'44'02"E 2663.58 FT N89'56'15"E 2698.52 FT N89'57'06"E 2693.63 FT	by the division.
GRID RNG = N89°58'41"F	
L OVATION FED COM 13 211H	Signature Date
STEAT - 12 301 TENTIN (NAIDRS) CHIDEACE	
MINNSP EAST (FT) LOCATION OF HOLE	Printed Name
P N = 477118.64 % E = 628689.75 BOTTOM OF HOLE N = 477118.64 LAT. = 32.3119279 N	Printed Name
LONG. = 104.0324888W [5	
MMSP EAST (FT) 5 NMSP E	E-mail Address
LAT = 32,3055857N LAT = 32,3055187N -	*SURVEYOR CERTIFICATION
BUILD EAST (ET) TAKE POINT NAMED FAST (FT) N	I hereby certify that the well location shown on this plat was
N = 475013.26 LAT. = 32.3119519'N N = 475010.92 N = 634073.06	
	plotted from field notes of actual surveys made by me or under
330' FNL 330' FEL	my supervision, and that the same is true and correct to the
LAT. = 32.3119290'N LONG. = 10#.0331360 W	best of my belief.
89 89 89	NOVEMBER 12, 2019
N89"44"02"W 2659.60 FT N89"44"02"W 2659.60 FT N89"53"22"W 2709.14 FT N89"53"22"W 2709.14 FT	
SW CORNER SEC. 14 (SCALE) S/4 CORNER SEC. 14 SECTION CORNER S/4 CORNER SEC. 13 SE CORNER SEC. 13 LAT. = 32.2983776N SCALED LAT. = 32.2982022N	Date of Survey
LONG. = 104.04668766'W LONG. = 104.0321339'W	A STANDER AND ALL
NMSP EAST (FT)	LADON SKIRANIN
E = 623667.43 E = 628985.39 E = 634402.47	- VALATABALIYEV
	Signature and Sear of Projectional America:
	Certificate Number: ALM9N LABO (LOP) S 12797
	POFESSOR Y NO. 7776
	TOTALIFACT NO. 1/16

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. A6

Case # 20886 & 20887

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

811 S, First SI., Arlesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III District III 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

¹ API Number

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

³ Pool Name

☐ AMENDED REPORT

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٦	/ Y	ъ.	71	∟.	L	Ι.	L	┖	′∖	ノレ	┒		-1	١.	, I	v	Γ	NΙ		_	,		у,	$\overline{}$	٠1	V.I	_/	\Box		"	_	1	1		◡	Ľ	$\overline{}$	Γ	A .	L J	LV.	"	L٦			-15	A .		

² Pool Code

4 Property	Code				5 Property	Name			6 4	Well Number
					OVATION FE	D COM 13				212H
⁷ OGRID	No.				⁸ Operator l	Name				⁹ Elevation
37292	0		NOV	O OIL &	GAS NORTH	ERN DELAWA	RE, LLC			2993.0
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
A	14	23 S	28 E		550	NORTH	305	EAS	ST	EDDY
			пE	ottom H	ole Location	If Different Fro	m Surface			v. = 14
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County
Α	13	23 S	28 E		1122	NORTH	130	EAS	ST	EDDY
² Dedicated Acre	s ¹³ Joint	or Infill 14 (Consolidatio	n Code			15 Order No.			

ir:	
	17 OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete
	to the best of my knowledge and belief, and that this organization either
	owns a working interest or unleased nuneral interest in the land including
WW 000VFD 0F0 14 (70V f)	the proposed bottom hole location or has a right to drill this well at this
NW CORNER SEC, 14 (SCALE) SECTION CORNER N/4 CORNER SEC, 13 NE CORNER SEC, 13 LAT. = 32,312869"N LAT. = 32,3128484"N LAT. = 32,3128341"N	location pursuant to a contract with an owner of such a mineral or working
LONG, = 104.0667541'W LONG, = 104.0495146'W LONG, = 104.0407816'W LONG, = 104.0320645'W NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	interest, or to a voluntary pooling agreement or a compulsory pooling order
N = 477691.75 N/4 CORNER SEC. 14 N = 477667.00 N = 477669.94 N = 477672.21 E = 623692.10 SCALED E = 629018.02 E = 631715.93 E = 634408.96	heretofore entered by the division
S89'44'02"E 2663.58 FT S89'44'02"E 2663.58 FT N89'56'15"E 2698.52 FT N89'57'06"E 2693.63 FT	
BOTTOM STATE OF THE STATE OF TH	Signature Date
g ELEV. = 2993.0' 305' 1	Signature Date
15 LONG = 104.0505171W	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Printed Name
2	
S E = 628709.74	E-mail Address
10NG = 104.0484/84/W	
SCALED SEC. 14 CHARLER CORNER LAST TAKE POINT SEC. 13 EA CORNER SEC. 13	18SURVEYOR CERTIFICATION
LAT, = 32.3055657N 1122' FNL, 330' FEL LAT = 32.3055187 N LAT. = 32.3097524'N LONG = 104.0329934'W	I hereby certify that the well location shown on this plat
NUSP FAST (FT) LONG - 104 03344694 NUSP FAST (FT) IN	, ,,
N = 475013.26 E = 629001.88 BOTTOM OF HOLE E = 634407.49	was plotted from field notes of actual surveys made by
L LONG. = 194.0324974'W	me or under my supervision, and that the same is true
2 N = 476550.35 Cl E = 634278.37	and correct to the best of my belief.
NO 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NOVEMBER 12, 2019
N89'44'02'W 2659.60 FT N89'44'02'W 2059.60 FT N89'53'22'W 2709.14 FT N89'53'22'W 2709.14 FT	5 140
SW CORNER SEC. 14 (SCALE) S/4 CORNER SEC. 14 SECTION CORNER S/4 CORNER SEC. 13 SE CORNER SEC. 13	Date of Survey
LAT. = 32.2983770'N SCALED LAT. = 32.2982716'N SCALED LAT. = 32.2982022'N LONG. = 104.0668766'W LONG. = 104.046657'W LONG. = 104.0321339'W	
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT) N = 472384.40 N = 472359.69 N = 472349.24	- VNIXIA TIGINING V
E = 623667.43 E = 628985,39 E = 634402.47	
	Signature and Seal of Processional Surveyor
	Certificate Number: FILIMON P. JARAMILLO, PLS 12797
	SURVEY NO. 7777

District I

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

District II

12 Dedicated Acres

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 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

API Number

13 Joint or Infill

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

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³ Pool Name

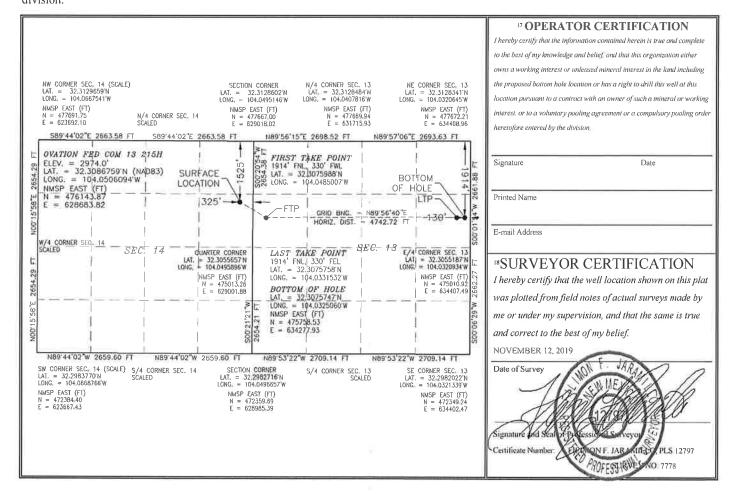
15 Order No.

V	λ/	Ŧ	T	I		T	\cap	C	Δ	Т	ľ	\cap	1	J.	Δ	N	П)	Δ	\boldsymbol{C}	٦,	21	₹.	Δ	Gl	F.	\mathbf{D}	ıΕ	T)I	\cap	A	Т	Ί	\cap	N	ľ	Ŋ	. Δ	Г١	Γ
٧	v.	1	71	71	-	L	U	\mathbf{c}	$^{\prime}$	ı	- 1	U	ur.	N A	٦	ъ	NI.	,	\neg	┖	/Γ	V.		٦.	U	ட்	L			"	v.	α	. 1	11	\mathcal{I}	יו	• 1	- 1	JE	λı	1

² Pool Code

14 Consolidation Code

4 Property (Code				5 Property	Name			6	Well Number
				(OVATION FE	D COM 13				215H
7 OGRID	No.				⁸ Operator	Name				⁹ Elevation
37292	0		NOV	O OIL &	GAS NORTH	ERN DELAWAI	RE, LLC			2974.0
					Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
Н	14	23 S	28 E		1525	NORTH	325	EA	ST	EDDY
			" E	ottom H	ole Location	If Different Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
Н	13	23 S	28 E		1914	NORTH	130	EA	ST	EDDY



<u>District I</u>
1625 N, French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>

8811 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

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1	API Number	1		² Pool Code			³ Pool Na	me						
1 Property	Code		1.31		5 Property l	Name			6 1	Well Number				
					OVATION FE	D COM 13				221H				
OGRID 7	No.				8 Operator	Name			⁹ Elevation					
37292	372920 NOVO OIL & GAS NORTHERN DELAWARE, LLC													
	□ Surface Location													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County				
A	14	23 S	28 E		550	NORTH	285	EA	ST	EDDY				
			uВ	ottom H	ole Location	If Different Fro	om Surface							
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/W										County				
A	13	23 S	28 E		726	NORTH	130	EA	ST	EDDY				
Dedicated Acre	Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.													

	17 OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete
	to the best of my knowledge and belief, and that this organization either
	owns a working interest or unleased mineral interest in the land including
NW CORNER SEC. 14 (SCALE) SECTION CORNER N/4 CORNER SEC. 13 NE CORNER SEC. 13	the proposed bottom hole location or has a right to drill this well at this
LAT. = 32,3129659'N LAT. = 32,3128602'N LAT. = 32,3128484'N LAT. = 32,3128645'W LONG. = 104,0467616'W LONG. = 104,0495146'W LONG. = 104,0407816'W LONG. =	location pursuant to a contract with an owner of such a mineral or working
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	interest, or to a voluntary pooling agreement or a compulsory pooling order
N = 477691.75 N/4 CORNER SEC. 14 N = 477667.00 N = 477699.94 N = 477672.21 E = 623692.10 SCALED E 629018.02 E = 631715.93 E = 634408.96	heretofore entered by the division
589'44'02"€ 2663.58 FT S89'44'02"€ 2663.58 FT N89'56'15"€ 2698.52 FT N89'57'06"€ 2693.63 FT	
E OVATION FED COM 13 221H OF HOLE OF	Signature Date
© ELEV. = 2993.0 (MADR3) CURRENCE 130 (MADR3)	Signature Date
EUCATION O	
μ N = 477118.46 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Printed Name
N = 477118.46	
5 726' FNL, 330' FWL LAT. = 32/3108636'N	E-mail Address
W/4 CORNER SEO. 14	
SEC: 14 QUARTER CONNER 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	*SURVEYOR CERTIFICATION
LONG: # 104.0495896W LAT = 32 3109407W LONG: = 104.0320934.W	I hereby certify that the well location shown on this plat
N = 475013.26 F = 629011 8B BOTTOM OF HOLE E = 634407.49 6	
	was plotted from field notes of actual surveys made by
07 NMSP EAST (FT) 08 N = 476946.26	me or under my supervision, and that the same is true
L LONG = 194,0324931 W F LONG = 194,032493	and correct to the best of my belief.
\[\frac{1}{\omega} \]	NOVEMBER 12, 2019
N89'44'02'W 2659.60 FT N89'44'02'W 2659.60 FT N89'53'22'W 2709.14 FT N89'53'22'W 2709.14 FT	Date of Survey
SW CORNER SEC. 14 (SCALE) S/4 CORNER SEC. 14 SECTION CORNER S/4 CORNER SEC. 13 SE CORNER SEC. 13 LAT. = 32.2982716'N SCALED LAT. = 32.298222'N SCALED LAT. = 32.29822'N SCALED LAT. = 32.2982'N SCALED LAT. = 32.2982'N SCALED LAT. = 32.2982'N SCALED LAT. = 32.2982'N SCALED LAT. = 32.2982'	Jacob Startoy
LONG. = 104.0668766'W LONG. = 104.0496657'W LONG. = 104.0321339'W NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	1/2/2000
N = 472384.40 N = 472359.69 N = 472349.24 E = 623667.43 E = 628985.39 E = 634402.47	ANINO CARRIO CON III
	A AKKAN YEY
	Signature and Seal of Professional Surveyor
	Certificate Number: CRU MICH. CHILLY, PLS 12797
	101 58 AP 25 NO. 7779

District 1
1625 N, French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District III
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

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

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

' A	API Number	7		² Pool Cod	e		³ Pool Na	me						
4 Property C	Code				5 Property	Name			6	Well Number				
					OVATION FE	D COM 13				222H				
OGRID N	OGRID No. Operator Name													
372920	372920 NOVO OIL & GAS NORTHERN DELAWARE, LLC													
	UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line													
UL or lot no.	Section	Township	East/We	est line	County									
Н	14	23 S	28 E		1525	NORTH	305	EAS	ST	EDDY				
			" B	ottom H	ole Location	If Different Fr	om Surface							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County				
H 13 23 S 28 E 1513 NORTH 130 E.									ST	EDDY				
12 Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	1 Code		,,,	15 Order No.							

	" OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the
	best of my knowledge und belief, and that this organization either owns a
	working interest or unleased mineral interest in the land including the proposed
NW CORNER SEC. 14 (SCALE) SECTION CORNER N/4 CORNER SEC. 13 NE CORNER SEC. 13 1AT = 32.3128694'N LAT = 32.3128484'N LAT = 32.3128484'N LAT = 32.3128484'N	bottom hole location or has a right to drill this well at this location pursuant to
LONG. = 104.0667541W LONG. = 104.0495146W LONG. = 104.0407816"W LONG. = 104.0320645"W	a contract with an owner of such a mineral or working interest, or to a
NMSP EAST (FT)	voluntary pooling agreement or a compulsory pooling order heretofore entered
E = 623692.10 SCALED E = 629018.02 E = 631715.93 E = 634408.96	by the division
589'44'02"E 2663.58 FT 589'44'02"E 2663.58 FT N89'56'15"E 2698.52 FT N89'57'06"E 2693.63 FT	
L OVATION FED COM 13 222H	Signature Date
ELEV. = 2974.0' LAT. = 32.3086755'N (NAD83) SURFACE LOCATION LOCATION DELTOM ST. LAT. = 32.3087008'N OF HOLE LOCATION DELTOM OF HOLE DELTOM DELTOM OF HOLE DELTOM DELT	Signature
LOCATION - 104.0505447W LOCATION - 104.040484894W LTP	
The same of the sa	Printed Name
8) E = 628703.82 305 FTP HORIZ DIST. = 4740.50 FT 130	
N = 476143.78 S E = 628703.82 S E = 628703.82 S E = 628703.82 S E = 628703.82	E-mail Address
7 000 200000000000000000000000000000000	E man / tearson
SCALED SEC. 14 CHASTER CORNER LAST TAKE POINT DEC. 13	GUDVEYOD GEDTIEIOATION
LAT, = 32,3055857N 1513' FNL, 330' FEL LAT = 32,3055187N LONG, 104,0495896W LAT = 32,3088779'N LONG = 104,0320934W	SURVEYOR CERTIFICATION
MMSP EAST (FT) LONG. = 104.0331488W NMSP EAST (FT) N = 475013.26 N = 475013.26 BOTTOM OF HOLE E = 634407.49 E	I hereby certify that the well location shown on this plat was
LAT, = 32:3086768'N	plotted from field notes of actual surveys made by me or under
₩	my supervision, and that the same is true and correct to the
5 N = 476159.44 Se	heat of my halief
7.005 7.005 8.005	best of my belief.
N89°44'02"W 2659.60 FT N89°44'02"W 2659.60 FT N89°53'22"W 2709.14 FT N89°53'22"W 2709.14 FT	NOVEMBER 12, 2019
N89'44'02'W 2659.60 FT N89'44'02'W 2659.60 FT N89'53'22'W 2709.14 FT N89'53'22'W 2709.14 FT SW CORNER SEC. 14 SECTION CORNER S/4 CORNER SEC. 13 SE CORNER SEC. 13	Date of Survey
LAT. = 32.2983/70'N SCALED LAT. = 32.2982/76'N SCALED LAT. = 32.2982/76'N LONG, = 104.0868766'W LONG, = 104.0968576'W LONG = 104.0321339'W	
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	1 X DO 1 THURSDY N
N = 472384.40′ N = 472359.69′ N = 472349.24′ E = 623667.43 E = 628985.39 E = 634402.47	
	Signature and Seal of Core sonal Surveyor
	Certificate Number: Professor SARRANTICAO, PLS 12797
	SURVEY NO. 7780
	1

District 1

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

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

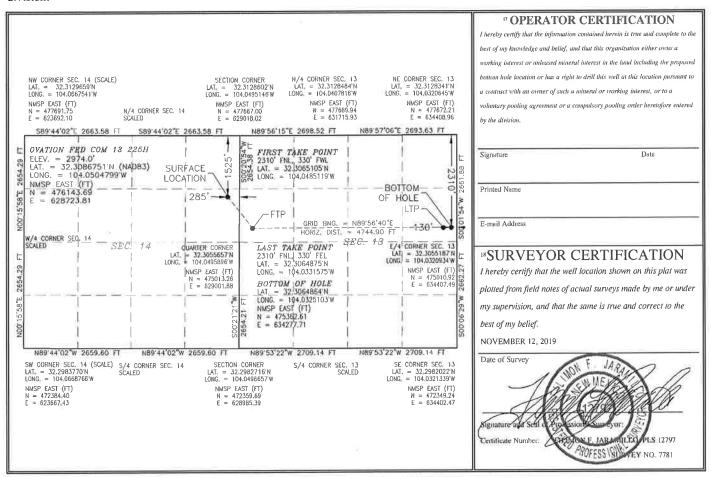
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PI	PLAT	ON.	TIC	CA	DEDI	BE I	REA	AC	ND	ΙA	ON	TI	CA	O.	LI	$^{\prime}\mathrm{EL}$	W
---	------	-----	-----	----	------	------	-----	----	----	----	----	----	----	----	----	------------------------	---

1 /	API Numbe	г		² Pool Code	9		³ Pool Na	ime				
4 Property (Code				5 Property	Name			6 /	Well Number		
					OVATION FE	D COM 13				225H		
7 OGRID I		⁹ Elevation										
37292		2974.0										
	■ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	Vest line County			
Н	14	23 S	28 E		1525	NORTH	285	EAS	ST	EDDY		
			" B	ottom He	ole Location	If Different Fr	om Surface					
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet							Feet from the	East/We	est line	County		
Н	13	23 S	28 E		2310	NORTH	130	EAS	ST	EDDY		
12 Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	1 Code			15 Order No.	A.				



District 1 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) 476-3467

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

e, NM 87505 5) 476-3462

Filone. (303) 470-3400	1.ax. (303) 470	-3402							
		,	WELL LC	CATIO!	N AND ACR	EAGE DEDIC	CATION PLA	AT.	
1	API Number	г		² Pool Cod	2		³ Pool Na	me	
4 Property	Code				⁵ Property I	Name			6 Well Number
110polo,				ov	ATION FED (
⁷ OGRID	No.				8 Operator 1	Name			⁹ Elevation
			NOV	O OIL &	GAS NORTH	ERN DELAWAI	RE, LLC		
					Surface I	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County
			" Bo	ttom Hol	e Location If	Different Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County
12 Dedicated Acres	Joint o	r Infill	¹⁴ Consolidation	Code 15 O	der No.				

Net COBNET SEC. 14 (SCALE)		
NW CORNER SEC. 14 (SCLE) LAT. = 32.31796.059 N LOK. = 102.060.159 N LOK. = 102.060.15		" OPERATOR CERTIFICATION
Ne CONUR SEC. 14 (COLE) IXI = 32.319693N LOR. = 104.06675+1W IXI = 32.319693N IXI =		I hereby certify that the information contained herein is true and complete to the
NW CORNER SEC. 14 (SCALE) LAT = 32.3128697N LOG. = 104.0669741W NASP EAST (FT) NAY CORNER SEC. 14 NASP EAST (FT) NAY CORNER SEC. 14 NASP EAST (FT) NAY CORNER SEC. 14 NASP EAST (FT)		best of my knowledge and belief, and that this organization either owns a
NV CORNER SEC. 14 (SCALE) SECTION CORNER SEC. 14 NUMBER ASST (F) NUMBER		working interest or unleased mineral interest in the land including the proposed
Lot. = 32.3126698 Lot. = 32.3126691 Lot. = 32.3126641 Lot.	NW CORNER SEC. 14 (SCALE) SECTION CORNER N/4 CORNER SEC. 13 NE CORNER SEC. 13	bottom hole location or has a right to drill this well at this location pursuant to
NNSP EAST (FT) N = 47791725 E = 63399210 NASP EAST (FT) NASP EAST	LAT. = 32,3129659'N LAT. = 32,3128602'N LAT. = 32,3128484'N LAT. = 32,3128341'N	a contract with an owner of such a mineral or working interest, or to a
SEQUENCE 266.5.58 FT S89'44'02'E 266.5.58 FT S89'54'02'E 266.5.58 FT S89'44'02'E 266.58 FT S89'4		voluntary pooling agreement or a compulsory pooling order heretofore entered
Control Cont	N = 47/663.73 N/4 CORNER SEC. 14 N = 47/667.00 N = 47/669.99 N = 47/669.99 E = 631715.93 E = 634408.96	by the division.
EEU 2993.0' 3665 104.0507113'W LOCATION 2		
EEU 2993.0' 3665 104.0507113'W LOCATION 2	FTP GRID BNG. = N89'56'41"E TP	Singahan
LONG. = 104.0507113W	G. ELEV. = 2993.0' 365' THORIZ. UIST. # 4733.96 FT	Signature
NASP EAST (FI) Nasp	DLONG = 104-0507113'W LOCATION -	
E = 628649.76 Control	NMSP EAST (FT)	Printed Name
CONSERT SEC. 14 CONSERT SEC. 15 CONSERT SEC. 14 CONSERT SEC. 15 CONSERT SEC. 14 CONSERT SEC. 15 CONSERT SEC. 16 CONSERT SEC. 16 CONSERT SEC. 17 CONSERT SEC. 17 CONSERT SEC. 18 CONSERT SEC. 18 CONSERT SEC. 18 CONSERT SEC. 19 CONSERT SE	9 E = 628649.76	
Comparison Com	LONG. = 104.0484560 W NMSP FAST (FT)	E-mail Address
SALED COLARTER CORNER LAT. = 32,3055657H LONG 104.0331380W LAT. = 32,3055657H LONG 104.04331380W LONG 104.0331380W LONG 104.04029934W LONG 104.04036657W L	LAST TARE FORM 27/970 04 IN	D MAIN TOURS
NMSP EAST (FT) NB9*53*22** 2709.14 FT NB	SOUTH 350 FM. 350 FM. 550 FM.	"CUDVEYOR CERTIFICATION
N89'44'02'W 2659.60 FT N89'44'02'W 2659.60 FT N89'53'22'W 2709.14 FT	10NG ± 104 0495996W 1	ll .
N89'44'02'W 2659.60 FT N89'44'02'W 2659.60 FT N89'53'22'W 2709.14 FT	NMSP EAST (FT) N = 475013.05	I hereby certify that the well location shown on this plat was
N89'44'02'W 2659.60 FT N89'44'02'W 2559.60 FT N89'53'22'W 2709.14 FT	E = 634407.49 E	plotted from field notes of actual surveys made by me or under
N89 44'02'W 2659.60 FT N89 44'02'W 2659.60 FT N89 53'22'W 2709.14 FT		my supervision, and that the same is true and correct to the
N89 44'02'W 2659.60 FT N89 44'02'W 2659.60 FT N89 53'22'W 2709.14 FT	15.5	hact of my haliaf
N89 44'02'W 2659.60 FT N89'44'02'W 2659.60 FT N89'53'22'W 2709.14 FT	500.00	best of my belief.
SW CORNER SEC. 14 (SCALE) 5/4 CORNER SEC. 14 LAT. = 32.2983770 N SCALED LAT. = 32.2983770 N SCALED LONG. = 104.098657 W LONG. = 104.09821339 W LONG. = 104.098657 W LONG. = 104.09821339 W LONG. = 104.09813339 W LONG.		
LAI. = 32.29827/2N SCALED LAI. = 32.29827/2PN SCALED LAI. = 32.29827/2PN LONG. = 104.098657W LONG. = 104.0		Date of Survey
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT) N = 472384.40 N = 472359.68 N = 472349.24 E = 623667.43 E = 628985.39 E = 634402.47	LAI. = 32.29837/UN SCALED LAT. = 32.2982022'N	Signature and Seal of Professional Surveyor:
N = 472384.40		
	N = 472384.40 $N = 472359.69$ $N = 472349.24$	
Certificate Number		
Certificate Number		
Certificate Number		
		Certificate Number

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

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12 Dedicated Acres

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

EAST

130

15 Order No.

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1	API Number	r		² Pool Code	2	³ Pool Name								
4 Property	Code				5 Property	Name			6 1	Well Number				
					OVATION FE	D COM 13				232H				
7OGRID	⁷ OGRID No. ⁸ Operator Name													
37292	372920 NOVO OIL & GAS NORTHERN DELAWARE, LLC													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County				
A	14	23 S 28 E 550 NORTH 265 EAS							ST	EDDY				
UL or lot no.	Section	Township	Range Lot 1dn Feet from		Feet from the	North/South line	Feet from the	East/W	est line	County				
۱ ۸	12	238	28 E		1254	NORTH	130	EA.	ST	EDDY				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

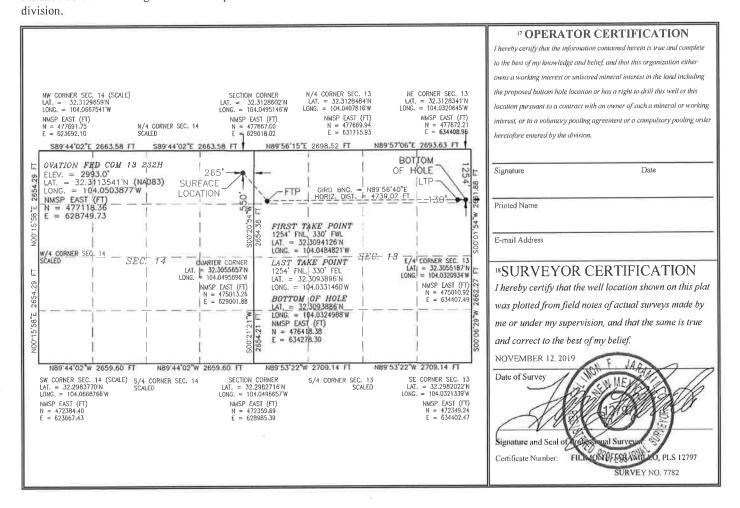
1254

28 E

14 Consolidation Code

13 Joint or Infill

NORTH



District 1 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 & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code	e	3 Pool Name								
⁴ Property Code		⁵ Property Name	⁶ Well Number								
		OVATION FED COM 13	235H								
OGRID No.		8 Operator Name	° Elevation								
372920	NOVO OIL &	GAS NORTHERN DELAWARE, LI	LC 2974.0								
	Surface Location										

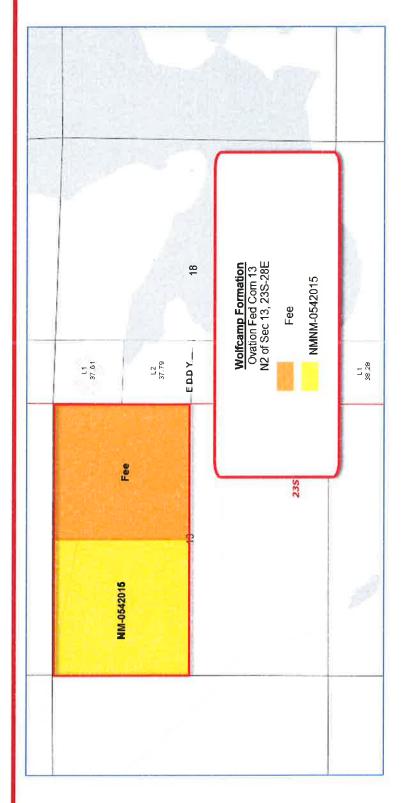
East/West line North/South line Feet from the County Lot Idu Feet from the UL or lot no. Section Township Range **EAST EDDY NORTH** 265 28 E 1525 H 23 S 14 "Bottom Hole Location If Different From Surface

UL or lot no.	Section 13	Township 23 S	Range 28 E	Lot Idn	Feet from the 2178	North/South line NORTH	Feet from the 130	East/West line EAST	County EDDY
12 Dedicated Acre	s ¹³ Joint	or Infill	Consolidatio	n Code			¹¹ Order No.		

	" OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the
	best of my knowledge and belief, and that this organization either owns a
	working interest or unleased mineral interest in the land including the proposed
NW CORNER SEC. 14 (SCALE) SECTION CORNER N/4 CORNER SEC. 13 NE CORNER SEC. 13	bottom hole location or has a right to drill this well at this location pursuant to
LAT, = 32,3128602'N LAT, = 32,3128602'N LAT, = 32,3128484'N LAT, = 32,3128484'N LAT, = 32,3128484'N LONG, = 104,0407816'W LONG, = 104,0407816'W LONG, = 104,0320645'W	a contract with an owner of such a mineral or working interest, or to a
NMSP EAST (FT)	voluntary pooling agreement or a compulsory pooling order heretofore entered
E = 623692_10 SCALED E = 629018.02 E = 631715.93 E = 634408.96	by the division.
S89'44'02"E 2863.58 FT S89'44'02"E 2663.58 FT N89'56'15"E 2698.52 FT N89'57'06"E 2693.63 FT	
L OVATION FED COM 13 235H	Signature Date
S ELEV. = 2974.0' (NAPRI) CHOCKET (S 80 2178' FNL 330' FWL	Signature .
10 LONG. = 104.0504152 W LOCATION TO 100 LONG. = 104.0485082 W	
W N = 476143.60 OF HOLE	Printed Name
FTP LIP 3	
GRID BNG. = N89'56'40"E HORIZ, DIST. = 4744.17 FT	E-mail Address
W/4 CORNER SEQ. 14 SEC. 13 SEC. 13	
SEC: 14 QUARTER CONNER LAST TAKE FOLINT LAST TAKE FOLINT LAI = 32,3055657 278 FEL LAI = 32,305567 17.	*SURVEYOR CERTIFICATION
LONG. = 104.0195896W LAT. = 32.3068503'N LONG. = 104.032034W	I hereby certify that the well location shown on this plat was
N = 475013.26 F = 629001.88 BOTTOM OF HOLE E = 634407.49	plotted from field notes of actual surveys made by the or under
NMSP EAST (FT) NMSP EAST (FT) N = 475494.58 S	my supervision, and that the same is true and correct to the
	best of my belief.
2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NOVEMBER 12, 2019
NB9'44'02'W 2659.60 FT NB9'44'02'W 2659.60 FT NB9'53'22'W 2709.14 FT NB9'53'22'W 2709.14 FT	Date of Survey
SW CORNER SEC. 14 (SCALE) S/4 CORNER SEC. 14 SECTION CORNER S/4 CORNER SEC. 13 SE CORNER SEC. 13 LAT. = 32.2983770'N SCALED LAT. = 32.2982022'N	Date of bullyey
LONG, = 104.0668766 W LONG, = 104.0496657 W LONG, = 104.0321339 W NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	1 NEW Y
N = 472394.40 N = 472395.69 N = 472349.24 E = 623667.43 E = 628985.39 E = 634402.47	
E = 02000/10	
	Signature and Spall of History Spall State State Spall
	Certificate Number: 17.1MeN F. JARAMIL OSPUS 12797
	PROFESSIONE NO. 7783
	37.00



Ovation Fed Com 13 Wells - Wolfcamp



Mark L. Shidler
Westhall Oil & Gas, LLC
TLW Investments, LLC
0.3125%

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. A7

Submitted by: Novo Oil & Gas Northern Delaware Hearing Date: November 14, 2019

Case # 20886 & 20887

Summary of Interest

Ovation Fed Com 13 Wells

N2 of Section 13, Township 23 South, Range 28 East Wolfcamp Formation 320.00-acre spacing

Interest
Working
Committed

Novo Oil & Gas Northern Delaware, LLC

87.18750%

87.18750%

12.81250%

Uncommitted Working Interest:

Mark L. Shilder Westhall Oil & Gas, LLC

TLW Investments, LLC*

o Interest subleased to Stryker Energy, LLC

6.25000% 6.25000% 0.31250% *****

Unleased Mineral Interest:

None

*Note: On June 1, 2019, in an unrecorded Memorandum of Oil & Gas Sublease, TLW Investments, LLC granted a sublease to Stryker Energy, LLC, covering the NE4 NW4 of Section 13, 23S-28E, Eddy County, NM, in Federal Lease NMNM-0542015, dated May 1, 1964.

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8 2	Ovation Fed Com 13 N2	N2		
Name	Street	City	State	Zip
Section 13 ORRI				
Don Paage Royalties	550 West Texas Ave, Suite 800	Midland	¥	79701
Robert H. Northington	15250 Prestonwood Blvd, 263	Dallas	ĭ	75248-4791
H. P. McLish	1520 W Canal Ct, Suite 250	Littleton	8	80120
Chase Hicks	111 Stoney Creek Lane	Terrell	ዾ	75160-5140

liki



Justin Carter Landman Novo Oii & Gas Northern Delaware, LLC 1001 W. Wilshire Blvd, Suite 206 Oklahoma City, Oklahoma 73116 Office: 405,286,3375 jcarter@novoog.com

August 30, 2019

SEE ATTACHED LIST OF WORKING INTEREST OWNERS

Re: Amended Ovation Fed Com 13 Wolfcamp Working Interest Unit

N/2 of Section 13, Township 23 South, Range 28 East

Eddy County, New Mexico 320-acre Working Interest Unit

Proposed Wells

Ovation Fed Com 13 211H Ovation Fed Com 13 212H Ovation Fed Com 13 215H

Ovation Fed Com 13 221H Ovation Fed Com 13 222H Ovation Fed Com 13 225H

Ovation Fed Com 13 231H Ovation Fed Com 13 232H Ovation Fed Com 13 235H

Ladies and Gentlemen:

Novo Oil & Gas Northern Delaware, LLC ("Novo") as Operator hereby proposes the drilling of the following nine (9) horizontal Ovation Fed Com 13 wells, located in the N/2 of Section 13, Township 23 South, Range 28 East, Eddy County, New Mexico, to the Wolfcamp formation, as more particularly set forth below.

The estimated cost of drilling, testing, completing, and equipping of each Well is itemized on the enclosed Authority for Expenditures ("AFE") dated August 29, 2019.

Proposed Wells - Ovation Fed Com 13 211H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 330' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East Last take point: 330' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to

Case # 20886 & 20887

an approximate true vertical depth (TVD) of 9,685' feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have measured depth (MD) of approximately 14,685' feet.

Proposed Well - Ovation Fed Com 13 212H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 1,122' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East

Last take point: 1,122' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,690' feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have measured depth (MD) of approximately 14,690' feet.

Proposed Well - Ovation Fed Com 13 215H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 1,914' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East

Last take point: 1,914' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,695' feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have measured depth (MD) of approximately 14,695' feet.

Proposed Well - Ovation Fed Com 13 221H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 726' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East

Last take point: 726' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,895' feet subsurface to evaluate the Wolfcamp A formation. The proposed well will have measured depth (MD) of approximately 14,895' feet.

Proposed Well - Ovation Fed Com 13 222H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 1,513' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East

Last take point: 1,513' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,905' feet subsurface to evaluate the Wolfcamp A formation. The proposed well will have measured depth (MD) of approximately 14,905' feet.

Proposed Well - Ovation Fed Com 13 225H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 2,310' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East

Last take point: 2,310' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 9,910' feet subsurface to evaluate the Wolfcamp A formation.

The proposed well will have measured depth (MD) of approximately 14,910' feet.

Proposed Well - Ovation Fed Com 13 231H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 330' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East Last take point: 330' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,545' feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have measured depth (MD) of approximately 15,545' feet.

Proposed Well - Ovation Fed Com 13 232H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East

First take point: 1,254' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East Last take point: 1,254' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East

BHL: NE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,555' feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have measured depth (MD) of approximately 15,555' feet.

Proposed Well - Ovation Fed Com 13 235H

SHL: NE/4 of Section 14, Township 23 South, Range 28 East
First take point: 2,178' FNL, 330' FWL of Section 13, Township 23 South, Range 28 East
Last take point: 2,178' FNL, 330' FEL of Section 13, Township 23 South, Range 28 East
BHL: SE/4NE/4 of Section 13, Township 23 South, Range 28 East

The N/2 of Section 13 will be dedicated to the well as its 320-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,565' feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have measured depth (MD) of approximately 15,565' feet.

Regarding the above, enclosed for your handling is a copy of the AFEs. In the event you elect to participate in the proposed well, please execute the enclosed AFEs and return to the attention of the undersigned within thirty (30) days from receipt of this letter. Novo will provide a copy of its proposed Operating Agreement upon request. Should you have any questions regarding the above, please call me at (405) 286.3375 or if by email, my email address is icarter@novoog.com.

Sincerely,

Novo Qil & Gas Northern Delaware, LLC

Landman

Not to participate in the Ovation Fed Com 13 211H.
Participate in the Ovation Fed Com 13 211H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 212H.
Participate in the Ovation Fed Com 13 212H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 215H.
Participate in the Ovation Fed Com 13 215H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 221H.
Participate in the Ovation Fed Com 13 221H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 222H.
Participate in the Ovation Fed Com 13 222H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 225H.
Participate in the Ovation Fed Com 13 225H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 231H.
Participate in the Ovation Fed Com 13 231H for its Proportionate share of costs.
Not to participate in the Ovation Fed Com 13 232H.
Participate in the Ovation Fed Com 13 232H for its Proportionate share of costs
Not to participate in the Ovation Fed Com 13 235H.
Participate in the Ovation Fed Com 13 235H for its Proportionate share of costs

Printed Name:	
Title:	
Date:	
Contact Number:	

Ovation Fed Com 13 Fed Com Wells N2 of Section 13-23S-28E

Respondents/Working Interest Owners

Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd. Suite 206 Oklahoma City, OK 73116

Mark L. Shidler 1313 Campbell Rd, Bldg D Houston, TX 77005

Westhall Oil & Gas, LLC P.O. Box 4 Loco Hills, NM 88255

TLW Investments, LLC 1001 Fannin, Suite 2020 Houston, TX 77002



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Wishire, Suite 206
Oklahoma City, Oklahoma 73110
403-280-4391

VELL N	NAME AL LOCATION	Ovation Fed Corn 13 211H T23S, R28E, Sec 13 - T23S, R28E, Sec 13	AFE TYPE FIELD	Northern Delaware	AFE NUMBER DRILLING DAYS	2015171
	CE LOCATION	T23S, R28E, Sec 13 - 123S, R28E, Sec 13	FORMATION		DEPTH (TVD/TMD)	9,685' / 14,685'
	M-HOLE LOCATION	T23S, R28E, Sec 13 NE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
	CT DESCRIPTION	Orilling, completion, facilities and pipeline costs				100000000000000000000000000000000000000
		THE PARTY OF THE P				
CCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
ODE	OLIO CONTRACTOR	INTANGIBLE COSTS		DRILLING (300) \$ 50,000	COMPLETION (500)	\$ 50,0
01	SURVEY/PERMITS/DA	MAGES/LEGAL		150,000		150,0
02	LOCATION & ROAD			The second second	(+1	150,0
03	RIG MOVE			150,000		50,0
04	DRILLING - FOOTAGE	,		810,000		810,0
06	COMPLETION/WORK			010,000	60,000	60.0
07	COIL TUBING/SNUBBI	CHINE STANDARD			120,000	120,0
08	SLICKLINE/SWABBING				120,000	120,0
00	BITS			150,000	5,000	155,0
10	DIRECTIONAL SERVICE	ES		264,000		264.0
11	CASING CREW	10		100,000		100,0
12	TOOL & EQUIPMENT F	RENTAL		50,000		130,0
13	FUEL & POWER	THE STATE OF THE S		192,000		367,0
14	DIESEL - BASE FOR M	IID		100,000		100,0
15	MUD LOGGING & GEO			24,000		24,0
16	DISPOSAL, RESTORA			150,000		150,0
17	TRUCKING	TOTAL OF TOTAL		120,000	A STATE OF THE PARTY OF THE PAR	160.0
18	TESTING			12.000		137.573
19	CEMENTING			200,000		200,0
20	PERFORATING				180,000	180,0
21	CASED HOLE LOGS				100,000	
22	DOWNHOLE TOOLS &	SERVICE			42,000	42,0
23	OTHER STIMULATION	SERVICE			7727	73010
24	FORMATION STIMULA	TION			1,610,000	1,610,0
25	CONSULTING SERVIC				20,000	20,0
26	SUPERVISION	23		110,000		190,0
27	CONTRACT LABOR			5,000		25,0
28	OTHER LABOR				100,000	100,0
29	COMPANY CONSULTI	NG/SUPV			100,000	1970
30	WATER	100011		50,000	300,000	350,0
31	FLUIDS & CHEMICALS			200,000		200,0
32	CORING & ANALYSIS			200,000	1	
33	COMMUNICATIONS			10,000	10,000	20,0
34	BOP TESTING			20,000		30,0
36	FISHING TOOLS & SEI	OVICES		20,000	10,000	
37	INSPECTIONS	WICE		10,000	5,000	15,0
38	WIRELINE SERVICES			10,000	0,400	10,0
39	ENGINEERING & GEO	OCY FIELD				
40	ENGINEERING & GEO			13,000	7	13,0
41		LOGI - OFFICE		13,000		1010
42	MULTISHOT & GYRO					
	RE-ENTRY SERVICES			15,000	15,000	30.0
43	CAMPS & TRAILERS	s une		10,000		15.0
44	SAFETY EQUIPMENT	ean a		10,000	0,000	180
46	INSURANCE			10,000	2,000	12,0
				10,000		20,0
47	MISCELLANEOUS			10,000	10,000	20,0
49	SIM-OPS TOTAL INTANGIBLE C	OSTS		\$ 3,023,000	\$ 2,889,000	\$ 5,912,0
_	TOTAL INTANGIBLE C	TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
01	CACINIO CONDUCTO			\$ 10,000		\$ 10,0
01	CASING - CONDUCTO	n.		20,000	+	20.0
	CASING - SURFACE CASING - INTERMEDIA	TE		330,000		330,0
03	A PERSONAL PROPERTY AND ADDRESS OF THE PARTY A	2503 (5) 4		330,000		000,0
04	CASING - INTERMEDIA CASING - PRODUCTION			380,000	4	380,0
	A STATE OF THE PARTY OF THE PAR			50,000	California and California	75,0
06	SUBSURFACE EQUIP			50,000		200
07	PRODUCTION TUBING			+	55,000	50,0
80	SUBSURFACE PUMPI			60,000	10,000	70.0
09	WELLHEAD EQUIPME	MA .		60,000	100,000	
10	FLOWLINES	OURDIENT			100,000	100,0
11	SURFACE PUMPING E					
12	LINER HANGER & ASS	OU EGOIF			200,000	200,0
13	VALVES & FITTINGS			+	200,000	200,0
15	RODS			40,000	2,000	42,0
17	TRUCKING	T .		40,000	2,000	42,1
20	RE-ENTRY EQUIPMEN				500,000	500,0
34	PRODUCTION EQUIPM	NEW!		10,000		20,0
47	MISCELLANEOUS	NUCLTICALS		10,000	10,000	20,0
49	TANGIBLE EQUIP-ACC			\$ 900,000	\$ 902,000	\$ 1,802,0
_	TOTAL INTANGIBLE C	0010		900,000	902,000	1,002,0
	TOTAL ESTIMATED	WELL COST		\$ 3,923,000	\$ 3,791,000	\$ 7,714,0
_						
EDA	pen gy	Agent Calllay / /3		Region Concession - Beating	DATE	8/20/2010
REPA	RED BY:	Asron Cattley		Eenior Operations Engineer	DATE:	8/29/2019

OPERATOR APPROVAL: OPERATOR APPROVAL:	ASE ME	VP - Operations	DATE: 8/29/2019 DATE: 2 2 1/19
PARTNER COMPANY NAME:			
PARTNER APPROVAL:			DATE:
TITLE:			



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Winklins, Suite 206
Disaboma (Pty, Oktahom 73118
405-286-4391)

WELL NAME	Ovation Fed Com 13 212H	AFE TYPE	Development	AFE NUMBER	2015172
LATERAL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	25
SURFACE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp XY	DEPTH (TVD/TMD)	9,690' / 14,690'
BOTTOM-HOLE LOCATION	T238, R28E, Sec 13 NE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
		and the second second			

		Drilling, completion, facilities and pipeline costs for 4.				
ACCT.		DESCRIPTION OF EXPENDITURE	00011000000	COST ESTIMATE	_	
CODE	DUD SUBSTITUTE OF A	INTANGIBLE COSTS	DRILLING (300)	COMPLETION (500)		50,000
01	SURVEY/PERMITS/DA	MAGES/LEGAL	\$ 50,000 150,000		5	150,000
03	RIG MOVE		150,000			150,000
04	DRILLING - FOOTAGE		50,000			50,000
05	DRILLING - DAYWORK	/	810.000		-	810,000
08	COMPLETION/WORK		010,000	60,000		80,000
07	COIL TUBING/SNUBBI			120,000		120,000
08	SLICKLINE/SWABBING			-		0
09	BITS		150,000	5,000	-	155,000
10	DIRECTIONAL SERVICE	ES	264,000			264,000
11	CASING CREW		100,000			100,000
12	TOOL & EQUIPMENT	RENTAL	50,000	80,000		130,000
13	FUEL & POWER		192,000	175,000		387,000
14	DIESEL - BASE FOR M	IUD	100,000			100,000
15	MUD LOGGING & GEO		24,000			24,000
16	DISPOSAL, RESTORA		150,000			150,000
17	TRUCKING		120,000	40,000		180,000
18	TESTING					0
19	CEMENTING		200,000			200,000
20	PERFORATING			180,000		180,000
21	CASED HOLE LOGS					0
22	DOWNHOLE TOOLS 8	SERVICE		42,000		42.000
23	OTHER STIMULATION					0
24	FORMATION STIMULA			1,810,000		1,610,000
25	CONSULTING SERVICE			20,000		20.000
26	SUPERVISION		110,000	80,000		190,000
27	CONTRACT LABOR		8,000	20,000		25,000
28	OTHER LABOR			100,000		100,000
29	COMPANY CONSULTI	NG/SUPV				0
30	WATER		50,000	300,000		350,000
31	FLUIDS & CHEMICALS		200,000			200,000
32	CORING & ANALYSIS					0
33	COMMUNICATIONS		10,000	10,000		20,000
34	BOP TESTING		20,000	10,000		30,000
38	FISHING TOOLS & SE	RVICES				0
37	INSPECTIONS		10,000	5,000		15,000
38	WIRELINE SERVICES					0
39	ENGINEERING & GEO	LOGY - FIELD				0
40	ENGINEERING & GEO		13,000			13,000
41	MULTISHOT & GYRO					0
42	RE-ENTRY SERVICES					0
43	CAMPS & TRAILERS		15,000	15,000		30,000
44	SAFETY EQUIPMENT	& H2S	10,000	5,000		15,000
45	CONTINGENCY	-//				0
45	INSURANCE		10,000	2,000	-	12,000
47	MISCELLANEOUS		10,000	10,000		20,000
49	SIM-OPS					D
	TOTAL INTANGIBLE	OSTS	\$ 3,023,000	\$ 2,889,000	\$	5,912,000
		TANGIBLE COSTS	DRILLING (400)	COMPLETION (600)		TOTAL
01	CASING - CONDUCTO	R	\$ 10,000		3	10,000
02	CASING - SURFACE		20,000			20,000
03	CASING - INTERMEDIA		330,000			330,000
04	CASING - INTERMEDI	ATE 2				0
06	CASING - PRODUCTIO		380,000			380,000
80	SUBSURFACE EQUIP	MENT	60,000	25,000		75,000
07	PRODUCTION TUBING			55,000		55,000
08	SUBSURFACE PUMPI	NG EQUIPMENT				0
09	WELLHEAD EQUIPME	NT-	80,000	10,000		70,000
10	FLOWLINES .			100,000		100,000
11	SURFACE PUMPING B					0
12	LINER HANGER & ASS	SOC EQUIP				0
13	VALVES & FITTINGS			200,000		200,000
15	RODS					0
17	TRUCKING		40,000	2,000		42,000
20	RE-ENTRY EQUIPMEN	JT				0
34	PRODUCTION EQUIP	MENT		500,000		500,000
47	MISCELLANEOUS		10,000	10,000		20,000
49	TANGIBLE EQUIP-ACC			1.00.0		0
	TOTAL INTANGIBLE C	O5T8	\$ 900,000	\$ 902,000	\$	1,802,000
	TOTAL COTALL	WELL COST	* 2000.000	2 0 Was non		7744 000
	TOTAL ESTIMATED	WELL CODI	\$ 3,923,000	\$ 3,791,000	3	7,714,000

PREPARED BY:	Agron Cattley	Benier Operations Engineer	DATE:	8/20/2019
OPERATOR APPROVAL:	all .	VP - Operations	DATE;	
OPERATOR APPROVAL:	- Alfr	CFO	DATE:	8/20/2019
PARTNER COMPANY NAME:				
PARTNER APPROVAL:			DATE:	
TITLE.				



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 Weet Wilshire, Suita 206 Obsterna City, Olabona 73116 405-204-319

WELL NAME	Ovation Fed Corn 13 215H	AFE TYPE	Development	AFE NUMBER	2015173
LATERAL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	PIELD	Northern Delaware	DRILLING DAYS	25
SURFACE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp XY	DEPTH (TVD/TMD)	9,695' / 14,695'
BOTTOM-HOLE LOCATION	T23S, R28E, Sec 13 SE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
PROJECT DESCRIPTION	Drilling completion facilities and pipeline costs	or 4 620' horizontal	well	1100	

ACCT.	DESCRIPTION OF EXPENDITURE		COST ESTIMATE	
CODE		DRILLING (300)	COMPLETION (500)	
01	SURVEY/PERMITS/DAMAGES/LEGAL	\$ 80,000	COMPLETION (SOU)	\$ 50,00
02	LOCATION & ROAD	150.000		150,00
03	RIG MOVE	180,000		150,00
04	DRILLING - FOOTAGE	60,000		50,00
05	DRILLING - DAYWORK	810,000		810,00
06	COMPLETION/WORKOVER RIG		60,000	60,00
07	COIL TUBING/SNUBBING UNIT		120,000	120,00
08	SLICKLINE/SWABBING			
09	BITS	150,000	5,000	155,00
10	DIRECTIONAL SERVICES	264,000		264,00
11	CASING CREW	100,000		100,00
12	TOOL & EQUIPMENT RENTAL	80,000	80,000	130,00
13	FUEL & POWER	192,000	175,000	367,00
14	DIESEL - BASE FOR MUD	100,000		100,00
15	MUD LOGGING & GEOLOGIST	24,000		24,00
16	DISPOSAL, RESTORATION & BACKFILL	150,000		150,00
17	TRUCKING	120,000	40,000	160,00
18	TESTING			
19	CEMENTING	200,000		200,00
20	PERFORATING		180,000	180,000
21	CASED HOLE LOGS			150,00
22	DOWNHOLE TOOLS & SERVICE		42,000	42,00
23	OTHER STIMULATION			12,00
24	FORMATION STIMULATION		1,610,000	1,810,00
25	CONSULTING SERVICES		20,000	20,00
26	SUPERVISION	110,000	80,000	190,00
27	CONTRACT LABOR	5,000	20,000	25,00
28	OTHER LABOR		100,000	100,00
29	COMPANY CONSULTING/SUPV		100,000	750,00
30	WATER	80,000	300,000	350,00
31	FLUIDS & CHEMICALS	200,000	000,000	200,000
32	CORING & ANALYSIS	244,000		200,000
33	COMMUNICATIONS	10,000	10,000	20,000
34	BOP TESTING	20,000	10,000	30,000
36	FISHING TOOLS & SERVICES	20,000	10,000	55,000
37	INSPECTIONS	10.000	5,000	15,000
38	WIRELINE SERVICES	70,000	0,000	15,000
39	ENGINEERING & GEOLOGY - FIELD			
40	ENGINEERING & GEOLOGY - OFFICE	13,000		
41	MULTISHOT & GYRO	13,000		13,000
42	RE-ENTRY SERVICES			
43	CAMPS & TRAILERS	15,000	15,000	
44	SAFETY EQUIPMENT & H2S			30,000
45	CONTINGENCY	10,000	5,000	15,000
46	INSURANCE	10,000	0.000	12,000
	MISCELLANEOUS		2,000	
47		10,000	10,000	20,000
49	SIM-OPS TOTAL INTANGIBLE COSTS	\$ 3,023,000	\$ 2,889,000	\$ 5,912,000
_	TANGIBLE COSTS			
01	CASING - CONDUCTOR	DRILLING (400)	COMPLETION (600)	TOTAL
02	CASING - SURFACE	\$ 10,000		\$ 10,000
	CASING - INTERMEDIATE	20,000		20,000
03	CASING - INTERMEDIATE 2	330,000		330,000
05		460.000		200.000
06	CASING - PRODUCTION / LINER	380,000	00.444	380,000
07	SUBSURFACE EQUIPMENT PRODUCTION TUBING	50,000	25,000	75,000
08			55,000	65,000
09	SUBSURFACE PUMPING EQUIPMENT WELLHEAD EQUIPMENT			70.000
10	FLOWLINES	80,000	10,000	70,000
11			100,000	100,000
	SURFACE PUMPING EQUIPMENT			
12	LINER HANGER & ASSOC EQUIP		444 111	
13	VALVES & FITTINGS		200,000	200,000
15	RODS			
17	TRUCKING	40,000	2,000	42,000
20	RE-ENTRY EQUIPMENT			
34	PRODUCTION EQUIPMENT		500,000	500,000
47	MISCELLANEOUS	10,000	10,000	20,000
	TANGIBLE EQUIP-ACQUISITIONS			
49				
49	TOTAL INTANGIBLE COSTS	\$ 900,000	\$ 902,000	\$ 1,802,000
49	TOTAL INTANGIBLE COSTS TOTAL ESTIMATED WELL COST	\$ 900,000	\$ 3,791,000	\$ 1,802,000 \$ 7,714,000

PREPARED BY:	Anron Cattley	Senior Operations Engineer	DATE:	8/29/2019
OPERATOR APPROVAL:	A SAMO	VP - Operations	DATE:	8/29/2019
OPERATOR APPROVAL:	- 114	CEO CEO	DATE:	8/20/2019
PARTNER COMPANY NAME:				
PARTNER APPROVAL:			DATE:	
TITLE:				



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Vylladirs, Bulle 200

WELL	NOVO	Ovation Fed Com 13 221H	AFE TYPE	Davelopment	AFE NUMBER	2015174
	AL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	25
	CE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp A	DEPTH (TVD/TMD)	9,895' / 14,895'
ОТТО	M-HOLE LOCATION	T23S, R28E, Sec 13 NE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
PROJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs	for 4,620' horizontal	well.	SHOWING THE SHOWING	
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
01	SURVEY/PERMITS/DAI			\$ 50,000	COM EL HON (GOO)	\$ 60,000
02	LOCATION & ROAD			150,000		150,000
03	RIG MOVE			150,000		150,000
04	DRILLING - FOOTAGE			50,000		50,000
06	DRILLING - DAYWORK			810,000		810,000
06	COMPLETION/WORKO				80,000	60,000
07	COIL TUBING/SNUBBIN				120,000	120,000
80	SLICKLINE/SWABBING			150.000		
08	BITS			150,000	5,000	155,000
10	DIRECTIONAL SERVIC	E8		284,000		264,000
11	CASING CREW TOOL & EQUIPMENT R	CNTAL		100,000	80,000	100,000
13	FUEL & POWER	ENTAL		192,000	175,000	130,000
14	DIESEL - BASE FOR M	UD.		100,000	170,000	100,000
15	MUD LOGGING & GEO			24,000		24,000
16	DISPOSAL RESTORAT			150,000		150,000
17	TRUCKING	The state of the s		120,000	40,000	160,000
18	TESTING					0
19	CEMENTING			200,000		200,000
20	PERFORATING				180,000	180,000
21	CASED HOLE LOGS					0
22	DOWNHOLE TOOLS &	SERVICE			42,000	42,000
23	OTHER STIMULATION	MI MA A I				0
24	FORMATION STIMULA				1,810,000	1,810,000
25	CONSULTING SERVICE SUPERVISION	13		110,000	20,000	20,000
27	CONTRACT LABOR			5,000	20,000	190,000
28	OTHER LABOR			0,000	100,000	100,000
29	COMPANY CONSULTIN	IG/SUPV			100,000	0
30	WATER			50,000	300,000	350,000
31	FLUIDS & CHEMICALS			200,000		200,000
32	CORING & ANALYSIS					0
33	COMMUNICATIONS			10,000	10,000	20,000
34	BOP TESTING	OMAN AND AND AND AND AND AND AND AND AND A		20,000	10,000	30,000
36	FISHING TOOLS & SEF	RVICES				0
37	INSPECTIONS			10,000	5,000	15,000
38	WIRELINE SERVICES	OOV FIELD				0
40	ENGINEERING & GEOL ENGINEERING & GEOL			13,000		13,000
41	MULTISHOT & GYRO	300110111012		10,000		0
42	RE-ENTRY SERVICES					0
43	CAMPS & TRAILERS			15,000	15,000	30,000
44	SAFETY EQUIPMENT	H25		10,000	5,000	15,000
45	CONTINGENCY					0
48	INSURANCE			10,000	2,000	12,000
47	MISCELLANEOUS			10,000	10,000	20,000
49	SIM-OPS	ORTA .		\$ 3,023,000	\$ 2,889,000	0
	TOTAL INTANGIBLE C					\$ 5,912,000
01	CASING - CONDUCTOR	TANGIBLE COSTS		DRILLING (400) \$ 10,000	COMPLETION (600)	TOTAL \$ 10,000
02	CASING - CONDUCTOR			20,000		20,000
03	CASING - INTERMEDIA	TE		330,000		330,000
04	CASING - INTERMEDIA			000,000		330,000
05	CASING - PRODUCTIO			380,000		380,000
08	SUBSURFACE EQUIPM			50,000	25,000	75,000
07	PRODUCTION TUBING				55,000	55,000
08	SUBSURFACE PUMPIN	IG EQUIPMENT				0
	WELLHEAD EQUIPMEN	NT .		60,000	10,000	70,000
	FLOWLINES				100,000	100,000
11_	SURFACE PUMPING E					0
12	LINER HANGER & ASS	OC EQUIP			DAD 544	0
13	VALVES & FITTINGS				200,000	200,000
15	RODS TRUCKING			40,000	2,000	42,000
17	RE-ENTRY EQUIPMEN	T		40,000	2,000	42,000
34	PRODUCTION EQUIPMEN				500,000	500,000
~4	MISCELLANEOUS			10,000	10,000	20,000
47						
47		UISITIONS				0
47 49	TANGIBLE EQUIP-ACQ			\$ 900,000	\$ 902,000	at the same of the

PREPARED BY:	Aaron Cattley	Servior Operations Engineer	DATE: 8/29/2	1019
OPERATOR APPROVAL:	ALL DE	7 . VP - Operations	DATE:8/29	2019
OPERATOR APPROVAL:	-		DATE: 2	12019
PARTNER COMPANY NAME				
PARTNER APPROVAL:	0		DATE:	
TITLE:				

3,923,000 \$

3,791,000 \$

7,714,000

TOTAL ESTIMATED WELL COST



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Winkins, Suits 206
Obsences (Cdp.) Obsences 23116
405-296-4391

SURFACE LOCATION T23S, R29E, Sec 14 NE/4 FORMATION Wolfcamp A DEPTH (TVD/TMD) 9.	
	DEPTH (TVD/TMD) 9,905' / 14,905'
BOTTOM-HOLE LOCATION T23S, R28E, Sec 13 SE/4 NE/4 COUNTY Eddy County STATE Ne	
	STATE New Mexico
PROJECT DESCRIPTION Drilling, completion, facilities and pipeline costs for 4,620' horizental well.	

ACCT.	DESCRIPTION OF EXPENDITURE		COST ESTIMATE	-	
CODE	INTANGIBLE COSTS	DRILLING (300)	COMPLETION (500)		E0 000
01	SURVEY/PERMITS/DAMAGES/LEGAL	\$ 50,000 150,000		\$	150,000
02	LOCATION & ROAD	150,000		_	150,000
03	IRIG MOVE IDRILLING - FOOTAGE	50.000			50,000
05	DRILLING - DAYWORK	810,000			810,000
08	COMPLETION/VORKOVER RIG	010,000	60,000		60,000
07	COIL TUBING/SNUBBING UNIT		120,000		120,000
08	SLICKLINE/SWABBING		740,840		
00	BITS	150,000	5,000		155,000
10	DIRECTIONAL SERVICES	284,000			264,000
11	CASING CREW	100,000		_	100,000
12	TOOL & EQUIPMENT RENTAL	50,000			130,000
13	FUEL & POWER	192,000			367,000
14	DIESEL - BASE FOR MUD	100,000			100,000
15	MUD LOGGING & GEOLOGIST	24,000			24,000
16	DISPOSAL, RESTORATION & BACKFILL	150,000			150,000
17	TRUCKING	120,000	40,000		160,000
18	TESTING				0
19	CEMENTING	200,000			200,000
20	PERFORATING		160,000		180,000
21	CASED HOLE LOGS				0
22	DOWNHOLE TOOLS & SERVICE		42,000		42,000
23	OTHER STIMULATION				0
24	FORMATION STIMULATION		1,610,000		1,610,000
25	CONSULTING SERVICES		20,000		20,000
26	SUPERVISION	110,000	80,000		190,000
27	CONTRACT LABOR	5,000	20,000		25,000
28	OTHER LABOR		100,000		100,000
29	COMPANY CONSULTING/BUPV				0
30	WATER	50,000	300,000		350,000
31	FLUIDS & CHEMICALS	200,00			200,000
32	CORING & ANALYSIS				
33	COMMUNICATIONS	10,000			20,000
34	BOP TESTING	20,000	10,000		30,000
36	FISHING TOOLS & SERVICES				0
37	INSPECTIONS	10,000	5,000		15,000
38	WIRELINE SERVICES				. 0
39	ENGINEERING & GEOLOGY - FIELD			_	0
40	ENGINEERING & GEOLOGY - OFFICE	13,000			13,000
41	MULTISHOT & GYRO				0
42	RE-ENTRY SERVICES				
43	CAMPS & TRAILERS	15,000		_	30,000
44	SAFETY EQUIPMENT & H2S	10,000	5,000	_	15,000
45	CONTINGENCY	10 80			10.000
46	INSURANCE	10,000		_	12,000
47	MISCELLANEOUS	10,000	10,000	_	20,000
49	SIM-OPS	\$ 3,023,000	\$ 2,889,000	5	5,912,000
	TOTAL INTANGIBLE COSTS			-	
0.1	TANGIBLE COSTS	DRILLING (400)	COMPLETION (600)		10,000
01	CASING - CONDUCTOR	\$ 10,000		\$	
02	CASING - SURFACE CASING - INTERMEDIATE	20,000		_	20,000
		330,000			330,000
04	CASING - INTERMEDIATE 2 CASING - PRODUCTION / LINER	380,000			380,000
05	SUBSURFACE EQUIPMENT	50,000			75,000
06	PRODUCTION TUBING	50,000	85,000		55,000
07	SUBSURFACE PUMPING EQUIPMENT		85,000		86,000
09	WELLHEAD EQUIPMENT	60,00	10,000		70,000
10	FLOWLINES	60,00	100,000		100,000
11	SURFACE PUMPING EQUIPMENT		100,000		100,000
12	LINER HANGER & ASSOC EQUIP				0
13	VALVES & FITTINGS		200,000		200,000
15	RODS		200,000		200,000
17	TRUCKING	40,000	2,000		42,000
20	RE-ENTRY EQUIPMENT	40,000	2,000		42,000
34	PRODUCTION EQUIPMENT		500,000		500,000
47	MISCELLANEOUS	10,000			20,000
	TANGIBLE EQUIP-ACQUISITIONS	10,000	10,000		20,000
		200.000	902.000	5	1,802,000
	TOTAL INTANGIBLE COSTS TOTAL ESTIMATED WELL COST	\$ 900,000 \$ 3,923,000		5	7,714,000

PREPARED BY:	Allion Cathoy	Denter Operations Engineer	DATE: 0/29/2019
OPERATOR APPROVAL;	- ASS 111	VP - Operations	DATE: 8/29/2019
OPERATOR APPROVAL;	- 44	- enources	DATE: 8/29/2019
			10 -07
PARTNER COMPANY NAME:			
PARTNER APPROVAL:			DATE:
TITLE:			



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Washier, Busie 200 Olishems (Op. Oklahom 73116 405-204-4391

WELL NAME	Ovation Fed Com 13 225H	AFE TYPE	Development	AFE NUMBER	2015176
LATERAL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	25
SURFACE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp A	DEPTH (TVD/TMD)	9,910' / 14,910'
SOTTOM-HOLE LOCATION	T23S, R28E, Sec 13 SE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
PO JECT DESCRIPTION	Drilling completion facilities and pipeline costs	for 4 620' horizontal	wnll		

SURVEYPERMITS/DAMAGESEAGAL \$ 50,000 150,	ACCT.	DESCRIPTION OF EXPENDITURE		COST ESTIMATE		
SINTERPREMENTATIONAMORES/LEGAL \$ 8,0000 15			DRILLING (300)			
COLORION & ROAD 150,000 150,00					8	50,000
19 MILLING - FOOTAGE						150,000
ODDITIONS - FOOTAGE						150,000
1000 1000						50,000
00 00 00 00 00 00 00 0						810,000
120.000 120.				80,000		80,000
SECREMENSAMEN 18,000 15,000 16,				120,000		120,000
10 DIRECTIONIAL SERVICES 284,000 286,000 10 10 10 10 10 10 10						
10 DIRECTIONIAL SERVICES 228,000 28 100,000 101 100,000 101 100,000 101 100,000 101 100,000 101 100,000 101 100,000 101 100,000 101 100,000 101 101,000 101 101,000 101 101,000 101 101,000 101 101,000 101 101,000 101 101,000			150,000	5,000		155,000
10 CASING OREW			284,000			264,000
17 TOOL & EQUIPMENT RENTAL						100,000
13 FUEL & POWER 192,000 176,				80,000		130,000
15 MUD LOGGING & GEOLOGIST 24,4000 22						387,000
15 MUD LOGGING & GEOLOGIST 24.000			100,000			100,000
18 DISPOSAL, RESTORATION & BACKFILL 150,000						24,000
17 TRUCKING						150,000
18 TESTRIG				40,000		160,000
SEMENTING 200,000 18						
20 PERFORATING			200,000			200,000
21 CASED HOLE LOGS 42,000 4				180,000		180,000
22 DOWNHOLE TOOLS & SERVICE 42,000 4 24 FORMATION STIMULATION 1,810,000 1,81 25 CONSULTING SERVICES 10,000 2,000 2,20 26 SUPERVISION 110,000 80,000 19 27 CONTRACT LABOR 5,000 20,000 2,20 28 OTHER LABOR 5,000 300,000 30 29 COMPANY CONSULTRIGISUPY				1		
23 OTHER STMULATION				42,000		42,000
1,810,000 1,81 1,90 2,000 2 2 2 CONSULTING SERVICES 10,000 10,000 2 2 2 3 SUPERVISION 110,000 80,000 19 2 2 2 5 CONSULTING SERVICES 5,000 2,000 2 2 2 2 COMPANY CONSULTING/SUPV 5,000 300,000 30 30 30 30 30						(
29. 20.00 22.00				1,610,000		1,610,000
29 SUPERVISION 110,000 80,000 19						20,000
27 CONTRACT LABOR			110,000			190,000
29 OTHER LABOR						25,000
COMPANY CONSULTING/SUPV S.0.000 300,000 38 300,000 38 300,000						100,000
WATER	20					
131 FLUIDS & CHEMICALS 200,000 20 20 20 20 20 20			50,000	300,000		350,000
COMMUNICATIONS 10,000 10,000 2				500,555		200,000
10,000 10,000 10,000 2 3 3 8 9 9 7 8 10,000 10,000 3 3 3 9 9 7 8 9 9 9 9 9 9 9 9 9			200,000			100,000
34 BOP TESTING			10,000	10.000		20,000
Signature Services Signature Signatu						30,000
137 MSPECTIONS			20,000	10,000		50,000
WIRELINE SERVICES			10,000	5.000		15,000
Sendineering & Geology - Field 15,000 14 15,000 15,000 15,000 14 16 15,000			10,000	3,000		10,000
1						
MULTISHOT & GYRO			13.000		_	13,000
RE-ENTRY SERVICES			13,000			
3 AMPS & TRAILERS 15,000 15,000 3						(
Add SAFETY EQUIPMENT & H2S 10,000 5,000 1			15.000	48.000		
45 CONTINGENCY					_	30,000
10,000			10,000	5,000	_	15,000
MISCELLANEOUS 10,000 10,000 2 2 3 3 3 3 3 3 3 3			40,000	2.000		40.000
SIM-OPS						12,000
TOTAL INTANGIBLE COSTS			10,000	10,000		20,000
TANGIBLE COSTS DRILLING (400) COMPLETION (600) TOTAL	49	SM-OPS	5 3 023 000	2 980 000		5,912,000
CASING - CONDUCTOR	_				9	
02 CASING - SURFACE 20,000 2 03 CASING - INTERMEDIATE 330,000 33 04 CASING - INTERMEDIATE 2				COMPLETION (800)		
03 CASING - INTERMEDIATE 330,000 330,000 330,000 360,000					9	10,000
04 CASING - INTERMEDIATE 2 380,000 38 05 CASING - PRODUCTION / LINER 380,000 25,000 7 06 SUBSURFACE EQUIPMENT 50,000 25,000 7 07 PRODUCTION TUBING 55,000 5 08 SUBSURFACE PUMPING EQUIPMENT 60,000 10,000 7 10 FLOWLINES 100,000 10 11 SURFACE PUMPING EQUIPMENT 200,000 20 12 LINER HANGER & ASSOC EQUIP 200,000 20 13 VALVES & FITTINGS 200,000 20 16 RODS 40,000 2,000 4 20 RE-ENTRY EQUIPMENT 40,000 2,000 4 24 RE-ENTRY EQUIPMENT 500,000 50 34 PRODUCTION EQUIPMENT 500,000 50 49 TANGISLE EQUIP-ACQUISITIONS 10,000 10,000 2 49 TANGISLE EQUIP-ACQUISITIONS 500,000 \$ 902,000 \$ 1,80						20,000
05 CASING - PRODUCTION LINER 380,000 38 06 SUBSURFACE EQUIPMENT 50,000 25,000 7 07 PRODUCTION TUBING 55,000 5 08 SUBSURFACE PUMPING EQUIPMENT 60,000 10,000 7 07 PRODUCTION TUBING 100,000 10 10 FLOWINES 100,000 10 11 SURFACE PUMPING EQUIPMENT 100,000 10 12 LINER HANGER & ASSOC EQUIP 10 13 VALVES & FITTINGS 200,000 20 16 RODS 10 17 TRUCKING 40,000 2,000 4 20 RE-ENTRY EQUIPMENT 500,000 50 34 PRODUCTION EQUIPMENT 500,000 50 47 MISCELLANEOUS 10,000 10,000 2 49 TANGIBLE EQUIP-ACQUISITIONS 100,000 \$ 10 TOTAL INTANGIBLE COSTS \$ 900,000 \$ 902,000 \$ 1,800 10 10 TOTAL INTANGIBLE COSTS \$ 900,000 \$ 902,000 \$ 1,800			330,000			330,000
06 SUBSURFACE EQUIPMENT 50,000 25,000 7 07 PRODUCTION TUBING 55,000 5 08 SUBSURFACE PUMPING EQUIPMENT 60,000 10,000 7 09 WELLHEAD EQUIPMENT 60,000 10,000 7 10 FLOWLINES 100,000 10 11 SURFACE PUMPING EQUIPMENT 100,000 10 12 LINER HANGER & ASSOC EQUIP 100,000 20 13 VALVES & FITTINGS 200,000 20 15 RODS 100,000 20 16 RODS 200,000 200 17 TRUCKING 40,000 2,000 4 20 RE-ENTRY EQUIPMENT 500,000 50 34 PRODUCTION EQUIPMENT 500,000 50 47 MISCELLANEOUS 10,000 10,000 2 49 TANGIBLE EQUIP-ACQUISITIONS 500,000 \$ 1,80						447.00
OF PRODUCTION TUBING 55,000 5				205.000		360,000
SUBSURFACE PUMPING EQUIPMENT 60,000 10,000 7			50,000			75,000
WELLHEAD EQUIPMENT 60,000 10,000 7				55,000	_	55,000
10 FLOWLINES 100,000 10 10 11 10 10 10						
SURFACE PUMPING EQUIPMENT LINER HANGER & ASSOC EQUIP 200,000 20			60,000			70,00
12 LINER HANGER & ASSOC EQUIP				100,000		100,000
13 VALVES & FITTINGS 200,000 20 15 RODS						(
15 RODS						(
17 TRUCKING 40,000 2,000 4				200,000	-	200,00
20 RE-ENTRY EQUIPMENT 500,000 50	15			101111111111111111111111111111111111111		(
PRODUCTION EQUIPMENT 500,000 50	17	TRUCKING	40,000	2,000		42,000
PRODUCTION EQUIPMENT 500,000 50	20	RE-ENTRY EQUIPMENT				(
49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS \$ 900,000 \$ 902,000 \$ 1,80				500,000		500,000
49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS \$ 900,000 \$ 902,000 \$ 1,80			10,000	10,000		20,000
TOTAL INTANGIBLE COSTS \$ 900,000 \$ 902,000 \$ 1,80	49					(
- Control of the Cont			\$ 900,000	\$ 902,000	5	1,802,00
TOTAL ESTIMATED WELL COST \$ 3,923,000 \$ 3,791,000 \$ 7,714		TOTAL ESTIMATED WELL COST	\$ 3,923,000	\$ 3,791,000		7,714,000

PREPARED BY:	Aaron Cattley Benar Operations Engineer	DATE: 6/20/2019
OPERATOR APPROVAL:	VP - Operations	DATE: 8/29/2019
OPERATOR APPROVAL:		DATE: 8/24/2019
PARTNER COMPANY NAME:		
FARTHER COMPANY NAME:		
PARTNER APPROVAL:		DATE:
TITLE:		



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206

VELL !	NAME AL LOCATION	Ovation Fed Com 13 231H T23S, R28E, Sec 13 - T23S, R28E, Sec 13	AFE TYPE	Development Northern Delaware	AFE NUMBER DRILLING DAYS	20151	77
	GE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp B	DEPTH (TVD/TMD)		5' / 15,545'
	M-HOLE LOCATION	T23S, R28E, Sec 13 NE/4 NE/4	COUNTY	Eddy County	STATE		Vlexico
	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs			O TATE		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	41 BEGGHH 11011	Elinig, campraters, member and procure contr	ar speake treatment	(134)			
CCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE		
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)		
01	SURVEY/PERMITS/DAM	MAGES/LEGAL		\$ 50,000		\$	50,00
02	LOCATION & ROAD			150,000			150,00
03	RIG MOVE			160,000			150.00
04	DRILLING - FOOTAGE			50,000			50,00
05	DRILLING - DAYWORK			810,000			810,00
06	COMPLETION/WORKO				60,000		60,00
07	COIL TUBING/SNUBBIN	G UNIT			120,000		120,00
80	SLICKLINE/SWABBING						
09	BITS			150,000	5,000		155,00
10	DIRECTIONAL SERVICE	8		264,000			264.00
11	CASING CREW			100,000			100.00
12	TOOL & EQUIPMENT R	ENTAL		50,000	80,000		130,00
13	FUEL & POWER	711		192,000	175,000		367,00
14	DIESEL - BASE FOR MI			100,000			100,00
15	MUD LOGGING & GEOL			24,000		_	24,00
16	DISPOSAL, RESTORAT	ION & BACKFILL		150,000	10.000	-	150,00
17	TRUCKING			120,000	40,000		180,00
18	TESTING			680.000			200.00
19	CEMENTING			200,000	400.000	_	200,00
20	PERFORATING				180,000	-	180,00
21	CASED HOLE LOGS	activity.			40.000	_	
22	DOWNHOLE TOOLS &	SERVICE			42,000	_	42,00
23	OTHER STIMULATION	1041			4 440 000	_	1,610,00
24	FORMATION STIMULAT				1,810,000	-	
25	CONSULTING SERVICE	.5		110,000	20,000		190,00
26	SUPERVISION CONTRACT LABOR			5,000	20,000		25,00
28	OTHER LABOR			0,000	100,000		100,00
29	COMPANY CONSULTIN	G/SLIPV			100,000	_	100,00
30	WATER	arour i		50,000	300,000		350,00
31	FLUIDS & CHEMICALS			200,000			200,00
32	CORING & ANALYSIS						
33	COMMUNICATIONS			10,000	10,000		20,00
34	BOP TESTING			20,000	10,000		30,00
36	FISHING TOOLS & SER	VICES					
37	INSPECTIONS			10,000	5,000		15,000
38	WIRELINE SERVICES						
39	ENGINEERING & GEOL						- 5
40	ENGINEERING & GEOL	OGY - OFFICE		13,000		_	13,00
41	MULTISHOT & GYRO					_	
42	RE-ENTRY SERVICES			45.000	45.000		40.00
43	CAMPS & TRAILERS	1000	_	15,000	15,000		15,000
44	SAFETY EQUIPMENT &	1125		10,000	5,000	_	15,001
46	INSURANCE			10,000	2,000		12,00
47	MISCELLANEOUS			10,000	10,000		20,00
49	SIM-OPS			10,000	15,500	-	20,000
-	TOTAL INTANGIBLE CO	OSTS	\$ 3,023,000	\$ 2,889,000	\$	5,912,000	
		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)		TOTAL
01	CASING - CONDUCTOR			\$ 10,000		S	10,000
02	CASING - SURFACE			20,000			20,000
03	CASING - INTERMEDIA	TE		330,000			330,000
04	CASING - INTERMEDIA						(
05	CASING - PRODUCTION			380,000			380,000
08	SUBSURFACE EQUIPM			50,000	25,000		75,00
07	PRODUCTION TUBING				55,000		55,00
08	SUBSURFACE PUMPIN	G EQUIPMENT					
	WELLHEAD EQUIPMEN	T		60,000	10,000		70,000
09					100,000		100,00
10	FLOWLINES						
10 11	SURFACE PUMPING E						
10 11 12	SURFACE PUMPING EG LINER HANGER & ASS						
10 11 12 13	SURFACE PUMPING EG LINER HANGER & ASSO VALVES & FITTINGS				200,000		200,00
10 11 12 13 15	SURFACE PUMPING EG LINER HANGER & ASS VALVES & FITTINGS RODS						200,00
10 11 12 13 15 17	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING	OC EQUIP		40,000	200,000		200,00 42,00
10 11 12 13 15 17 20	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT	DC EQUIP		40,000	2,000		200,000 42,00
10 11 12 13 15 17 20 34	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMEN' PRODUCTION EQUIPM	DC EQUIP			2,000		200,000 42,000 500,000
10 11 12 13 15 17 20 34 47	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMEN PRODUCTION EQUIPM MISCELLANEOUS	OC EQUIP		40,000	2,000		200,000 42,000 500,000 20,000
10 11 12 13 15 17 20 34	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMEN' PRODUCTION EQUIPM MISCELLANEOUS TANGIBLE EQUIP-ACQ	C EQUIP FENT UISITIONS		10,000	2,000 500,000 10,000		200,00 42,00 500,00 20,00
10 11 12 13 15 17 20 34 47	SURFACE PUMPING EC LINER HANGER & ASSI VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMEN PRODUCTION EQUIPM MISCELLANEOUS	ENT UISITIONS USITS			2,000 500,000 10,000 \$ 902,000		200,00 42,00 500,00 20,00

PREPARED BY:	Aaron Cattley	10	Senior Operations Engineer	DATE: 8/29/2019	-
OPERATOR APPROVAL:	_	100	VP - Operations	DATE: 8/29/2019	-
OPERATOR APPROVAL:		O ()	Cho	DATE: 8/24/200	٩
PARTNER COMPANY NAME:					
PARTNER APPROVAL:	S-			DATE:	_
TITLE:					

3,923,000 \$

7,714,000

3,791,000 \$

TOTAL ESTIMATED WELL COST



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1031 West Washire, Sure 206 Ollahome City, Ollahoms 73118 405-286-4391

WELL NAME	Ovation Fed Com 13 232H	AFE TYPE	Development	AFE NUMBER	2015178
LATERAL LOCATION	T23S, R28E, Sec 13 - T23S, R28E, Sec 13	FIELD	Northern Delaware	DRILLING DAYS	25
SURFACE LOCATION	T23S, R28E, Sec 14 NE/4	FORMATION	Wolfcamp B	DEPTH (TVD/TMD)	10,655' / 15,555'
BOTTOM-HOLE LOCATION	T23S, R28E, Sec 13 NE/4 NE/4	COUNTY	Eddy County	STATE	New Maxico
PROJECT DESCRIPTION	Drilling, completion, facilities and pipeline costs	for 4,620' horizonta	I well.		
ACCT.	DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE	INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	VI -

PROJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs for 4,6	20' horizontal well.			
ACCT.		DESCRIPTION OF EXPENDITURE		COST ESTIMATE	_	
CODE		INTANGIBLE COSTS	DRILLING (300)	COMPLETION (500)		
	SURVEY/PERMITS/DAI	MAGES/LEGAL	\$ 50,000		\$	50,000
	LOCATION & ROAD		150,000		_	150,000
	RIG MOVE		150,000 50,000		_	150,000 50,000
	DRILLING - FOOTAGE		810,000		-	810,000
06	DRILLING - DAYWORK COMPLETION/WORKO	VER RIG	810,000	60,000		60,000
07	COIL TUBING/SNUBBIN			120,000		120,000
08	SLICKLINE/SWABBING	12 2131		149,545	_	0
09	BITS		150,000	5,000		155,000
10	DIRECTIONAL SERVIC	E8	284,000			264,000
- 11	CASING CREW		100,000			100,000
12	TOOL & EQUIPMENT R	ENTAL	50,000	80,000		130,000
13	FUEL & POWER		192,000	175,000	_	367,000
14	DIESEL - BASE FOR MI	JD	100,000		_	100,000
15	MUD LOGGING & GEO		24,000 150,000		-	24,000 150,000
16	DISPOSAL RESTORAT	ION & BACKFILL	120,000	40,000	-	160,000
18	TESTING		120,000	40,000		100,000
19	CEMENTING		200,000			200,000
20	PERFORATING		250,000	180,000		180,000
21	CASED HOLE LOGS					0
22	DOWNHOLE TOOLS &	SERVICE		42,000		42,000
23	OTHER STIMULATION					0
24	FORMATION STIMULA			1,610,000		1,610,000
25	CONSULTING SERVICE	ES		20,000		20,000
26	SUPERVISION		110,000	80,000		190,000
27	CONTRACT LABOR		5,000	20,000	-	25,000
	OTHER LABOR	IC/CLIDY		100,000	-	100,000
	COMPANY CONSULTIN	NG/SUPV	50,000	300,000	-	350,000
	FLUIDS & CHEMICALS		200,000	500,000		200,000
	CORING & ANALYSIS		200,000			0
	COMMUNICATIONS		10,000	10,000		20,000
	BOP TESTING		20,000	10,000		30,000
	FISHING TOOLS & SER	RVICES				0
37	INSPECTIONS		10,000	5,000		15,000
	WIRELINE SERVICES					0
39	ENGINEERING & GEOL				_	0
40	ENGINEERING & GEOL	OGY - OFFICE	13,000		_	13,000
41	MULTISHOT & GYRO					0
42	RE-ENTRY SERVICES CAMPS & TRAILERS		15,000	15,000	-	30,000
43	SAFETY EQUIPMENT	L H7S	10,000	5,000		15,000
45	CONTINGENCY	X1120	10,000	0,000		0
46	INSURANCE		10,000	2,000		12,000
47	MISCELLANEOUS		10,000	10,000		20,000
49	SIM-OPS					. 0
	TOTAL INTANGIBLE C		\$ 3,023,000		5	5,912,000
		TANGIBLE COSTS	DRILLING (400)	COMPLETION (600)	-	TOTAL
	CASING - CONDUCTOR		\$ 10,000		\$	10,000 20,000
02	CASING - SURFACE CASING - INTERMEDIA	TE	330,000		_	330,000
04	CASING - INTERMEDIA		350,000			330,000
05	CASING - PRODUCTIO		380,000			380,000
	SUBSURFACE EQUIPA		50,000	25,000		75,000
	PRODUCTION TUBING			55,000		55,000
80	SUBSURFACE PUMPIN	IG EQUIPMENT				0
	WELLHEAD EQUIPMEN	NT.	60,000	10,000		70,000
	FLOWLINES			100,000		100,000
11	SURFACE PUMPING E					0
	LINER HANGER & ASS	OC EQUIP		500 500		000,000
	VALVES & FITTINGS			200,000		200,000
15	IRODS TRUCKING		40,000	2,000	-	42,000
	RE-ENTRY EQUIPMEN	T	40,000	2,000	_	42,000
	PRODUCTION EQUIPMENT			500,000		500,000
47	MISCELLANEOUS		10,000	10,000		20,000
49	TANGIBLE EQUIP-ACC	UISITIONS				0
	TOTAL INTANGIBLE C		\$ 900,000	\$ 902,000	5	1,802,000
-	TOTAL ESTIMATED	WELL COST	\$ 3,923,000	\$ 3,791,000	5	7,714,000
	TO THE EQUINATED	1122 3031	9 0,820,000	A 9'101'000		7,114,000

PREPARED BY:	Aaron Cattley	Benior Operations Engineer	DATE:	8/29/2019
OPERATOR APPROVAL:	The same of the sa	VP - Operations	DATE:	8/29/2019
OPERATOR APPROVAL:	July 1	cto	DATE:	8/20/2019
PARTNER COMPANY NAME:	1/2			
PARTNER APPROVAL:	18		DATE:	
TITLE:				



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Walnine, Busic 200 Oxidohoma Csy. Oxidohoma 73180 405-286-4391

	NAME AL LOCATION CE LOCATION	Ovation Fed Com 13 235H T23S, R28E, Sec 13 - T23S, R28E, Sec 13 T23S, R28E, Sec 14 NE/4	AFE TYPE FIELD FORMATION	Development Northern Delaware Wolfcamp B	AFE NUMBER DRILLING DAYS DEPTH (TVD/TMD)	2015178 27 10,565' / 15,565'
	M-HOLE LOCATION	T23S, R28E, Sec 13 SE/4 NE/4	COUNTY	Eddy County	STATE	New Mexico
majorana Project Colonia	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs			17.11.11.11	1110
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
.01	SURVEY/PERMITS/DA	MAGES/LEGAL		\$ 50,000		\$ 50,000
	LOCATION & ROAD			150,000		150,000
03	RIG MOVE			150,000		150,000
04	DRILLING - FOOTAGE	,		50,000		50,000
05	DRILLING - DAYWORK			860,000		860,000
06	COMPLETION/WORK				60,000	60,000
07	COIL TUBING/SNUBBI				120,000	120,000
08	SLICKLINE/SWABBING	i				
09	BITS	Color Color		150,000	5,000	155,000
10	DIRECTIONAL SERVICE	ES		288,000		288,00
11	CASING CREW			100,000		100,000
12	TOOL & EQUIPMENT	RENTAL		50,000	80,000	130,000
13	FUEL & POWER			204,000	175,000	379,000
14	DIESEL - BASE FOR M			120,000		120,000
15	MUD LOGGING & GEO			26,000		26,000
16	DISPOSAL, RESTORA	TION & BACKFILL		150,000		150,000
	TRUCKING			120,000	40,000	160,000
	TESTING					
19	CEMENTING			200,000	- initial and	200,000
20	PERFORATING				180,000	180,000
21	CASED HOLE LOGS	CANADATA				
22	DOWNHOLE TOOLS &	SERVICE			42,000	42,000
23	OTHER STIMULATION					1
24	FORMATION STIMULA	TION			1,610,000	1,610,000
25	CONSULTING SERVIC	ES			20,000	20,000
26	SUPERVISION			120,000	80,000	200,000
27	CONTRACT LABOR			5,000	20,000	25,000
28	OTHER LABOR				100,000	100,000
29	COMPANY CONSULTI	NG/SUPV				(
30	WATER			50,000	300,000	350,000
31	FLUIDS & CHEMICALS			210,000		210,000
32	CORING & ANALYSIS					
33	COMMUNICATIONS			12,000	10,000	22,000
34	BOP TESTING			20,000	10,000	30,000
35	FISHING TOOLS & SEL	RVICES		7.00	- Hardinak	(
	INSPECTIONS	HOOF POOR IS		10,000	5,000	15,000
38	WIRELINE SERVICES					
39	ENGINEERING & GEO	LOGY - FIELD				
40	ENGINEERING & GEO			15,000		15,000
41	MULTISHOT & GYRO			11000000		100000
42	RE-ENTRY SERVICES	3				
43	CAMPS & TRAILERS			15,000	15,000	30,000
44	SAFETY EQUIPMENT	8 H2S		10,000	5,000	15,000
45	CONTINGENCY			7.00		
46	INSURANCE			10,000	2,000	12,000
47	MISCELLANEOUS			10,000	10,000	20,000
49	SIM-OPS			10,000	10,000	20,000
-70	TOTAL INTANGIBLE C	OSTS		\$ 3,155,000	\$ 2,889,000	\$ 6,044,000
_		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
01	CASING - CONDUCTO			5 10,000		\$ 10,000
	CASING - SURFACE			20,000		20,000
03	CASING - SURPACE	ATE .		330,000		330.000
04	CASING - INTERMEDIA			330,000		330,000
05	CASING - PRODUCTIO			400,000		400,000
05	SUBSURFACE EQUIP			50,000	25,000	75,000
07	PRODUCTION TUBING			50,000	55,000	55,000
08	SUBSURFACE PUMPI				55,000	55,000
	WELLHEAD EQUIPME			60,000	10,000	70,000
	the second of small the discussion of the contract of the second of the second of	M.		60,000	100,000	100,000
	FLOWLINES SURFACE PUMPING E	OURDMENT			100,000	100,001
11	Annual Control of the				-	
12	LINER HANGER & ASS	DOU EUUIF			200.000	
	VALVES & FITTINGS				200,000	200,000
15	RODS			40.000	2,000	40.00
17	TRUCKING	ir .		40,000	2,000	42,000
20	RE-ENTRY EQUIPMEN	to Variation and the Control of the		l	200.000	VAC 14
34	PRODUCTION EQUIPM	AENT		48.000	500,000	500,00
47	MISCELLANEOUS	N. MONTONO		10,000	10,000	20,000
49	TANGIBLE EQUIP-ACC					
	TOTAL INTANGIBLE C	OSTS		\$ 920,000	\$ 902,000	\$ 1,822,000
		WELL COST		12		
	TOTAL ESTIMATED			\$ 4,075,000	\$ 3,791,000	\$ 7,866,000

PREPARED BY:	Aaron Cattley	Benlor Operations Engineer	DATE: 8/29/2019
OPERATOR APPROVAL:		VP - Operations	DATE: 8/29/2019
OPERATOR APPROVAL:	- (ht-f	C.FO	DATE: 8/29/2019
			3 15
PARTNER COMPANY NAME			
PARTNER APPROVAL:			DATE:
TITLE:			

STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF NOVO OIL & GAS NORTHERN DELAWARE, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NOS. 20886 & 20887

AFFIDAVIT OF MICHAEL HALE IN SUPPORT OF CASE NOS. 20886 AND 20887

Michael Hale, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Michael Hale. I work for Novo Oil & Gas Northern Delaware, LLC ("Novo") as Vice President of Geoscience and Exploration.
- 2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record.
- 3. I am familiar with the applications filed by Novo in Case Nos. 20886 and 20887, and I have conducted a geologic study of the lands in the subject areas.
- 4. Novo Exhibit B-1 is a project locator map outlining the proposed spacing units in Case Nos. 20886 and 20887 in relation to the surrounding acreage.
- 5. Novo Exhibit B-1 also shows the path of the proposed wellbores for the Ovation Fed Com 13 #131H Well, Ovation Fed Com 13 #132H Well, Ovation Fed Com 13 #135H Well, Ovation Fed Com 13 #211H Well, Ovation Fed Com 13 #212H Well, Ovation Fed Com 13 #222H Well, Ovation Fed Com 13 #225H Well, Ovation Fed Com 13 #231H Well, Ovation

Case # 20886 & 20887

Fed Com 13 #232H Well, and Ovation Fed Com 13 #235H Well. Existing nearby wells producing in the Bone Spring and Wolfcamp formations are also reflected on the map.

6. Novo Exhibit B-2 is a 3-D Block Diagram reflecting Novo's intended development of the Bone Spring and Wolfcamp formations in Section 13.

CASE NO. 20886

- 7. In this case, Novo is targeting the Bone Spring formation.
- 8. Novo Exhibit B-3 is a subsea structure map that I prepared off the top of the Third Bone Spring Sand formation, which Novo intends to develop with its Ovation Fed Com 13 #131H Well, Ovation Fed Com 13 #132H Well, and Ovation Fed Com 13 #135H Well. The structure map with a contour interval of 20 feet shows the Bone Spring is gently dipping to the east. The structure appears consistent across the proposed wellbore paths. I do not observe any faulting, pinchouts, or other geologic impediments to horizontal drilling.

CASE NO. 20887

- 9. In this case, Novo is targeting the Wolfcamp formation.
- Novo Exhibit B-4 is a subsea structure map that I prepared off the top of the Wolfcamp XY formation with a contour interval of 20 feet. The map reflects the proposed Ovation Fed Com 13 #211H Well, Ovation Fed Com 13 #212H Well, Ovation Fed Com 13 #215H Well. The structure map shows the Wolfcamp is gently dipping to the east. The structure appears consistent across the proposed wellbore paths. I do not observe any faulting, pinchouts, or other geologic impediments to horizontal drilling.
- 11. Novo Exhibit B-5 is a subsea structure map that I prepared off the top of the Wolfcamp A formation with a contour interval of 20 feet. The map reflects the proposed Ovation Fed Com 13 #221H Well, Ovation Fed Com 13 #222H Well, and Ovation Fed Com 13

- **#225H Well**. The structure map shows the Wolfcamp is gently dipping to the east. The structure appears consistent across the proposed wellbore paths. I do not observe any faulting, pinchouts, or other geologic impediments to horizontal drilling.
- Novo Exhibit B-6 is a subsea structure map that I prepared off the top of the Wolfcamp B formation with a contour interval of 20 feet. The map reflects the proposed Ovation Fed Com 13 #231H Well, Ovation Fed Com 13 #232H Well, and Ovation Fed Com 13 #235H Well. The structure map shows the Wolfcamp is gently dipping to the east. The structure appears consistent across the proposed wellbore paths. I do not observe any faulting, pinchouts, or other geologic impediments to horizontal drilling.
- Novo Exhibit B-7 is a stratigraphic cross-section that I prepared displaying openhole logs from three representative wells denoted from A to A'. Novo Exhibit B-7 also includes an insert on the bottom left-hand corner that shows the location of the wells used to create the stratigraphic cross-section on Novo Exhibit B-7. These three wells from A to A' are representative of the geology in the area. For each well in the cross-section, the exhibit shows the following logs: gamma ray, resistivity, and porosity. The proposed target intervals in the Third Bone Spring, Wolfcamp XY, Wolfcamp A, and Wolfcamp B are labeled and marked on the exhibit. The logs in the cross-section demonstrate that the targeted intervals, within the Bone Spring and Wolfcamp, are consistent in thickness, across the entire proposed spacing unit.
- 14. In my opinion, each tract comprising the proposed horizontal spacing units in Case Nos. 20886 and 20887 will be productive and contribute more-or-less equally to production from the wellbore.
- 15. In my opinion, the granting of Novo's applications in these cases is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

16. Novo Exhibits B-1 through B-7 were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT

MICHAEL HALE

STATE OF OKLAHOMA)
)
COUNTY OF OKLAHOMA)

SUBSCRIBED and SWORN to before me this ______ day of November 2019 by Michael Hale.

NOTARY PUBLIC

My Commission Expires:

11/15/20

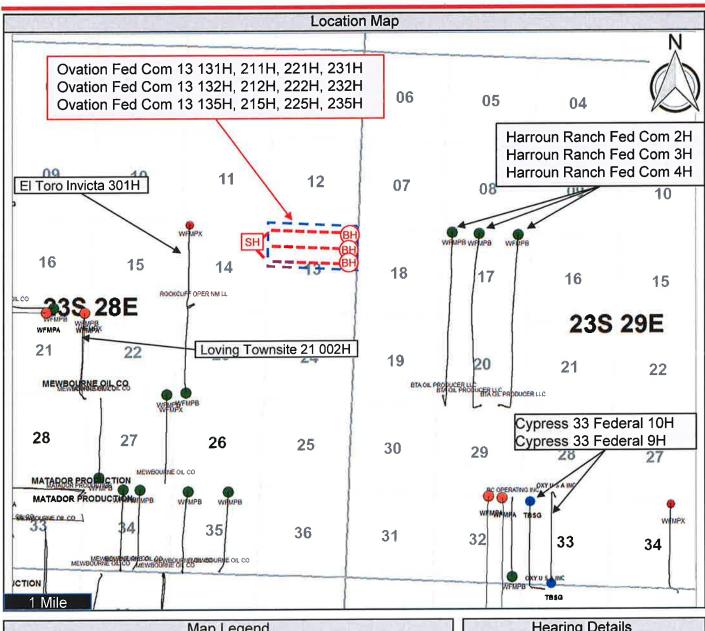


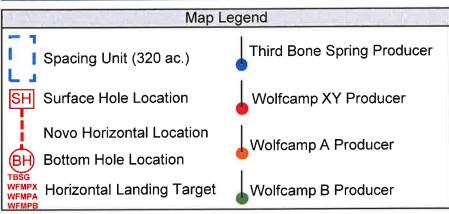
13804199_v1

Ovation Fed Com 13 Execution Plan



Third Bone Spring, Wolfcamp XY, Wolfcamp A and Wolfcamp B Proposed Locations, Section 13-23S-28E



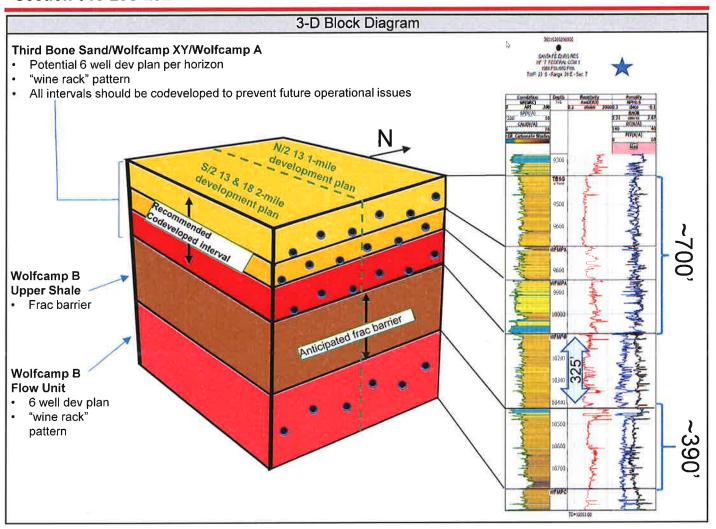


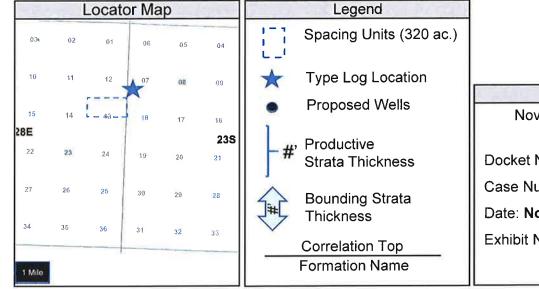
Hearing Details Novo Oil & Gas Northern Delaware, LLC Docket Number: 42-19 Case Number: 20886 & 20887 Date: November 14, 2019 Exhibit Number: B-1

Novo Development Plan: Ovation Fed Com 13 Units



Section 013-23S-28E





Novo Oil & Gas Northern Delaware, LLC

Docket Number: 42-19

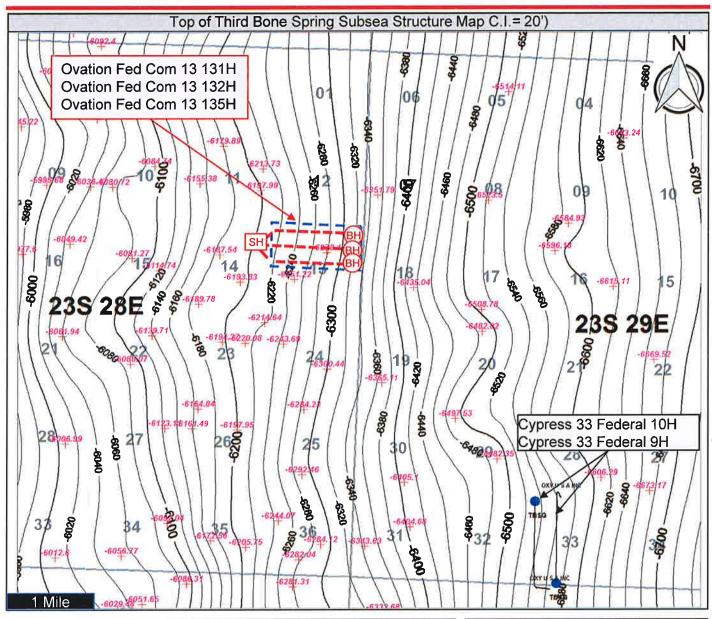
Case Number: 20886 & 20887

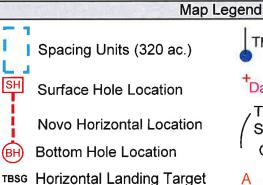
Date: November 14, 2019

Exhibit Number: **B-2**

Ovation Fed Com 13: Top of Third Bone Spring Structure Map

Third Bone Spring Proposed Locations; Section 13-23S-28E





Third Bone Spring Producer

Datum value
Third Bone Spring Subsea
Structure

Contour line – interval 20'

Cross Section Line A

Hearing Details

Novo Oil & Gas Northern Delaware, LLC

Docket Number: 42-19

Case Number: 20886 & 20887

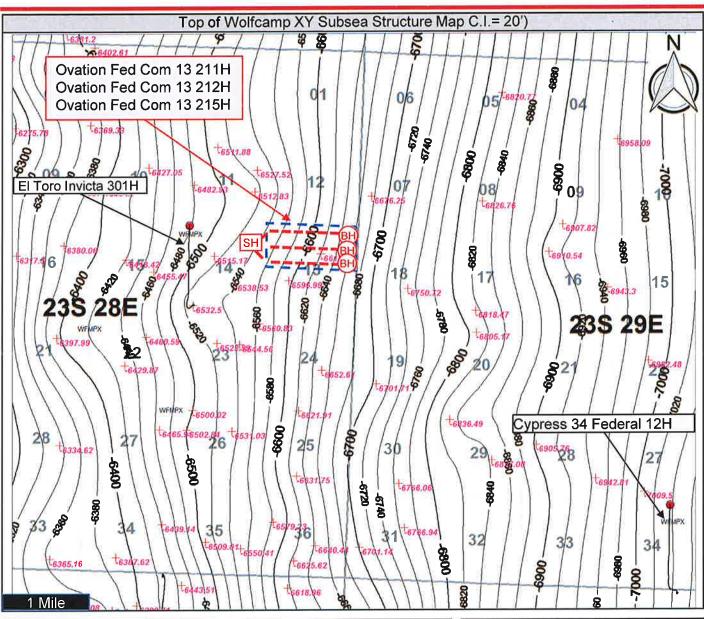
Date: November 14, 2019

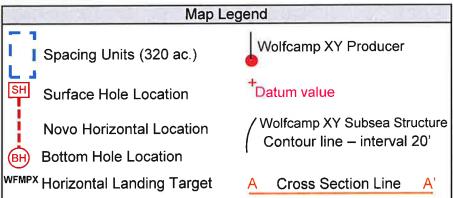
Exhibit Number: B-3

Ovation Fed Com 13: Top of Wolfcamp XY Structure Map



Wolfcamp XY Proposed Locations; Section 13-23S-28E



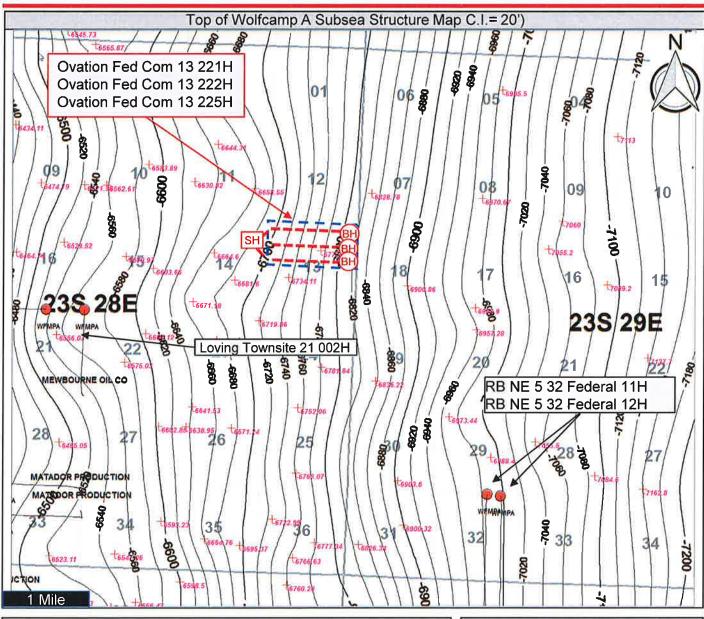


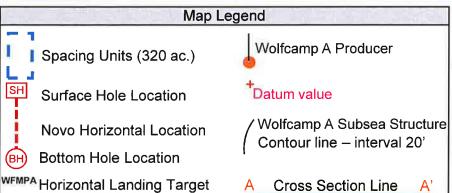
Novo Oil & Gas Northern Delaware, LLC Docket Number: **42-19** Case Number: **20886 & 20887** Date: **November 14, 2019** Exhibit Number: **B-4**

Hearing Details

Ovation Fed Com 13: Top of Wolfcamp A Structure Map

Wolfcamp A Proposed Locations; Section 13-23S-28E





Hearing Details

Novo Oil & Gas Northern
Delaware, LLC

Docket Number: 42-19

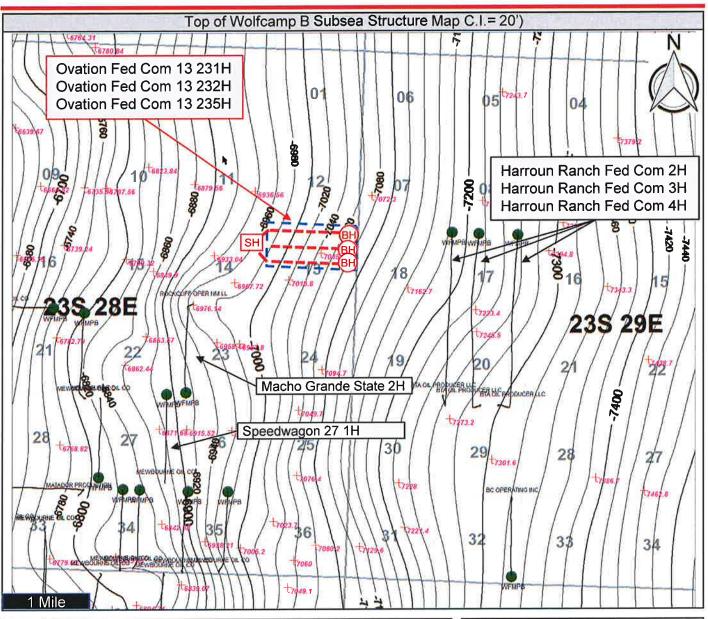
Case Number: 20886 & 20887

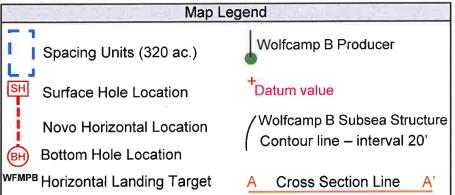
Date: November 14, 2019

Exhibit Number: B-5

Ovation Fed Com 13: Top of Wolfcamp B Structure Map

Wolfcamp B Proposed Locations; Section 13-23S-28E





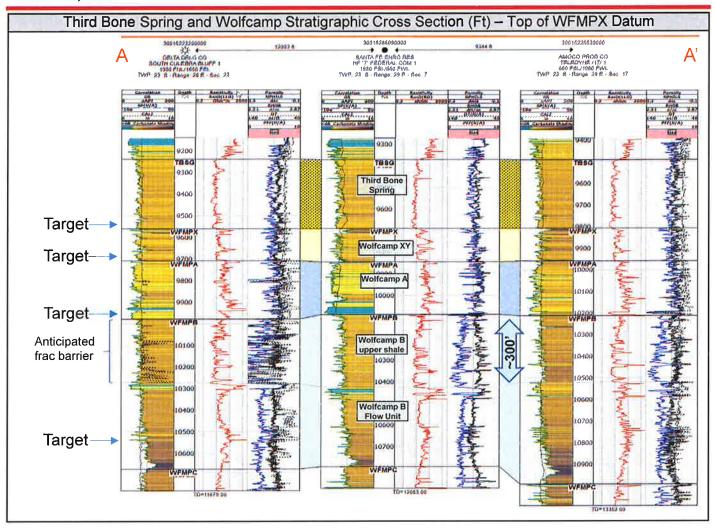
Novo Oil & Gas Northern Delaware, LLC Docket Number: **42-19**Case Number: **20886 & 20887**Date: **November 14, 2019**Exhibit Number: **B-6**

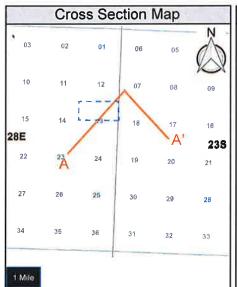
Hearing Details

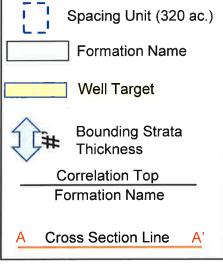
Ovation— Third Bone Spring and Wolfcamp Stratigraphic Cross Section



Third Bone Spring, Wolfcamp XY, Wolfcamp A and Wolfcamp B Proposed Location, Section 013-23S-28E







Cross Section Legend

Novo Oil & Gas Northern Delaware, LLC

Docket Number: 42-19

Case Number: 20886 & 20887

Date: November 14, 2019

Exhibit Number: B-7

STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF NOVO OIL & GAS NORTHERN DELAWARE, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NOS. 20886 & 20887

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

Kaitlyn A. Luck, attorney in fact and authorized representative of Novo Oil & Gas Northern Delaware, LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications have been provided under the notice letters and proof of receipts attached hereto.

Kaitlyn A. Luck

SUBSCRIBED AND SWORN to before me this 13th day of November, 2019 by Kaitlyn A. Luck.

Notary Public

My Commission Expires:

Tanvary 28, 2023



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. C

Santa Fe, New Mexico
Exhibit No. C
Ibmitted by: Novo Oil & Gas Northern Delawa
Hearing Date: Novombor 14, 2010



Michael H. Feldewert
Recognized Specialist in the
Area of Natural Resources —
Oil and Gas Law — New Mexico Board of
Legal Specification
mfeldewert@hollandhart.com

October 23, 2019

<u>VIA CERTIFIED MAIL</u> CERTIFIED RECEIPT REQUESTED

TO: ALL POOLED PARTIES

Re: Application of Novo Oil & Gas Northern Delaware LLC for compulsory

pooling, Eddy County, New Mexico.

Ovation Fed Com 13 #131H, #132H, #135H Wells

Ladies & Gentlemen:

This letter is to advise you that Novo Oil & Gas Northern Delaware, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on November 14, 2019, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices, located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from subsequently challenging this matter.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-Hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Justin Carter, at (405) 286-3375 or jcarter@novoog.com.

Sincerely,

Michael H. Feldewert

ATTORNEY FOR NOVO OIL & GAS NORTHERN

DELAWARE LLC



Michael H. Feldewert
Recognized Specialist in the
Area of Natural Resources —
Oil and Gas Law — New Mexico Board of
Legal Specification
mfeldewert@hollandhart.com

October 23, 2019

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL POOLED PARTIES

Re:

Application of Novo Oil & Gas Northern Delaware LLC for compulsory

pooling, Eddy County, New Mexico.

Ovation Fed Com 13 #211H, #212H, #215H, #221H, #222H, #225H, #231H,

#232H, #235H Wells

Ladies & Gentlemen:

This letter is to advise you that Novo Oil & Gas Northern Delaware, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on November 14, 2019, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices, located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from subsequently challenging this matter.

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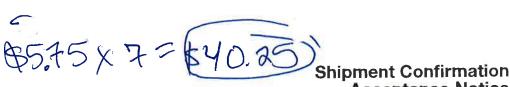
If you have any questions about this matter, please contact Justin Carter, at (405) 286-3375 or jearter@novoog.com.

Sincerely,

Michael H. Feldewert ATTORNEY FOR NOVO OIL & GAS NORTHERN DELAWARE LLC

Novo - Ovation 131H-132H, 135H, 211H-212H, 215H, 225H, 221H-222H, 235H, 235H Case Nos. 20886, 20887 - Postal Delivery Report

Tracking Number	Recipient	Status
9214890194038396564751	3214890194038336564751 Mark L Shidler 1313 Campbell Rd Bldg D Houston TX 77005	Delivered Signature Received
9214890194038396564768	3214890194038396564768 Westhall Oil & Gas LLC PO BOX 4 Loco Hills NM 88255	Delivered Signature Received
9214890194038396564775	9214890194038336564775 Don Paage Royalties 550 West Texas Ave Suite 800 Midland TX 79701	Delivered Signature Received
9214890194038396564782	92148901940383396564782 Robert H Northington 15250 Prestonwood Blvd 263 Dallas TX 75248-4791	Delivered Signature Received
9214890194038396564799	3214890194038336564799 H P McLish 1520 W Canal Ct Suite 250 Littleton CO 80120	Delivered Signature Received
9214890194038396564805	9214890194038396564805 Chase Hicks 111 Stoney Creek Lane Terrell TX 75160-5140	In-Transit
9214890194038396564812	9214890194038396564812 TLW Investments LLC 1001 Fannin Suite 2020 Houston TX 77002	Delivered Signature Received





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Novo - Ovation Fed Com 13 131H-132H, 135H, 211H 212H, 215H, 221H, 231H, 232H, 235H Case Nos. 20886 & 20887

Shipment Date: 10/23/2019 Shipped From: Name: HOLLAND & HART LLP Address: 110 N GUADALUPE ST # 1 City: SANTA FE State: NM ZIP+4® 87501

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7.	9214 8901 9403 8396 5648 12	TLW Investments LLC 1001 Fannin Suite 2020 Houston TX 77002	0.65	3.50	7							1,60		Sign	

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Carlsbad Current Argus.

Affidavit of Publication Ad # 0003867529

HOLLAND & HART POBOX 2208

SANTA FE, NM 87504

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

October 29, 2019

Legal Clerk

Subscribed and sworn before me this October 29, 2019:

> State of WI, County of Brown NOTARY PUBLIC

My commission expires

SHELLY HORA Notary Public State of Wisconsin

Ad # 0003867529 PO #: # of Affidavits: 1

STATE OF NEW MEXICO **ENERGY, MINERALS AND NATURAL RESOURCES** DEPARTMENT OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on November 14, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appoint for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by November 4, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.n m.us/OCD/. Please contact Ms. Davidson if a summary or other type of accessible form is needed. er type of accessible form is needed.

> STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners and pooled parties, including: Novo Oil & Gas Northern Delaware, LLC Mark L. Shidler, his heirs and devisees; Westhall Oil & Gas, LLC; Don Paage Royalties; Robert H. Northington, his heirs and devisees; H. P. McLish, his/her heirs and devisees; Chase Hicks, his heirs and devisees; TLW Investments, LLC.

Case No. 20886: Application of Novo Oil & Gas Northern Delaware LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interests in the Bone Spring formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the N/2 of Section 13, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the following proposed initial wells:

• The Ovation Fed Com 13 #131H Well to be horizontally drilled from a surface location in the NE/4 of Section 14, T23S, R28E, to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 13.

A) of Section 13.

The Ovation Fed Com 13 #132H Well and the Ovation Fed Com 13 #135H Well, both of which will be horizontally drilled from a common surface location in the NE/4 of Section 14, T23S, R28E, to bottom hole locations in the SE/4 NE/4 (Unit H) of Section 13.

(Unit H) of Section 13. The completed interval for the Ovation Fed Com 13 #132H Well will remain within 330 feet of the N/2 N/2 of Section 13 to allow inclusion of these proximity tracts in a standard 320-acre horizontal well spacing comprised of the N/2 of Section 13. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the costs thereof, the actual operating costs and charges for supervision, the designation of applicant as operator of the wells, and the imposition of a 200% charge for risk involved in drilling and completing the wells. Said area is located approximately 3 miles east of Loving, New Mexico. #3867487, Current Argus, Oct. 29, 2019

Carlsbad Current Argus.

Affidavit of Publication Ad # 0003867847

HOLLAND & HART POBOX 2208

SANTA FE, NM 87504

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

October 29, 2019

Legal Clerk

Subscribed and sworn before me this October 29, 2019:

> WI. County of Brown OTARY PUBLIC

My commission expires

SHELLY HORA Notary Public State of Wisconsin

Ad # 0003867847 PO#: 3867847 # of Affidavits: 1

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO

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> STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners and pooled parties, including: Novo Oil & Gas Northern Delaware, LLC Mark L. Shidler, his heirs and devisees; Westhall Oil & Gas, LLC; Don Paage Royalties; Robert H. Northington, his heirs and devisees; H. P. McLish, his/her heirs and devisees; Chase Hicks, his heirs and devisees; TLW Investments, LLC.

Case No. 20887: Application of Novo Oil & Gas Northern Delaware LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the N/2 of Section 13, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the following proposed initial wells:

• The Ovation Fed Com 13 #211H Well, the Ovation Fed Com 13 #212H Well, the Ovation Fed Com 13 #232H Well, each will be horizontally drilled from a

Com 13 #232H Well, each will be horizontally drilled from a common surface location in the NE/4 of Section 14, T23S R28E, to bottom hole locations in the NE/4 NE/4 (Unit A) of Section 13

• The Ovation Fed Com 13 #215H Well, the Ovation Com 13 #222H Well, the Ovation Fed Com 13 #225H Well, and the Ovation Fed Com 13 #235H Well each will be horiof Section 14, T23S, R28E, to bottom hole locations in the NE/4 of Section 14, T23S, R28E, to bottom hole locations in the SE/4 NE/4 (Unit H) of Section 13.

Also, to be considered will be the cost of drilling and completing the wells, the allocation of the costs thereof, the accept

pleting the wells, the allocation of the costs thereof, the actual operating costs and charges for supervision, the designation of applicant as operator of the wells, and the imposition of a 200% charge for risk involved in drilling and completing the wells. Said area is located approximately 3 miles east of Loving, New Mexico.

#3867847, Current Argus, Oct. 29, 2019