

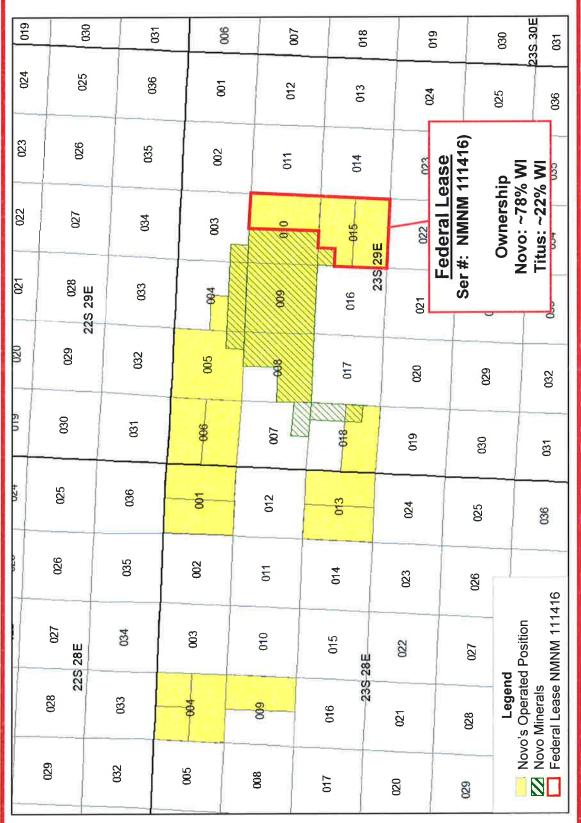
Saturninus 1510 Pooling Applications

Eddy County, NM

February 20, 2020



Novo's Acreage Position

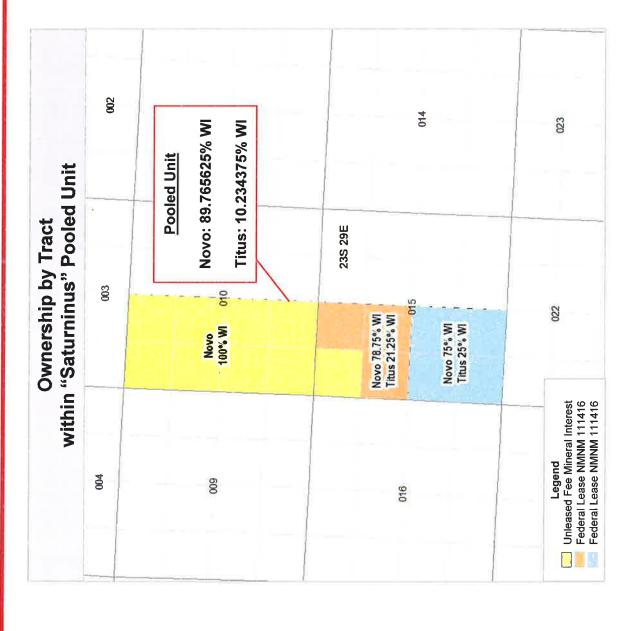


Santa Fe, New Mexico

Exhibit No. 1



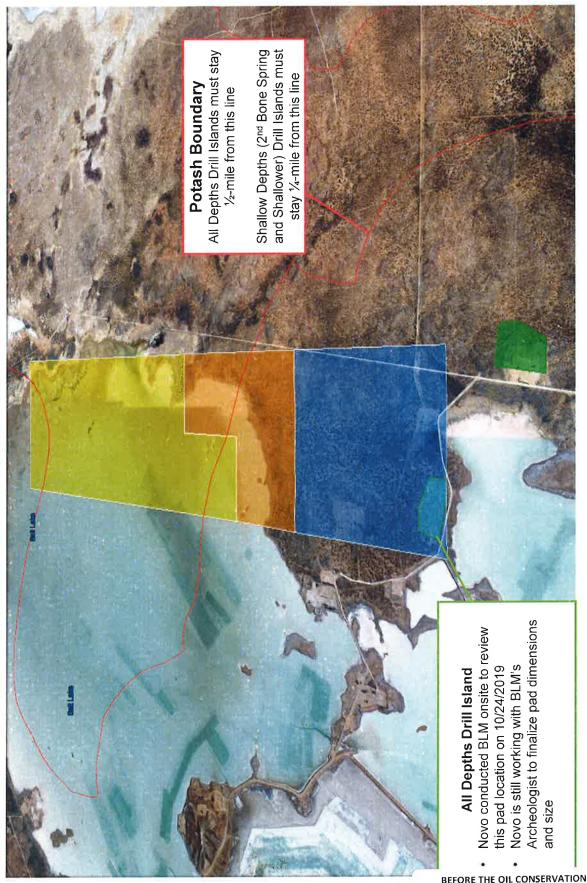
Ownership Overview



Case Nos. 21037-21040



Surface & Potash Constraints



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 3 Submitted by: Novo Oil & Gas, LLC

Hearing Date: February 20, 2020 Case Nos. 21037-21040

District J 1625 N. French Dr., Hobbs, NVI 88240 District H

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd , Artec. NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87565

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

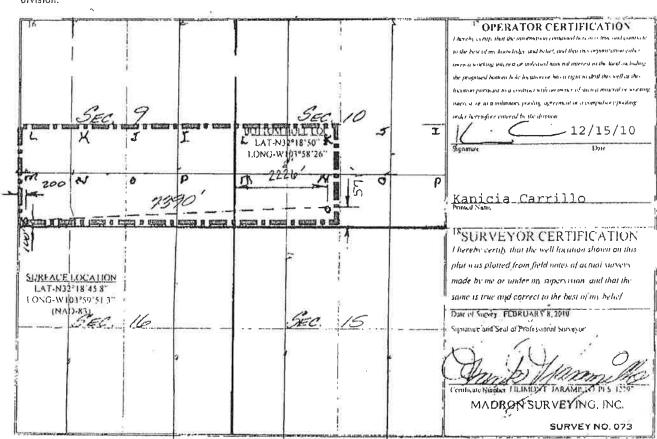
Form C-102 Revised October 15,2009 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-01	API Numbe 5 - 3794			9672	lado; Bon	Bone Spring				
	Property Code 302644 USP FEE									
'ogrid 22913				C	OG OPERA	Name TING LLC			* Elevation 2957.1*	
					10 Surface	Location				
UL or lot no.	Section 9	Township 23 S.	Hange 29 E.	Lot Idn	Feet from the	North/South line SOUTH	Feet from the 200	EasiAV est line WEST	EDDY	

M	9	23 S.	29 E.		100	SOUTH	200	WEST	EDDY
			n Bo	nttom Ho	le Location 1	f Different From	m Surface		
l'I, or lui no N	Section 10	Township 23 S.	Range 29 E.	Lot Idn	feet from the 571	SOUTH	Feet from the 2226	WEST	County EDDY
Pedicated Acres	13 Jaint o	r Infili	onsalidation	Code "O	rder No.				



Reason for Depth-Severed Pooling Apps: Concho's 1st BS Well and Shallow Rights





and Concho's USP Fee #3H Unit

903

904

05

600

08

 Concho filed Partial Release of Oil and Gas Lease (Book: 1,100 Page: 727)

Concho's lease expired below 7,838' in S/2SW/4 of Sec. 10-23S-29E

1st Bone Spring well - 7,741' TVD

Concho retained depths from surface to 7,838'

 Novo filed depth-severed pooling applications to avoid overlap with Concho's leased depths Titus's Bone Spring pooling applications overlap with Concho's lease, creating ownership issues

written confirmation that Concho does not oppose Novo's depth-Novo notified Concho of Novo's "Saturninus" plans and obtained severed pooling applications.

From: Buck Underwood <BUnderwood@concho.com>

23S 29E

Sent: Thursday, February 13, 2020 4:40 PM

Fo: Brandon Patrick

Spatrick@novoog.com>

Subject: RE: [External] Re: W/2 of Section 10 and W/2 of Section 15-T23S-R29E, Eddy County, NM Cc: Ashley Roush <ARoush@concho.com>

Concho does not oppose Novo's depth severed pooling applications as they have been presented. Concho filed releases for the acreage described in the pooling application and acknowledges that Concho does not currently have any interest in the wells that Novo is applying for.

Thank you,

Buck Underwood | Senior Landman - Northern Delaware Basin | COG Operating LLC 600 W. Illinois Avenue | Midland, TX 79701 | (d) 432.688.6644 | (m) 432.638.2926



Santa Fe, New Mexico Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

Michael Feldewert

Subject:

FW: [External] Re: W/2 of Section 10 and W/2 of Section 15-T23S-R29E, Eddy County, NM

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 6
Submitted by: Novo Oil & Gas, LLC
Hearing Date: February 20, 2020
Case Nos. 21037-21040

From: Buck Underwood <BUnderwood@concho.com>

Sent: Thursday, February 13, 2020 3:40 PM **To:** Brandon Patrick
 Co: Ashley Roush <ARoush@concho.com>

Subject: RE: [External] Re: W/2 of Section 10 and W/2 of Section 15-T23S-R29E, Eddy County, NM

THIS EMAIL IS FROM AN EXTERNAL SENDER. USE CAUTION WITH LINKS AND ATTACHMENTS!

Brandon,

Concho does not oppose Novo's depth severed pooling applications as they have been presented. Concho filed releases for the acreage described in the pooling application and acknowledges that Concho does not currently have any interest in the wells that Novo is applying for.

Thank you,

Buck Underwood | Senior Landman - Northern Delaware Basin | COG Operating LLC 600 W. Illinois Avenue | Midland, TX 79701 | (d) 432.688.6644 | (m) 432.638.2926

From: Brandon Patrick < bpatrick@novoog.com>
Sent: Thursday, February 13, 2020 9:37 AM

To: Buck Underwood < BUnderwood@concho.com>

Cc: Ashley Roush < ARoush@concho.com >

Subject: Re: [External] Re: W/2 of Section 10 and W/2 of Section 15-T23S-R29E, Eddy County, NM

Buck and Ashley,

Novo has pooling applications for 2-mile wells to develop the W/2 of Sections 10 and 15, 23S-29E (we call this "Saturninus"). Those applications will be heard next Thursday 2/20/2020 (Cases 21037, 21038, 21039, 21040). Concho has a 1st Bone Spring well (the USP Fee #003H) that cuts through the S/2 SW/4 of Sec. 10, and that well is holding an oil and gas lease covering depths from surface to 7,838' (i.e. the base of the 1st Bone Spring).

To accommodate the USP Fee #003H and Concho's shallow lease rights, we depth-severed our 2-mile pooling applications to only cover from 7,839' to the base of Bone Spring. Further, we will only drill 2nd Bone Spring and 3rd Bone Spring wells under the 2-mile pooling applications (i.e. we won't drill 1st Bone Spring wells).

Every time we have filed depth-severed pooling applications, the NMOCD has asked me for proof that we worked with the owners/operators of the excluded depths. Buck, you sent me a similar email for our "Astrodog" unit (see attached email) back in November. Do you mind sending me an email saying that Concho doesn't oppose Novo's pooling applications for Cases 21037, 21038, 21039, and 21040?

Here is a summary of our pooling applications:

Case 21037: Top of BS to 7,839' covering W2W2 of Sec. 15 (1st Bone Spring)

Case 21038: 7,839' to base Bone Spring W2W2 of Sections 10 and 15

Case 21039: 7,839' to base Bone Spring E2W2 of Sections 10 and 15

Case 21040: Wolfcamp for W2 of Sections 10 and 15

We're an open book. Don't hesitate to let me know if you need any additional information or would like to discuss further.

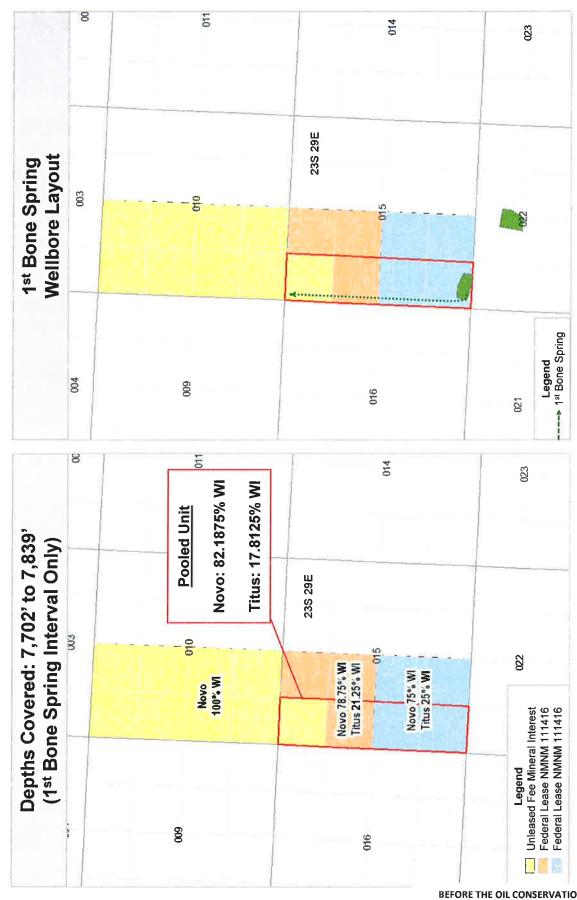
Best,

Brandon Patrick

Novo Oil & Gas, LLC 1001 West Wilshire Boulevard, Suite 206 Oklahoma City, OK 73116 Office: 405-286-4197 Cell: 405-650-9081



Ownership - Case 21037



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Exhibit No. 7
Submitted by: Novo Oil & Gas, LLC

Hearing Date: February 20, 2020 Case Nos. 21037-21040 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

14	API Numbe	r		² Pool Cod	le		³ Pool Na	ame				
4 Property C	Code		-		⁵ Prope	⁵ Property Name ⁶ Well N						
				SA	ATURNINU	IS FED COM 15				111H		
⁷ OGRID I	No.				⁸ Opera	ator Name				⁹ Elevation		
37292	0		NOV	O OIL &	GAS NOR	THERN DELAWA	RE, LLC			2969.0		
			□ Surface Location									
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/W	est line	County		
M	15	23 S	29 E		248	SOUTH	523	WE	ST	EDDY		
			n I	Bottom F	Iole Locati	ion If Different Fr	om Surface					
UL or lot no.	Section	Townshi	p Range	Lot ldn	Feet from th	e North/South line	Feet from the	East/W	est line	County		
D	15	23 S	29 E		50	NORTH	330	WE	ST	EDDY		
12 Dedicated Acres	s 13 Joint	or Infill	14 Consolidation	n Code		***************************************	15 Order No.			70-		

	N89°54′32″E	2634.49 FT	N89 ⁻ 54 ['] 30"E	2635.67 FT	"OPERATOR CERTIFICATION	
-	330	NW CORNER SEC. 15	N/4 CORNER SEC. 15	NE CORNER SEC		I hereby certify that the information contained herein is true and complete
	воттом	LAT. = 32.3124611'N	LAT. = 32.3124485'N LONG. = 103.9726020'W	LAT. = 32.31243 LONG. = 103.96407		to the best of my knowledge and belief, and that this organization either
	OF HOLE	LONG. = 103.9811277'W NMSP EAST (FT)	NMSP EAST (FT)	NMSP EAST		owns a working interest or unleased mineral interest in the land including
t	_LTP	N = 477584.48	N = 477588.67	N = 47759	2.89 	the proposed bottom hole location or has a right to drill this well at this
2.000	l i	E = 650145.47	E = 652779.37	E = 6554	4.45	location pursuant to a contract with an owner of such a mineral or working
7.5		BOTTOM OF HOLE	Į.	I		interest, or to a voluntary pooling agreement or a compulsory pooling order
2657.56		LAT. = 32.3123222'N	1	l	2659.9	heretofore entered by the division.
		LONG. = 103.9800604'W NMSP EAST (FT)				
88	₩ L	N = 477535.01	İ	1	80	
2,1	23 23	E = 650475.36	r i	ĺ	60	Signature Date
NO0'02'18"E	22.	LAST TAKE POINT	Î		\$00.18.38	
ž	NOON 2212	100' FNL, 330' FWL LAT. = 32.3121847'N		1	S	Printed Name
		LONG. = 103.9800610'W		1		
	W/4 ¢ORNER SEC. 15 LAT. ⇒ 32.3051576'N	1	1	E/4 CORNER SEC		
	LONG. I= 103.9811617'W			LAT. = 32.3051: LONG. = 103.9640		E-mail Address
	NMSP EAST (FT)	+		NMSP EAST	(FT)	
	N = 474927.51 E = 650143.69	FIRST TAKE POINT		N = 4749		SURVEYOR CERTIFICATION
	1	100' FSL, 330' FWL LAT. = 32.2981078'N		E = 6554	28.87	I hereby certify that the well location shown on this plat
-		LONG. = 103.9801267'W			Ŀ	was plotted from field notes of actual surveys made by
1		SATURNINUS FED C	1016 45 4447	ľ	1	me or under my supervision, and that the same is true
2665.07		ELEV. = 2969.0'	UM IS IIIH		9.99	
99		$LAT_{\bullet} = 32.2985146$ N			2659.	and correct to the best of my belief.
00.5		LONG. = 103.979500 NMSP EAST (FT)	1.M		2	FEBRUARY 14, 2020
ω,		N = 472512.57		1	38.	Date of Survey
2,1		E = 650665.03		1	00	A STANKEN //
NO0'02'18"E	1	CW CODNED CEO 45	C/4 000NED CEO 45	CE CODNED CE	1. 6	
2	SURFACE		S/4 CORNER SEC, 15 LAT. = 32,2978295'N	SE CORNER SEC	. 15 OS	A NAVA 12H SAV NEV
	LOCATION	LONG. = 103.9811958'W	LONG. = 103.9726188'W	LONG. = 103.9640	84'W	
-	523	NMSP EAST (FT)	NMSP EAST (FT)	NMSP EAST		Signature and Seal of Workssional Surveyor
	FTP	N = 472263.03 E = 650141.91	N = 472270.41 E = 652792.08	N = 4722 E = 6554		Certificate Number: Colombia Control PLS 12797
	S89'50'26"W		S89'55'08"W			10/ Lada V. No. 7970



Brandon Patrick Land Manager Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd, Suite 206 Oklahoma City, Oklahoma 73116 Office: 405-286-4197 bpatrick@novoog.com

December 9, 2019

Titus Oil & Gas Production, LLC 100 Throckmorton St., Suite 1630 Fort Worth, Texas 76102

Re:

Saturninus Fed 15 - 1st Bone Spring W/2 W/2 Unit W/2 W/2 of Section 15, Township 23 South, Range 29 East Eddy County, New Mexico 160-acre Working Interest Unit

Dear Working Interest Owner:

Reference is made to three (3) letters dated September 4, 2019 (the "September 4 Letters") sent by Novo Oil & Gas Northern Delaware, LLC ("Novo"). In the September 4 Letters, Novo proposed 2-mile horizontal wells to develop the 1st Bone Spring in the W/2 of Section 10 and the W/2 of Section 15, Township 23 South, Range 29 East, Eddy County, New Mexico. Due to an existing horizontal 1st Bone Spring well (the USP Fee #003H) traversing the S/2 SW/4 of Section 10, Novo has chosen to amend its 1st Bone Spring development plans. The purpose of this letter is to propose Novo's amended 1st Bone Spring development plan for the W/2 W/2 of Section 15. Novo's 1st Bone Spring development plan for the E/2 W/2 of Section 15 is set forth in a separate letter.

Novo hereby proposes the drilling of one (1) horizontal well, as more particularly set forth below. The estimated cost of drilling, testing, completing and equipping the well is itemized on the enclosed Authority for Expenditure ("AFE") attached hereto.

Proposed Well

1. Saturninus Fed Com 15 111H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East. First Take Point: 100' FSL & 330' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 100' FNL & 330' FWL of Section 15, Township 23 South, Range 29 East BHL: NW/4 NW/4 of Section 15, Township 23 South, Range 29 East. The W/2 W/2 of Section 15 will be dedicated to the well as its 160-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 7,776 feet subsurface to evaluate the 1st

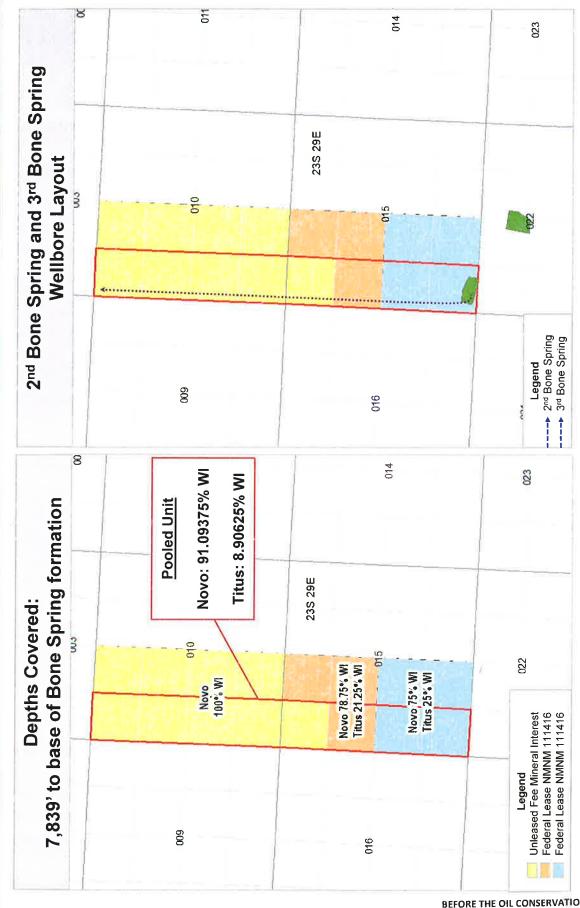
Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 12,776 feet.

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

Please indicate below whether Titus elects to participate in the proposed well. If Titus elects to participate, please also execute the enclosed AFE and return to the attention of the undersigned within thirty (30) days from receipt of this letter. Should you have any questions regarding this letter, please call me at 405-286-4197 or email me at bpatrick@novoog.com. Sincerely, Novo Oil & Gas Northern Delaware, LLC **Brandon Patrick** Land Manager Titus's Election Titus Oil & Gas Production, LLC hereby elects to: NOT participate in the Saturninus Fed Com 15 111H. participate in the Saturninus Fed Com 15 111H for its proportionate share of the costs. Titus Oil & Gas Production, LLC Printed Name: _____ Title:



Ownership - Case 21038



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 9

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

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
Pictrical IV

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

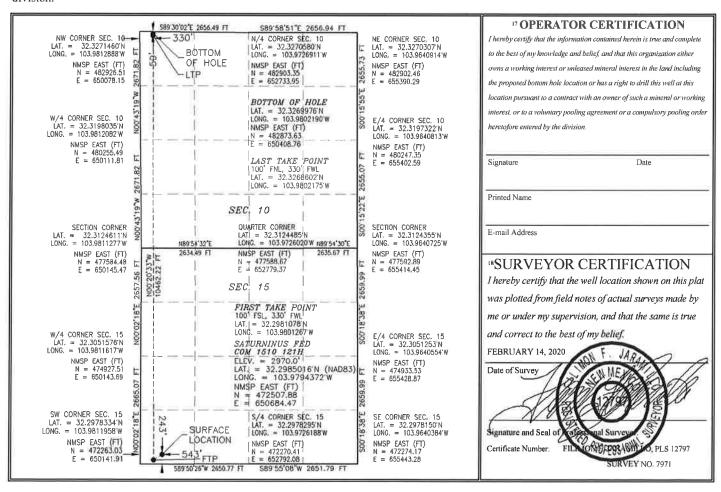
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	г		² Pool Cod	e		³ Pool Na	me			
4 Property	Code				⁵ Property	Name			⁶ Well Number		
				SA	TURNINUS FI	ED COM 1510				121H	
7 OGRID	No.				8 Operator	Name			⁹ Elevation		
37292	0		NOV		2970.0						
					[™] Surfac	e Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County	
M	15	23 S	29 E		243	SOUTH	543	WE	ST	EDDY	
			п	Bottom F	Hole Location	If Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/We	est line	County	
D	10	23 S	23 S 29 E 50 NORTH 330 WEST								
12 Dedicated Acre	s ¹³ Joint	or Infill 14	Consolidation	n Code	¹⁵ Order No.						



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

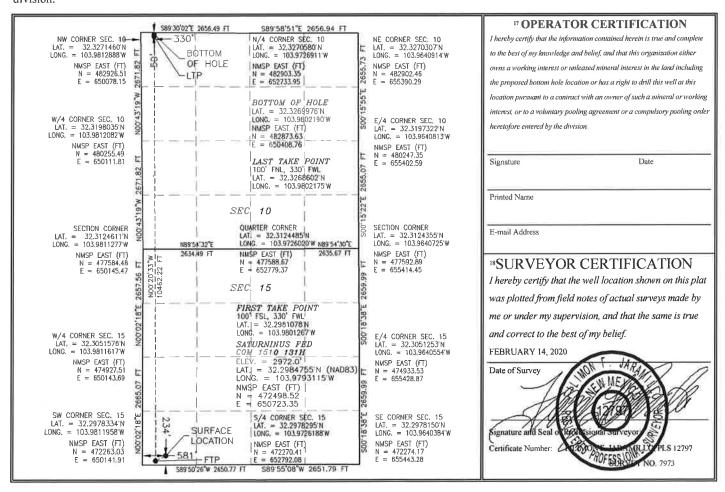
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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	г			² Pool C	ode ³ Pool Name						
4 Property (Code					⁵ Pr	operty l	Name			⁶ Well Number	
					S	ATURNIN	US FI	ED COM 1510				131H
7 OGRID I	No.					8 Ol	erator :	Name			⁹ Elevation	
37292	0			NOV	OOIL	& GAS NO	RTH	ERN DELAWA	RE, LLC		2972.0	
[™] Surface Location												
UL or lot no.	Section	Townsh	ip F	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/W	est line	County
M	15	23 S	2	29 E		234		SOUTH	581	WE	ST	EDDY
				11 E	Bottom	Hole Loca	ation	If Different Fr	om Surface			
UL or lot no.	Section	Townsh	ip F	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/W	est line	County
D	10	23 S	2	29 E		50		NORTH	330	WE	ST	EDDY
12 Dedicated Acre	s ¹³ Joint	or Infill	14 Cons	Consolidation Code 15 Order No.								





Ownership - Case 21039



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Exhibit No. 10 Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

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

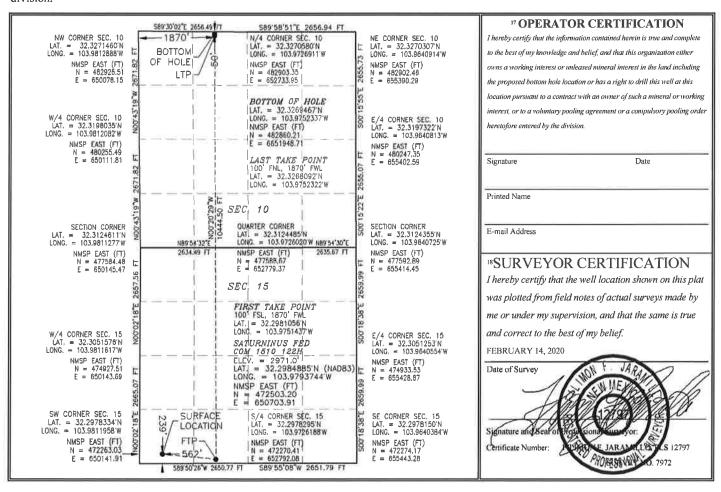
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1,	API Numbe	r		² Pool C	ode		³ Pool N	ame			
4 Property C	Code				5 Prop	erty Name			⁶ Well Number		
				S	ATURNINUS	S FED COM 1510				122H	
⁷ OGRID 1	No.				8 Oper	ator Name			⁹ Elevation		
37292	0		NO	2971.0							
	¹⁰ Surface Location										
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/W	est line	County	
M	15	23 S	29 E		239	SOUTH	562	WE	ST	EDDY	
			11	Bottom	Hole Locati	ion If Different I	From Surface				
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/W	est line	County	
C	10	23 S	23 S 29 E 50 NORTH 1870 WEST EDD								
12 Dedicated Acre	s ¹³ Joint	or Infill 14 Consolidation Code 15 Order No.									



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

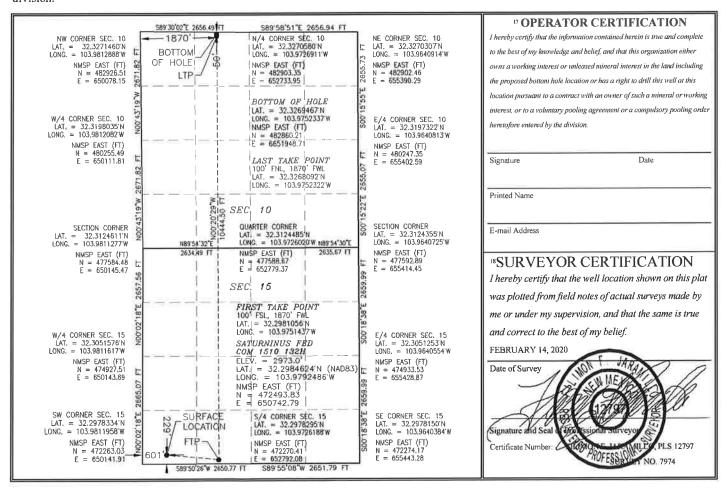
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

■ AMENDED REPORT

WELL	IO	CATION	ANID	ACDEAGE	DEDICATION P	TAT
\mathbf{w}			Δ IN I	ALKEAUTE	. I JELJIU A LIUJN P	LAI

I.	API Numbe	r		² Pool Code	e	³ Pool Name						
4 Property	Code				5 Property	Name		1	⁶ Well Number			
				SAT	TURNINUS FI	ED COM 1510			132H			
7 OGRID	No.				⁸ Operator Name ⁹ Elevation							
37292	0		NOV	O OIL &	L & GAS NORTHERN DELAWARE, LLC 2973.0							
	" Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	t line County			
M	15	23 S	29 E		229	SOUTH	601	WES	T EDDY			
			n F	3ottom H	lole 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/West	t line County			
C	10	23 S	29 E		50 NORTH 1870 WEST							
12 Dedicated Acre	s 13 Joint	or Infill	Consolidation	n Code			¹⁵ Order No.					





Ownership - Case 21040

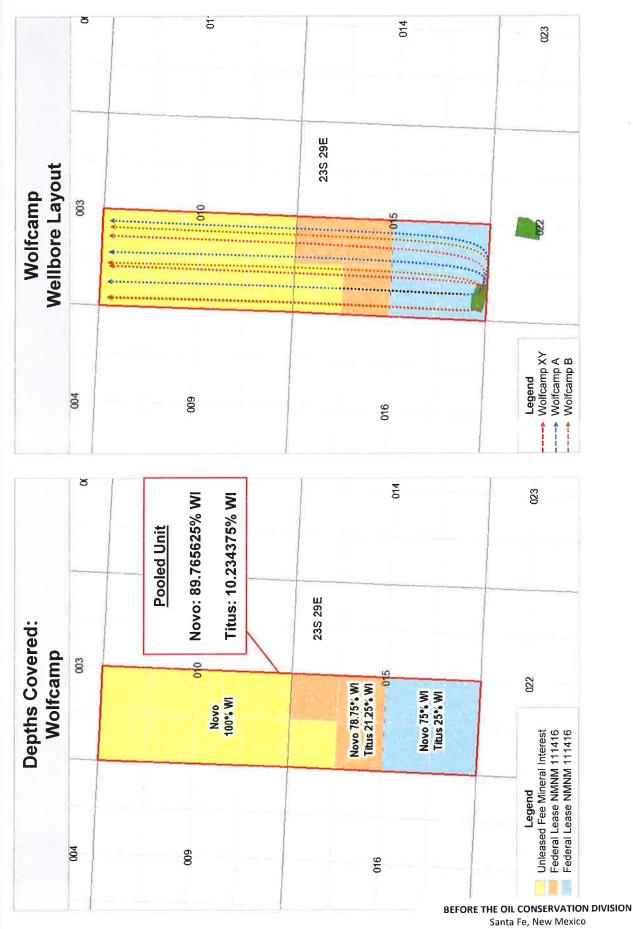


Exhibit No. 11
Submitted by: Novo Oil & Gas, LLC
Hearing Date: February 20, 2020
Case Nos. 21037-21040

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

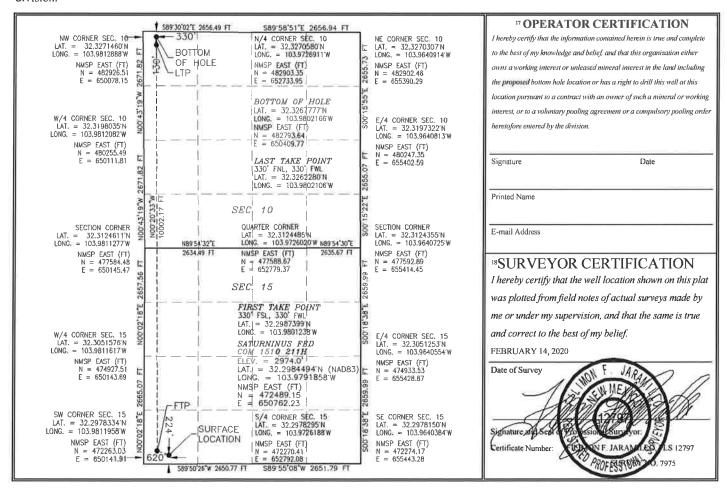
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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	r		² Pool Cod	e		³ Pool Na	me			
4 Property 0	Code				⁵ Property	Name			⁶ Well Number		
				SA	TURNINUS F	ED COM 1510			211H		
OGRID 1	No.				⁸ Operator Name ⁹ Ele					⁹ Elevation	
37292	0		NOVO OIL & GAS NORTHERN DELAWARE, LLC								
	□ Surface Location										
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/Wo	est line	County	
M	15	23 S	29 E		224	SOUTH	620	WE	ST	EDDY	
			11 F	Bottom F	Iole 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	
D	10	23 S	23 S 29 E 130 NORTH 330 WEST EDDY								
12 Dedicated Acre	s ¹³ Joint	or Infill 14 Consolidation Code 15 Order No.									



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

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

District IV

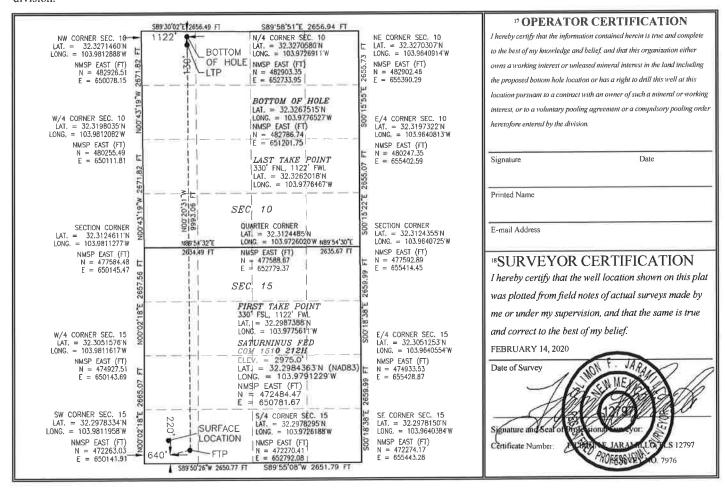
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

WEL	ΤŢ	OC	ATIO	JAND	ACREA	GE DED	DIC A	TION P	[AT
VV 1217		ли.	/- 1 1 1 1	N AINIA		VV 11 / 121 /1.			

1 /	API Number	r		² Pool Code	•		³ Pool Na	me			
4 Property C	Code				⁵ Property I	Name			⁶ Well Number		
				SAT	TURNINUS FE	ED COM 1510				212H	
7 OGRID	No.				8 Operator I	Name				⁹ Elevation	
37292	0		NOV	O OIL &	GAS NORTH	ERN DELAWA	RE, LLC		2975.0		
					10 Surface	e Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
M	15	23 S	29 E		220	SOUTH	640	WE	ST	EDDY	
			11 F	3ottom H	lole 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/W	est line	County	
D	10	23 S	23 S 29 E 130 NORTH 1122 WEST ED								
12 Dedicated Acre	s ¹³ Joint	or Infill 14	Infill 14 Consolidation Code 15 Order No.								



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

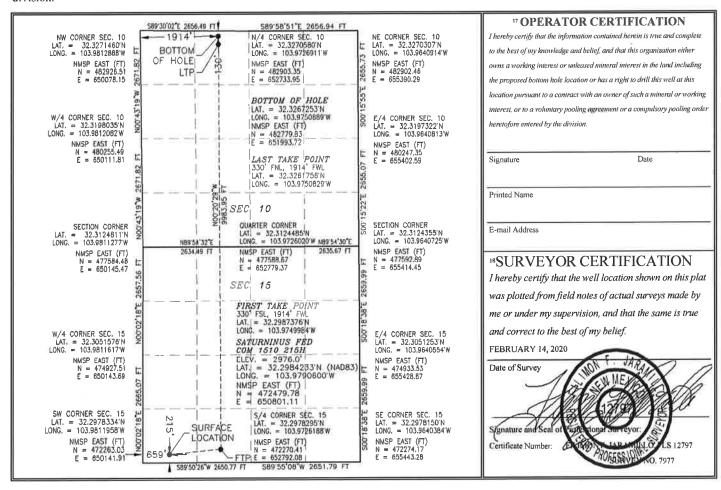
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	r	² Pool Code ³ Pool Name							
4 Property	Code		5 Property Name 6 Well No SATURNINUS FED COM 1510 21:							
⁷ OGRID 37292		Operator Manie						⁹ Elevation 2976.0		
			¹⁰ Surface Location							
UL or lot no.	Section 15	Township 23S	Range 29E	Lot ldn	Feet from the 215	North/South line SOUTH	Feet from the 659	East/West lit WEST	County EDDY	
			11 J	Bottom H	ole Location	If Different Fr	om Surface			

					JOHO III I	OIO ECONOTOII	11 2 1111010110 1 1			
Ì	UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	C	10	23S	29E		130	NORTH	1914	WEST	EDDY
	12 Dedicated Acre	s ¹³ Joint	or Infill	¹⁴ Consolidatio	n Code			¹⁵ Order No.		



District1 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

District IV

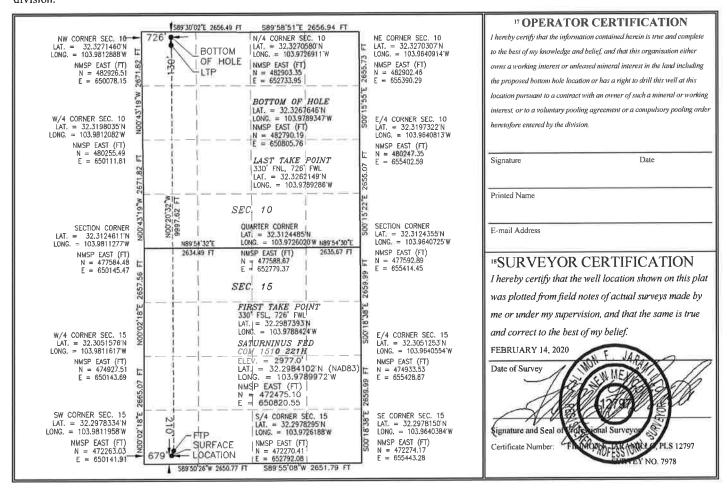
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	ber ² Pool Code ³ Pool Name									
⁴ Property C	Code				5 Property	Name			⁶ Well Number		
				SA	TURNINUS FI	ED COM 1510				221H	
7 OGRID	No.				⁸ Operator	Name				⁹ Elevation	
37292	0		NOVO OIL & GAS NORTHERN DELAWARE, LLC 2977.0								
			[™] Surface Location								
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
M	15	23 S	29 E		210	SOUTH	679	WE	ST	EDDY	
			11 J	Bottom H	Iole Location	If Different Fr	om Surface				
UL or lot no.	Section	Townshi	Township Range Lot Idn Feet from the North/South line Feet from the East/West line Cou							County	
D	10	23 S	29 E		130	NORTH	726	WE	ST	EDDY	
12 Dedicated Acre	s ¹³ Joint	or Infill	14 Consolidation	n Code		¹⁵ Order No.					



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

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

District IV

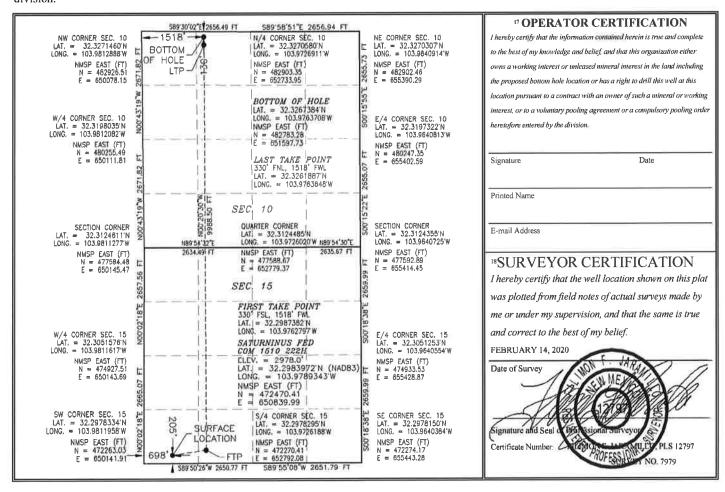
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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	•		² Pool Co	Code ³ Pool Name							
4 Property (Code				5 Property	Name			6 Well Number			
				SA	TURNINUS F	ED COM 1510				222H		
7 OGRID	No.		8 Operator Name 9 Elevation									
37292	0		NOVO OIL & GAS NORTHERN DELAWARE, LLC 2978.0									
		¹⁰ Surface Location										
UL or lot no.	Section	Townsh	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County		
M	15	23 S	29 E		205	SOUTH	698	WE	ST	EDDY		
11			ս]	3ottom 1	Hole Location	n If Different Fr	om Surface					
UL or lot no.	Section	Townsh	ownship Range Lot Idn Feet from the North/South line Feet from the East/West line							County		
C	10	23 S	23 S 29 E 130 NORTH 1518 WEST 1						EDDY			
12 Dedicated Acre	s ¹³ Joint	int or Infill 14 Consolidation Code 15 Order No.										



District 1 1625 N, French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District 11 811 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

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

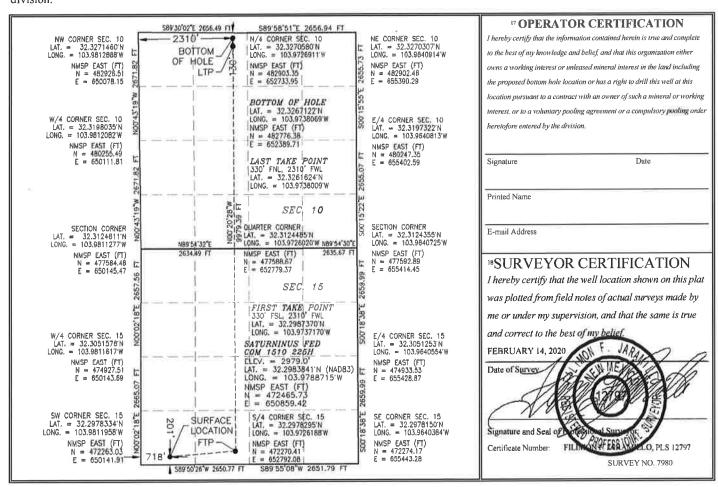
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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 Coo	Code ³ Pool Name							
4 Property C	Code		⁵ Property Name ⁶ Well Number									
			SATURNINUS FED COM 1510 225H									
OGRID!	No.		⁸ Operator Name ⁹ Elevation									
37292	0		NOVO OIL & GAS NORTHERN DELAWARE, LLC 2979.0									
			¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/Wo	est line	County		
M	15	23 S	29 E		201	SOUTH	718	WE	ST	EDDY		
			11 J	Bottom I	Hole 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/West line C							County			
C	10	23 S 29 E 130 NORTH 2310 WEST							EDDY			
^{f2} Dedicated Acre	s 13 Joint	Joint or Infill 14 Consolidation Code 15 Order No.										
		1										



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

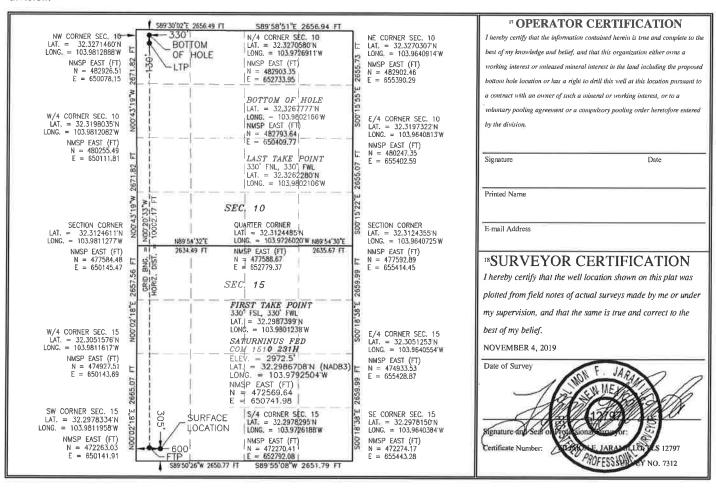
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name	
⁴ Property Code	5 Pr	operty Name	⁶ Well Number
	SATURNINI	US FED COM 1510	231H
OGRID No.	⁶ OI	⁹ Elevation	
372920	NOVO OIL & GAS NO	2972.5	
N. C.	~	C T '	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	23 S	29 E		305	SOUTH	600	WEST	EDDY
			" B	ottom Ho	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/West line	County
D	10	23 S	29 E		130	NORTH	330	WEST	EDDY
12 Dedicated Acre	s ¹³ Joint	or Infill 14	Consolidation	Code			15 Order No.		
	1								



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 III
1220 S, St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

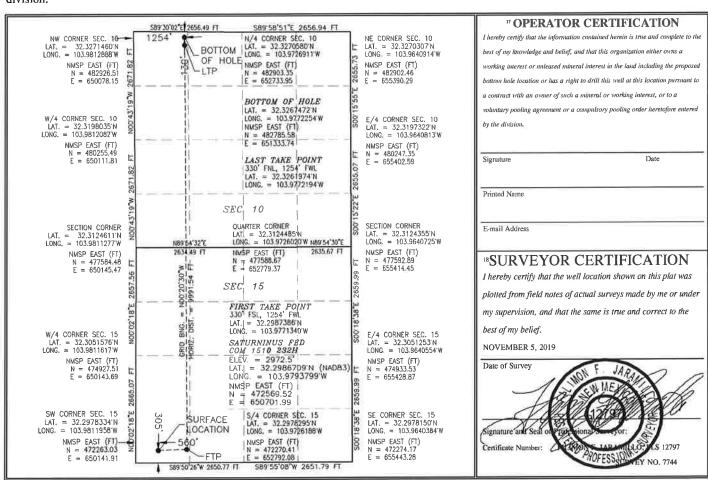
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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 Cod	le			³ Pool Na	ime		
⁴ Property (Code				5 Pro	perty N	lame			6	Well Number
				SA	TURNINU	IS FE	D COM 1510				232H
OGRID 1	No.		⁸ Operator Name ⁹ Elevation								
37292	0		NOVO OIL & GAS NORTHERN DELAWARE, LLC 2972.5								
	•				¹⁰ Sur	rface	Location				
UL or lot no.	Section	Townsh	ip Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	est line	County
M	15	23 S	29 E		305		SOUTH	560	WE	ST	EDDY
			п <u>В</u>	ottom H	ole Locat	ion I	f Different Fr	om Surface			
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	est line	County
D	10	23 S	29 E		130		NORTH	1254	WE	ST	EDDY
12 Dedicated Acre	s ¹³ Joint	or Infill	Infill								



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

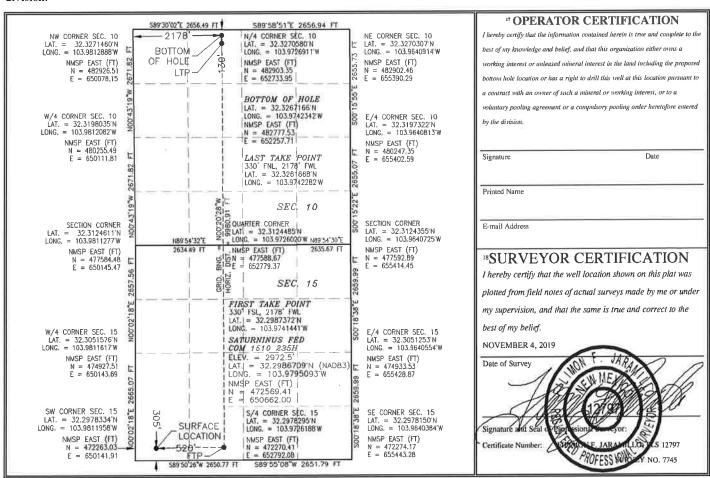
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /	API Number	ber ² Pool Code					³ Pool Name				
⁴ Property (Code		⁵ Property Name ⁶ Well Numb								
		SATURNINUS FED COM 1510							235H		
OGRID 1	No.	⁸ Operator Name							⁹ Elevation		
37292	0		NOV	O OIL &	GAS NORTH	ERN DELAWAI	RE, LLC		2972.5		
			Township Range Lot Idn Feet from the North/South line Feet from the East/West line County								
UL or lot no.	Section	Township							County		

Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
15	23 S	29 E		305	SOUTH	520	WEST	EDDY
		" B	ottom Ho	ole Location	If Different Fr	om Surface		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
10	23 S	29 E		130	NORTH	2178	WEST	EDDY
s 13 Joint	or Infill 14 (Consolidation	Code			15 Order No.		
	Section 10	15 23 S Section Township 10 23 S	15 23 S 29 E 10 Township Range 10 23 S 29 E	15 23 S 29 E " Bottom Ho Section Township Range Lot Idn 10 23 S 29 E	15 23 S 29 E 305	15	15	15 23 S 29 E 305 SOUTH 520 WEST " Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the from the freet from the last/West line NORTH Feet from the last/West line WEST 10 23 S 29 E 130 NORTH 2178 WEST





Brandon Patrick Land Manager Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd, Suite 206 Oklahoma City, Oklahoma 73116 Office: 405-286-4197 bpatrick@novoog.com

December 9, 2019

Titus Oil & Gas Production, LLC 100 Throckmorton Street, Suite 1600 Ft. Worth, TX 76102

Re: Amended Saturninus Fed Com 15/10 Bone Spring Working Interest Unit (WIU):

W/2 of Sections 10, Township 23 South, Range 29 East W/2 of Section 15, Township 23 South, Range 29 East Eddy County, New Mexico 640-acre Working Interest Unit

Ladies and Gentlemen:

Reference is made to three (3) letters dated September 4, 2019 (the "September 4 Letters") sent by Novo Oil & Gas Northern Delaware, LLC ("Novo"). In the September 4 Letters, Novo proposed horizontal wells to develop the Bone Spring and Wolfcamp formations in the W/2 of Section 10 and the W/2 of Section 15, Township 23 South, Range 29 East, Eddy County, New Mexico. The September 4 Letters contained a few minor errors. The purpose of this letter is to correct those errors and re-propose Novo's development plans for the 2nd Bone Spring, 3rd Bone Spring, and Wolfcamp.

Novo hereby proposes the drilling of thirteen (13) horizontal wells, 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" or "AFEs") attached hereto.

Proposed Wells

1. Saturninus Fed Com 1510 121H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 100' FSL & 330' FWL of Section 15, Township 23 South, Range 29 East
Last Take Point: 100' FNL & 330' FWL of Section 10, Township 23 South, Range 29 East
BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 W/2 of Section 10 and the W/2 W/2 of Section 15 will be dedicated to the well as its 320-

The W/2 W/2 of Section 10 and the W/2 W/2 of Section 15 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 8,696 feet subsurface to evaluate the 2nd Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 18,696 feet.

2. Saturninus Fed Com 1510 122H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 100' FSL & 1,870' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 100' FNL & 1,870' FWL of Section 10, Township 23 South, Range 29 East BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The E/2 W/2 of Section 10 and the E/2 W/2 of Section 15 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 8,731 feet subsurface to evaluate the 2nd Bone Spring formation. The proposed well will have a measured

depth (MD) of approximately 18,731 feet.

3. Saturninus Fed Com 1510 131H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 100' FSL & 330' FWL of Section 15, Township 23 South, Range 29 East

Last Take Point: 100' FNL & 330' FWL of Section 10, Township 23 South, Range 29 East

BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 W/2 of Section 10 and the W/2 W/2 of Section 15 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 9,916 feet subsurface to evaluate the 3rd Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 19,916 feet.

4. Saturninus Fed Com 1510 132H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 100' FSL & 1,870' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 100' FNL & 1,870' FWL of Section 10, Township 23 South, Range 29 East

BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The E/2 W/2 of Section 10 and the E/2 W/2 of Section 15 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 9,936 feet subsurface to evaluate the 3rd Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 19,936 feet.

5. Saturninus Fed Com 1510 211H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 330' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 330' FWL of Section 10, Township 23 South, Range 29 East

BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,066 feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have a measured depth (MD) of approximately 20,066 feet.

6. Saturninus Fed Com 1510 212H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 1,122' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 1,122' FWL of Section 10, Township 23 South, Range 29 East BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,091 feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have a measured depth (MD) of approximately 20,091 feet.

7. Saturninus Fed Com 1510 215H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 1.914' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 1,914' FWL of Section 10, Township 23 South, Range 29 East BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,106 feet subsurface to evaluate the Wolfcamp XY formation. The proposed well will have a measured depth (MD) of approximately 20,106 feet.

8. Saturninus Fed Com 1510 221H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 726' FWL of Section 15, Township 23 South, Range 29 East

Last Take Point: 330' FNL & 726' FWL of Section 10, Township 23 South, Range 29 East

BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,236 feet subsurface to evaluate the Wolfcamp A formation. The proposed well will have a measured depth (MD) of approximately 20,236 feet.

9. Saturninus Fed Com 1510 222H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 1,518' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 1,518' FWL of Section 10, Township 23 South, Range 29 East

BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,261 feet subsurface to evaluate the Wolfcamp A formation. The proposed well will have a measured depth (MD) of approximately 20,261 feet.

10. Saturninus Fed Com 1510 225H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 2,310' FWL of Section 15, Township 23 South, Range 29 East

Last Take Point: 330' FNL & 2,310' FWL of Section 10, Township 23 South, Range 29 East

BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,281 feet subsurface to evaluate the Wolfcamp A formation. The proposed well will have a measured depth (MD) of approximately 20,281 feet.

11. Saturninus Fed Com 1510 231H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 330' FWL of Section 15, Township 23 South, Range 29 East

Last Take Point: 330' FNL & 330' FWL of Section 10, Township 23 South, Range 29 East

BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,946 feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have a measured depth (MD) of approximately 20,946 feet.

12. Saturninus Fed Com 1510 232H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 1,254' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 1,254' FWL of Section 10, Township 23 South, Range 29 East

BHL: NW/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,961 feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have a measured depth (MD) of approximately 20,961 feet.

13. Saturninus Fed Com 1510 235H

SHL: SW/4 SW/4 of Section 15, Township 23 South, Range 29 East.

First Take Point: 330' FSL & 2,178' FWL of Section 15, Township 23 South, Range 29 East Last Take Point: 330' FNL & 2,178' FWL of Section 10, Township 23 South, Range 29 East

BHL: NE/4 NW/4 of Section 10, Township 23 South, Range 29 East.

The W/2 of Section 10 and the W/2 of Section 15 will be dedicated to the well as its 640-acre spacing unit. The well will be drilled to an approximate true vertical depth (TVD) of 10,976 feet subsurface to evaluate the Wolfcamp B formation. The proposed well will have a measured depth (MD) of approximately 20,976 feet.

Please indicate on the following pages whether Titus elects to participate in each of the wells. For each of the wells in which Titus elects to participate, please also execute the enclosed AFEs and return to the attention of the undersigned within thirty (30) days from receipt of this letter.

Novo provided its proposed Joint Operating Agreement form to Titus on September 27, 2019. Novo is still interested in executing a JOA covering the subject lands and depths. Please let us know if you have any questions regarding Novo's proposed form. Additionally, if you have any questions regarding this letter or Novo's development plans, please call or email me at bpatrick@novoog.com.

Sincerely,

Novo Oil & Gas Northern Delaware, LLC

Brandon Patrick Land Manager

Titus's Elections

Titus Oil & Gas Production, LLC hereby elects to:
NOT participate in the Cassius Fed Com 1510 121H.
participate in the Cassius Fed Com 1510 121H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 122H.
participate in the Cassius Fed Com 1510 122H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 131H.
participate in the Cassius Fed Com 1510 131H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 132H.
participate in the Cassius Fed Com 1510 132H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 211H.
participate in the Cassius Fed Com 1510 211H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 212H.
participate in the Cassius Fed Com 1510 212H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 215H.
participate in the Cassius Fed Com 1510 215H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 221H.
participate in the Cassius Fed Com 1510 221H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 222H.
participate in the Cassius Fed Com 1510 222H for its proportionate share of the costs.

NOT participate in the Cassius Fed Com 1510 225H.
participate in the Cassius Fed Com 1510 225H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 231H.
participate in the Cassius Fed Com 1510 231H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 232H.
participate in the Cassius Fed Com 1510 232H for its proportionate share of the costs.
NOT participate in the Cassius Fed Com 1510 235H.
participate in the Cassius Fed Com 1510 235H for its proportionate share of the costs.
*
Titus Oil & Gas Production, LLC
By:
Printed Name:
Title:
Date:



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 206
Oklahoma City, Oklahoma 73116
405-286-4391

ELL N	AME L LOCATION	Saturninus Fed Com 15 111H T23S, R29E, Sec 15 - T23S, R29E, Sec 15	AFE TYPE FIELD	Development Northern Delaware	AFE NUMBER DRILLING DAYS	2015167
JRFAC	E LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION	First Bone Spring	DEPTH (TVD/TMD)	7,776' / 12,776'
	I-HOLE LOCATION T DESCRIPTION	T23S, R29E, Sec 15 NW/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
	. JEOGRIF HON	Drilling, completion, facilities and pipeline cost Secretary Potash Area	to ioi o,uou nonzontal	well.		
CT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
DE 1	SURVEY/PERMITS/DAI	INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
-	LOCATION & ROAD	MAGES/LEGAL		\$ 50,000 175,000		\$ 50,00
-	RIG MOVE			150,000		175,00
-	DRILLING - FOOTAGE			85,000		85,00
5	DRILLING - DAYWORK			523,600		523.60
	COMPLETION/WORKO				60,000	60,00
-	COIL TUBING/SNUBBIN	IG UNIT			160,000	160,00
$\overline{}$	SLICKLINE/SWABBING					
-	BITS			100,000	5,000	105,00
\rightarrow	DIRECTIONAL SERVIC	E8		190,000		190,00
-	CASING CREW TOOL & EQUIPMENT R	ENTAL		80,000		80,00
-	FUEL & POWER	ENTAL		168,000	80,000	248,00
-	DIESEL - BASE FOR M	ID		126,000 100,000	100,000	226,00
-	MUD LOGGING & GEO			28,000		100,00
-	DISPOSAL, RESTORAT			150,000		150.00
	TRUCKING			150,000	40,000	190,00
	TESTING			100,000	10,000	130,01
	CEMENTING			160,000		160,00
0	PERFORATING			,	258,000	258,00
-	CASED HOLE LOGS					
-	DOWNHOLE TOOLS &	SERVICE		77,700	37,500	115,20
-	OTHER STIMULATION					
	FORMATION STIMULA				1,600,000	1,600,00
-	CONSULTING SERVICE	:5			20,000	20,00
-	SUPERVISION CONTRACT LABOR			132,000	100,000	232,0
-	OTHER LABOR			100,000	20,000	120,0
	COMPANY CONSULTIN	IG/SUPV		100,000	100,000	200,00
_	WATER	1G/30F V		50,000	450,000	540.0
-	FLUIDS & CHEMICALS			200,000	460,000	510,0
	CORING & ANALYSIS			200,000		200,00
-	COMMUNICATIONS			10,000	10,000	20.00
	BOP TESTING			20,000	10,000	30,0
3	FISHING TOOLS & SEF	VICES		20,000	10,000	50,01
7	INSPECTIONS			10,000	5,000	15,00
3	WIRELINE SERVICES					
	ENGINEERING & GEOI					
	ENGINEERING & GEOL	OGY - OFFICE		15,000		15,0
	MULTISHOT & GYRO					
	RE-ENTRY SERVICES					
	CAMPS & TRAILERS	1100		56,000	15,000	71,0
_	SAFETY EQUIPMENT &	i H2S		5,000	5,000	10,0
-	CONTINGENCY INSURANCE			40.000		
_	MISCELLANEOUS			10,000	2,000	12,0
	SIM-OPS			10,000	10,000	20,0
	TOTAL INTANGIBLE C	OSTS		\$ 3,031,300	\$ 3,097,500	\$ 6,128,8
		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
	CASING - CONDUCTOR	3		\$ 10,000	,,,,,,	\$ 10,0
	CASING - SURFACE			20,229		20,2
	CASING - INTERMEDIA			83,952		83,9
	CASING - INTERMEDIA					
_	CASING - PRODUCTIO			301,309		301,3
	SUBSURFACE EQUIPM	a designation of the second of		50,000	25,000	75,0
	PRODUCTION TUBING				74,360	74,3
-	SUBSURFACE PUMPIN					
-	WELLHEAD EQUIPMENT FLOWLINES	11		70,000	20,000	90,0
_	SURFACE PUMPING E	DUIPMENT			100,000	100,0
	LINER HANGER & ASS					
_	VALVES & FITTINGS				200,000	200,0
-	RODS				200,000	200,0
7	TRUCKING			50,000	10,000	60,0
_	RE-ENTRY EQUIPMEN					55,0
$\overline{}$	PRODUCTION EQUIPM	ENT			600,000	600,0
-	MISCELLANEOUS			10,000	10,000	20,0
$\overline{}$	TANGIBLE EQUIP-ACC					
+	TOTAL INTANGIBLE C	U313		\$ 595,490	\$ 1,039,360	\$ 1,634,8
	TOTAL ESTIMATED	WELL COST		\$ 3,626,790	\$ 4,136,860	\$ 7,763,65
					,,	,,
	TER BY	gloritor and the section of the sect				
rAF	RED BY:	Aaron Cattley		Senior Operations Engineer	DATE:	12/13/2019
ERATOR APPROVAL: For Kurt Shipley						Dien
EINTON AFFINOVAL.			VP - Operations	DATE:	- 12/14	
RA	TOR APPROVAL:	1- /all_		CEO or COO	DATE:	12/13/19
					DATE.	
_				01		
TNE	ER COMPANY NAME:			-		
LNL	ER APPROVAL:				P 4 77	
					_ DATE:	-
E:					DELOBE THE OIL O	

The costs of this AFE are estimates only. Participants in this project agree to pay their proportionate share of the actual costs. Please make a such as tubing, artificial lift or surface equipment may occur up to one year after the project has been initiated.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 13

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040



TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 206

WELL N	NAME	Saturninus Fed Com 1510 121H	AFE TYPE	Development	AFE NUMBER	2015147
LATER	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	22
	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4 T23S, R29E, Sec 10 NW/4 NW/4	FORMATION	Second Bone Spring	DEPTH (TVD/TMD)	8,696' / 18,696'
	M-HOLE LOCATION CT DESCRIPTION	Drilling, completion, facilities and pipeline co	COUNTY osts for 10.360' horizont	Eddy County al well.	STATE	New Mexico
''.		Secretary Potash Area				
ACCT.		DESCRIPTION OF EXPENDITURE INTANGIBLE COSTS		DRILLING (300)	COST ESTIMATE COMPLETION (500)	1
01	SURVEY/PERMITS/DAM			\$ 50,000		\$ 50,000
02	LOCATION & ROAD			175,000		175,000
03	RIG MOVE			150,000		150,000
04	DRILLING - FOOTAGE			85,000		85,000
05 06	DRILLING - DAYWORK COMPLETION/WORKO	VED BIC		633,600	60.000	633,600
07	COIL TUBING/SNUBBIN				60,000 160,000	60,000
08	SLICKLINE/SWABBING		Y- Y- II		100,000	0
09	BITS			100,000	5,000	105,000
10	DIRECTIONAL SERVIC	ES .		190,000		190,000
11	CASING CREW			80,000		80,000
12 13	TOOL & EQUIPMENT R	ENTAL		168,000 126,000	80,000 100,000	248,000
14	DIESEL - BASE FOR MI	ID.		100,000	100,000	226,000 100,000
	MUD LOGGING & GEO			28,000		28,000
16	DISPOSAL, RESTORAT	ION & BACKFILL		150,000		150,000
17	TRUCKING			150,000	40,000	190,000
18	TESTING					0
19	CEMENTING			160,000		160,000
20 21	PERFORATING CASED HOLE LOGS				358,000	358,000
22	DOWNHOLE TOOLS &	SERVICE		77,700	50,000	127,700
23	OTHER STIMULATION			11,100	50,000	127,700
24	FORMATION STIMULA	(0.51)			2,834,500	2,834,500
25	CONSULTING SERVICE	is .			20,000	20,000
26	SUPERVISION			132,000	100,000	232,000
27 28	CONTRACT LABOR OTHER LABOR			100,000	20,000	120,000
29	COMPANY CONSULTIN	G/SUPV		100,000	100,000	200,000
30	WATER			50,000	530,000	580,000
31	FLUIDS & CHEMICALS			200,000		200,000
32	CORING & ANALYSIS					0
33	COMMUNICATIONS			10,000	10,000	20,000
34 36	BOP TESTING FISHING TOOLS & SER	MOES		20,000	10,000	30,000
37	INSPECTIONS	VICES		10,000	5,000	15,000
38	WIRELINE SERVICES			10,000	5,000	15,000
39	ENGINEERING & GEOL	OGY - FIELD				0
40	ENGINEERING & GEOL	OGY - OFFICE		15,000		15,000
41	MULTISHOT & GYRO					0
42 43	RE-ENTRY SERVICES					0
44	CAMPS & TRAILERS SAFETY EQUIPMENT 8	H2S		56,000 5,000	15,000	71,000 10,000
45	CONTINGENCY	1120		5,000	5,000	10,000
46	INSURANCE			10,000	2,000	12,000
47	MISCELLANEOUS			10,000	10,000	20,000
49	SIM-OPS					0
_	TOTAL INTANGIBLE CO	TANGIBLE COSTS		\$ 3,141,300	\$ 4,514,500	The second second second
01	CASING - CONDUCTOR			DRILLING (400) \$ 10,000	COMPLETION (600)	TOTAL 10,000
02	CASING - SURFACE			20,229		20,229
03	CASING - INTERMEDIA			83,952		83,952
04	CASING - INTERMEDIA					0
05 06	CASING - PRODUCTION SUBSURFACE EQUIPM			440,926		440,926
07	PRODUCTION TUBING	ENI		50,000	25,000	75,000
08	SUBSURFACE PUMPIN	G EQUIPMENT			74,360	74,360
09	WELLHEAD EQUIPMEN			70,000	20,000	90,000
10	FLOWLINES	7077 W 1707 SC (1988)		3,547	100,000	100,000
11	SURFACE PUMPING EC					0
12	VALVES & FITTINGS	JC EQUIP			000.000	0
15	RODS				200,000	200,000
	TRUCKING			50,000	10,000	60,000
20	RE-ENTRY EQUIPMENT				15,530	0
	PRODUCTION EQUIPM	ENT			600,000	600,000
	MISCELLANEOUS	HELTIONE		10,000	10,000	20,000
	TANGIBLE EQUIP-ACQUITOTAL INTANGIBLE CO			\$ 735,107	¢ 400000	0
					\$ 1,039,360	\$ 1,774,467
	TOTAL ESTIMATED	WELL COST		\$ 3,876,407	\$ 5,553,860	\$ 9,430,267
REPAR	RED BY:	Aaron Cattley		Senior Operations Engineer	DATE:	2/19/2020
)PFRA	TOR APPROVAL:					
		ş 		VP - Operations	DATE:	
PERA	TOR APPROVAL:			CEO or COO DA		
ARTNE	ER COMPANY NAME:					
ADTE	ED ADDDOVAL					
MKINE	ER APPROVAL:	·			DATE:	



NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 206
Oklahoma City, Oklahoma 73116
405-286-4391

	·				
WELL NAME	Saturninus Fed Com 1510 122H	AFE TYPE	Development	AFE NUMBER	2015148
LATERAL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	22
SURFACE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION	Second Bone Spring	DEPTH (TVD/TMD)	8,731' / 18,731'
BOTTOM-HOLE LOCATION	T23S, R29E, Sec 10 NE/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
PROJECT DESCRIPTION	Drilling, completion, facilities and pipeline costs	for 10,360' horizont	al well.		

ACCT.	Secretary Potash Area DESCRIPTION OF EXPENDITURE		COST ESTIMATE	
CODE	INTANGIBLE COSTS	DRILLING (300)	COMPLETION (500)	
01	SURVEY/PERMITS/DAMAGES/LEGAL	\$ 50,000		\$ 50,000
02	LOCATION & ROAD	175,000		175,000
03	RIG MOVE	150,000		150,000 85,000
04 05	DRILLING - FOOTAGE DRILLING - DAYWORK	85,000 633,600		633,600
06	COMPLETION/WORKOVER RIG	035,000	60,000	60,000
07	COIL TUBING/SNUBBING UNIT		160,000	160,000
08	SLICKLINE/SWABBING			0
09	BITS	100,000	5,000	105,000
10	DIRECTIONAL SERVICES	190,000		190,000
11	CASING CREW	80,000		80,000
12	TOOL & EQUIPMENT RENTAL	168,000	80,000	248,000 226,000
13 14	FUEL & POWER DIESEL - BASE FOR MUD	126,000 100,000	100,000	100,000
15	MUD LOGGING & GEOLOGIST	28,000		28,000
16	DISPOSAL, RESTORATION & BACKFILL	150,000		150,000
17	TRUCKING	150,000	40,000	190,000
18	TESTING			0
19	CEMENTING	160,000		160,000
20	PERFORATING		358,000	358,000
21	CASED HOLE LOGS	77.700	F0 000	0
22 23	DOWNHOLE TOOLS & SERVICE OTHER STIMULATION	77,700	50,000	127,700
24	FORMATION STIMULATION		2,834,500	2,834,500
25	CONSULTING SERVICES		20,000	20,000
26	SUPERVISION	132,000	100,000	232,000
27	CONTRACT LABOR	100,000	20,000	120,000
28	OTHER LABOR	100,000	100,000	200,000
29	COMPANY CONSULTING/SUPV			0
30	WATER	50,000	530,000	580,000
31 32	FLUIDS & CHEMICALS 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 & SERVICES	20,000	,0,000	0
37	INSPECTIONS	10,000	5,000	15,000
38	WIRELINE SERVICES			0
39	ENGINEERING & GEOLOGY - FIELD			0
40	ENGINEERING & GEOLOGY - OFFICE	15,000		15,000
41	MULTISHOT & GYRO RE-ENTRY SERVICES			0
43	CAMPS & TRAILERS	56,000	15,000	71,000
44	SAFETY EQUIPMENT & H2S	5,000	5,000	10,000
45	CONTINGENCY		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 COSTS	\$ 3,141,300	\$ 4,514,500	
01	TANGIBLE COSTS	DRILLING (400)	COMPLETION (600)	TOTAL
01	CASING - CONDUCTOR CASING - SURFACE	\$ 10,000 20,229		\$ 10,000 20,229
03	CASING - INTERMEDIATE	83,952		83,952
04	CASING - INTERMEDIATE 2			0
05	CASING - PRODUCTION / LINER	441,752		441,752
06	SUBSURFACE EQUIPMENT	50,000	25,000	75,000
07	PRODUCTION TUBING		74,360	74,360
08	SUBSURFACE PUMPING EQUIPMENT			0
09	WELLHEAD EQUIPMENT	70,000	20,000	90,000
10	FLOWLINES SURFACE PUMPING EQUIPMENT		100,000	100,000
12	LINER HANGER & ASSOC EQUIP			0
13	VALVES & FITTINGS		200,000	200,000
15	RODS		250,050	0
17	TRUCKING	50,000	10,000	60,000
	RE-ENTRY EQUIPMENT		7111(1173-2	0
20	PRODUCTION EQUIPMENT		600,000	600,000
34				
34 47	MISCELLANEOUS	10,000	10,000	20,000
34	MISCELLANEOUS TANGIBLE EQUIP-ACQUISITIONS			0
34 47	MISCELLANEOUS	\$ 735,933	10,000 \$ 1,039,360	20,000 0 \$ 1,775,293

PREPARED BY:	Aaron Cattley	Senior Operations Engineer	DATE: 2/19/2020
OPERATOR APPROVAL:	-	VP - Operations	DATE:
OPERATOR APPROVAL:	5	CEO or COO	DATE:
PARTNER COMPANY NAME:			
PARTNER APPROVAL:			DATE:
TITLE:			



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-286-4391

PAIRIN	L LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	2015117
	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4		Third Bone Spring	DEPTH (TVD/TMD)	9,916' / 19,916'
BOTTO	M-HOLE LOCATION	T23S, R29E, Sec 10 NW/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
PROJEC	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs				
		Secretary Potash Area				
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE	AUD EVEN PARTE DA	INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
	SURVEY/PERMITS/DAM	AGES/LEGAL		\$ 50,000		\$ 50,000
	RIG MOVE			175,000		175,000
	DRILLING - FOOTAGE			150,000		150,000
	DRILLING - DAYWORK			85,000		85,000
	COMPLETION/WORKOV	EP PIG		677,600		677,600
	COIL TUBING/SNUBBING	- Allies			60,000	60,000
	SLICKLINE/SWABBING	ONI			160,000	160,000
	BITS			100.000	5,000	0
	DIRECTIONAL SERVICE	9		100,000	5,000	105,000
	CASING CREW	<u> </u>		190,000 80.000		190,000
	TOOL & EQUIPMENT RE	NTAI		168,000	20.000	80,000
	FUEL & POWER			126,000	80,000 100,000	248,000
	DIESEL - BASE FOR MUI	D		100,000	100,000	226,000
	MUD LOGGING & GEOLG			28,000		100,000
	DISPOSAL, RESTORATION			150,000		28,000
	TRUCKING			150,000	40,000	150,000 190,000
	TESTING			130,000	40,000	190,000
19	CEMENTING			160,000		
	PERFORATING			100,000	358,000	160,000 358,000
	CASED HOLE LOGS				336,000	358,000
	DOWNHOLE TOOLS & S	ERVICE		77,700	50,000	
-	OTHER STIMULATION			77,700	30,000	127,700
	FORMATION STIMULATE	ON			2,834,500	2,834,500
25	CONSULTING SERVICES	S			20,000	20,000
	SUPERVISION			132,000	100,000	232,000
27	CONTRACT LABOR			100,000	20,000	120,000
	OTHER LABOR			100,000	100,000	200,000
	COMPANY CONSULTING	S/SUPV		.50,000	100,000	200,000
	WATER			50,000	530,000	580,000
	FLUIDS & CHEMICALS			200,000	000,000	200,000
32	CORING & ANALYSIS					0
	COMMUNICATIONS			10,000	10,000	20,000
	BOP TESTING			20,000	10,000	30,000
	FISHING TOOLS & SERV	/ICES				0
	INSPECTIONS			10,000	5,000	15,000
	WIRELINE SERVICES					0
	ENGINEERING & GEOLO					0
	ENGINEERING & GEOLO	OGY - OFFICE		15,000		15,000
	MULTISHOT & GYRO					0
	RE-ENTRY SERVICES					0
	CAMPS & TRAILERS	District Control of the Control of t		56,000	15,000	71,000
44	SAFETY EQUIPMENT & I	H2S		5,000	5,000	10,000
		12021				10,000
45	CONTINGENCY	1155000 ()				0
45 46	CONTINGENCY INSURANCE			10,000	2,000	
45 46 47	CONTINGENCY INSURANCE MISCELLANEOUS	4		10,000 10,000		0
45 46 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS	CTC.		10,000	2,000 10,000	0 12,000 20,000 0
45 46 47 49	CONTINGENCY INSURANCE MISCELLANEOUS			10,000 \$ 3,185,300	2,000 10,000 \$ 4,514,500	0 12,000 20,000 0
45 46 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO	STS TANGIBLE COSTS		10,000	2,000 10,000	0 12,000 20,000 0
45 46 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR			10,000 \$ 3,185,300 DRILLING (400) \$ 10,000	2,000 10,000 \$ 4,514,500	0 12,000 20,000 0 \$ 7,699,800
45 46 47 49 01 02	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE	TANGIBLE COSTS		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229	2,000 10,000 \$ 4,514,500	0 12,000 20,000 0 \$ 7,699,800 TOTAL
45 46 47 49 01 02 03	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT	TANGIBLE COSTS		10,000 \$ 3,185,300 DRILLING (400) \$ 10,000	2,000 10,000 \$ 4,514,500	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000
45 46 47 49 01 02 03 04	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT	E E 2		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952	2,000 10,000 \$ 4,514,500	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229
45 46 47 49 01 02 03 04 05	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - PRODUCTION	E E 2 / LINER		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699	2,000 10,000 \$ 4,514,500 COMPLETION (600)	0 12,000 20,000 0 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699
45 46 47 49 01 02 03 04 05 06	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME	E E 2 / LINER		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952	2,000 10,000 \$ 4,514,500 COMPLETION (600)	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000
45 46 47 49 01 02 03 04 05 06	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING	E E 2 / LINER ENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699	2,000 10,000 \$ 4,514,500 COMPLETION (600)	0 12,000 20,000 0 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699
45 46 47 49 01 02 03 04 05 06 07 08	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING	E 2 / LINER ::NT ::S EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0
45 46 47 49 01 02 03 04 05 06 07 08	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT	E 2 / LINER ::NT ::S EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES	E E 2 / LINER ENT G EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ	E E 2 / LINER ENT E EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO	E E 2 / LINER ENT E EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ	E E 2 / LINER ENT E EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS	E E 2 / LINER ENT E EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS	E E 2 / LINER ENT E EQUIPMENT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 200,000 0 60,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING	E E 2 / LINER ENT E EQUIPMENT C EQUIP		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 60,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT	E E 2 / LINER ENT E EQUIPMENT C EQUIP		10,000 \$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT	E E 2 / LINER ENT GEQUIPMENT CEQUIPMENT CEQUIP		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 20,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME	E E 2 / LINER ENT GEQUIPMENT CEQUIP INT INT INT INT		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT ANGIBLE EQUIP-ACQUI TOTAL INTANGIBLE CO	E E 2 / LINER ENT E EQUIPMENT C EQUIP INT ISITIONS STS		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 20,000
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT	E E 2 / LINER ENT GEQUIPMENT CEQUIP INT INT ISITIONS STS		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT ANGIBLE EQUIP-ACQUI TOTAL INTANGIBLE CO	E E 2 / LINER ENT GEQUIPMENT CEQUIP INT INT ISITIONS STS		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 600,000 10,000 \$ 1,039,360	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 20,000 0 0 1,803,240
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO:	E E 2 / LINER ENT GEQUIPMENT CEQUIP INT INT INT INT INT INT INT INT INT IN		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 600,000 10,000 \$ 1,039,360	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 20,000 0 0 1,803,240
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley		\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 600,000 10,000 \$ 1,039,360	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 20,000 0 0 1,803,240
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED V	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	4	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dej	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR SURFACE TOTAL ESTIMATED W RED BY:	E E 2 / LINER ENT GEQUIPMENT CEQUIP INT INT INT INT INT INT INT INT INT IN	duj	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED V	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	Pey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR SURFACE TOTAL ESTIMATED W RED BY:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dy	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR SURFACE TOTAL ESTIMATED W RED BY:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR SURFACE TOTAL ESTIMATED W RED BY:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT TOTAL ESTIMATED VI RED BY: TOR APPROVAL: TOR APPROVAL:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	day	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR SURFACE TOTAL ESTIMATED W RED BY:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAF OPERAT	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT TOTAL ESTIMATED VI RED BY: TOR APPROVAL: TOR APPROVAL:	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 200,000 100,000 10,000 \$ 1,039,360 DATE: DATE: DATE:	0 12,000 20,000 0 \$ 7,599,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 200,000 0 600,000 0 600,000 0 \$ 1,803,240 \$ 9,503,040
45 46 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAF	CONTINGENCY INSURANCE MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMENT FLOWLINES SUBSURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FLOWLINES SURFACE PUMPING EQUIPMENT FRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT FOR EQUIP-ACQUIPMENT FOR EQUIP-ACQUIPMENT FOR EQUIP-ACQUIPMENT FOR EQUIP-ACQUIPMENT FOR EQUIPMENT FOR EQUIP-ACQUIPMENT FOR EQUIPMENT FOR EQUIPMENT FOR EQUIPMENT FOR EXTIMATED V RED BY: FOR APPROVAL: FOR APPROVAL: FOR APPROVAL: FOR APPROVAL: FOR EXTIMATED V FOR EXT	E E E 2 / LINER ENT GEQUIPMENT CEQUIP INT ISITIONS STS WELL COST Aaron Cattley	dey	\$ 3,185,300 DRILLING (400) \$ 10,000 20,229 83,952 469,699 50,000 70,000 50,000 10,000 \$ 763,880 \$ 3,949,180 Senior Operations Engineer	2,000 10,000 \$ 4,514,500 COMPLETION (600) 25,000 74,360 20,000 100,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE:	0 12,000 20,000 0 \$ 7,699,800 TOTAL \$ 10,000 20,229 83,952 0 469,699 75,000 74,360 0 90,000 100,000 0 0 600,000 600,000 20,000 \$ 1,803,240 \$ 9,503,040



TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-286-4391

ATERA	AL LOCATION	Satuminus Fed Com 1510 132H T23S, R29E, Sec 15 - T23S, R29E, Sec 10	AFE TYPE FIELD	Development Northern Delaware	AFE NUMBER DRILLING DAYS	2015118
URFAC	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4		Third Bone Spring	DEPTH (TVD/TMD)	9,936' / 19,936'
	M-HOLE LOCATION CT DESCRIPTION	T23S, R29E, Sec 10 NE/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
OJE	JI DESCRIPTION	Drilling, completion, facilities and pipeline costs Secretary Potash Area	for 10,360' horizonta	al well.		
CT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
ODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
	SURVEY/PERMITS/DAN	AGES/LEGAL		\$ 50,000		\$ 50,00
_	RIG MOVE			175,000		175,00
	DRILLING - FOOTAGE			150,000		150,00
_	DRILLING - DAYWORK			85,000		85,00
$\overline{}$	COMPLETION/WORKO	/ER RIG		677,600	60,000	677,60
$\overline{}$	COIL TUBING/SNUBBIN				60,000 160,000	60,00
08	SLICKLINE/SWABBING				100,000	160,00
09	BITS			100,000	5,000	105,00
10	DIRECTIONAL SERVICE	ES .		190,000	0,000	190,00
11	CASING CREW			80,000		80,00
	TOOL & EQUIPMENT R	ENTAL		168,000	80,000	248,00
_	FUEL & POWER			126,000	100,000	226,00
	DIESEL - BASE FOR MU			100,000		100,00
	MUD LOGGING & GEOL			28,000		28,00
	DISPOSAL, RESTORAT	ION & BACKFILL		150,000		150,00
	TRUCKING			150,000	40,000	190,00
_	TESTING CEMENTING					
_	PERFORATING			160,000		160,00
_	CASED HOLE LOGS				358,000	358,00
	DOWNHOLE TOOLS & S	SERVICE		77,700		457.70
	OTHER STIMULATION			//,/00	50,000	127,70
_	FORMATION STIMULAT	ION			2,834,500	2 924 50
	CONSULTING SERVICE				2,834,500	2,834,50
	SUPERVISION			132,000	100,000	232,00
	CONTRACT LABOR			100,000	20,000	120,00
	OTHER LABOR			100,000	100,000	200,00
	COMPANY CONSULTIN	G/SUPV		1,000	135,550	200,00
$\overline{}$	WATER			50,000	530,000	580,00
	FLUIDS & CHEMICALS			200,000		200,000
	CORING & ANALYSIS COMMUNICATIONS					
	BOP TESTING			10,000	10,000	20,00
_	FISHING TOOLS & SER	ACES		20,000	10,000	30,000
_	INSPECTIONS	VIOLO		40.000		
-	WIRELINE SERVICES			10,000	5,000	15,00
_	ENGINEERING & GEOL	OGY - FIELD				
40	ENGINEERING & GEOL	OGY - OFFICE		15,000		15,000
41	MULTISHOT & GYRO	100000000000000000000000000000000000000		10,000		15,00
42	RE-ENTRY SERVICES					
-	CAMPS & TRAILERS			56,000	15,000	71,000
	SAFETY EQUIPMENT &	H2S		5,000	5,000	10,000
-	CONTINGENCY					
	INSURANCE MISCELLANEOUS			10,000	2,000	12,000
	SIM-OPS			10,000	10,000	20,000
	TOTAL INTANGIBLE CO	STS		£ 2.405.000		
		TANGIBLE COSTS		\$ 3,185,300 DRILLING (400)	\$ 4,514,500	
01	CASING - CONDUCTOR			\$ 10,000	COMPLETION (600)	TOTAL
02	CASING - SURFACE			20,229		\$ 10,000
	CASING - INTERMEDIAT			83,952		83,952
	CASING - INTERMEDIAT					00,002
-	CASING - PRODUCTION			470,171		470,17
	SUBSURFACE EQUIPMI	ENT		50,000	25,000	75,000
	PRODUCTION TUBING	FOUNDATION			74,360	74,360
	SUBSURFACE PUMPING WELLHEAD EQUIPMEN					
_	FLOWLINES	r:		70,000	20,000	90,000
_	SURFACE PUMPING EQ	IJIPMENT			100,000	100,000
	LINER HANGER & ASSO					
	VALVES & FITTINGS				000 000	000.000
	RODS				200,000	200,000
	TRUCKING			50,000	10,000	60,000
	RE-ENTRY EQUIPMENT			50,000	10,000	50,000
	PRODUCTION EQUIPME	NT			600,000	600,000
_	MISCELLANEOUS			10,000	10,000	20,000
	TANGIBLE EQUIP-ACQU				-1-1	20,000
	TOTAL INTANGIBLE CO	010		\$ 764,352	\$ 1,039,360	\$ 1,803,712
-	TOTAL ESTIMATED	WELL COST		\$ 3,949,652	\$ 5,553,860	\$ 9.503.512
PAR	ED BY:	Aaron Cattley		Senior Operations Engineer	DATE:	\$ 9,503,512 12/13/2019
RAT	OR APPROVAL:	for Kurt Sh	de	1B. 6 6		12/10/10
	TOWN TAIL	1 Pur sh	The same of the sa	VP - Operations	DATE:	14/12/14
ERAT	OR APPROVAL:	In Jahr		CEO or COO	DATE:	12/13/19
		. ,		223 0000	DATE:	1-1111
TNE	R COMPANY NAME:					
ΓNE	R APPROVAL:				DATE:	



PARTNER APPROVAL:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206

VELL N		Saturninus Fed Com 1510 211H	AFE TYPE	Develop	ment	AFE NUMBER	2015123
	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern	Delaware	DRILLING DAYS	32
	CE LOCATION M-HOLE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION	The second second		DEPTH (TVD/TMD)	10,066' / 20,066'
	OT DESCRIPTION	T23S, R29E, Sec 10 NW/4 NW/4 Drilling, completion, facilities and pipeline costs	for 9 900' horizontal	Eddy Co	жипту	STATE	New Mexico
		Secretary Potash Area	IOI 5,500 HORZONIA	wytest,			
CCT.		DESCRIPTION OF EXPENDITURE				COST ESTIMATE	
ODE		INTANGIBLE COSTS		DRIL	LING (300)	COMPLETION (500)	
	SURVEY/PERMITS/DAM	AGES/LEGAL		\$	50,000		\$ 50,0
_	LOCATION & ROAD				175,000		175,0
	RIG MOVE				150,000		150,0
_	DRILLING - FOOTAGE DRILLING - DAYWORK				85,000		85,0
_	COMPLETION/WORKOV	ED DIC			853,600		853,6
	COIL TUBING/SNUBBING					60,000 160,000	60,0
	SLICKLINE/SWABBING			-		160,000	160,0
09	BITS				100,000	5,000	105,0
10	DIRECTIONAL SERVICE				190,000	-,,,,,	190,0
	CASING CREW				80,000		80,0
	TOOL & EQUIPMENT RE	NTAL			168,000	80,000	248,0
	FUEL & POWER				126,000	100,000	226,0
	DIESEL - BASE FOR MUI MUD LOGGING & GEOLO				100,000		100,0
	DISPOSAL, RESTORATION			-	28,000		28,0
	TRUCKING	ON UL DAORFILL			150,000	10.00	150,0
	TESTING				150,000	40,000	190,0
	CEMENTING				160,000		400.0
_	PERFORATING				100,000	358,000	160,00 358,00
_	CASED HOLE LOGS					330,000	338,0
_	DOWNHOLE TOOLS & S	ERVICE			77,700	50,000	127,70
	OTHER STIMULATION				,,	30,000	121,11
	FORMATION STIMULATI					2,834,500	2,834,5
	CONSULTING SERVICES					20,000	20,0
	SUPERVISION				132,000	100,000	232,0
_	CONTRACT LABOR				100,000	20,000	120,0
	OTHER LABOR COMPANY CONSULTING	reuny			100,000	100,000	200,0
	WATER	5/SUPV			50.000		
	FLUIDS & CHEMICALS				50,000	530,000	580,0
_	CORING & ANALYSIS				200,000		200,0
_	COMMUNICATIONS				10,000	10,000	20.00
	BOP TESTING				20,000	10,000	20,0
36	FISHING TOOLS & SERV	ICES			20,000	10,000	30,0
	INSPECTIONS				10,000	5,000	15,0
	WIRELINE SERVICES						
	ENGINEERING & GEOLO						
	ENGINEERING & GEOLO	GY - OFFICE			15,000		15,0
	MULTISHOT & GYRO RE-ENTRY SERVICES						
_	CAMPS & TRAILERS						
	SAFETY EQUIPMENT &	129			56,000	15,000	71,0
_	CONTINGENCY	120			5,000	5,000	10,0
	INSURANCE				10,000	2,000	12.0
	MISCELLANEOUS				10,000	10,000	12,00
	SIM-OPS				000,01	10,000	20,01
	TOTAL INTANGIBLE CO	STS		\$	3,361,300	\$ 4,514,500	\$ 7,875,86
		TANGIBLE COSTS		DRIL	LING (400)	COMPLETION (600)	TOTAL
	CASING - CONDUCTOR			\$	10,000		\$ 10,00
	CASING - SURFACE	-			20,229		20,2
	CASING - INTERMEDIAT CASING - INTERMEDIAT				83,952		83,9
-	CASING - INTERMEDIAT						
	SUBSURFACE EQUIPME			-	473,237	AF ACT	473,23
_	PRODUCTION TUBING				50,000	25,000	75,00
	SUBSURFACE PUMPING	EQUIPMENT		1		74,360	74,30
_	WELLHEAD EQUIPMENT				70,000	20,000	90,00
_	FLOWLINES				. 0,000	100,000	100,00
	SURFACE PUMPING EQ					100,000	100,00
	LINER HANGER & ASSO	CEQUIP					
13	VALVES & FITTINGS					200,000	200,00
_	RODS						
15				-	50,000	10,000	60,00
15 17	TRUCKING			-		222 20	
15 17 20	TRUCKING RE-ENTRY EQUIPMENT	NT		1	10.000	600,000	600,00
15 17 20 34	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME	NT				10.000	20.00
15 17 20 34 47	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS				10,000	10,000	20,00
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME	SITIONS		5			
15 17 20 34 47	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ISITIONS STS		s	767,418	\$ 1,039,360	\$ 1,806,77
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU	ISITIONS STS		\$		\$ 1,039,360	
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ISITIONS STS VELL COST		\$	767,418 4,128,718	\$ 1,039,360 \$ 5,553,860	S 1,806,77
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ISITIONS STS VELL COST Aaron Cattley		\$	767,418	\$ 1,039,360	S 1,806,77
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ISITIONS STS VELL COST Aaron Cattley	oley	\$	767,418 4,128,718 rations Engineer	\$ 1,039,360 \$ 5,553,860 DATE:	\$ 1,806,77 \$ 9,682,57
15 17 20 34 47 49 REPAR	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO. TOTAL ESTIMATED V RED BY: TOR APPROVAL:	ISITIONS STS VELL COST	pley	\$ Senior Ope	767,418 4,128,718 rations Engineer	\$ 1,039,360 \$ 5,553,860	\$ 1,806,77 \$ 9,682,57
15 17 20 34 47 49	TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED V RED BY:	ISITIONS STS VELL COST Aaron Cattley	pley	\$ Senior Ope	767,418 4,128,718 rations Engineer	\$ 1,039,360 \$ 5,553,860 DATE:	\$ 1,806,77 \$ 9,682,57

DATE: _



NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-286-4391

LATERA	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	2015124 32
	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4		Wolfcamp XY	DEPTH (TVD/TMD)	10,091' / 20,091'
	M-HOLE LOCATION	T23S, R29E, Sec 10 NW/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs				THE WIGHT
		Secretary Potash Area	or o,ood nonzona	WGIII		
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
CODE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
	SURVEY/PERMITS/DAM	AGES/LEGAL		\$ 50,000		\$ 50,000
	LOCATION & ROAD			175,000		175,000
	RIG MOVE			150,000		150,000
	DRILLING - FOOTAGE			85,000		85,000
	DRILLING - DAYWORK			853,600		853,600
	COMPLETION/WORKOV				60,000	60,000
	COIL TUBING/SNUBBING	GUNIT			160,000	160,000
	SLICKLINE/SWABBING					0
	BITS			100,000	5,000	105,000
	DIRECTIONAL SERVICE	S		190,000		190,000
	CASING CREW			80,000		80,000
	TOOL & EQUIPMENT RE	ENTAL		168,000	80,000	248,000
	FUEL & POWER			126,000	100,000	226,000
	DIESEL - BASE FOR MU			100,000		100,000
	MUD LOGGING & GEOL			28,000		28,000
	DISPOSAL, RESTORATI	ON & BACKFILL		150,000		150,000
	TRUCKING			150,000	40,000	190,000
	TESTING					0
	CEMENTING			160,000		160,000
	PERFORATING CASED HOLE LOGS				358,000	358,000
		CERVICE				0
	DOWNHOLE TOOLS & S	DERVICE		77,700	50,000	127,700
	OTHER STIMULATION	ION				0
	FORMATION STIMULATI CONSULTING SERVICES				2,834,500	2,834,500
	SUPERVISION	0			20,000	20,000
	CONTRACT LABOR			132,000	100,000	232,000
_	OTHER LABOR			100,000	20,000	120,000
	COMPANY CONSULTING	C/CLIDV		100,000	100,000	200,000
	WATER	SISURV				0
	FLUIDS & CHEMICALS			50,000	530,000	580,000
	CORING & ANALYSIS			200,000		200,000
	COMMUNICATIONS			40.000		0
	BOP TESTING			10,000	10,000	20,000
	FISHING TOOLS & SERV	ICES		20,000	10,000	30,000
	INSPECTIONS	VICE3		40.000	F 000	0
	WIRELINE SERVICES			10,000	5,000	15,000
-	ENGINEERING & GEOLG	OCV FIELD				0
	ENGINEERING & GEOLG			45.000		0
	MULTISHOT & GYRO	OGT - OFFICE		15,000		15,000
	RE-ENTRY SERVICES					0
	CAMPS & TRAILERS			FC 000	45.000	0
	SAFETY EQUIPMENT &	Hac		56,000	15,000	71,000
	CONTINGENCY	1125		5,000	5,000	10,000
	INSURANCE			10.000	0.000	0
	HOOFFIE			10,000	2,000	12,000
46	MISCELLANEOUS			10,000	10,000	20,000
46 47	MISCELLANEOUS SIM-OPS					0
46 47 49	MISCELLANEOUS SIM-OPS TOTAL INTANGIBLE CO	STS		\$ 3,361,300	\$ 4514500	\$ 7.975.900
46 47 49	SIM-OPS			\$ 3,361,300	THE RESERVE OF THE PERSON NAMED IN	
46 47 49	SIM-OPS TOTAL INTANGIBLE CO	TANGIBLE COSTS		DRILLING (400)	\$ 4,514,500 COMPLETION (600)	TOTAL
46 47 49 01	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR	TANGIBLE COSTS		DRILLING (400) \$ 10,000	THE RESERVE OF THE PERSON NAMED IN	* 10,000
46 47 49 01 02	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE	TANGIBLE COSTS		DRILLING (400) \$ 10,000 20,229	THE RESERVE OF THE PERSON NAMED IN	* 10,000 20,229
46 47 49 01 02 03	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT	TANGIBLE COSTS		DRILLING (400) \$ 10,000	THE RESERVE OF THE PERSON NAMED IN	* 10,000 20,229 83,952
46 47 49 01 02 03 04	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE	TANGIBLE COSTS E		DRILLING (400) \$ 10,000 20,229 83,952	THE RESERVE OF THE PERSON NAMED IN	* 10,000 20,229 83,952 0
46 47 49 01 02 03 04 05	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION	TANGIBLE COSTS TE TE 2 II/LINER		DRILLING (400) \$ 10,000 20,229 83,952 473,826	COMPLETION (600)	* 10,000 20,229 83,952 0 473,826
46 47 49 01 02 03 04 05 06	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME	TANGIBLE COSTS TE TE 2 II/LINER		DRILLING (400) \$ 10,000 20,229 83,952	25,000	* 10,000 20,229 83,952 0 473,826 75,000
46 47 49 01 02 03 04 05 06	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION	TANGIBLE COSTS TE TE 2 I / LINER ENT		DRILLING (400) \$ 10,000 20,229 83,952 473,826	COMPLETION (600)	** 10,000 20,229 83,952 0 473,826 75,000 74,360
46 47 49 01 02 03 04 05 06 07	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING	TANGIBLE COSTS TE TE 2 I / LINER ENT G EQUIPMENT		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360	** 10,000 20,229 83,952 0 473,826 75,000 74,360 0
46 47 49 01 02 03 04 05 06 07 08	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING	TANGIBLE COSTS TE TE 2 I / LINER ENT G EQUIPMENT		DRILLING (400) \$ 10,000 20,229 83,952 473,826	25,000 74,360 20,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000
01 02 03 04 05 06 07 08 09	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000
01 02 03 04 05 06 07 08 09 10	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360 20,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000
01 02 03 04 05 06 07 08 09 10 11	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPMEN PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360 20,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0
01 02 03 04 05 06 07 08 09 10 11 12 13	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN' FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360 20,000 100,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING	TANGIBLE COSTS TE TE 2 TI / LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000	25,000 74,360 20,000 100,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT	TANGIBLE COSTS TE TE 2 II / LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 200,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT	TANGIBLE COSTS TE TE 2 II / LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 200,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 60,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 100,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 60,000 0
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT MISCELLANEOUS TANGIBLE EQUIP-ACQL	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T PUIPMENT DC EQUIP ENT JISITIONS		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 100,000 10,000 600,000 10,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 60,000 0 600,000 20,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS	TANGIBLE COSTS TE TE 2 1/ LINER ENT G EQUIPMENT T PUIPMENT DC EQUIP ENT JISITIONS		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 100,000 10,000 600,000 10,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 60,000 0 600,000 20,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T RUIPMENT DIC EQUIP ENT DISITIONS DISTS		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000	25,000 74,360 20,000 100,000 200,000 10,000 600,000 10,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000 0 \$ 1,807,367
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT MISCELLANEOUS TANGIBLE EQUIP-ACQL	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T RUIPMENT DIC EQUIP ENT DISITIONS DISTS		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000	25,000 74,360 20,000 100,000 10,000 600,000 10,000 \$ 1,039,360	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 60,000 0 600,000 20,000
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T RUIPMENT DIC EQUIP ENT DISITIONS DISTS		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000	25,000 74,360 20,000 100,000 200,000 10,000 600,000 10,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000 0 \$ 1,807,367
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS DSTS WELL COST		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307	25,000 74,360 20,000 100,000 10,000 10,000 10,000 \$ 1,039,360 \$ 5,553,860	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST		DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000	25,000 74,360 20,000 100,000 200,000 10,000 600,000 10,000	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000 0 \$ 1,807,367
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ioleu	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 10,000 \$ 768,007 \$ 4,129,307	25,000 74,360 20,000 100,000 200,000 10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL ESTIMATED N RED BY:	TANGIBLE COSTS TE TE 2 II/LINER ENT G EQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS DSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307	25,000 74,360 20,000 100,000 10,000 10,000 10,000 \$ 1,039,360 \$ 5,553,860	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL ESTIMATED N RED BY:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO TOTAL ESTIMATED V RED BY:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 10,000 \$ 768,007 \$ 4,129,307	25,000 74,360 20,000 100,000 200,000 10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO TOTAL ESTIMATED V RED BY:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO TOTAL ESTIMATED V RED BY:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
90 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI OPERA	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED N RED BY: TOR APPROVAL:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
90 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI OPERA	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT TOTAL INTANGIBLE CO TOTAL ESTIMATED V RED BY:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
946 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI OPERA	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED TOTAL TOR APPROVAL: TOR APPROVAL: ER COMPANY NAME:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 10,000 10,000 \$ 1,039,360 \$ 5,553,860 DATE: DATE: DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 20,000 0 \$ 1,807,367 \$ 9,683,167
946 47 49 01 02 03 04 05 06 07 08 09 10 11 12 13 15 17 20 34 47 49 PREPAI OPERA	SIM-OPS TOTAL INTANGIBLE CO CASING - CONDUCTOR CASING - SURFACE CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - INTERMEDIAT CASING - PRODUCTION SUBSURFACE EQUIPME PRODUCTION TUBING SUBSURFACE PUMPING WELLHEAD EQUIPMEN FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT PRODUCTION EQUIPMENT MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED N RED BY: TOR APPROVAL:	TANGIBLE COSTS TE TE 2 IT/LINER ENT GEQUIPMENT T RUIPMENT DC EQUIP ENT DISITIONS SSTS WELL COST	ipley	DRILLING (400) \$ 10,000 20,229 83,952 473,826 50,000 70,000 50,000 \$ 768,007 \$ 4,129,307 Senior Operations Engineer VP - Operations	25,000 74,360 20,000 100,000 200,000 10,000 5 1,039,360 \$ 5,553,860 DATE:	TOTAL \$ 10,000 20,229 83,952 0 473,826 75,000 74,360 0 90,000 100,000 0 200,000 0 600,000 0 600,000 20,000 \$ 1,807,367 \$ 9,683,167



TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 206
Oklahoma City, Oklahoma 73116
405-286-4391

OJEC	L LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	AFE NUMBER DRILLING DAYS	2015125 32
OJEC	E LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION	Wolfcamp XY	DEPTH (TVD/TMD)	10,106' / 20,106'
	N-HOLE LOCATION	T23S, R29E, Sec 10 NE/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
	T DESCRIPTION	Drilling, completion, facilities and pipeline costs	for 9,900' horizontal	well.		
CT.		Secretary Potash Area DESCRIPTION OF EXPENDITURE				
DDE		INTANGIBLE COSTS		DRILLING (300)	COST ESTIMATE COMPLETION (500)	
_	SURVEY/PERMITS/DAM/			\$ 50,000		\$ 50.0
	LOCATION & ROAD			175,000		175,0
)3 F	RIG MOVE			150,000		150.0
	DRILLING - FOOTAGE			85,000		85,0
_	DRILLING - DAYWORK			853,600		853,6
_	COMPLETION/WORKOV	- DOG (3-10-0)			60,000	60,0
	COIL TUBING/SNUBBING	UNIT			160,000	160,0
-	SLICKLINE/SWABBING					
_	BITS DIRECTIONAL SERVICES			100,000		105,0
_	CASING CREW	0		190,000		190,0
-	TOOL & EQUIPMENT RE	ΝΤΔΙ		80,000 168,000		80,0
_	FUEL & POWER			126,000		248,0 226,0
_	DIESEL - BASE FOR MUE)		100,000		100,0
-	MUD LOGGING & GEOLG			28,000		28,0
6 [DISPOSAL, RESTORATION	ON & BACKFILL		150,000		150,0
7 1	TRUCKING			150,000		190,0
8 1	TESTING				10,000	100,0
9 (CEMENTING			160,000		160,0
_	PERFORATING				358,000	358,0
_	CASED HOLE LOGS					
	DOWNHOLE TOOLS & S	ERVICE		77,700	50,000	127,7
_	OTHER STIMULATION					
	FORMATION STIMULATION	The state of the s			2,834,500	2,834,5
	CONSULTING SERVICES				20,000	20,0
_	SUPERVISION			132,000		232,0
_	OTHER LABOR			100,000	,	120,0
_	COMPANY CONSULTING	CCLIDY		100,000	100,000	200,0
_	WATER	STOP V		F0 000		
_	FLUIDS & CHEMICALS			50,000 200,000		580,0
_	CORING & ANALYSIS			200,000		200,0
. (COMMUNICATIONS			10,000	10,000	20,0
E	BOP TESTING			20,000		30,0
F	FISHING TOOLS & SERV	ICES			10,000	00,0
_	NSPECTIONS			10,000	5,000	15,0
_	WIRELINE SERVICES	· · · · · · · · · · · · · · · · · · ·				
_	ENGINEERING & GEOLO					
-	ENGINEERING & GEOLO	GY - OFFICE		15,000		15,0
_	MULTISHOT & GYRO					
	RE-ENTRY SERVICES					
-	CAMPS & TRAILERS SAFETY EQUIPMENT & I	100		56,000		71,0
_	CONTINGENCY	120		5,000	5,000	10,0
	NSURANCE			40.000		
	MISCELLANEOUS			10,000		12,0
	SIM-OPS			10,000	10,000	20,0
٦	TOTAL INTANGIBLE CO	STS		\$ 3,361,300	\$ 4,514,500	\$ 7,875,8
		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
_	CASING - CONDUCTOR			\$ 10,000		\$ 10,0
	CASING - SURFACE			20,229		20,2
	CASING - INTERMEDIAT			83,952		83,9
1 0	CASING - INTERMEDIATI CASING - PRODUCTION					
	SUBSURFACE EQUIPME			474,180		474,1
	PRODUCTION TUBING	14.1		50,000		75,0
					74,360	
3 S	SUBSURFACE PLIMPING	EQUIPMENT			1 1,000	74,3
S 5	SUBSURFACE PUMPING WELLHEAD EQUIPMENT			70,000		
F				70,000	20,000	90,0
5 S F F S S	WELLHEAD EQUIPMENT			70,000		
S S S S S S S S S S S S S S S S S S S	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQI LINER HANGER & ASSO	JIPMENT		70,000	20,000	90,0
5 S 7 F 8 S 9 W 10 F 1 S 2 L 8 V	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQU LINER HANGER & ASSO VALVES & FITTINGS	JIPMENT		70,000	20,000	90,0 100,0
\$ \$ 7 F 8 \$ 9 V 0 F 1 \$ 2 L 8 V	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQU LINER HANGER & ASSO VALVES & FITTINGS RODS	JIPMENT		70,000	20,000 100,000	90,0
6 S 7 F 8 S 9 V D F 1 S 2 L 3 V 5 F	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQU LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING	JIPMENT		70,000	20,000 100,000 200,000	90,0 100,0
6 S 7 F 8 S 9 W D F 11 S 22 L 23 W 5 F 7 T	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQ LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT	UIPMENT C EQUIP			20,000 100,000 200,000	90,0 100,0 200,0
8 S 7 F 8 S 9 V 0 F 1 S 2 L 3 V 7 7	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQUINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME	UIPMENT C EQUIP		50,000	20,000 100,000 200,000 10,000	90,0 100,0 200,0 60,0
S S S S S S S S S S S S S S S S S S S	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQUINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS	UIPMENT C EQUIP			20,000 100,000 200,000 10,000	90,0 100,0 200,0 60,0
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQI LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT	UIPMENT C EQUIP NT		50,000	20,000 100,000 200,000 10,000 600,000 10,000	90,0 100,0 200,0 60,0 600,0 20,0
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQUINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT INTERNATION INTERNATI	UIPMENT C EQUIP NT ISITIONS STS		50,000	20,000 100,000 200,000 10,000 600,000 10,000	90,0 100,0 200,0 60,0 600,0 20,0
S S F F F F F F F F	WELLHEAD EQUIPMENT FLOWLINES SURFACE PUMPING EQI LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUIPMENT	UIPMENT C EQUIP NT ISITIONS STS		50,000	20,000 100,000 200,000 10,000 10,000 \$ 1,039,360	90,0 100,0 200,0 60,0 20,0 \$ 1,807,7



TTTLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-286-4391 Com 1510 221H AFE TYPE Development

SUPPLICATION 1728, FORE Size IS SWIFE	LATERA	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	2015126 32
SOTIONAL POLICY STATE New Marking SOURCE STATE New Marking	SURFA	CE LOCATION					
Descriptor Des				COUNTY	Eddy County		
DESCRIPTION OF DEPOSITIVE	PROJEC	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs for	or 9,900' horizonta	well,		
SUNCYPERMITSDAMAGEALE \$ 5,000 5 5,000	ACCT					The state of the s	
3 SPACE STATE	100000000000000000000000000000000000000				DDU LING (800)		
CAMPANY NAME		SURVEY/PERMITS/DAM				COMPLETION (500)	
30 RIS MOVE		the second secon	AGEG/EEGAE				
DI DIRLING-FOOTAGE		The same of the sa					175,000
SO COMPANDEMORPHOYER RIG							85,000
60 COAM-ETPOLAMORRO/ONDER RIGE							853,600
150,000 100,			ER RIG		000,000	60,000	60,000
BIS SUCKINES 100,000 5,000 101,							
99 BITS						100,000	0 160,000
10 DIRECTIONAL SERVICES 190.000 190.000 190.000 190.000 206.					100.000	5,000	
1 CASING CREW	10	DIRECTIONAL SERVICE	S			3,000	190,000
192 TOOL & EQUIPMENT RENTAL 198,000 80,000 228							80,000
13 File & POWER 120,000 100,000 228	12	TOOL & EQUIPMENT RE	NTAL			90.000	248,000
14 DISSEL - BASE FOR MUD		NAME OF TAXABLE PARTY OF TAXABLE PARTY.					226,000
15 MUL LOGGING & GEOLOGIST	14	DIESEL - BASE FOR MU	D			100,000	100,000
150 DISPOSAL, RESTORATION & BACKFRL 150,000	15	MUD LOGGING & GEOL	OGIST				28,000
17 TRUCKING	16	DISPOSAL, RESTORATI	ON & BACKFILL				150,000
18 TESTING	17	TRUCKING				40.000	190,000
20 PERFORATING	18	TESTING			100,000	40,000	0 000,000
20 PERFORATING	19	CEMENTING			160,000		
21 CASED HOLE LOSS		NAME AND ADDRESS OF THE OWNER, WHEN PARTY AND AD			100,000	350 000	160,000 358,000
20 OWNHOLE TOOLS & SERVICE 77,700 50,000 127,						300,000	358,000
22 OTHER STMULATION			SERVICE		77 700	50,000	
2.934.500 2.234.500 2.234.500 2.234.500 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.234.500 2.235 2.235 2.234.500 2.235		The state of the s			11,100	30,000	127,700
25 CONSULTING SERVICES	-		ION			2 834 500	2,834,500
28 SUPERVISION							20,000
227 CONTRACT LABOR		Complete Control of the Control of t			132 000		232,000
280 OTHER LABOR	-	Company of the Compan					120,000
29 COMPANY CONSULTINICISUPY 30 WATER 50.000 530,000 580, 31 FILIDIS & CHEMICALS 20,000 10,000 200, 32 CORNIN & ANALYSIS 31 COMMUNICATIONS 32 CORNIN & ANALYSIS 33 COMMUNICATIONS 34 BOP TESTING 35 COMMUNICATIONS 36 FISHING TOOL & SERVICES 37 INSPECTIONS 38 VIPICALINE SERVICES 39 VIPICALINE SERVICES 30 VIPICALINE SERVICES 31 10,000 15,000 15,000 771 34 MULTISHOT & CYPICALINE SERVICES 36 CONTINGENCY 37 INSPECTION & SERVICES 38 VIPICALINE SERVICES 39 VIPICALINE SERVICES 30 VIPICALIN							200,000
MATER	-		G/SUPV		100,000	100,000	200,000
STATE STAT					50 000	530 000	580,000
22 CORING & ANALYSIS	31	FLUIDS & CHEMICALS				300,000	200,000
34 BOP TESTING	32	CORING & ANALYSIS			200,000		200,000
34 BOP TESTING	33	COMMUNICATIONS			10.000	10,000	20,000
Septiment Sept	34	BOP TESTING					30,000
MIRELINE SERVICES	36	FISHING TOOLS & SERV	VICES			10,000	00,000
WIRELINE SERVICES	37	INSPECTIONS			10.000	5,000	15,000
## HAUSTHANDER & GEOLOGY - OFFICE ## 15,000 ## 15,000 ## 15,000 ## 16,000 ##	38	WIRELINE SERVICES				0,000	0
42 RE-ERITY SERVICES 43 CAMPS & TRAILERS 44 SAFETY COUPMENT & H2S 45 CONTINGENCY 45 INSURANCE 46 INSURANCE 47 MISCELLANEOUS 48 INFORMATION OF TANGIBLE COSTS 49 SIM-OPS 49 SIM-OPS 40 INSURANCE 40 INSURANCE 41 MISCELLANEOUS 40 INSURANCE 41 MISCELLANEOUS 41 INDUO	39	ENGINEERING & GEOLG	DGY - FIELD				0
42 RE-ERITY SERVICES 43 CAMPS & TRAILERS 44 SAFETY COUPMENT & H2S 45 CONTINGENCY 45 INSURANCE 46 INSURANCE 47 MISCELLANEOUS 48 INFORMATION OF TANGIBLE COSTS 49 SIM-OPS 49 SIM-OPS 40 INSURANCE 40 INSURANCE 41 MISCELLANEOUS 40 INSURANCE 41 MISCELLANEOUS 41 INDUO	40	ENGINEERING & GEOLG	OGY - OFFICE		15 000		15,000
43 CAMPS & TRAILERS 45 SAFEY FOUIPMENT & H2S 45 SAFEY FOUIPMENT & H2S 46 SAFEY FOUIPMENT & H2S 47 MISCELLANEOUS 48 INSURANCE 49 INSURANCE 49 SIM-OPS 49 SIM-OPS 40 TOTAL INTANSIBLE COSTS 40 SASIN-OPS 40 TOTAL INTANSIBLE COSTS 50 SASIN-OPS 5					10,000		15,000
Add SAFETY EQUIPMENT 8 H2S 5,000 5,000 10,	42	RE-ENTRY SERVICES					0
44 SAFETY EQUIPMENT 8 H2S	43	CAMPS & TRAILERS			56,000	15,000	71,000
45 (CONTINGENCY 46 INSURANCE	44	SAFETY EQUIPMENT &	H2S				10,000
AF MISCELLANEOUS	45	CONTINGENCY			3,000	0,000	0,000
MISCELLANEOUS	46	INSURANCE			10.000	2 000	12,000
SIM-OPS	47	MISCELLANEOUS					20,000
TANGIBLE COSTS DRILLING (400) COMPLETION (600) TOTAL							20,000
TANGIBLE COSTS DRILLING (400) COMPLETION (600) TOTAL		TOTAL INTANGIBLE CO	STS		\$ 3,361,300	\$ 4,514,500	\$ 7,875,800
OCASING - SURFACE \$ 10,000 \$ 10,000			TANGIBLE COSTS		DRILLING (400)		
CASING - SURFACE 20,229 20,	01	CASING - CONDUCTOR					
CASING - INTERMEDIATE 83,952 83, 852 8	02	CASING - SURFACE					20,229
04 CASING - INTERMEDIATE 2	03	CASING - INTERMEDIAT	E				83,952
10 10 10 10 10 10 10 10	04	CASING - INTERMEDIAT	E 2		771772		00,002
SUBSURFACE EQUIPMENT S0,000 25,000 75, 76,000 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360 74, 74,360	05	CASING - PRODUCTION	I / LINER		477.246		477,246
OF PRODUCTION TUBING 74,360 74,	06	SUBSURFACE EQUIPME	ENT			25,000	75,000
08 SUBSURFACE PUMPING EQUIPMENT 70,000 20,000 90,		The State of the S			55,500		74,360
09 WELLHEAD EQUIPMENT 70,000 20,000 90,	08	SUBSURFACE PUMPING	GEQUIPMENT			77,000	74,300
10 FLOWLINES 100,000					70.000	20 000	90,000
11 SURFACE PUMPING EQUIPMENT					, 5,500		100,000
12 LINER HANGER & ASSOC EQUIP 13 VALVES & FITTINGS 200,000 200,	11	SURFACE PUMPING EQ	UIPMENT			.50,000	0
15 RODS		The state of the s	OC EQUIP				0
15 RODS						200,000	200,000
20 RE-ENTRY EQUIPMENT 34 PRODUCTION EQUIPMENT 47 MISCELLANEOUS 49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS 5 771,427 \$ 1,039,360 \$ 1,810, TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,8 PREPARED BY: Aaron Cattley Senior Operations Engineer DATE: 12/13/2019 PARTNER COMPANY NAME: PARTNER COMPANY NAME:							0
20 RE-ENTRY EQUIPMENT 34 PRODUCTION EQUIPMENT 47 MISCELLANEOUS 49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS 5 771,427 \$ 1,039,360 \$ 1,810, TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,190,000 \$ 1,000					50,000	10,000	60,000
47 MISCELLANEOUS 49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS \$ 771,427 \$ 1,039,360 \$ 1,810, TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,8 PREPARED BY: OPERATOR APPROVAL: OPERATOR APPROVAL: PARTINER COMPANY NAME: DATE: DATE: 12/13/2019 CEO or COO DATE: DATE: 12/13/11		A STATE OF THE PARTY OF THE PAR					0
47 MISCELLANEOUS 49 TANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS \$ 771,427 \$ 1,039,360 \$ 1,810, TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,8 PREPARED BY: OPERATOR APPROVAL: OPERATOR APPROVAL: OPERATOR APPROVAL: CEO or COO DATE: DATE: 12/13/2019 CEO or COO DATE: DATE: 12/13/11			NT			600,000	600,000
TOTAL INTANGIBLE EQUIP-ACQUISITIONS TOTAL INTANGIBLE COSTS \$ 771,427 \$ 1,039,360 \$ 1,810, TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,4 PREPARED BY: OPERATOR APPROVAL:					10,000		20,000
TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,8 PREPARED BY: Aaron Cattley Senior Operations Engineer DATE: 12/13/2019 OPERATOR APPROVAL: VP - Operations DATE: 12/13/11 PARTINER COMPANY NAME: DATE: DATE: 12/13/11			Control of the Contro				0
TOTAL ESTIMATED WELL COST \$ 4,132,727 \$ 5,553,860 \$ 9,686,8 PREPARED BY: OPERATOR APPROVAL: OPERATOR APPROVAL: OPERATOR APPROVAL: PARTINER COMPANY NAME: DATE: 12/13/19 12/13/19		TOTAL INTANGIBLE CO	STS		\$ 771,427	\$ 1,039,360	\$ 1,810,787
PREPARED BY: OPERATOR APPROVAL:		TOTAL ESTIMATED	WELL COST		¢ 4400 707	A	A
OPERATOR APPROVAL: OPERATOR APPROVAL: OPERATOR APPROVAL: DATE: 12/13/19 CEO or COO DATE: 12/13/19					4,102,121	Ψ 3,333,866	9,000,507
OPERATOR APPROVAL: DATE: 12/13/11 PARTNER COMPANY NAME:	PREPAR	KED BY:	- /		Senior Operations Engineer	DATE:	12/13/2019
OPERATOR APPROVAL: DATE: 12/13/11 PARTNER COMPANY NAME:	ODEBA	TOR ADDROVAL.	1 1 Kidsh				15 / 0 /10
OPERATOR APPROVAL: DATE: 12/13/11 PARTNER COMPANY NAME:	UFERA	TOR APPROVAL	TOC TWIT Sh	· pres	VP - Operations	DATE:	12/13/19
PARTNER COMPANY NAME:	OPED A	TOR APPROVAL.	11-1-1				12/12/19
DARTHER ARROWAL.	OI LIVA	TON ALT NOVAL.	100	5	CEO or COO	DATE:	1-11-11
DARTHED ARRESTALL			A STATE OF THE STA				
DARTHED ARRESTALL							
DADTNICO ARPROVAL							
DADTNICO ARPROVAL	PARTNE	ER COMPANY NAME					
PARTNER APPROVAL:							
	PARTN	ER APPROVAL:				DATE	



TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-285-4391

LATERA	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	32
	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION	Wolfcamp A	DEPTH (TVD/TMD)	10,261' / 20,261'
	M-HOLE LOCATION	T23S, R29E, Sec 10 NE/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
PROJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline costs f	or 9,900' horizontal	well.		
LOOT		Secretary Potash Area				
ACCT.		DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
	SURVEY/PERMITS/DAM	INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
	LOCATION & ROAD	AGES/LEGAL		\$ 50,00 175,00		\$ 50,000
	RIG MOVE			150,00		175,000
	DRILLING - FOOTAGE			85,00		150,000
	DRILLING - DAYWORK			853,60		85,000 853,600
	COMPLETION/WORKOV	ER RIG		855,00	60,000	60,000
	COIL TUBING/SNUBBING				160,000	160,000
	SLICKLINE/SWABBING				160,000	160,000
09	BITS			100.00	0 5,000	105,000
10	DIRECTIONAL SERVICE	S		190,00		190,000
	CASING CREW			80,00		80,000
	TOOL & EQUIPMENT RE	NTAL		168,00		248,000
	FUEL & POWER			126,00		226,000
14	DIESEL - BASE FOR MU	D		100,00		100,000
15	MUD LOGGING & GEOLG	OGIST		28.00		28,000
	DISPOSAL, RESTORATI	PURILINE P.		150,00		150,000
	TRUCKING			150,00		190,000
	TESTING			100,00	40,000	190,000
	CEMENTING			160,00	n	160,000
	PERFORATING			100,00	358,000	358,000
	CASED HOLE LOGS				336,000	358,000
	DOWNHOLE TOOLS & S	ERVICE		77,70	50,000	127,700
	OTHER STIMULATION			17,10	50,000	127,700
	FORMATION STIMULATI	ON			2,834,500	2,834,500
25	CONSULTING SERVICES	S			20,000	2,834,300
	SUPERVISION			132,00		232,000
27	CONTRACT LABOR			100,00		120,000
28	OTHER LABOR			100,00		200,000
29	COMPANY CONSULTING	G/SUPV		100,00	100,000	200,000
30	WATER			50,00	0 530,000	580,000
31	FLUIDS & CHEMICALS			200,00		200,000
32	CORING & ANALYSIS					0
33	COMMUNICATIONS			10,00	0 10,000	20,000
34	BOP TESTING			20,00		30,000
36	FISHING TOOLS & SERV	/ICES			10,000	0
37	INSPECTIONS			10,00	5,000	15,000
38	WIRELINE SERVICES				0,000	0
39	ENGINEERING & GEOLG	OGY - FIELD				0
40	ENGINEERING & GEOLG	OGY - OFFICE		15,00	0	15,000
41	MULTISHOT & GYRO					0
42	RE-ENTRY SERVICES					0
43	CAMPS & TRAILERS			56,00	0 15,000	71,000
44	SAFETY EQUIPMENT &	H2S		5,00		10,000
45	CONTINGENCY			-111	0,000	0
46	INSURANCE			10,00	2,000	12,000
47	MISCELLANEOUS			10,00		20,000
	SIM-OPS				10,000	0
	TOTAL INTANGIBLE CO	STS		\$ 3,361,30	0 \$ 4,514,500	
		TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
	CASING - CONDUCTOR			\$ 10.00		\$ 10,000
	CASING - SURFACE			20,22	9	20,229
03	CASING - INTERMEDIAT	E		83,95	2	83,952
	CASING - INTERMEDIAT					0
	CASING - PRODUCTION			477,83	5	477,835
	SUBSURFACE EQUIPME	NT		50,00	25,000	75,000
	PRODUCTION TUBING				74,360	74,360
	SUBSURFACE PUMPING					0
_	WELLHEAD EQUIPMENT			70,00	20,000	90,000
	FLOWLINES				100,000	100,000
	SURFACE PUMPING EQ					0
	LINER HANGER & ASSO	C EQUIP				0
	VALVES & FITTINGS				200,000	200,000
	RODS					0
	TRUCKING			50,00	10,000	60,000
	RE-ENTRY EQUIPMENT PRODUCTION EQUIPME					0
		:N1			600,000	600,000
	MISCELLANEOUS TANGIBLE EQUIP-ACQU	INCITIONS		10,00	0 10,000	20,000
	TOTAL INTANGIBLE CO					0
	TOTAL INTANGIBLE CU	010		\$ 772,01	6 \$ 1,039,360	\$ 1,811,376
	TOTAL ESTIMATED \	WELL COST		\$ 4,133,316	\$ 5,553,860	\$ 9,687,176
REPAR	RED BY:	Aaron Cattley		Senior Operations Engineer	DATE:	12/13/2019
PERA	TOR APPROVAL:	for Kurt SI	ala l	VP - Operations	DATE:	12/13/19
		7. 71.	17		DATE.	
OPERA	TOR APPROVAL:	In law		CEO or COO	DATE:	12/13/19
		1			DATE.	14141
ARTN	ER COMPANY NAME:					
A P	-D 488860					
	ER APPROVAL:				DATE:	



TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklahoma City, Oklahoma 73116 405-286-4391

WELL N		AFE TYPE		AFE NUMBER	2015128
		FIELD FORMATION	Northern Delaware Wolfcamp A	DRILLING DAYS DEPTH (TVD/TMD)	32
	AND THE PARTY OF T	COUNTY	Eddy County	STATE	10,281' / 20,281' New Mexico
-	CT DESCRIPTION Drilling, completion, facilities and pipeline costs for 9			SIAIL	New Mexico
_	Secretary Potash Area				
CCT.	DESCRIPTION OF EXPENDITURE			COST ESTIMATE	
ODE 01	INTANGIBLE COSTS SURVEY/PERMITS/DAMAGES/LEGAL		DRILLING (300)	COMPLETION (500)	
_	LOCATION & ROAD		\$ 50,000 175,000		\$ 50,00
_	RIG MOVE		150,000		175,00 150,00
_	DRILLING - FOOTAGE		85,000		85.00
05	DRILLING - DAYWORK		853,600		853,60
06	COMPLETION/WORKOVER RIG			60,000	60,00
_	COIL TUBING/SNUBBING UNIT			160,000	160,00
-	SLICKLINE/SWABBING				
_	BITS		100,000	5,000	105.00
	DIRECTIONAL SERVICES CASING CREW		190,000		190,00
	TOOL & EQUIPMENT RENTAL		80,000 168,000	00.000	80,00
_	FUEL & POWER		126,000	80,000 100,000	248,00
	DIESEL - BASE FOR MUD		100,000	100,000	226,00
15	MUD LOGGING & GEOLOGIST		28,000		28,00
	DISPOSAL, RESTORATION & BACKFILL		150,000		150,00
_	TRUCKING		150,000	40,000	190,00
_	TESTING				
	CEMENTING		160,000		160,00
	PERFORATING CASED HOLE LOGS			358,000	358,00
	DOWNHOLE TOOLS & SERVICE		77 76.		
	OTHER STIMULATION		77,700	50,000	127,70
	FORMATION STIMULATION			2.834.500	2 924 50
_	CONSULTING SERVICES			2,834,500	2,834,50
26	SUPERVISION		132,000	100,000	232,00
	CONTRACT LABOR		100,000	20,000	120,00
	OTHER LABOR		100,000	100,000	200,00
	COMPANY CONSULTING/SUPV				
_	WATER FLUIDS & CHEMICALS		50,000	530,000	580,00
-	CORING & ANALYSIS		200,000		200,00
_	COMMUNICATIONS		10.000	40.000	00.00
	BOP TESTING		10,000	10,000	20,00
	FISHING TOOLS & SERVICES		20,000	10,000	30,00
37	INSPECTIONS		10,000	5,000	15,00
-	WIRELINE SERVICES			0,000	10,00
	ENGINEERING & GEOLOGY - FIELD				
	ENGINEERING & GEOLOGY - OFFICE		15,000		15,00
	MULTISHOT & GYRO				
	RE-ENTRY SERVICES CAMPS & TRAILERS				
	SAFETY EQUIPMENT & H2S		56,000	15,000	71,00
	CONTINGENCY		5,000	5,000	10,00
$\overline{}$	INSURANCE		10,000	2.000	40.00
47	MISCELLANEOUS		10,000	2,000	12,00
	SIM-OPS		10,000	10,000	20,00
	TOTAL INTANGIBLE COSTS		\$ 3,361,300	\$ 4,514,500	
	TANGIBLE COSTS		DRJLLING (400)	COMPLETION (600)	TOTAL
	CASING - CONDUCTOR		\$ 10,000		\$ 10,00
	CASING - SURFACE		20,229		20,22
	CASING - INTERMEDIATE CASING - INTERMEDIATE 2		83,952		83,95
_	CASING - PRODUCTION / LINER		470.007		
	SUBSURFACE EQUIPMENT		478,307	200.20	478,30
_	PRODUCTION TUBING		50,000	25,000	75,00
	SUBSURFACE PUMPING EQUIPMENT			74,360	74,36
	WELLHEAD EQUIPMENT		70,000	20,000	90,00
_	FLOWLINES			100,000	100,00
_	SURFACE PUMPING EQUIPMENT				
	LINER HANGER & ASSOC EQUIP				
$\overline{}$	VALVES & FITTINGS RODS			200,000	200,00
_	TRUCKING		F0 000		
	RE-ENTRY EQUIPMENT		50,000	10,000	60,00
	PRODUCTION EQUIPMENT			600,000	600.00
_	MISCELLANEOUS		10,000	10,000	600,00
	TANGIBLE EQUIP-ACQUISITIONS		10,000	10,000	20,00
	TOTAL INTANGIBLE COSTS		\$ 772,488	\$ 1,039,360	\$ 1,811,84
	TOTAL ESTIMATED WELL COST		£ 4422.700	£ 5,772,000	
			\$ 4,133,788	\$ 5,553,860	\$ 9,687,64
	RED BY: Aaron Cattley	J	Senior Operations Engineer	DATE:	12/13/2019
ERA	TOR APPROVAL:	uy	VP - Operations	DATE:	12/13/19
FRAT	TOR APPROVAL:	/			12/19/16
-104	TON OF FROMAL	10	CEO or COO	DATE:	1-/15/17



PARTNER APPROVAL:

TITLE:

NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE 1001 West Wilshire, Suite 206 Oklehorna City, Oklahorna 73116 405-208-4391

AUT I I A	TARRE .	10	405-286-4391			
MELL N	AL LOCATION	Saturninus Fed Com 1510 231H T23S, R29E, Sec 15 - T23S, R29E, Sec 10	AFE TYPE FIELD	Development Northern Delaware	AFE NUMBER	2015129
	CE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4	FORMATION		DRILLING DAYS DEPTH (TVD/TMD)	32 10,946' / 20,946'
OTTO	M-HOLE LOCATION	T23S, R29E, Sec 10 NW/4 NW/4	COUNTY	Eddy County	STATE	New Mexico
OJE	CT DESCRIPTION	Drilling, completion, facilities and pipeline cos	sts for 9,900' horizont	al well.		
CCT.		Secretary Potash Area DESCRIPTION OF EXPENDITURE			2007 507	
ODE		INTANGIBLE COSTS		DRILLING (300)	COST ESTIMATE COMPLETION (500)	
01	SURVEY/PERMITS/DAM			\$ 50,000	COMPLETION (500)	\$ 50.00
	LOCATION & ROAD			175,000		175,0
03	RIG MOVE			150,000		150,0
04 05	DRILLING - FOOTAGE DRILLING - DAYWORK			85,000		85,0
06	COMPLETION/WORKO	/FR RIG		853,600	00.000	853,6
07	COIL TUBING/SNUBBIN				60,000 160,000	60,0
80	SLICKLINE/SWABBING				100,000	100,0
09	BITS			100,000	5,000	105,0
10	DIRECTIONAL SERVICE	S		190,000		190,0
11 12	CASING CREW TOOL & EQUIPMENT R	NTAL		80,000		80,0
	FUEL & POWER	INTAL		168,000	80,000	248,0
	DIESEL - BASE FOR MIL	JD		126,000	100,000	226,0
15	MUD LOGGING & GEOL	OGIST		28,000		100,0
	DISPOSAL, RESTORAT	ON & BACKFILL		150,000		150.0
_	TRUCKING			150,000	40,000	190,00
	TESTING CEMENTING					
	PERFORATING			160,000	855.55	160,00
	CASED HOLE LOGS				358,000	358,00
	DOWNHOLE TOOLS &	SERVICE		77,700	50,000	127,70
23	OTHER STIMULATION	1011			25,230	121,11
	FORMATION STIMULAT CONSULTING SERVICE				2,834,500	2,834,50
	SUPERVISION	J		400.000	20,000	20,00
	CONTRACT LABOR			132,000	100,000	232,00
28	OTHER LABOR			100,000	100,000	120,00
	COMPANY CONSULTIN	G/SUPV			.50,000	200,00
	WATER			50,000	530,000	580,00
32	FLUIDS & CHEMICALS CORING & ANALYSIS			200,000		200,00
33	COMMUNICATIONS			10.000	40.000	
34	BOP TESTING			10,000	10,000	20,00
	FISHING TOOLS & SER	/ICES		24,500	10,000	30,00
	INSPECTIONS			10,000	5,000	15,00
	WIRELINE SERVICES ENGINEERING & GEOL	OCY FIELD				
	ENGINEERING & GEOL			45.000		
	MULTISHOT & GYRO			15,000		15,00
	RE-ENTRY SERVICES					
-	CAMPS & TRAILERS			56,000	15,000	71,00
-	SAFETY EQUIPMENT & CONTINGENCY	H2S		5,000	5,000	10,00
_	INSURANCE			10,000	0.000	
-	MISCELLANEOUS			10,000	2,000	12,00
	SIM-OPS			10,000	10,000	20,00
-	TOTAL INTANGIBLE CO			\$ 3,361,300	\$ 4,514,500	\$ 7,875,80
01	CASING - CONDUCTOR	TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
	CASING - SURFACE			\$ 10,000 20,229		\$ 10,00
	CASING - INTERMEDIAT			83,952		20,22 83,95
	CASING - INTERMEDIAT			50,502		03,93
	CASING - PRODUCTION			493,990		493,99
	SUBSURFACE EQUIPM PRODUCTION TUBING	:N		50,000	25,000	75,00
	SUBSURFACE PUMPING	S EQUIPMENT			74,360	74,36
_	WELLHEAD EQUIPMEN			70,000	20,000	00.00
	FLOWLINES			70,000	100,000	90,00
	PHILIPPINS -	HDMENT			700,000	100,00
11	SURFACE PUMPING EC					
11 12	LINER HANGER & ASSO					
11 12 13	LINER HANGER & ASSO VALVES & FITTINGS				200,000	200,00
11 12 13 15	LINER HANGER & ASSO			E0 000		200,00
11 12 13 15 17 20	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT	C EQUIP		50,000	200,000	200,00
11 12 13 15 17 20 34	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME	C EQUIP		50,000		200,00
11 12 13 15 17 20 34	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS	C EQUIP		50,000	10,000	200,00 60,00 600,00
11 12 13 15 17 20 34 47	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQL	EQUIP ENT ISITIONS		10,000	10,000 600,000 10,000	200,00 60,00 600,00 20,00
11 12 13 15 17 20 34 47	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUITOTAL INTANGIBLE CO	ENT ISITIONS STS		10,000	10,000 600,000 10,000 \$ 1,039,360	200,00 60,00 20,00
11 12 13 15 17 20 34 47	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQL	ENT ISITIONS STS		10,000	10,000 600,000 10,000 \$ 1,039,360	200,00 60,00 600,00 20,00 \$ 1,827,53
11 12 13 15 17 20 34 47 49	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ENT ISITIONS STS		10,000	10,000 600,000 10,000 \$ 1,039,360	200,00 60,00 20,00 \$ 1,827,53
11 12 13 15 17 20 34 47 49	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQUITOTAL INTANGIBLE CO	ENT ISITIONS STS		10,000	10,000 600,000 10,000 \$ 1,039,360	200,00 60,00 600,00 20,00 \$ 1,827,53
11 12 13 15 17 20 34 47 49	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ENT INT INT INSTITIONS STS WELL COST Aaron Cattley	o'du	10,000 \$ 788,171 \$ 4,149,471 Senior Operations Engineer	10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	200,00 600,00 20,00 \$ 1,827,53 \$ 9,703,33
111 112 113 115 117 120 20 34 447 49	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO TOTAL ESTIMATED RED BY:	ENT IISITIONS STS WELL COST	idey	10,000 \$ 788,171 \$ 4,149,471	10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	200,00 60,00 600,00 20,00 \$ 1,827,53 \$ 9,703,33
111 112 113 115 117 120 20 34 447 49	LINER HANGER & ASSO VALVES & FITTINGS RODS TRUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPME MISCELLANEOUS TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO	ENT INT INT INSTITIONS STS WELL COST Aaron Cattley	rpley	10,000 \$ 788,171 \$ 4,149,471 Senior Operations Engineer	10,000 600,000 10,000 \$ 1,039,360 \$ 5,553,860	200,00 60,00 600,00 20,00 \$ 1,827,53 \$ 9,703,33

DATE:



NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE

ELL N	AME	Saturninus Fed Com 1510 232H	AFE TYPE	Development	AFE NUMBER	2015130
TER/	AL LOCATION	T23S, R29E, Sec 15 - T23S, R29E,		Northern Delaware	DRILLING DAYS	32
-	CE LOCATION W-HOLE LOCATION	T23S, R29E, Sec 15 SW/4 SW/4 T23S, R29E, Sec 10 NW/4 NW/4	FORMATION		DEPTH (TVD/TMD)	10,961' / 20,961'
	CT DESCRIPTION	Drilling, completion, facilities and pip	COUNTY	Eddy County	STATE	New Mexico
	. DECOM NOW	Secretary Potash Area	Jenne costs for 9,900. Nonzonta	ıı well.		
CT.		DESCRIPTION OF EXPENDITUR	RE		COST ESTIMATE	
DE		INTANGIBLE COSTS		DRILLING (300)	COMPLETION (500)	
-	SURVEY/PERMITS/DAM/	GES/LEGAL		\$ 50,000		\$ 50
	LOCATION & ROAD			175,000		175
_	RIG MOVE			150,000		150
	DRILLING - FOOTAGE			85,000		85
	DRILLING - DAYWORK COMPLETION/WORKOV	ED DIO		853,600		853
_	COIL TUBING/SNUBBING				60,000	
	SLICKLINE/SWABBING	ONII			160,000	160
_	BITS			100 000	5.000	
	DIRECTIONAL SERVICES	3		100,000		105
1	CASING CREW			80,000		190
-	TOOL & EQUIPMENT RE	NTAL		168,000		248
_	FUEL & POWER			126,000		226
	DIESEL - BASE FOR MUI			100,000		100
	MUD LOGGING & GEOLO			28,000		28
	DISPOSAL, RESTORATION TRUCKING	IN & BACKFILL		150,000		150
-	TESTING			150,000	40,000	190
-	CEMENTING					
-	PERFORATING			160,000		160
-	CASED HOLE LOGS				358,000	358
-	DOWNHOLE TOOLS & SI	RVICE		77,700	E0.000	
3	OTHER STIMULATION			17,700	50,000	127
	FORMATION STIMULATION				2,834,500	2,834
	CONSULTING SERVICES				20,000	20
_	SUPERVISION			132,000	100,000	232
-	CONTRACT LABOR			100,000	20,000	120
_	OTHER LABOR COMPANY CONSULTING	ICH IDW		100,000	100,000	200
	WATER	SUPV				
-	FLUIDS & CHEMICALS			50,000	530,000	580
-	CORING & ANALYSIS			200,000		200
_	COMMUNICATIONS			40,000	10.00	
	BOP TESTING			10,000	10,000	20
5	FISHING TOOLS & SERV	CES		20,000	10,000	30,
-	NSPECTIONS			10,000	5,000	15
	MRELINE SERVICES				0,000	15,
	ENGINEERING & GEOLO					
	ENGINEERING & GEOLO	3Y - OFFICE		15,000		15,
	MULTISHOT & GYRO RE-ENTRY SERVICES					
	CAMPS & TRAILERS					
	SAFETY EQUIPMENT & H	2S		56,000	15,000	71,
	CONTINGENCY			5,000	5,000	10,
i	NSURANCE			10,000	2.000	40
- 1	MISCELLANEOUS			10,000	2,000	12,
	SIM-OPS			10,000	10,000	20,
	TOTAL INTANGIBLE COS	TS		\$ 3,361,300	\$ 4,514,500	\$ 7,875,
۷,	CARDINO CONDUCTOR	TANGIBLE COSTS		DRILLING (400)	COMPLETION (600)	TOTAL
_	CASING - CONDUCTOR			\$ 10,000	1	\$ 10,
_	CASING - SURFACE CASING - INTERMEDIATE			20,229		20,
_	CASING - INTERMEDIATE			83,952		83,
	CASING - INTERMEDIATE					
	SUBSURFACE EQUIPMEN			494,344		494,
	PRODUCTION TUBING			50,000	25,000	75,
5	SUBSURFACE PUMPING	EQUIPMENT			74,360	74,
١	WELLHEAD EQUIPMENT			70,000	20,000	
	LOWLINES			, 0,000	100,000	90,
	SURFACE PUMPING EQU				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100,
S		EQUIP				
L	INER HANGER & ASSOC				200,000	200,
L	ALVES & FITTINGS					
L					10,000	60,
L	ALVES & FITTINGS RODS			50,000	1,51,535	
L V F	ALVES & FITTINGS RODS RUCKING	Т		50,000		
L V F T F	ALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT	Т			600,000	600,
L V F F F	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS TANGIBLE EQUIP-ACQUIS	SITIONS		10,000		600, 20,
E F	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS	SITIONS		10,000	600,000 10,000	20,
S L	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT RODUCTION EQUIPMEN MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS	SITIONS TS		10,000 \$ 788,525	600,000 10,000 \$ 1,039,360	
S L	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS TANGIBLE EQUIP-ACQUIS	SITIONS TS		10,000	600,000 10,000	20,
S L	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT RODUCTION EQUIPMEN MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS OTAL ESTIMATED W	EITIONS TS ELL COST		10,000 \$ 788,525	600,000 10,000 \$ 1,039,360	\$ 1,827,
F F T T T	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS TOTAL ESTIMATED W	EITIONS TS ELL COST Aaron Cattley		10,000 \$ 788,525	600,000 10,000 \$ 1,039,360	\$ 1,827,
F F F T T T	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT RODUCTION EQUIPMEN MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS OTAL ESTIMATED W	EITIONS TS ELL COST Aaron Cattley		10,000 \$ 788,525 \$ 4,149,825	\$ 1,039,360 \$ 5,553,860 DATE:	\$ 1,827,6 \$ 9,703,6 12/13/2019
F F M T T T T T T T T T T T T T T T T T	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMENT MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS OTAL ESTIMATED W ED BY: OR APPROVAL:	EITIONS TS ELL COST Aaron Cattley	1 Sheeter	10,000 \$ 788,525 \$ 4,149,825 Senior Operations Engineer	\$ 1,039,360 \$ 5,553,860	\$ 1,827,6 \$ 9,703,6
F F F M T T T T T T T T T T T T T T T T	VALVES & FITTINGS RODS RUCKING RE-ENTRY EQUIPMENT PRODUCTION EQUIPMEN MISCELLANEOUS ANGIBLE EQUIP-ACQUIS OTAL INTANGIBLE COS TOTAL ESTIMATED W	EITIONS TS ELL COST Aaron Cattley	+ Shipley	10,000 \$ 788,525 \$ 4,149,825 Senior Operations Engineer	\$ 1,039,360 \$ 5,553,860 DATE:	\$ 1,827,6 \$ 9,703,6 12/13/2019

PARTNER COMPANY NAME:	
PARTNER APPROVAL:	DATE:
TMLE:	



NOVO OIL & GAS NORTHERN DELAWARE, LLC

AUTHORIZATION FOR EXPENDITURE 1001 West Witshire, Suite 206 Oklahoma Gity, Oklahoma 75116 405-4094

VELL	NAME	Satuminus Fed Com 1510 2		286-4391 AFE TYPE	Development	AFE NUMBER	2015131
	AL LOCATION	T23S, R29E, Sec 15 - T23S	S, R29E, Sec 10	FIELD	Northern Delaware	DRILLING DAYS	32
and the second	CE LOCATION M-HOLE LOCATION	T23S, R29E, Sec 15 SW/4		FORMATION		DEPTH (TVD/TMD)	10,976' / 20,976'
	CT DESCRIPTION	T23S, R29E, Sec 10 NE/4 N Drilling, completion, facilities		COUNTY	Eddy County	STATE	New Mexico
		Secretary Potash Area		O,000 HOLLUNG	i weil.		
CT.		DESCRIPTION OF EXPE				COST ESTIMATE	
01	SURVEY/PERMITS/DAN	INTANGIBLE COS	518		DRILLING (300) \$ 50,000	COMPLETION (500)	6 50.0
02	LOCATION & ROAD	VIOLO/LEG/IL			175,000		\$ 50,0 175,0
03	RIG MOVE				150,000		150,0
04	DRILLING FOOTAGE				85,000		85,0
05 06	DRILLING - DAYWORK COMPLETION/WORKO	/ED DIC			853,600		853,6
07	COIL TUBING/SNUBBIN				-	60,000	60,0
80	SLICKLINE/SWABBING					160,000	160,0
09	BITS				100,000	5,000	105,0
10	DIRECTIONAL SERVICE	S			190,000		190,0
11 12	CASING CREW TOOL & EQUIPMENT R	CNITAL			80,000		80,0
	FUEL & POWER	LIVIAL			168,000 126,000	80,000 100,000	248,0
	DIESEL - BASE FOR MU	JD D			100,000	100,000	226,0
	MUD LOGGING & GEOL				28,000		28,0
	DISPOSAL, RESTORAT	ION & BACKFILL			150,000		150,0
	TRUCKING TESTING				150,000	40,000	190,0
	CEMENTING				160,000		400.0
	PERFORATING				160,000	358,000	160,0 358,0
	CASED HOLE LOGS					556,000	338,0
	DOWNHOLE TOOLS &	SERVICE			77,700	50,000	127,7
_	OTHER STIMULATION FORMATION STIMULAT	ION					
	CONSULTING SERVICE	The second secon				2,834,500	2,834,5
	SUPERVISION				132,000	20,000	20,0
27	CONTRACT LABOR				100,000	20,000	232,0
	OTHER LABOR	O (O) ID) (100,000	100,000	200,0
	COMPANY CONSULTIN WATER	G/SUPV					
_	FLUIDS & CHEMICALS				50,000	530,000	580,0
	CORING & ANALYSIS				200,000		200,0
	COMMUNICATIONS				10,000	10,000	20,0
_	BOP TESTING	1000			20,000	10,000	30,0
	FISHING TOOLS & SER' INSPECTIONS	VICES					
_	WIRELINE SERVICES				10,000	5,000	15,0
	ENGINEERING & GEOL	OGY - FIELD					
	ENGINEERING & GEOL	OGY - OFFICE			15,000		15,00
	MULTISHOT & GYRO						
	RE-ENTRY SERVICES CAMPS & TRAILERS				50.000		
_	SAFETY EQUIPMENT &	H2S			56,000 5,000	15,000	71,0
	CONTINGENCY				3,000	5,000	10,00
	INSURANCE				10,000	2,000	12,00
_	MISCELLANEOUS SIM-OPS				10,000	10,000	20,00
	TOTAL INTANGIBLE CO	STS			\$ 3,361,300		
		TANGIBLE COST	rs		\$ 3,361,300 DRILLING (400)	\$ 4,514,500 COMPLETION (600)	\$ 7,875,80 TOTAL
	CASING - CONDUCTOR				\$ 10,000	OOM ETION (000)	\$ 10,0
	CASING - SURFACE				20,229		20,2
	CASING - INTERMEDIAT CASING - INTERMEDIAT				83,952		B3,9
_	CASING - PRODUCTION				494,698		404.04
6	SUBSURFACE EQUIPM				50,000	25,000	494,69 75,0
	PRODUCTION TUBING					74,360	74,30
	SUBSURFACE PUMPING WELLHEAD EQUIPMEN						
_	FLOWLINES				70,000	20,000	90,00
-	SURFACE PUMPING EC	UIPMENT				100,000	100,0
2	LINER HANGER & ASSO						
	VALVES & FITTINGS					200,000	200,00
_	RODS TRUCKING						
$\overline{}$	RE-ENTRY EQUIPMENT				50,000	10,000	60,00
4	PRODUCTION EQUIPME					600,000	200.00
_	MISCELLANEOUS	NV 114112 1 1/12			10,000	10,000	600,00 20,00
	TANGIBLE EQUIP-ACQU TOTAL INTANGIBLE CO				<u> </u>		25,00
					\$ 788,879	\$ 1,039,360	\$ 1,828,23
	TOTAL ESTIMATED	NELL COST			\$ 4,150,179	\$ 5,553,860	\$ 9,704,03
PAF	RED BY:	Aaron Cattley			Senior Operations Engineer	DATE:	12/13/2019
RAT	OR APPROVAL:	AN E	KIL CL.	d.			
1157	THOUSE THOUSE	701	Kurt Shi	may	VP - Operations	DATE:	12/13/19
ERAT	FOR APPROVAL:	- In	Jahr		GEO or COO	DATE	12/13/19
					3		11011
_							
TNE	R COMPANY NAME:						
	0505.0000						
	ER COMPANY NAME:					DATE:	



Novo Well Proposals

	200		
Well Name	Formation	Z	Take Point Footage
Saturninus Fed Com 15 111H	1st Bone Spring	7,776	330' FWL
Saturninus Fed Com 15 112H	1st Bone Spring	7,796	1,870' FWL
Saturninus Fed Com 1510 121H	2nd Bone Spring	,969'8	330' FWL
Saturninus Fed Com 1510 122H	2nd Bone Spring	8,731	1,870' FWL
Saturninus Fed Com 1510 131H	3rd Bone Spring	9,916	330' FWL
Saturninus Fed Com 1510 132H	3rd Bone Spring	9,936	1,870' FWL
Saturninus Fed Com 1510 211H	Wolfcamp XY	10,066'	330' FWL
Saturninus Fed Com 1510 212H	Wolfcamp XY	10,091'	1,122' FWL
Saturninus Fed Com 1510 215H	Wolfcamp XY	10,106'	1,914' FWL
Saturninus Fed Com 1510 221H	Wolfcamp A	10,236'	726' FWL
Saturninus Fed Com 1510 222H	Wolfcamp A	10,261'	1,518' FWL
Saturninus Fed Com 1510 225H	Wolfcamp A	10,281	2,310' FWL
Saturninus Fed Com 1510 231H	Wolfcamp B	10,946'	330' FWL
Satuminus Fed Com 1510 232H	Wolfcamp B	10,961'	1,254' FWL
Satuminus Fed Com 1510 235H	Wolfcamp B	10,976'	2,178' FWL

2,310' FWL 2,178' FWL 1,914' FWL 1,870' FWL 1,870' FWL 1,870' FWL 1,518' FWL 1,254' FWL 2,640 1,122' FWL 726' FWL 330' FWL 330° FWL 330' FWL 330' FWL 330' FWL 2nd Bone Spring Sand 3rd Bone Spring Sand 1⁵t Bone Spring Sand Wolfcamp XY Wolfcamp A Wolfcamp B

Novo's illustrative cross section

Stratigraphic Column

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 14

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

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

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

CASE NOS. 21037-21040

<u>AFFIDAVIT</u>

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

Michael H. Feldewert, attorney in fact and authorized representative Novo Oil and 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.

Michael H. Feldewert

SUBSCRIBED AND SWORN to before me this 19th day of February, 2020 by Michael H. Feldewert.

My Commission Expires:

Nov. 12,2023

OFFICIAL SEAL
Carla Garcia
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires: Nov. 12, 2023

Case Nos. 21037-21040 Postal Delivery Reports Novo - Saturninus Wells

> Recipient **Tracking Number**

9214890194038304267187 (Lenox Mineral Title Holdings Inc 100 Throckmorton Street Suite 1630 Fort Worth TX 76102

9214890194038304267194 · Michael D Hayes & Kathryn A Hayes Co-trustees of the Hayes Revocable Trust 3608 Meadowridge Lane Midland TX 79707 9214890194038304267200 (Rubicon Oil & Gas LLC 508 W Wall Street #500 Midland TX 79701 9214890194038304267217 (Quientesa Royalty LP 508 W Wall Street #500 Midland TX 79701

Delivered Signature Received Delivered Signature Received

In-Transit Delivered Signature Received Delivered Signature Received

Novo - Saturninus Wells Case Nos. 21038-21040 Postal Delivery Report

9214890194038304267385 (Wade Petroleum Corporation 21001 Altura Azul Lane NE Albuquerque NM 87110 9214890194038304267392 (COG Operating LLC One Concho Center 600 W Illinois Avenue Midland TX 79701 9214890194038304267378 (McCully-Chapman Inc PO BOX 1389 Sealy TX 77474 Recipient **Tracking Number**

Status
Delivered Signature Received
Delivered Signature Received
Delivered Signature Received



January 16, 2020

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

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

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

pooling, Eddy County, New Mexico. Saturninus Fed Com 15 #111H Well

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 February 6, 2020, 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



January 16, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

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

pooling, Eddy County, New Mexico.

Saturninus Fed Com 1510 #121H and #131H 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 February 6, 2020, 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



January 16, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: VERTICAL OFFSETS IN POOL

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

pooling, Eddy County, New Mexico.

Saturninus Fed Com 1510 #121H and #131H Wells

Ladies & Gentlemen:

This letter is to advise you that SEP Permian, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. This application will be set for hearing before a Division Examiner at 8:15 a.m. on February 6, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. Your interest is not being pooled by this application. You are receiving this notice because you own an interest in the Penasco Draw; San Andres Yeso Pool (50270) that is not being included in the horizontal spacing unit. 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 challenging the matter at a later date.

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 icarter@novoog.com.

183

Michael H. Feldewert

ATTORNEY FOR NOVO OIL & GAS NORTHERN



January 16, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: VERTICAL OFFSETS IN POOL

Re:

Application of Novo Oil & Gas Northern Delaware, LLC for compulsory

pooling, Eddy County, New Mexico.

Saturninus Fed Com 1510 #122H, #132H Wells

Ladies & Gentlemen:

This letter is to advise you that SEP Permian, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. This application will be set for hearing before a Division Examiner at 8:15 a.m. on February 6, 2020 and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. Your interest is not being pooled by this application. You are receiving this notice because you own an interest in the Penasco Draw; San Andres Yeso Pool (50270) that is not being included in the horizontal spacing unit. 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 challenging the matter at a later date.

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



January 16, 2020

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

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

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

pooling, Eddy County, New Mexico.

Saturninus Fed Com 1510 #122H, #132H 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 February 6, 2020, 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



January 16, 2020

<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.

Saturninus Fed Com 1510 #211, #212, #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 February 6, 2020, 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.

11

Michael H. Feldewert

ATTORNEY FOR NOVO OIL & GAS NORTHERN



January 16, 2020

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

TO: VERTICAL OFFSETS IN POOL

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

pooling, Eddy County, New Mexico.

Saturninus Fed Com 1510 #211, #212, #215H, #221H, #222H, #225H,

#231H, #232H, #235H Wells

Ladies & Gentlemen:

This letter is to advise you that SEP Permian, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. This application will be set for hearing before a Division Examiner at 8:15 a.m. on February 6, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. Your interest is not being pooled by this application. You are receiving this notice because you own an interest in the Penasco Draw; San Andres Yeso Pool (50270) that is not being included in the horizontal spacing unit. 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 challenging the matter at a later date.

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 jearter@novoog.com.

Michael H. Feldewert

ATTORNEY FOR NOVO OIL & GAS NORTHERN





Shipment Confirmation Acceptance Notice

Note to Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

Novo - Saturninus Wells Case Nos. 21037-21040 CM# 104370,0001

Shipment Date: 01/16/2020

Shipped From:

Name: HOLLAND & HART LLP (1)

Address: 110 N GUADALUPE ST # 1

City: SANTA FE

State: NM ZIP+4® 87501

Type of Mail	Volume
Priority Mail Express®*	
Priority Mail®	0
First-Class Package Service®	
Returns	
International*	
Other	5
Total	5

^{*}Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

B. USPS Action

Note to RSS Clerk:

- 1. Home screen > Mailing/Shipping > More 2. Select Shipment Confirm

- 3. Scan or enter the barcode/label number from PS Form 5630
 4. Confirm the volume count message by selecting Yes or No
 5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer of in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE

9275 0901 1935 6200 0019 6365 41

Mail	
able	
unt	
Acco	
For /	
ok	
Bo	
Mailing	
Firm	

ATES	RVICE®
IITED ST.	STAL SEI
5	PO

		SH Fee				6(δι	ıilk	Juel	l le	sipadS							ypolicy.
		SCRD Fee					ery.	1	əc] F	oete	1J	sə	A no	ite	milin	90	ature (ngiS				rivac
		SC Fee									noi	ยเ	uı	iłno) e	natur	bia	S				3	d/moo
		R Be	1.60			1.60			1.60			-	_		-	Retur							usps.
		Re Fee										(la	۷il	₽Q I) ə	estric	H						visit (
		ASRD Fee						1	19.	۷il	эД	pə:	ict	njsə	A 6	ոռեսո	βi	S flub/	<i>'</i>				cies,
		ASR Fee								F	irec	nb	3e	nre f	tei	ngi2 t	ոբ	ρA					y poli
		Due Sender if COD																					S privac
		Insured Value																					n USF
	onal or receipt). Receipt .	Actual Value if Registered																					Privacy Notice: For more information on USPS privacy policies, visit usps.com/privacypolicy.
	Affix Stamp Here (if issued as an international certificate of mailing or for additional copies of this receipt). Postmark with Date of Receipt.	Handling Charge			ənį	ΒV	ni 00	00	09	3\$	۷e۲	o t	ou	e pə	te1	Regis	ħi	- əbıe	d) guilb	nsH			r more int
	Affix Stamp Here (if issued as an internoctificate of mailing o additional copies of the Postmark with Date	(Extra Service) Fee	3.50			3,50			3.50			3.50			3.50								tice: For
	Aff (if i) cer add	Postage	0.95			0.95			0.95			0.95			0.95								acy No
Check type of mail or service	□ Adult Signature Required □ Priority Mail Express □ Adult Signature Restricted Delivery □ Registered Mail ☒ Certified Mail Restricted Delivery □ Return Receipt for Merchandise □ Collect on Delivery (COD) □ Signature Confirmation □ Insured Mail □ Signature Confirmation □ Priority Mail □ Restricted Delivery	Addressee (Name, Street, City, State, & ZIP Code™)	Titus Oil & Gas Production LLC 100 Throckmorton Street Suite	X 76102		Lenox Mineral Title Holdings Inc 100 Throckmorton Street Suite	X 78102		Michael D Hayes & Kalhryn A Hayes Co-trustees of the Hayes	Revocable Trust 3608 Meadowridge Lane Midland TX 79707		Rubicon Oil & Gas LLC 508 W Wall Street #500 Midland TX 79701			Quientese Royalty LP 508 W Wall Street #500 Midland TX 79701			MAIN	OFFI W	Cu Din	\	rostmaster, Per (Name of receiving employee)	Complete in lnk Priv
Check type	Adult Signatu Adult Signatu Adult Signatu Certified Mail Collect on De Insured Mail	Addre	Titus Oil & Gas Pr	1630 Fort Worth TX 76102		Lenox Mineral Titl	1630 Fort Worth TX 76102		Michael D Hayes	Revocable Trust		Rubicon Oil & Ga			Ouientesa Royalt			MINE	MOS		8666		
Name and Address of Sender		USPS Tracking/Article Number	9214 8901 9403 8304 2671 70			2. 9214 8901 9403 8304 2671 87			3. 9214 8901 9403 8304 2671 94			4. 9214 8901 9403 8304 2672 00			5. 9214 8901 9403 8304 2672 17			100		8780		Total Number of Pieces Listed by Sender Received at Post Office 5	PS Form 3877 , April 2015 (Page 1 of 1)





Shipment Confirmation Acceptance Notice

Note to Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

Novo - Saturninus Wells Case Nos. 21038-21040 CM# 104370.0001

Shipment Date:	01/16/2020
Shipped From:	
Name:	HOLLAND & HART LLP (1)
Address:	110 N GUADALUPE ST # 1
City:	SANTA FE
State:	NM ZIP+4® 87501

Type of Mail	Volume
Priority Mail Express®*	
Priority Mail®	0
First-Class Package Service®	
Returns	
International*	
Other	3
Total	3

^{*}Start time for products with service guarantees will begin when mail arrives at the local Post Office** and items receive individual processing and acceptance scans.

B. USPS Action

Note to RSS Clerk:

1. Home screen > Mailing/Shipping > More

Select Shipment Confirm

Scan or enter the barcode/label number from PS Form 5630
 Confirm the volume count message by selecting Yes or No
 Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE

9275 0901 1935 6200 0019 6366 71

<u>≅</u>
aple
ounta
Acco
For
Book
ing
Mai
Firm

S UNITED STATES	POSTAL SERVICE®
	1

		RD RR SC SCRD SH Fee Fee Fee Fee	1.60		1.60	лецу	1.60		ioi	to an	eiķ lirn Ses	uo: uo: gec	tricte ture D enut itsmr Isice	A en itu	gis	nre	ten	gi8		
		ASR ASRD Fee Fee					GL.	be vila		_		_	ignat A erut	_			pΨ	Ι¥		
		Insured Due Value Sender if COD																		
	r r seceipt, Receipt.	Actual Value Insuit Registered Val																		
	Affix Stamp Here (if issued as an international certificate of mailing or for additional copies of this receipt). Postmark with Date of Receipt.	Handling A		ən	εv	ni 00(09	3\$ J	<u></u>	o p	ยม	рə	ıəteib	Вв	11	- ə6	har	IO gnilb	nsH	
	Affix Stamp Here (if issued as an internicentificate of mailing or additional copies of the Postmark with Date	(Extra Service) Fee	3.50		3.50		3.50													
	Aff (if is cert ado Pos	Postage	0.80		0.80		0.80													
rvice	Adult Signature Required	Addressee (Name, Street, City, State, & ZIP Code [™])	McCully-Chapman Inc PO BOX 1389 Sealy TX 77474		Wade Petroleum Corporation 21001 Altura Azul Lane NE Albuquerque	NM 87110	COG Operating LLC One Concho Center 600 W Illinois Avenue	Midland TX 79701								NATA PE MAIN	00	OFFIC WAY	W 02 25	
Name and Address of Sender	Holland & Hart LLP (1) 110 N Guadalupe St # 1 Santa Fe NM 87501	USPS Tracking/Article Number	1, 9214 8901 9403 8304 2673 78		2. 9214 8901 9403 8304 2673 85		3. 9214 8901 9403 8304 2673 92													Total Number of Discas Total Number of Discas

Affidavit of Publication Ad # 0004013278 This is not an invoice

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:

January 22, 2020

Legal Clerk

Subscribed and sworn before me this January 22,

2020:

State of WH, County of Brown

NOTARY PUBLIC

My commission expires

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold a public hearing before a hearing examiner on February 6, 2020, 8:15 a.m., in Porter Hall, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico. The docket may be viewed electronically on the Division's website, http://www.emnrd.state.nm.us/OCD/hearings.html or obtained from Florene Davidson, OCD Clerk, at (505) 476-3458. Documents filed in the case may be viewed at http://ocdimage.emnrd.st ate.nm.us/imaging/CaseFileCriteria.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in the hearing, contact Florene Davidson, OCD Clerk, at (505) 476-3458, or at the New Mexico Relay Network, 1-800-659-1779, no later than January 27, 2020.

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: Titus Oil & Gas Production, LLC; Lenox Mineral Title Holdings, Inc.; Michael D. Hayes and Kathryn A. Hayes, Co-trustees of the Hayes Revocable Trust; Rubicon Oil & Gas LLC; and Quientesa Royalty LP.

Case No. 21037: 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 First Bone Spring interval of the Bone Spring formation (Laguna Salado; Bone Spring (96721)), from a depth of 7,702 feet to 7,839 feet, underlying a standard 160-acre, more or less, horizontal spacing unit comprised of the W/2 W/2 of Section 15, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the proposed initial Saturninus Fed Com 15 #111H Well, to be horizontally drilled from a surface location in the SW/4 SW/4 (Unit M) of Section 15 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 15. The completed intervals for the well will comply with statewide setbacks. Also, to be considered will be the cost of drilling and completing the well, the allocation of the costs thereof, the actual operating costs and charges for supervision, the designation of applicant as operator of the well, and the imposition of a 200% charge for risk involved in drilling and completing the wells. Said area is located approximately 8 miles east of Loving, New Mexico.

January 22, 2020

Ad # 0004013278 PO #: 21037 # of Aff day ts1

This is not an invoice

NANCY HEYRMAN Notary Public State of Wisconsin

Affidavit of Publication Ad # 0004013295 This is not an invoice

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:

January 22, 2020

Legal Clerk

Subscribed and sworn before me this January 22,

2020:

State of WI, County of Brown
NOTARY PUBLIC

りショ

My commission expires

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold a public hearing before a hearing examiner on February 6, 2020, 8:15 a.m., in Porter Hall, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico. The docket may be viewed electronically on the Division's website, http://www.emrrd.state.nm.us/OCD/hearings.html or obtained from Florene Davidson, OCD Clerk, at (505) 476-3458. Documents filed in the case may be viewed at http://ocdimage.emnrd.st ate.nm.us/imaging/CaseFileCriteria.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in the hearing, contact Florene Davidson, OCD Clerk, at (505) 476-3458, or at the New Mexico Relay Network, 1-800-659-1779, no later than January 27, 2020.

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: Titus Oil & Gas Production, LLC; Lenox Mineral Title Holdings, Inc.; Michael D. Hayes and Kathryn A. Hayes, Co-trustees of the Hayes Revocable Trust; Rubicon Oil & Gas LLC; and Quientesa Royalty LP.

Case No. 21038: 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 (Laguna Salado; Bone Spring (96721)) from a depth of 7,839 to the base of the formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the W/2 W/2 of Sections 10 and 15, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the following two proposed initial wells, both of which will be horizontally drilled from a common surface location in the SW/4 SW/4 (Unit M) of Section 15 to bottom hole locations in the NW/4 NW/4 (Unit D) of Section 10: (1) the Saturninus Fed Com 1510 #121H Well. The completed intervals for these wells will comply with statewide setbacks. 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 8 miles east of Loving, New Mexico.

January 22, 2020

Ad # 0004013295 PO #: 21038 # of Aff day ts1

This is not an invoice

NANCY HEYRMAN Notary Public State of Wisconsin



Affidavit of Publication Ad # 0004013311 This is not an invoice

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:

January 22, 2020

Legal Clerk

Subscribed and sworn before me this January 22, 2020

Heym

State of WI, County of Brown NOTARY PUBLIC

My commission expires

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold a public hearing before a hearing examiner on February 6, 2020, 8:15 a.m., in Porter Hall, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico. The docket may be viewed electronically on the Division's website, http://www.emnrd.state.nm.us/OCD/hearings.html or obtained from Florene Davidson, OCD Clerk, at (505) 476-3458. Documents filled in the case may be viewed at http://ocdimage.emnrd.st ate.nm.us/imaging/CaseFileCriteria.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in the hearing, contact Florene Davidson, OCD Clerk, at (505) 476-3458, or at the New Mexico Relay Network, 1-800-659-1779, no later than January 27, 2020.

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: Titus Oil & Gas Production, LLC; Lenox Mineral Title Holdings, Inc.; Michael D. Hayes and Kathryn A. Hayes, Co-trustees of the Hayes Revocable Trust; Rubicon Oil & Gas LLC; and Quientesa Royalty LP.

Case No. 21039: Application of Novo Oil & Gas Northern Delaware, LLCfor compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interests in the Bone Spring formation (Laguna Salado; Bone Spring (96721)) from a depth of 7,839 to the base of the formation underlying a standard 320-acre, more or less, horizontal spacing unit comprised of the E/2 W/2 of Sections 10 and 15, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the following two proposed initial wells, both of which will be horizontally drilled from a common surface location in the SW/4 SW/4 (Unit M) of Section 15 to bottom hole locations in the NE/4 NW/4 (Unit C) of Section 10: (1) the Saturninus Fed Com 1510 #122H Well, and (2) the Saturninus Fed Com 1510 #132H Well. The completed intervals for these wells will comply with statewide setbacks. 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 8 miles east of Loving, New Mexico.

January 22, 2020

Ad # 0004013311 PO #: 21039 # of Aff dav ts1

This is not an invoice

NANCY HEYRMAN Notary Public State of Wisconsin

Affidavit of Publication Ad # 0004013322 This is not an invoice

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:

January 22, 2020

Legal Clerk

Subscribed and sworn before me this January 22,

2020:

of WI, County of Brown NOTARY PUBLIC

My commission expires

NANCY HEYRMAN Notary Public State of Wisconsin

Ad # 0004013322 PO #: 21040 # of Aff day ts1

This is not an invoice

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold a public hearhereby gives notice that the Division will hold a public hearing before a hearing examiner on February 6, 2020, 8:15 a.m., in Porter Hall, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico. The docket may be viewed electronically on the Division's website, http://www.emnrd.state.nm.us/OCD/hearings.html or obtained from Florene Davidson, OCD Clerk, at (505) 476-3458. Documents filed in the case may be viewed at http://ocdimago.emmrd.st filed in the case may be viewed at http://ocdimage.emnrd.st ate.nm.us/imaging/CaseFileCriteria.aspx. If you are an indi-vidual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in the hearing, contact Florene Davidson, OCD Clerk, at (505) 476-3458, or at the New Mexico Relay Network, 1-800-659-1779, no later than January 27, 2020.

> 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: Titus Oil & Gas Production, LLC; Lenox Mineral Title Holdings, Inc.; Michael D. Hayes and Kathryn A. Hayes, Co-trustees of the Hayes Revocable Trust; Rubicon Oil & Gas LLC; and Quientesa Royalty LP.

Case No. 21040: 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 (Purple Sage-Wolfcamp Gas Pool) underlying a standard 640-acre, more or less, horizontal spacing unit comprised of the W/2 of Sections 10 and 15, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico. Said horizontal spacing unit will be dedicated to the following proposed initial wells: ing proposed initial wells:

 The Saturninus Fed Com 1510 #211H Well, the Saturninus Fed Com 1510 #212H Well, the Saturninus Fed Com 1510 #221H Well, the Saturninus Fed Com 1510 #231H Well, and the Saturninus Fed Com 1510 #232H Well, each of which will be horizontally drilled from a common surface location in the SW/4 SW/4 (Unit M) of Section 15 to bottom hole locations in the NW/4 NW/4 (Unit D) of Section 10.

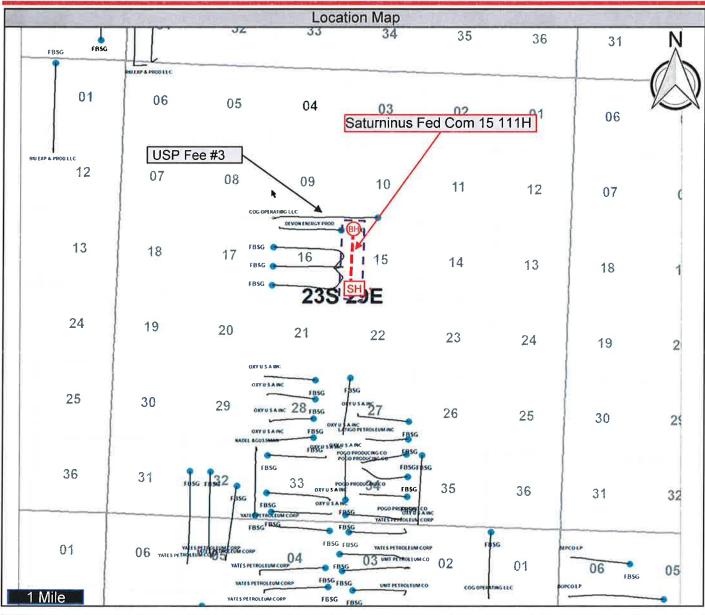
 The Saturninus Fed Com 1510 #215H Well, the Saturninus Fed Com 1510 #222H Well, the Saturninus Fed Com 1510 #225H Well, and the Saturninus Fed Com 1510 #235H Well, each of which will be horizontally drilled from a surface location in the SW/4 SW/4 (Unit M) of Section 15 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 10.

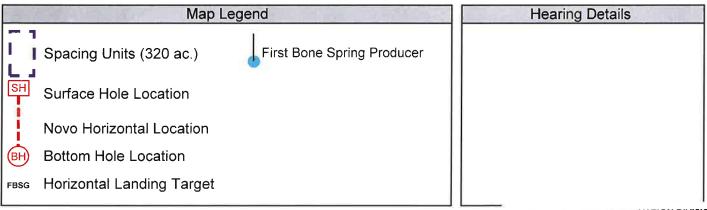
Also, to be considered will be the cost of drilling and completing the wells, the allocation of the costs thereof, the actual operating costs and charges for supervision, the designation of applicant as operator of the wells, and the imposition of a 200% charge for risk involved in drilling and completing the wells. Said area is located approximately 8 miles east of Loving, New Mexico.

January 22, 2020

Saturninus Fed Com 15 Bone Spring Development Plan First Bone Spring Proposed Location; Section 15-23S-29E



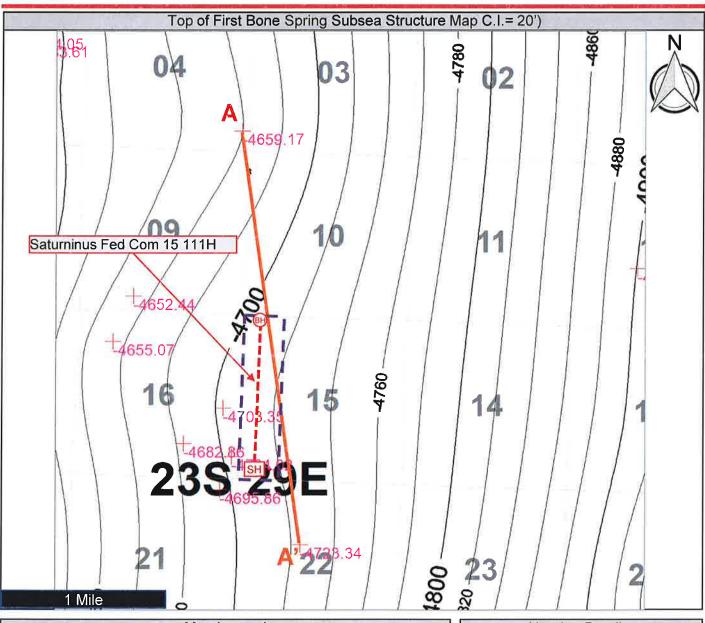


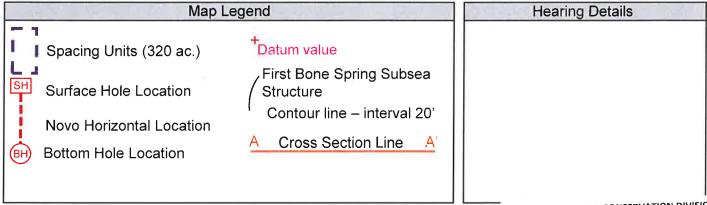


BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. 17 Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

Saturninus Fed Com 1015: Top of First Bone Spring Structure Map First Bone Spring Proposed Locations; Sections 10-23S-29E and 15-23S-29E







BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 18 Submitted by: Novo Oil & Gas, LLC

Hearing Date: February 20, 2020 Case Nos. 21037-21040

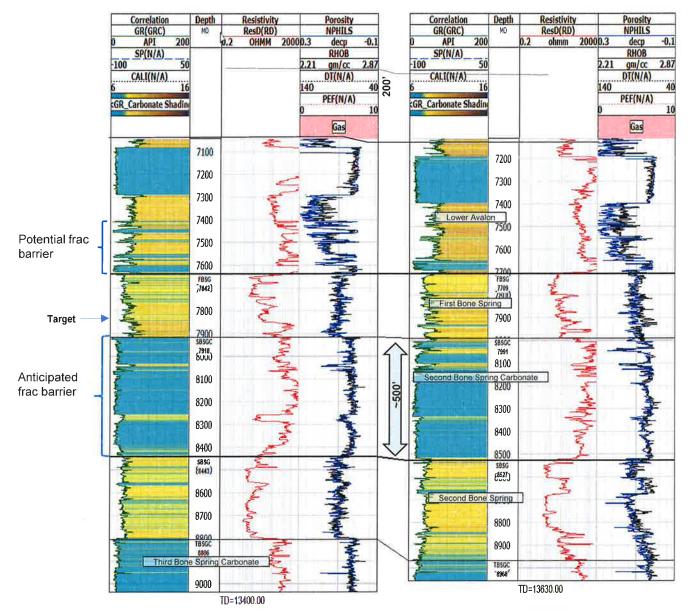
Saturninus Fed Com 15 First Bone Spring Stratigraphic Cross Section First Bone Spring Proposed Location; Section 15-23S-29E



TWP: 23 S - Range: 29 E - Sec. 4

First Bone Spring Stratigraphic Cross Section (Ft) - Top of First Bone Spring Datum 30015227010000 14064 ft SANTA FE ENR OP PRTN AMOCO PROD CO TELEDYNE/4/GAS COM 1 LAGUNA SALADO SOUTH 1 2030 FNL 1980 FWL 660 FSL 330 FEL

TWP: 23 S - Range: 29 E - Sec. 22



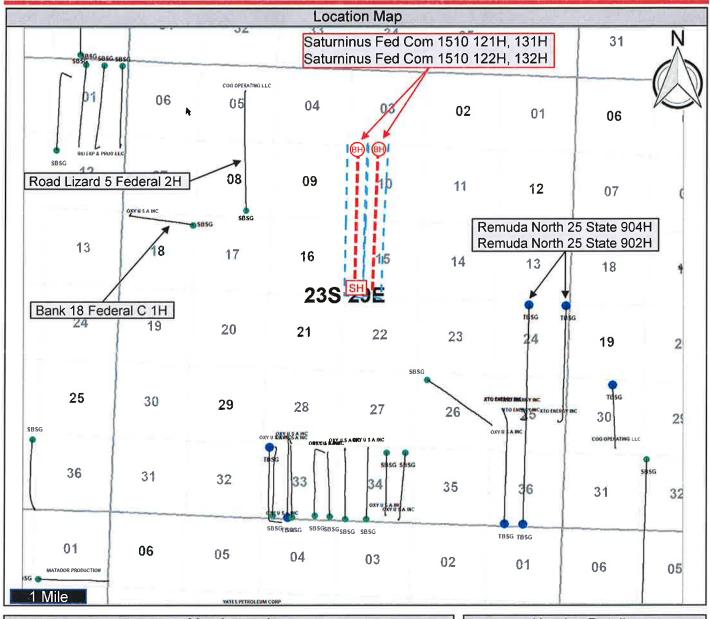
BEFORE THE OIL CONSERVATION DIVISION

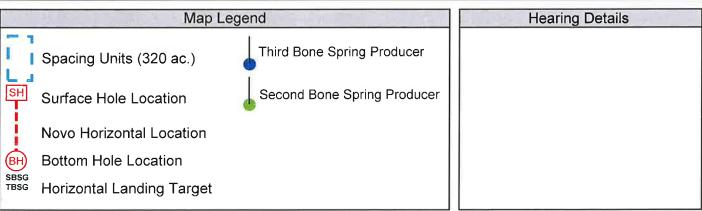
Santa Fe, New Mexico Exhibit No. 19 Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

Saturninus Fed Com 1510- Bone Spring Development Plan

Second Bone Spring and Third Bone Spring Proposed Locations Sections 10-23S-29E and 15-23S-29E



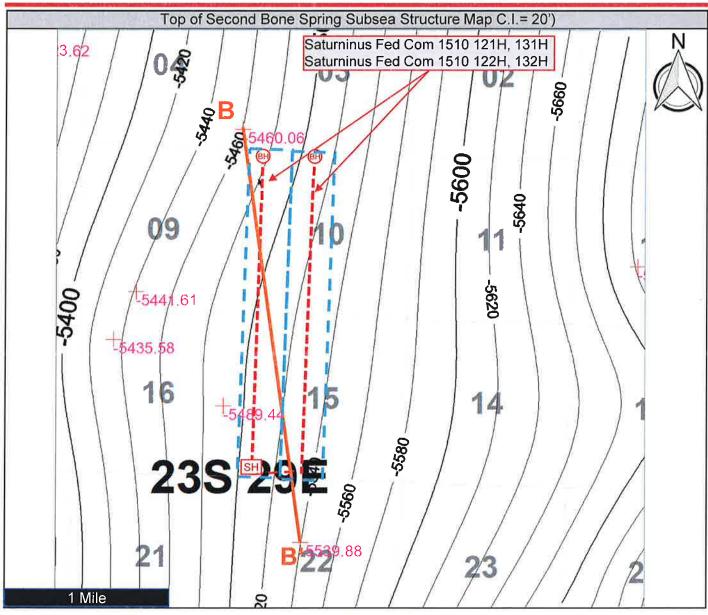


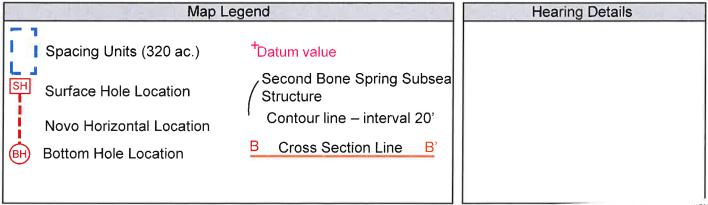


Saturninus Fed Com 1510: Bone Spring Structure Map Second Bone Spring and Third Bone Spring Proposed Locations;



Sections 10-23S-29E and 15-23S-29E





Saturninus Fed Com 1510 Bone Spring Stratigraphic Cross Section Second and Third Bone Spring Proposed Locations; Section 10-23S-29E and 15-23S-29E

660 FSL 330 FEL

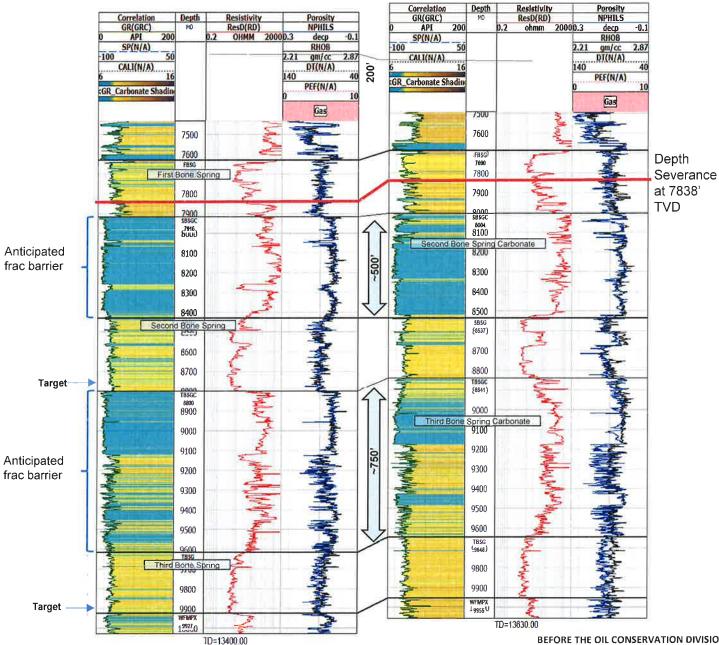
TWP: 23 S - Range: 29 E - Sec. 4



B Bone Spring Stratigraphic Cross Section (Ft) - Top of Second Bone Spring Datum 30015264070000 30015227010000 14064 ft SANTA FE ENR OP PRTN AMOCO PROD CO LAGUNA SALADO SOUTH 1 TELEDYNE/4/GAS COM 1

2030 FNL 1980 FWL

TWP: 23 S - Range: 29 E - Sec. 22



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

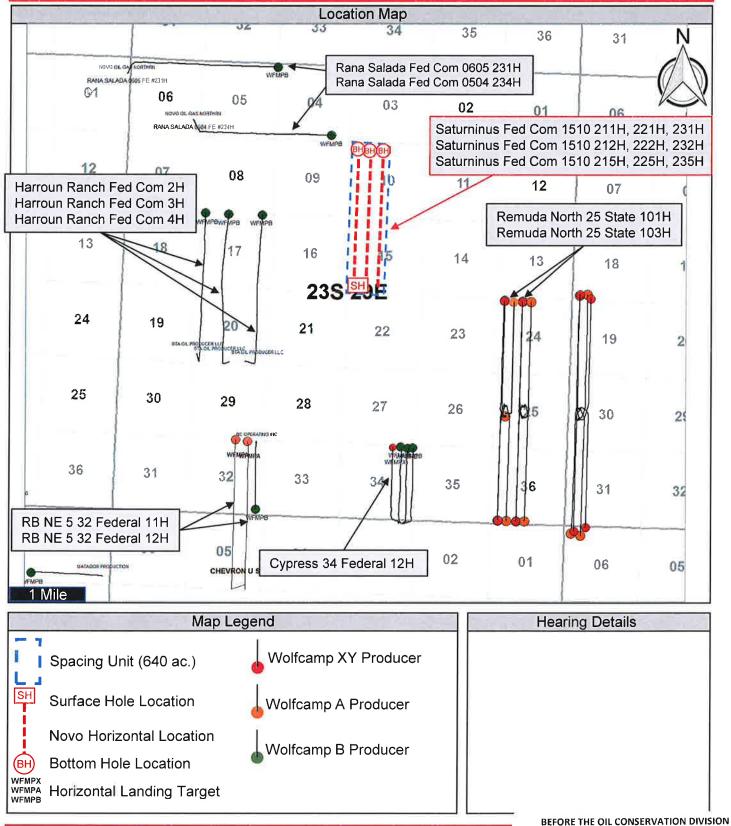
Exhibit No. 22 Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020

Case Nos. 21037-21040

Saturninus Fed Com 1510– Wolfcamp Development Plan NOVO



Sections 10-23S-29E and 15-23S-29E



Santa Fe, New Mexico

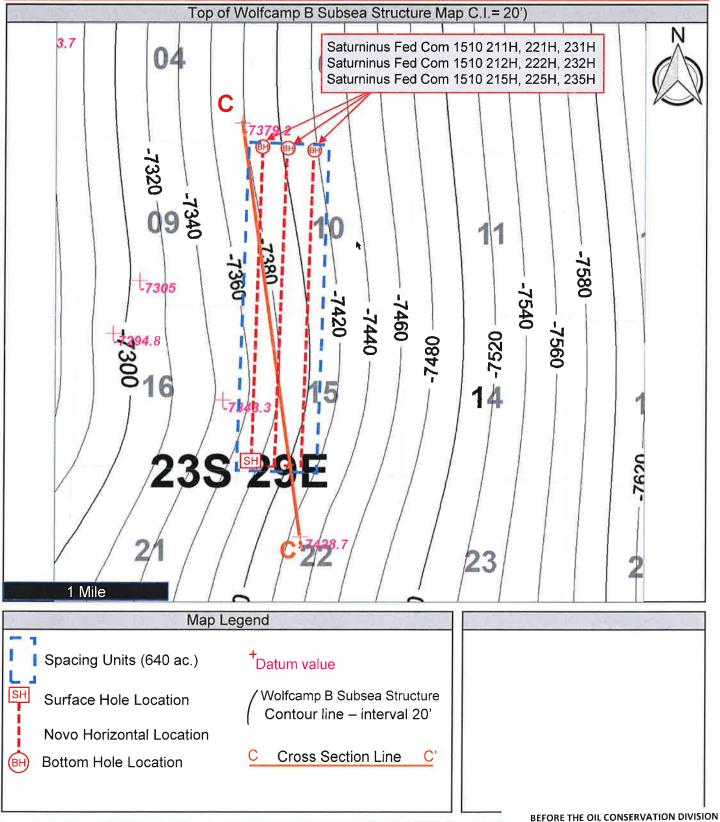
Exhibit No. 23 Submitted by: Novo Oil & Gas, LLC

Hearing Date: February 20, 2020 Case Nos. 21037-21040

Saturninus Fed Com 1015: Wolfcamp **Structure Map**



Wolfcamp XY, Wolfcamp A, and Wolfcamp B Proposed Locations; Sections 10-23S-29E and 15-23S-29E



Santa Fe, New Mexico Exhibit No. 24

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

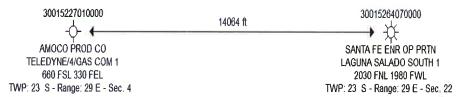
Saturninus Fed Com 1510 Wolfcamp Stratigraphic Cross Section Wolfcamp XY, Wolfcamp A and Wolfcamp B Proposed Locations; Section 10-23S-29E and

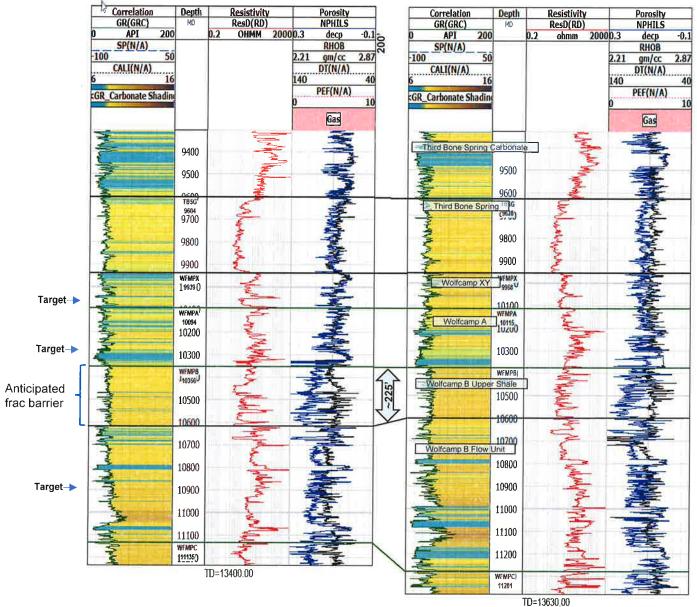


C,

15-23S-29E

C Wolfcamp Stratigraphic Cross Section (Ft) - Top of Wolfcamp A Datum



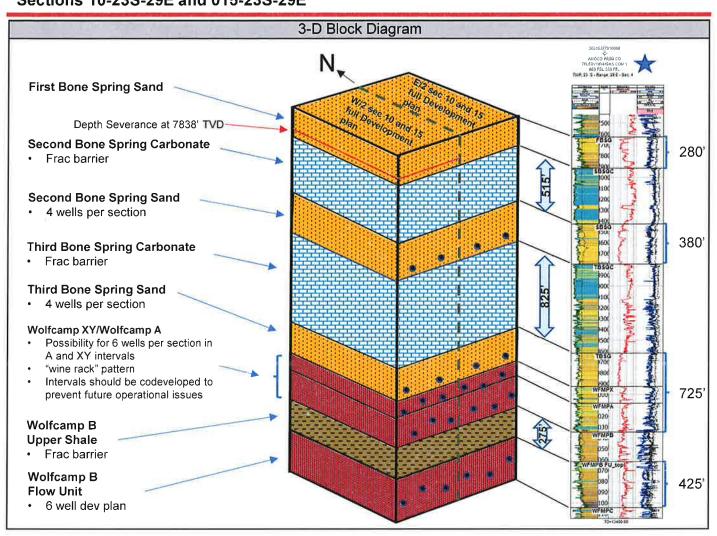


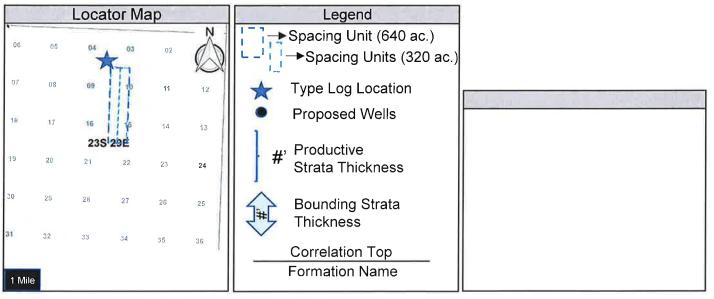
BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. 25

Submitted by: Novo Oil & Gas, LLC Hearing Date: February 20, 2020 Case Nos. 21037-21040

Novo Full Development Plan: Saturninus Fed Com 1510 Units (2 mile development) NOVO Sections 10-23S-29E and 015-23S-29E







Laguna Salado Development Area
NMOCD Pooling Hearing

2/20/20

Locator Map

With Cross-Section



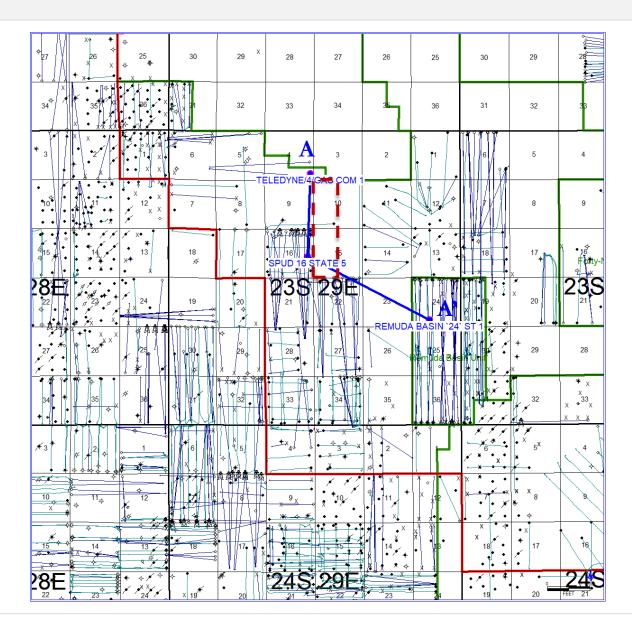
Pooling AOI



Federal Units



SOPA Boundary





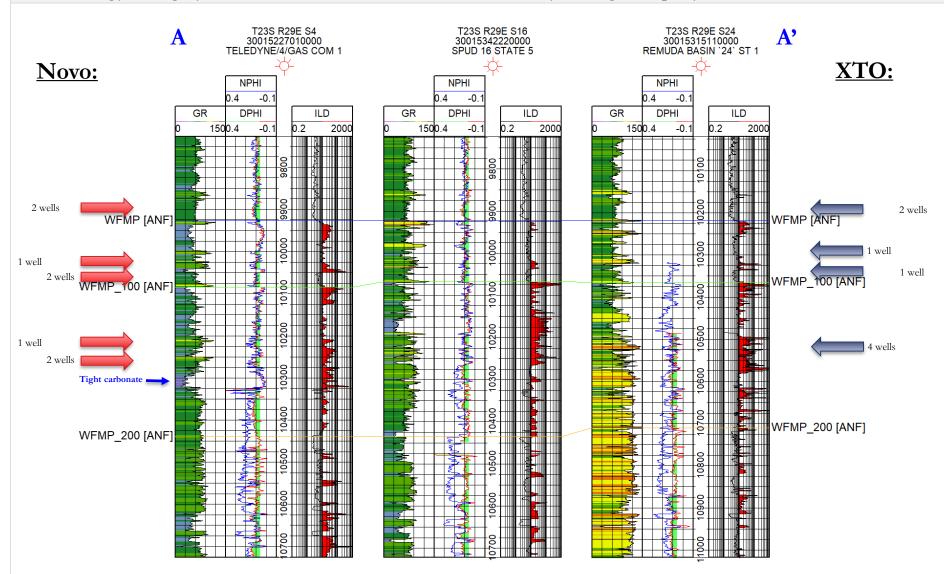
Target Comparison Cross-Section

Geology is Highly Variable in the Area and Reservoir Quality Changes Rapidly T23S R29E S4 30015227010000 TELEDYNE/4/GAS COM 1 T23S R29E S16 30015342220000 SPUD 16 STATE 5 T23S R29E S24 30015315110000 REMUDA BASIN '24' ST 1 A' NPHI **XTO:** Novo: DPHI BRSY_LOWER [ANF] BRSY LOWER [ANF] 1BSLM [ANF] 1BSLM [ANF] LNRD_A [ANF] LNRD_A [ANF] LNRD_B [ANF] LNRD_B [ANF] LNRD C [ANF] LNRD_C [ANF] 1BSSS [ANF] 1BSSS [ANF] 2 wells ^{2BS}—SHALFI ANFI 2BS+M(AHF)[ANF] 2BSSS [ANF] 2BSSS [ANF] 2 wells 3BSLM [ANF] 3BSLM [ANF] 3BS SHALE [ANF] 3BS_SHALE [ANF] 3BSSS [ANF] 3BSSS [ANF] 2 wells WFMP [ANF] WFMP [ANF] 1 well 2 wells WFMP_100 [ANF] WFMP_100 [ANF] $1 \; well \; _{2 \; wells}$ Tight carbonate 4 wells WFMP_200 [ANF] WFMP_200 [ANF] WFMP 300 [ANF] WFMP_300 [ANF] WFMP_400 [ANF] 2 wells WFMP_400 [ANF] **UPS [ANF]** UPS [ANF]



Wolfcamp Target Comparison Cross-Section

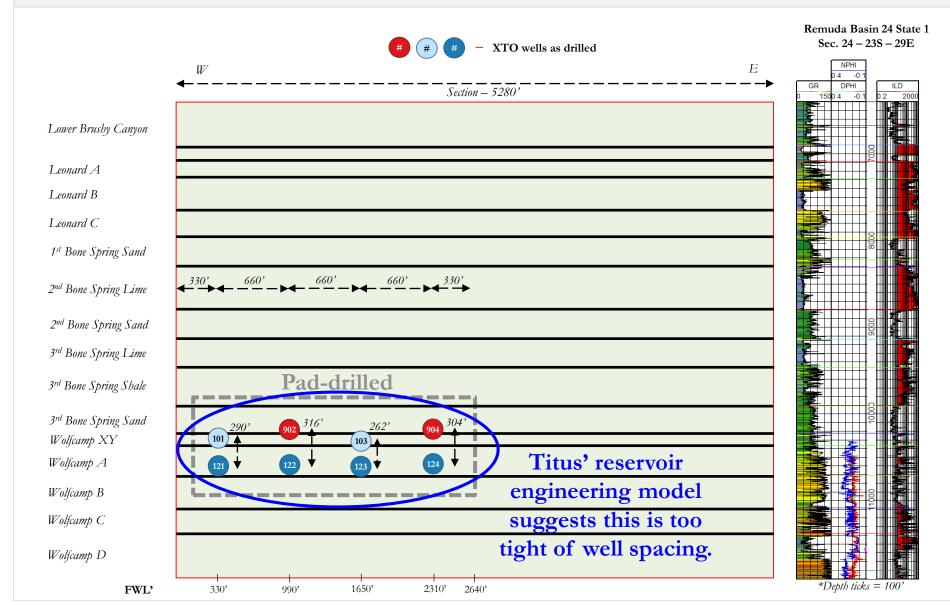
Geology is Highly Variable in the Area and Reservoir Quality Changes Rapidly





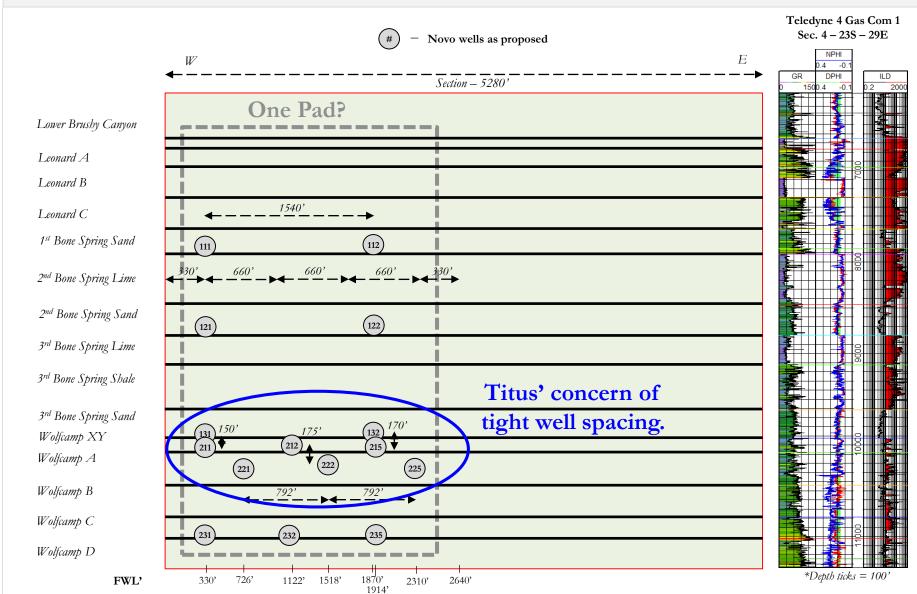
XTO's "Remuda North 25 State" Development Gun Barrel

W2 of Sec. 24 & NW4 of Sec. 25 – T23S – R29E



Novo's "Saturninus" Development Gun Barrel

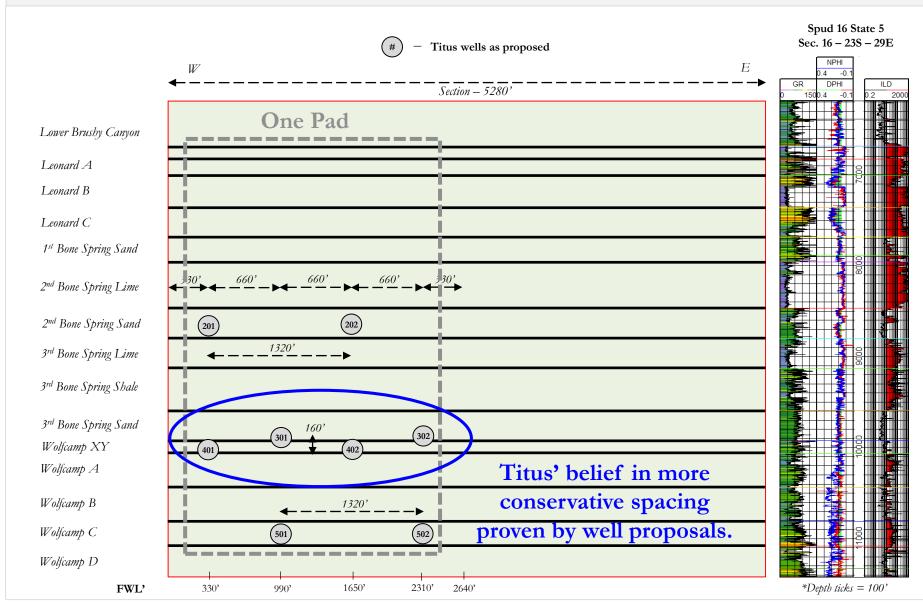
W2 of Secs. 10 & 15 – T23S – R29E





Titus' "Laguna Salado" Development Gun Barrel

W2 of Secs. 10 & 15 - T23S - R29E



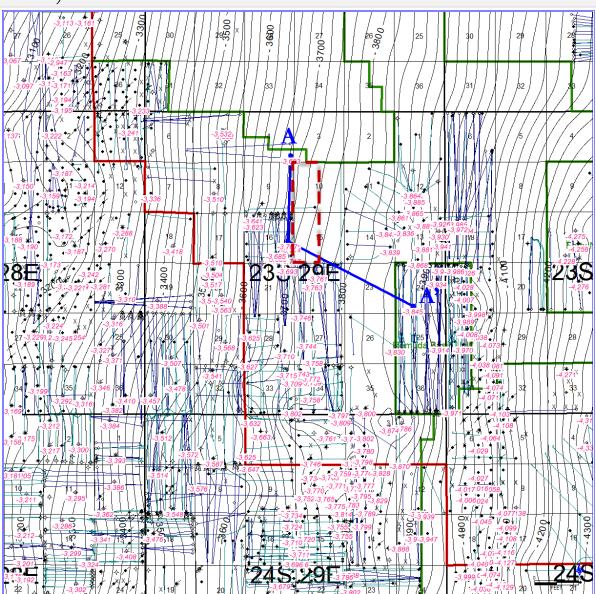


Bone Spring Structure Map

1st Bone Spring Lime (SSTVD)







Contour Interval: 20 ft



Wolfcamp Structure Map

Wolfcamp (SSTVD)



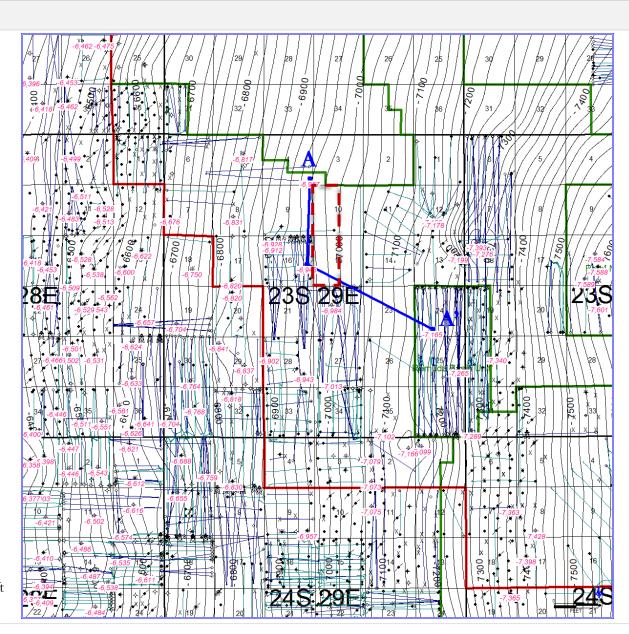
Pooling AOI



Federal Units



SOPA Boundary



Contour Interval: 20 ft

