



August 13, 2020
***De Novo* Hearing**
NMOCD Order R-21252

Case No. 20917

Commission Case No. 21276 *de novo*



Exhibit 12

Case No. 20917

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 Property Name ASTRODOG FED COM 0809				6 Well Number 131H			
7 OGRID No. 372920		8 Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC				9 Elevation 3004.5			
10 Surface Location									
UL or lot no. D	Section 8	Township 23 S	Range 29 E	Lot Idn	Feet from the 897	North/South line NORTH	Feet from the 192	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 9	Township 23 S	Range 29 E	Lot Idn	Feet from the 726	North/South line NORTH	Feet from the 10	East/West line EAST	County EDDY
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

16 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____	
17 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 4, 2019 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number: FRANCIS J. JARAMILLO, PLS 12797 SURVEY NO. 7740	

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⁴ Property Code		⁵ Property Name ASTRODOG FED COM 0809			⁶ Well Number 132H
⁷ OGRID No. 372920		⁸ Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC			⁹ Elevation 3004.5

¹⁰ Surface Location

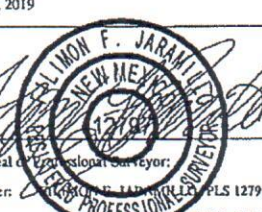
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	23 S	29 E		915	NORTH	201	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	9	23 S	29 E		1518	NORTH	10	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____			
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name ASTRODOG FED COM 0809			⁶ Well Number 135H
⁷ GRID No. 372920		⁸ Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC			⁹ Elevation 3005.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	23 S	29 E		1900	NORTH	200	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	9	23 S	29 E		2310	NORTH	10	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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Exhibit 13

Case No. 20917



Justin Carter
Landman
Novo Oil & Gas Northern Delaware, LLC
1001 West Wilshire Blvd, Suite 206
Oklahoma City, Oklahoma 73116
Office: 405-286-3375
jcarter@novooil.com

August 1, 2019

SEE ATTACHED LIST OF WORKING INTEREST OWNERS

Re: Astrodog Fed Com 08/09 Bone Spring Working Interest Unit (WIU):
N/2 of Section 08 and 09 Township 23 South, Range 29 East
Eddy County, New Mexico
640-acre Working Interest Unit

Proposed Wells

Astrodog Fed Com 0809 111H
Astrodog Fed Com 0809 112H

Astrodog Fed Com 0809 131H
Astrodog Fed Com 0809 132H
Astrodog Fed Com 0809 135H

Ladies and Gentlemen:

Novo Oil & Gas Northern Delaware, LLC ("Novo") as Operator hereby proposes a 640 Working Interest Unit covering the N/2 of Sections 8 and 9, Township 23 South, Range 29 East, Eddy County, New Mexico.

Further, in connection with the formation of the Astrodog Fed Com 08/09 Bone Spring Working Interest Unit, as described above, Novo hereby proposes the drilling of five (5) horizontal wells to test the First Bone Spring and Third Bone Spring formation, as more particularly set forth below. The estimated cost of drilling, testing, completing and equipping of each Well is itemized on the enclosed Authority for Expenditures ("AFE") attached, dated 7/29/2019.

Proposed Well – Astrodog Fed Com 0809 111H

SHL: NW/4 of Section 8, Township 23 South, Range 29 East

First Take Point: 330' FNL, 100' FWL of Section 8, Township 23 South, Range 29 East

Last Take Point: 330' FNL, 100' FEL of Section 9, Township 23 South, Range 29 East

BHL: NE/4NE/4 of Section 9, Township 23 South, Range 29 East

The N/2N/2 of Section 8 and 9 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 7,723 feet subsurface to evaluate the First Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 17,723 feet.

Proposed Well – Astrodog Fed Com 0809 112H

SHL: NW/4 of Section 8, Township 23 South, Range 29 East
First Take Point: 1,254' FNL, 100' FWL of Section 8, Township 23 South, Range 29 East
Last Take Point: 1,254' FNL, 100' FEL of Section 9, Township 23 South, Range 29 East
BHL: SE/4NE/4 of Section 9, Township 23 South, Range 29 East
The S/2N/2 of Section 8 and 9 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 7,723 feet subsurface to evaluate the First Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 17,723 feet.

Proposed Well – Astrodog Fed Com 0809 131H

SHL: NW/4 of Section 8, Township 23 South, Range 29 East.
First Take Point: 726' FNL & 100' FWL of Section 8, Township 23 South, Range 29 East
Last Take Point: 726' FNL & 100' FEL of Section 9, Township 23 South, Range 29 East
BHL: NE/4 of Section 8, Township 23 South, Range 29 East.
The N/2 of Sections 8 and 9 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 9,743 feet subsurface to evaluate the Third Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 19,743 feet.

Proposed Well – Astrodog Fed Com 0809 132H

SHL: NW/4 of Section 8, Township 23 South, Range 29 East.
First Take Point: 1,518' FNL & 100' FWL of Section 8, Township 23 South, Range 29 East
Last Take Point: 1,518' FNL & 100' FEL of Section 9, Township 23 South, Range 29 East
BHL: NE/4 of Section 8, Township 23 South, Range 29 East.
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Proposed Well – Astrodog Fed Com 0809 135H

SHL: NW/4 of Section 8, Township 23 South, Range 29 East.
First Take Point: 2,310' FNL & 100' FWL of Section 8, Township 23 South, Range 29 East
Last Take Point: 2,310' FNL & 100' FEL of Section 9, Township 23 South, Range 29 East
BHL: NE/4 of Section 8, Township 23 South, Range 29 East.
The N/2 of Sections 8 and 9 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 9,748 feet subsurface to evaluate the Third Bone Spring formation. The proposed well will have a measured depth (MD) of approximately 19,748 feet.

Regarding the above, enclosed for your handling are AFEs for each of the five (5) proposed wells listed above. In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return to the attention of the undersigned within thirty (30) days from receipt of this letter. Upon receipt of the executed AFEs, Novo will provide you with its proposed Operating Agreement for execution. Should you have any questions regarding the above, please call me at (405) 286-3375 or if by email, my email address is jcarter@novooil.com.

Sincerely,

Novo Oil & Gas Northern Delaware, LLC

Justin Carter
Landman

_____ Not to participate in the **Astrodog Fed Com 0809 111H**.

_____ Participate in the **Astrodog Fed Com 0809 111H** for its Proportionate share of the costs.

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By: _____

Printed Name: _____

Title: _____

Date: _____

Contact Number: _____

Working Interest Owners

Astrodog Fed Com 08/09 Bone Spring Working Interest Unit
Proposed First Bone Spring Wells
Proposed Third Bone Spring Wells

Astrodog Fed Com 0809 111H
Astrodog Fed Com 0809 112H

Astrodog Fed Com 0809 131H
Astrodog Fed Com 0809 132H
Astrodog Fed Com 0809 135H

BTA OIL PRODUCERS, LLC
104 S. PECOS STREET
MIDLAND, TX 79701



Address: 2913 NW 63RD ST
OKLAHOMA CITY
OK 73116
Location: TIKKC
Device ID: -BTC01
Transaction: 940237889257

FedEx Priority Overnight
788798418590 0.4 lbs. (S) 26.24
Declared Value 0
Recipient Address:
Titus Oil & Gas
100 THROCKMORTON ST STE 1600
FORT WORTH, TX 76102-2846
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Scheduled Delivery Date 07/31/2019

Pricing option:
STANDARD RATE

Package Information:
FedEx Envelope

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788798456455 0.5 lbs. (S) 33.50
Declared Value 0
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BTA Oil Producers LLC
104 S Pecos St
Midland, TX 79701
1111111111

Scheduled Delivery Date 07/31/2019

Pricing option:
STANDARD RATE

Package Information:
FedEx Envelope

FedEx Priority Overnight
788798492383 0.5 lbs. (S) 33.50
Declared Value 0
Recipient Address:
Chevron USA Inc
Attn Chris Copper
1400 Smith Street
Houston, TX 77002
1111111111

Scheduled Delivery Date 07/31/2019

Pricing option:
STANDARD RATE

Package Information:
FedEx Envelope

Shipment subtotal: \$93.24

Total Due: \$93.24

FedEx SENDER Account
*****4154

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Justin Carter
Landman
Novo Oil & Gas Northern Delaware, LLC
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Oklahoma City, Oklahoma 73116
Office: 405-286-3375
jcarter@novooil.com

August 12, 2019

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By: _____

Printed Name: _____

Title: _____

Date: _____

Contact Number: _____

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Proposed First Bone Spring Wells
Proposed Third Bone Spring Wells

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Astrodog Fed Com 0809 112H

Astrodog Fed Com 0809 131H
Astrodog Fed Com 0809 132H
Astrodog Fed Com 0809 135H

BTA OIL PRODUCERS, LLC
104 S. PECOS STREET
MIDLAND, TX 79701

OXY Y-1 COMPANY
5 GREENWAY PLAZA, SUITE 110
HOUSTON, TX 77046



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OKLAHOMA CITY
OK 73116
Location: TIKKC
Device ID: -BTC01
Transaction: 940238999679

FedEx Express Saver
789082868889 0.5 lbs. (S) 8.65
Declared Value 0
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OXY Y-T COMPANY
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Package Information:
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Total Due: \$8.65

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S = Weight read from scale
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Exhibit 14

Case No. 20917



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1601 West Wilshire, Suite 206
Oklahoma City, Oklahoma 73116
405-285-4391

WELL NAME	Astrodog Fed Com 0809 131H	AFE TYPE	Development	AFE NUMBER	2015155
LATERAL LOCATION	T23S, R29E, Sec 8 - T23S, R29E, Sec 9	FIELD	Northern Delaware	DRILLING DAYS	22
SURFACE LOCATION	T23S, R29E, Sec 8 NW/4	FORMATION	Third Bone Spring	DEPTH (TVD/TMD)	9,743' / 19,743'
BOTTOM-HOLE LOCATION	T23S, R29E, Sec 8 NE/4	COUNTY	Eddy County	STATE	New Mexico
PROJECT DESCRIPTION	Drilling, completion, facilities and pipeline costs for 10,360' horizontal well. Secretary Potash Area				
ACCT. CODE	DESCRIPTION OF EXPENDITURE	COST ESTIMATE			
	INTANGIBLE COSTS	DRILLING (\$00)	COMPLETION (\$00)		
01	SURVEY/PERMITS/DAMAGES/LEGAL	\$ 50,000		\$	50,000
02	LOCATION & ROAD	150,000			150,000
03	RIG MOVE	150,000			150,000
04	DRILLING - FOOTAGE	50,000			50,000
05	DRILLING - DAYWORK	634,000			634,000
06	COMPLETION/WORKOVER RIG		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	180,000			180,000
11	CASING CREW	100,000			100,000
12	TOOL & EQUIPMENT RENTAL	50,000	80,000		130,000
13	FUEL & POWER	144,000	200,000		344,000
14	DIESEL - BASE FOR MUD	100,000			100,000
15	MUD LOGGING & GEOLOGIST	18,000			18,000
16	DISPOSAL, RESTORATION & BACKFILL	150,000			150,000
17	TRUCKING	120,000	40,000		160,000
18	TESTING				0
19	CEMENTING	200,000			200,000
20	PERFORATING		358,000		358,000
21	CASED HOLE LOGS				0
22	DOWNHOLE TOOLS & SERVICE		75,000		75,000
23	OTHER STIMULATION		120,000		120,000
24	FORMATION STIMULATION		4,000,000		4,000,000
25	CONSULTING SERVICES		20,000		20,000
26	SUPERVISION	120,000	100,000		220,000
27	CONTRACT LABOR	5,000	20,000		25,000
28	OTHER LABOR		100,000		100,000
29	COMPANY CONSULTING/SUPV				0
30	WATER	50,000	1,200,000		1,250,000
31	FLUIDS & CHEMICALS	200,000			200,000
32	CORING & ANALYSIS				0
33	COMMUNICATIONS	10,000	10,000		20,000
34	BOP TESTING	20,000	10,000		30,000
36	FISHING TOOLS & SERVICES				0
37	INSPECTIONS	10,000	5,000		15,000
38	WIRELINE SERVICES				0
39	ENGINEERING & GEOLOGY - FIELD				0
40	ENGINEERING & GEOLOGY - OFFICE	15,000			15,000
41	MULTISHOT & GYRO				0
42	RE-ENTRY SERVICES				0
43	CAMPS & TRAILERS	15,000	15,000		30,000
44	SAFETY EQUIPMENT & H2S	20,000	5,000		25,000
45	CONTINGENCY				0
46	INSURANCE	10,000	2,000		12,000
47	MISCELLANEOUS	10,000	10,000		20,000
49	SIM-OPS				0
	TOTAL INTANGIBLE COSTS	\$ 2,681,000	\$ 6,595,000	\$	9,276,000
	TANGIBLE COSTS	DRILLING (\$00)	COMPLETION (\$00)		TOTAL
01	CASING - CONDUCTOR	10,000		\$	10,000
02	CASING - SURFACE	20,000			20,000
03	CASING - INTERMEDIATE	100,000			100,000
04	CASING - INTERMEDIATE 2				0
05	CASING - PRODUCTION / LINER	410,000			410,000
06	SUBSURFACE EQUIPMENT	60,000	25,000		85,000
07	PRODUCTION TUBING		55,000		55,000
08	SUBSURFACE PUMPING EQUIPMENT				0
09	WELLHEAD EQUIPMENT	60,000	10,000		70,000
10	FLOWLINES		100,000		100,000
11	SURFACE PUMPING EQUIPMENT				0
12	LINER HANGER & ASSOC EQUIP				0
13	VALVES & FITTINGS		200,000		200,000
15	RODS				0
17	TRUCKING	40,000	2,000		42,000
20	RE-ENTRY EQUIPMENT				0
34	PRODUCTION EQUIPMENT		600,000		600,000
47	MISCELLANEOUS	10,000	10,000		20,000
49	TANGIBLE EQUIP-ACQUISITIONS				0
	TOTAL TANGIBLE COSTS	\$ 700,000	\$ 1,002,000	\$	1,702,000
	TOTAL ESTIMATED WELL COST	\$ 3,381,000	\$ 7,597,000	\$	10,978,000

PREPARED BY: Aaron Catley Senior Operations Engineer DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] VP - Operations DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] CEO or COO DATE: 7/30/19

PARTNER COMPANY NAME: _____
PARTNER APPROVAL: _____ DATE: _____
TITLE: _____

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 note that some expenditures such as tubing, artificial lift or surface equipment may occur up to one year after the project has been initiated.



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 200
Oklahoma City, Oklahoma 73116
405-285-4391

WELL NAME	Astrodog Fed Com 0809 132H	AFE TYPE	Development	AFE NUMBER	2015156
LATERAL LOCATION	T23S, R29E, Sec 8 - T23S, R29E, Sec 9	FIELD	Northern Delaware	DRILLING DAYS	22
SURFACE LOCATION	T23S, R29E, Sec 8 NW/4	FORMATION	Third Bone Spring	DEPTH (TVD/TMD)	9,743' / 19,743'
BOTTOM-HOLE LOCATION	T23S, R29E, Sec 8 NE/4	COUNTY	Eddy County	STATE	New Mexico
PROJECT DESCRIPTION	Drilling, completion, facilities and pipeline costs for 10,350' horizontal well. Secretary Polash Area				
ACCT. CODE	DESCRIPTION OF EXPENDITURE		COST ESTIMATE		
	INTANGIBLE COSTS	DRILLING (300)	COMPLETION (500)		
01	SURVEY/PERMITS/DAMAGES/LEGAL	\$ 50,000		\$	50,000
02	LOCATION & ROAD	150,000			150,000
03	RIG MOVE	150,000			150,000
04	DRILLING - FOOTAGE	50,000			50,000
05	DRILLING - DAYWORK	634,000			634,000
06	COMPLETION/WORKOVER RIG		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	180,000			180,000
11	CASING CREW	100,000			100,000
12	TOOL & EQUIPMENT RENTAL	50,000	80,000		130,000
13	FUEL & POWER	144,000	200,000		344,000
14	DIESEL - BASE FOR MUD	100,000			100,000
15	MUD LOGGING & GEOLOGIST	18,000			18,000
16	DISPOSAL, RESTORATION & BACKFILL	150,000			150,000
17	TRUCKING	120,000	40,000		160,000
18	TESTING				0
19	CEMENTING	200,000			200,000
20	PERFORATING		358,000		358,000
21	CASED HOLE LOGS				0
22	DOWNHOLE TOOLS & SERVICE		75,000		75,000
23	OTHER STIMULATION		120,000		120,000
24	FORMATION STIMULATION		4,000,000		4,000,000
25	CONSULTING SERVICES		20,000		20,000
26	SUPERVISION	120,000	100,000		220,000
27	CONTRACT LABOR	5,000	20,000		25,000
28	OTHER LABOR		100,000		100,000
29	COMPANY CONSULTING/SUPV				0
30	WATER	50,000	1,200,000		1,250,000
31	FLUIDS & CHEMICALS	200,000			200,000
32	CORING & ANALYSIS				0
33	COMMUNICATIONS	10,000	10,000		20,000
34	BOP TESTING	20,000	10,000		30,000
36	FISHING TOOLS & SERVICES				0
37	INSPECTIONS	10,000	5,000		15,000
38	WIRELINE SERVICES				0
39	ENGINEERING & GEOLOGY - FIELD				0
40	ENGINEERING & GEOLOGY - OFFICE	15,000			15,000
41	MULTISHOT & GYRO				0
42	RE-ENTRY SERVICES				0
43	CAMPS & TRAILERS	15,000	15,000		30,000
44	SAFETY EQUIPMENT & H2S	20,000	5,000		25,000
45	CONTINGENCY				0
46	INSURANCE	10,000	2,000		12,000
47	MISCELLANEOUS	10,000	10,000		20,000
49	SIM-OPS				0
TOTAL INTANGIBLE COSTS		\$ 2,681,000	\$ 6,595,000	\$	9,276,000
TANGIBLE COSTS		DRILLING (400)	COMPLETION (500)	TOTAL	
01	CASING - CONDUCTOR	\$ 10,000		\$	10,000
02	CASING - SURFACE	20,000			20,000
03	CASING - INTERMEDIATE	100,000			100,000
04	CASING - INTERMEDIATE 2				0
05	CASING - PRODUCTION / LINER	410,000			410,000
06	SUBSURFACE EQUIPMENT	50,000	25,000		75,000
07	PRODUCTION TUBING		55,000		55,000
08	SUBSURFACE PUMPING EQUIPMENT				0
09	WELLHEAD EQUIPMENT	60,000	10,000		70,000
10	FLOWLINES		100,000		100,000
11	SURFACE PUMPING EQUIPMENT				0
12	LINER HANGER & ASSOC EQUIP				0
13	VALVES & FITTINGS		200,000		200,000
15	RODS				0
17	TRUCKING	40,000	2,000		42,000
20	RE-ENTRY EQUIPMENT				0
34	PRODUCTION EQUIPMENT		600,000		600,000
47	MISCELLANEOUS	10,000	10,000		20,000
49	TANGIBLE EQUIP-ACQUISITIONS				0
TOTAL TANGIBLE COSTS		\$ 700,000	\$ 1,002,000	\$	1,702,000
TOTAL ESTIMATED WELL COST		\$ 3,381,000	\$ 7,597,000	\$	10,978,000

PREPARED BY: Aaron Cattle Senior Operations Engineer DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] VP - Operations DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] CEO or COO DATE: 7/30/19

PARTNER COMPANY NAME: _____
PARTNER APPROVAL: _____ DATE: _____
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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 note that some expenditures such as tubing, artificial lift or surface equipment may occur up to one year after the project has been initiated.



NOVO OIL & GAS NORTHERN DELAWARE, LLC
AUTHORIZATION FOR EXPENDITURE
1001 West Wilshire, Suite 200
Oklahoma City, Oklahoma 73116
405-286-4391

WELL NAME	Astrodog Fed Com 0809 135H	AFE TYPE	Development	AFE NUMBER	2015157
LATERAL LOCATION	T23S, R29E, Sec 8 - T23S, R29E, Sec 9	FIELD	Northern Delaware	DRILLING DAYS	22
SURFACE LOCATION	T23S, R29E, Sec 8 NW/4	FORMATION	Third Bone Spring	DEPTH (TVD/TMD)	9,748' / 19,748'
BOTTOM-HOLE LOCATION	T23S, R29E, Sec 8 NE/4	COUNTY	Eddy County	STATE	New Mexico
PROJECT DESCRIPTION	Drilling, completion, facilities and pipeline costs for 10,360' horizontal well. Secretary Potash Area				
ACCT. CODE	DESCRIPTION OF EXPENDITURE		COST ESTIMATE		
			DRILLING (300)	COMPLETION (500)	
	INTANGIBLE COSTS				
01	SURVEY/PERMITS/DAMAGES/LEGAL		\$ 50,000		\$ 50,000
02	LOCATION & ROAD		150,000		150,000
03	RIG MOVE		150,000		150,000
04	DRILLING - FOOTAGE		50,000		50,000
05	DRILLING - DAYWORK		634,000		634,000
06	COMPLETION/WORKOVER RIG			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		180,000		180,000
11	CASING CREW		100,000		100,000
12	TOOL & EQUIPMENT RENTAL		50,000	80,000	130,000
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15	MUD LOGGING & GEOLOGIST		18,000		18,000
16	DISPOSAL, RESTORATION & BACKFILL		150,000		150,000
17	TRUCKING		120,000	40,000	160,000
18	TESTING				0
19	CEMENTING		200,000		200,000
20	PERFORATING			358,000	358,000
21	CASED HOLE LOGS				0
22	DOWNHOLE TOOLS & SERVICE			75,000	75,000
23	OTHER STIMULATION			120,000	120,000
24	FORMATION STIMULATION			4,000,000	4,000,000
25	CONSULTING SERVICES			20,000	20,000
26	SUPERVISION		120,000	100,000	220,000
27	CONTRACT LABOR		5,000	20,000	25,000
28	OTHER LABOR			100,000	100,000
29	COMPANY CONSULTING/SUPV				0
30	WATER		50,000	1,200,000	1,250,000
31	FLUIDS & CHEMICALS		200,000		200,000
32	CORING & ANALYSIS				0
33	COMMUNICATIONS		10,000	10,000	20,000
34	BOP TESTING		20,000	10,000	30,000
36	FISHING TOOLS & SERVICES				0
37	INSPECTIONS		10,000	5,000	15,000
38	WIRELINE SERVICES				0
39	ENGINEERING & GEOLOGY - FIELD				0
40	ENGINEERING & GEOLOGY - OFFICE		15,000		15,000
41	MULTISHOT & GYRO				0
42	RE-ENTRY SERVICES				0
43	CAMPS & TRAILERS		15,000	15,000	30,000
44	SAFETY EQUIPMENT & H2S		20,000	5,000	25,000
45	CONTINGENCY				0
46	INSURANCE		10,000	2,000	12,000
47	MISCELLANEOUS		10,000	10,000	20,000
49	SIM-OPS				0
	TOTAL INTANGIBLE COSTS		\$ 2,681,000	\$ 6,696,000	\$ 9,276,000
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01	CASING - CONDUCTOR		\$ 10,000		\$ 10,000
02	CASING - SURFACE		20,000		20,000
03	CASING - INTERMEDIATE		100,000		100,000
04	CASING - INTERMEDIATE 2				0
05	CASING - PRODUCTION / LINER		410,000		410,000
06	SUBSURFACE EQUIPMENT		50,000	25,000	75,000
07	PRODUCTION TUBING			55,000	55,000
08	SUBSURFACE PUMPING EQUIPMENT				0
09	WELLHEAD EQUIPMENT		60,000	10,000	70,000
10	FLOWLINES			100,000	100,000
11	SURFACE PUMPING EQUIPMENT				0
12	LINER HANGER & ASSOC EQUIP				0
13	VALVES & FITTINGS			200,000	200,000
15	RODS				0
17	TRUCKING		40,000	2,000	42,000
20	RE-ENTRY EQUIPMENT				0
34	PRODUCTION EQUIPMENT			600,000	600,000
47	MISCELLANEOUS		10,000	10,000	20,000
49	TANGIBLE EQUIP-ACQUISITIONS				0
	TOTAL INTANGIBLE COSTS		\$ 700,000	\$ 1,002,000	\$ 1,702,000
	TOTAL ESTIMATED WELL COST		\$ 3,381,000	\$ 7,597,000	\$ 10,978,000

PREPARED BY: Aaron Cattiey Senior Operations Engineer DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] VP - Operations DATE: 7/29/2019
OPERATOR APPROVAL: [Signature] CEO or COO DATE: 7/30/19

PARTNER COMPANY NAME: _____
PARTNER APPROVAL: _____ DATE: _____
TITLE: _____

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Exhibit 15

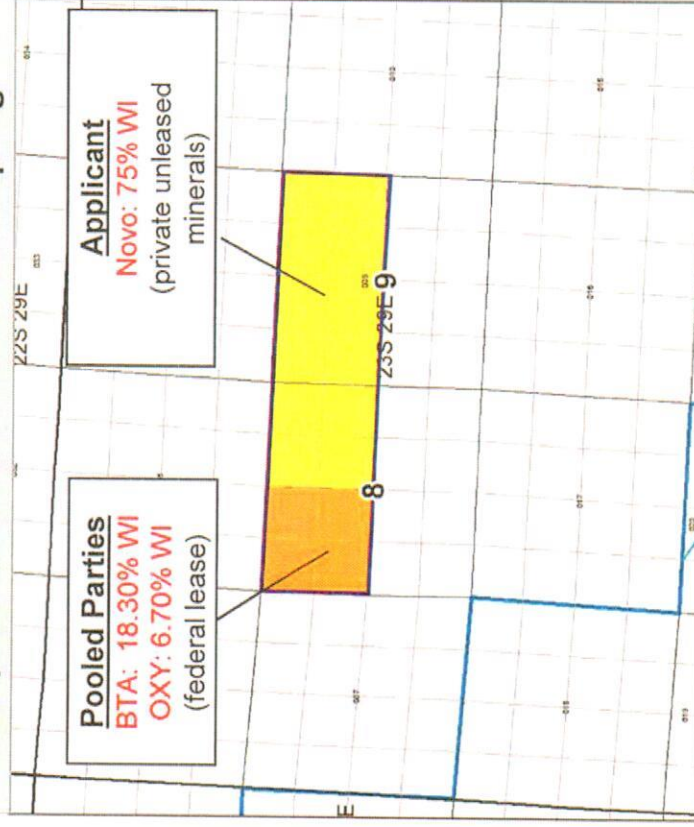
Case No. 20917

Land Overview



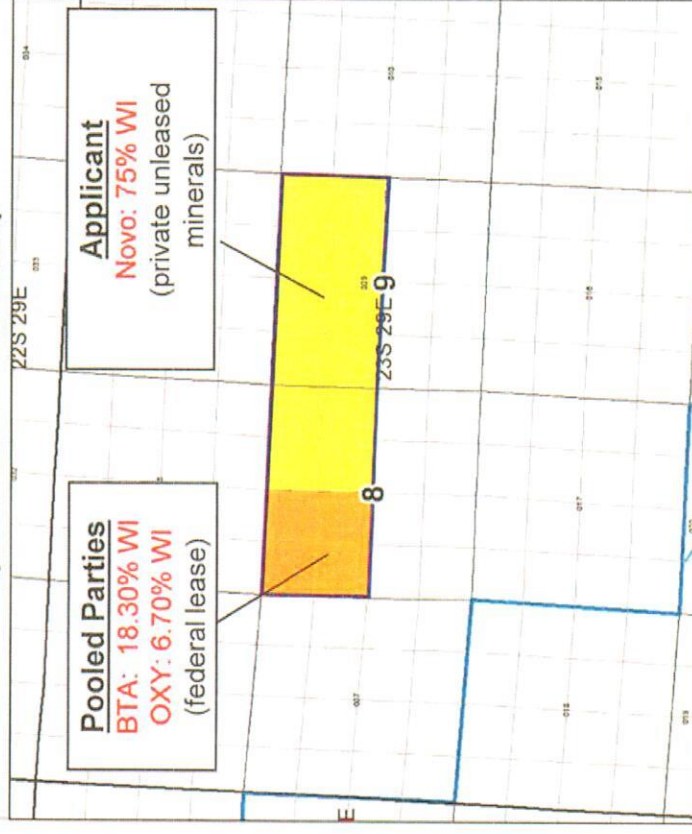
Case 20917

Depth-Severed Bone Spring Pooling App
Depths: 8,773' to base of Bone Spring



Case 20916

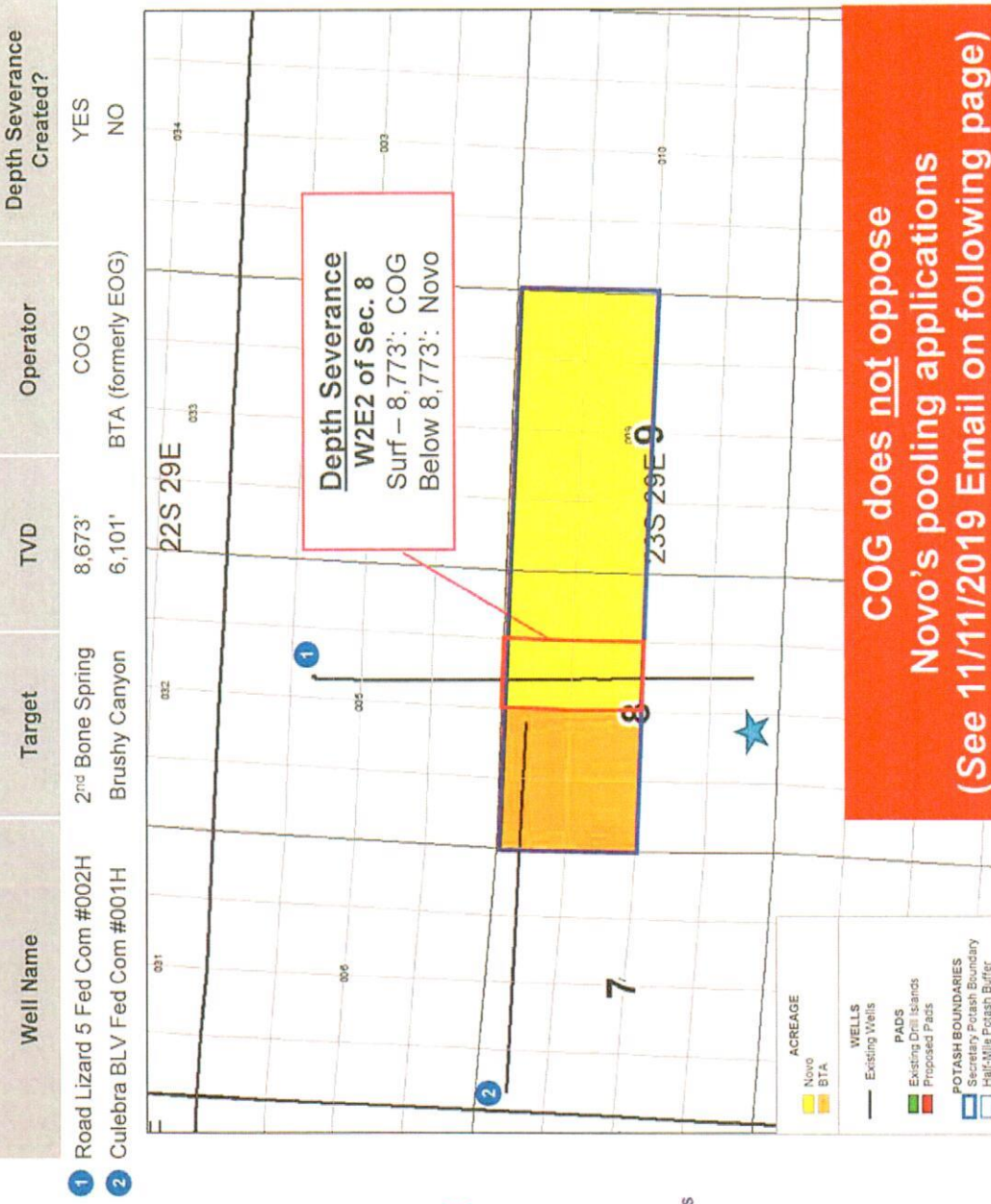
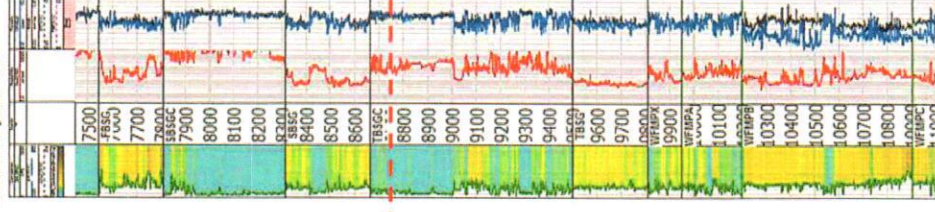
Wolfcamp Pooling App
Depths: entire Wolfcamp





Existing Wells & Title Depth Severances

301522702000
ANOCO 8000 CO
TELETYPE TIGAS CO#1
1500 FSL 2180 PIVL
JIP 21 S - Range 29 E - Sec 8



COG does not oppose
Novo's pooling applications
(See 11/11/2019 Email on following page)

Brandon Patrick

Subject: RE: Cases 20917 and 20916

From: Buck Underwood <BUnderwood@concho.com>
Sent: Monday, November 11, 2019 7:23 PM
To: Brandon Patrick <bpatrick@novoog.com>
Cc: Ashley Roush <ARoush@concho.com>; Larry Patrick <LPatrick@novoog.com>
Subject: Re: [External] RE: Cases 20917 and 20916

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
Concho Resources

From: Brandon Patrick
Sent: Friday, November 08, 2019 12:11 PM
To: Buck Underwood <BUnderwood@concho.com>
Cc: Ashley Roush <ARoush@concho.com>; Larry Patrick <LPatrick@novoog.com>
Subject: Cases 20917 and 20916

Buck,

Novo has filed pooling applications for Bone Spring (Case 20917) and Wolfcamp (Case 20916) formations covering the N/2 of Sections 8 and 9, T-23S R-29E, Eddy County, NM. The Bone Spring application is depth severed and covers only the interval from 8,773 feet to the base of the Bone Spring formation. Novo's intent was to match the depth severance in title and only include the depths **below** COG's leasehold. Please see the image below. Also, I have provided a link to Novo's applications at the bottom of this email.

As you are aware, the NMOCD requires operators who file depth-severed pooling applications to work with the owners of the other depths. **Can you please confirm that COG is not opposed to Novo's pooling applications for Cases 20917 and 20916?**

<image002.png>

http://ocdimage.emnrd.state.nm.us/Imaging/FileStore/santafeadmin/cf/20191018/20917_10_18_2019_01_56_37.pdf

http://ocdimage.emnrd.state.nm.us/Imaging/FileStore/santafeadmin/cf/20191018/20916_10_18_2019_01_57_07.pdf

PARTIAL RELEASE OF OIL AND GAS LEASE

STATE OF NEW MEXICO §
 §
 COUNTY OF EDDY §

Reference is made to that certain Oil and Gas Lease dated December 15, 2004 by and between TDY Industries, Inc. (formerly Teledyne Industries, Inc.) c/o Bank of America, N.A., Agent, lessor, and Strata Production Company, lessee ("Lease"), covering the lands more particularly described on Exhibit "A" attached hereto ("Lands"), which Lease is recorded by Memorandum of Oil and Gas Lease in Book 580, Page 53, Official Public Records of Eddy County, New Mexico.

COG's interest in the Lease has expired as to all lands and depths covered thereby, save and except as to the "Retained Lands" and "Retained Depths," as such terms are more particularly described on Exhibit "B" (the Retained Lands, as to the Retained Depths, hereinafter, the "Retained Interest").

By this Partial Release of Oil and Gas Lease ("Release"), COG Operating LLC, whose address is One Concho Center, 600 W. Illinois, Midland, Texas 79701 ("COG"), does hereby RELEASE, RELINQUISH, SURRENDER and FOREVER QUITCLAIM unto TDY Industries, Inc. (formerly Teledyne Industries, Inc.) c/o Bank of America, N.A., Agent, whose address is P.O. Box 830308, Dallas, Texas 75283-0308, its successors and assigns, the Lease, SAVE AND EXCEPT as to the Retained Interest. This Release expressly excludes, and Lessee expressly RESERVES and EXCEPTS solely unto itself, its successors and assigns, all of Lessee's right, title and interest in and to the Lease to the extent reasonably necessary for the operation of the Retained Interest. THIS RELEASE IS TENDERED IN FULL SATISFACTION OF THE RELEASE OBLIGATIONS OF THE RELEVANT PROVISIONS OF THE LEASE EXISTING AS OF THE EFFECTIVE DATE HEREOF, A PORTION OF WHICH LEASE IS RELEASED HEREBY.

IN WITNESS WHEREOF, this Release is signed by COG as of the date of its acknowledgment below, to be effective for all purposes, however, as of January 3, 2012.

[Signature and Acknowledgement Page Follows]

COG OPERATING LLC
 BRITTANY HULL 1CC-6
 600 W ILLINOIS AVE
 MIDLAND, TX 79701-9808

Page 1 of 4

Reception: 1712860 Book: 1100 Page: 0728 Pages: 4
 Recorded: 11/14/2017 08:17 AM Fee: \$25.00
 Eddy County, New Mexico - Robin Van Natta, County Clerk



TW

COG:

COG OPERATING LLC

By: Mark A. Carter

Name: Mark A. Carter BU

Title: Attorney-in-Fact 150

STATE OF TEXAS

§

§

COUNTY OF MIDLAND

§

This instrument was acknowledged before me this 2nd day of November, 2017 by Mark A. Carter, Attorney-in-Fact of COG Operating LLC, a Delaware limited liability company, on behalf of said limited liability company.

My Commission Expires: 6/25/2019

Tessa L. Elder
Notary Public, State of Texas

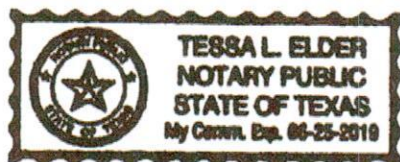


EXHIBIT "A"

to Partial Release of Oil and Gas Lease

Lands:

S/2, NE/4 of Section 8, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico.

All of Section 9, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico.

[End of Exhibit "A"]

EXHIBIT "B"

to Partial Release of Oil and Gas Lease

Retained Interest:

<u>Retained Lands</u>	<u>Retained Depths</u>
W/2 E/2 of Section 8, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico	All depths from the surface of the earth to 8,773 feet
S/2 S/2 of Section 9, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico	All depths from the surface of the earth to 7,838 feet

[End of Exhibit "B"]



Exhibit 16

Case No. 20917

History of Prospect



1 12/2017: BLM establishes "Nido" Drill Island

1. A company named Titus was trying to acquire the interest that is now owned by Novo
2. In Q4 2017, Titus worked with BLM to find surface locations
3. BLM established "Nido" drill island for Titus to develop N/2 of Sections 8 and 9
4. Novo ended up buying the interest that Titus wanted

2 11/2018: BTA acquires acreage

3 7/2019: Novo acquires acreage





Exhibit 17

Case No. 20917



Novo Contacts Mosaic to Plan Surface

Actions Taken by Novo

8/2019
Novo proposed wells
Novo scheduled onsite with BLM



4/2019
Novo worked with Mosaic (surface owner) to find pad locations

10/2019
Novo conducted onsite with BLM

11/14/2019
NMOCD Hearing for Novo's Pooling Apps

Map from Novo's 4/3/2019 Email to Mosaic



Mosaic's 4/11/2019 Response

From: Langman, Mary <Mary.Langman@mosaicco.com>
Sent: Thursday, April 11, 2019 2:43 PM
To: Brandon Patrick <bpatrick@novovoog.com>
Cc: Anderson, John <John.Anderson@mosaicco.com>; Goodale, Scotty <Scotty.Goodale@mosaicco.com>
Subject: RE: Salt Lake - Potential SUA

Hi Brandon,

Our site team has looked at your proposal and they have some concerns with **Well Pad #2**. The ground that close to the salt lake is unstable and there is a risk of flooding, plus a very high risk of contamination to the salt lake should there be a release. They would prefer both well pads to be on the NW side of the rail tracks. Once Novo has more definite plans in place please fill out the attached application forms for all the required infrastructure.

The completed Application will be reviewed by our site Governance Committee. Please provide as much detail as possible including pipeline tie in points.

Regards,
Mary

Mosaic
Mary Langman | Supervisor, Land and Minerals
The Mosaic Company | 1700, 2010 - 12th Avenue | Regina, SK
Canada S4P 0M3
P: 306.523.6105 | F: 306.523.2857 | E:
mary.langman@mosaicco.com | W: www.mosaicco.com



Novo Proposes Astrodog 0809 Wells

Actions Taken by Novo

8/2019

Novo proposed wells
Novo scheduled onsite with BLM



4/2019

Novo worked with Mosaic (surface owner) to find pad locations

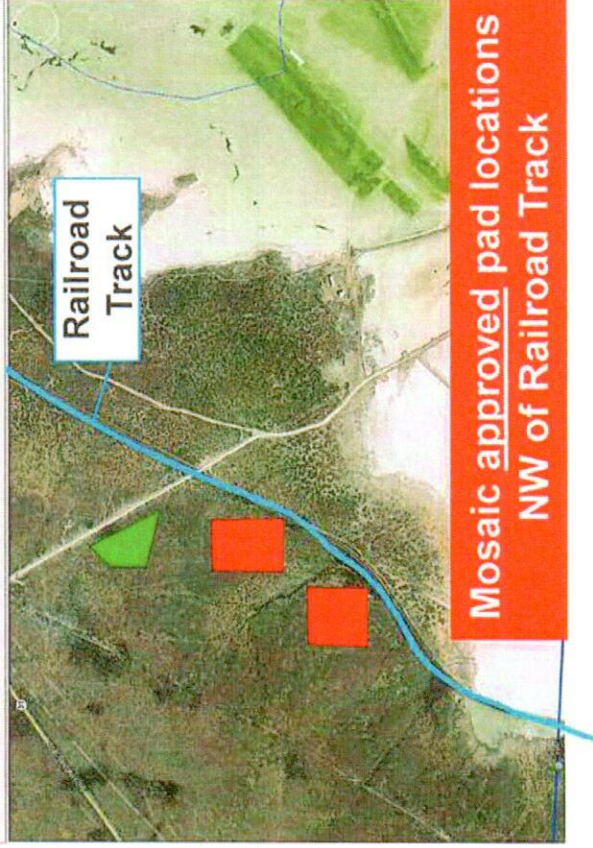
10/2019

Novo conducted onsite with BLM

11/14/2019

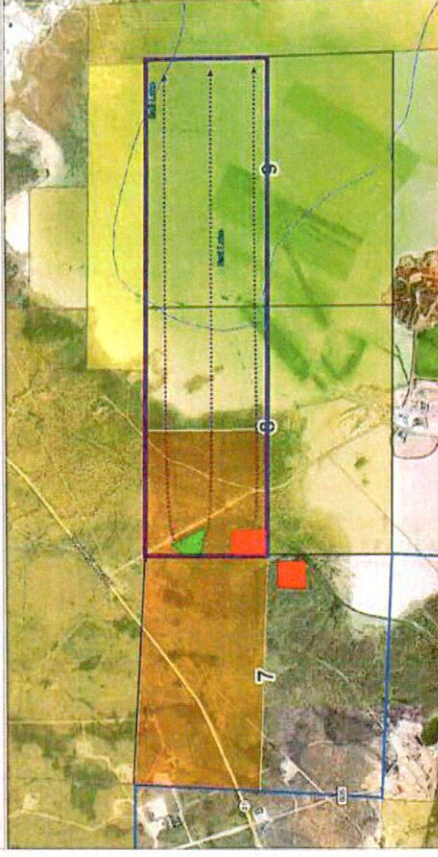
NMOCD Hearing for
Novo's Pooling Apps

Aerial of Surface Locations



Mosaic approved pad locations
NW of Railroad Track

Stick Layout



Novo proposed Astrodog wells to be
drilled from Mosaic-approved drill islands

BTA Opposes Novo's Astrodog Plans

Actions Taken by Novo

8/2019

Novo proposed wells
Novo scheduled onsite with BLM



4/2019

Novo worked with Mosaic (surface owner) to find pad locations

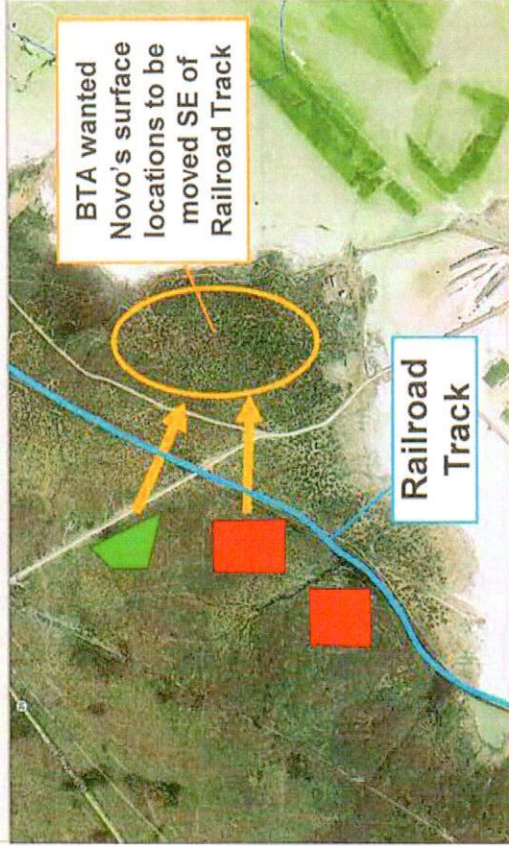
10/2019

Novo conducted onsite with BLM

11/14/2019

NMOCD Hearing for
Novo's Pooling Apps

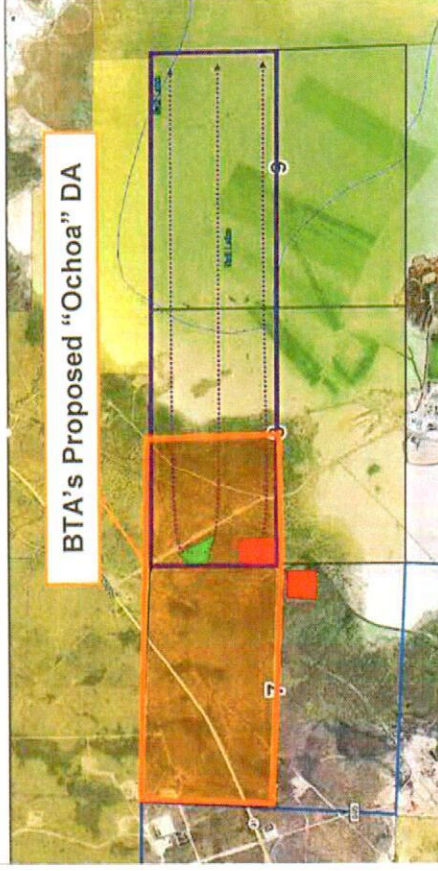
BTA's Request to Move Pads



Mosaic has rejected BTA's alternative pad location

BTA's Reaction to "Astrodog" Well Proposals

1. BTA did not want Novo to develop NW/4 of Sec. 8
 - BTA urged Novo to move pad locations SE of Railroad Track
 - BTA proposed "Ochoa" Development Area covering N/2 of Sec. 7 and NW/4 of Sec. 8





Novo and BTA Discuss Novo's Plans

Actions Taken by Novo

8/2019
Novo proposed wells
Novo scheduled onsite with BLM



Excerpt from 10/23 Email sent by BTA's Land Manager

part of BTA's development area. BTA will oppose Novo's pooling applications on the Astrodog wells and will object to any Novo development areas filed within the Secretary's Potash Area that BTA is notified of until this issue is resolved and Novo withdraws its objection to BTA's development area. BTA will be attending the on-site for the Astrodog and the Saturninus drilling island onsite tomorrow. Please call me at 432-682-3753 should you wish to discuss, or my e-mail is wprice@btaoil.com.



Willis Price

BTA-Novo Interactions

1. Novo offered to do trades with BTA
2. BTA-Novo meeting in OKC
 - Novo told BTA that moving the pad locations likely would not be approved by Mosaic and BLM
 - Novo invited BTA to attend 10/24 BLM onsite
 - Novo and BTA agreed to jointly approach BLM to discuss after BTA's Engineer reviewed pad locations
3. While Novo was waiting on BTA's Engineer, BTA's Land Manager went behind Novo's back and **approached BLM without including Novo**
4. Novo objected to BTA's "Ochoa" Development Area
5. BTA threatened to object to any Development Area proposed within the Secretary's Potash Area unless Novo withdraws its objection to "Ochoa" DA



10/24 BLM Onsite for Astrodog Surface Plan

Actions Taken by Novo

8/2019

Novo proposed wells
Novo scheduled onsite with BLM



4/2019

Novo worked with Mosaic (surface owner) to find pad locations

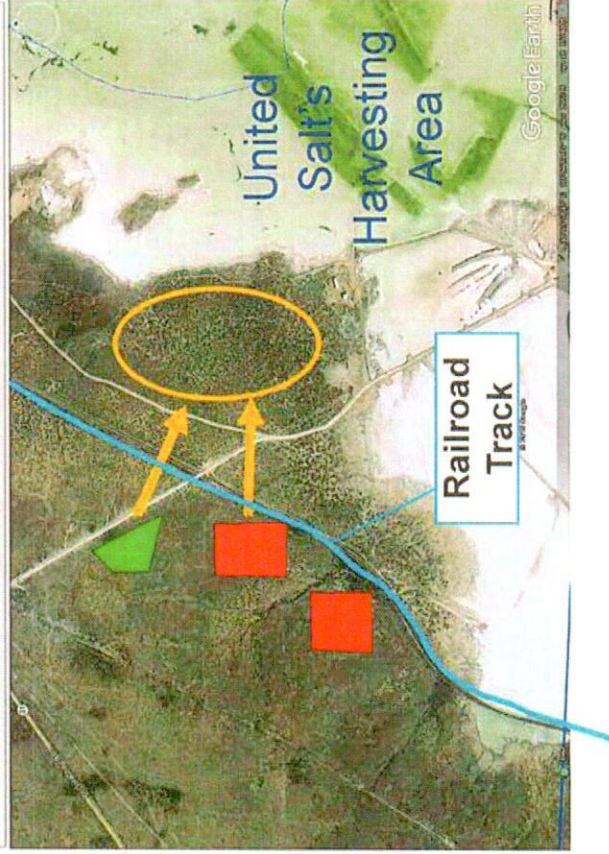
10/24/2019

Novo conducted onsite with BLM

11/14/2019

NMOCD Hearing for
Novo's Pooling Apps

Map Showing Proximity to United Salt's Operations



10/24/2019 BLM Onsite Notes

Attendees: BTA, Novo, BLM, United Salt Carlsbad, XTO, and Titus

Key Takeaways

1. BLM approved all 3 "Astrodog" pad locations
2. United Salt Carlsbad (surface lessee of Salt Lake) supported Novo's pad locations

"we prefer the current placement much more than the one proposed by BTA due to less risk to harvesting areas."

**-Tom Vandekraats, Plant Manager
United Salt Carlsbad**



Novo's Plan vs. BTA's Plan

Actions Taken by Novo

8/2019

Novo proposed wells
Novo scheduled onsite with BLM



4/2019

Novo worked with Mosaic (surface owner) to find pad locations

10/24/2019

Novo conducted onsite with BLM

11/14/2019

NMOCD Hearing for
Novo's Pooling Apps

Novo's Plan



Novo's Plan is the only guaranteed path to
avoid stranding Novo's 480 acres

BTA's Plan is not feasible because
surface owner objects to BTA's
recommended surface locations

Vs.

BTA's Recommended Alternative Plan



From: Bell, Ric <Ric.Bell@mosaicco.com>

Sent: Thursday, November 07, 2019 11:55 AM

To: Brandon Patrick <bpatrick@novooil.com>

Subject: RE: Novo Response to BTA's Request to Move Drill Island in 8-23S-29E

Brandon,

Mosaic will object to the relocation of this drill island as it would impact our ore reserves.

Cheers,

Ric



Exhibit 18

Case No. 20917

Marathon's "Valkyrie" Pooling Applications



Notes

- Marathon has proposed 2-mile wells across Sections 12-23S-28E and 7-23S-29E
- Marathon and BTA are fighting over who will operate
- Marathon supports Novo's "Astrodog" plans
- Novo supports Marathon's plan because, unlike BTA's plan, it does not negatively impact Novo's "Astrodog" prospect



Marathon's "Valkyrie" plans and Novo's "Astrodog" plans will fully develop four (4) sections while minimizing surface disturbance, accommodating potash concerns, and preventing waste



MODRALL SPERLING

L A W Y E R S

November 8, 2019

Via Fed Ex and e-mail to ocd.hearings@state.nm.us

New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, New Mexico, 87505

Re: Support for Novo Oil & Gas Northern Delaware LLC's Astrodog cases, Case Numbers 20916 and 20917, located in the N/2 of Section 8 and the N/2 of Section 9, Township 23 South, Range 29, Eddy County, New Mexico

Ladies and Gentlemen,

Marathon Oil Permian LLC ("Marathon") submits this letter in support of Novo Oil & Gas Northern Delaware LLC's ("Novo") "Astrodog" cases, Case Numbers 20916 and 20917, which are set for hearing on November 14, 2019. Novo has proposed a two-mile development plan that would traverse Sections 8 and 9, of Township 23 South, Range 29 East, Eddy County, New Mexico.

Marathon has proposed a two-mile development plan ("Valkyrie") being represented by Case Number 20866 that would traverse the N/2 of Section 12 of Township 23 South, Range 28 East and the N/2 of Section 7 of Township 23 South, Range 29 East, Eddy County, New Mexico, as well as a two-mile development plan being represented by Case Number 20865 that would traverse the S/2N/2 of Section 12 of Township 23 South, Range 28 East and the S/2N/2 of Section 7 of Township 23 South, Range 29 East, Eddy County, New Mexico, also set for hearing on November 14, 2019.

It is Marathon's opinion that the Novo Astrodog and the Marathon Valkyrie development plans represent an efficient use of the surface in and around the Potash Area, as well an efficient development of the subsurface minerals. Accordingly, Marathon supports the designation of Novo of operator and its planned development of the lands proposed to be included in the spacing units devoted to the Astrodog wells.

BTA Oil Producers, LLC ("BTA") has stated some concerns with respect to Novo's Astrodog planned development and Marathon's Valkyrie planned development for the N/2 of the relevant sections, including that BTA has a development plan for the N/2 of Section 7 and the NW/4 of Section 8.

Deana M. Bennett
Tel: 505.848.1834
Fax: 505.848.9710
deana.bennett@modrall.com

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New Mexico 87103-2168

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Page 2

Marathon's opinion is that Novo's and Marathon's proposals will lead to more efficient development than those of BTA. Marathon also notes that BTA has not filed competing applications with the NM OCD.

If you have any further questions, please contact Chase Rice at Marathon. Mr. Rice's phone number is 713-296-3055. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Deana M. Bennett". The signature is written in a cursive style with a large, stylized 'D' and 'B'.

Deana M. Bennett



Exhibit 19

Case No. 20917

Conclusion

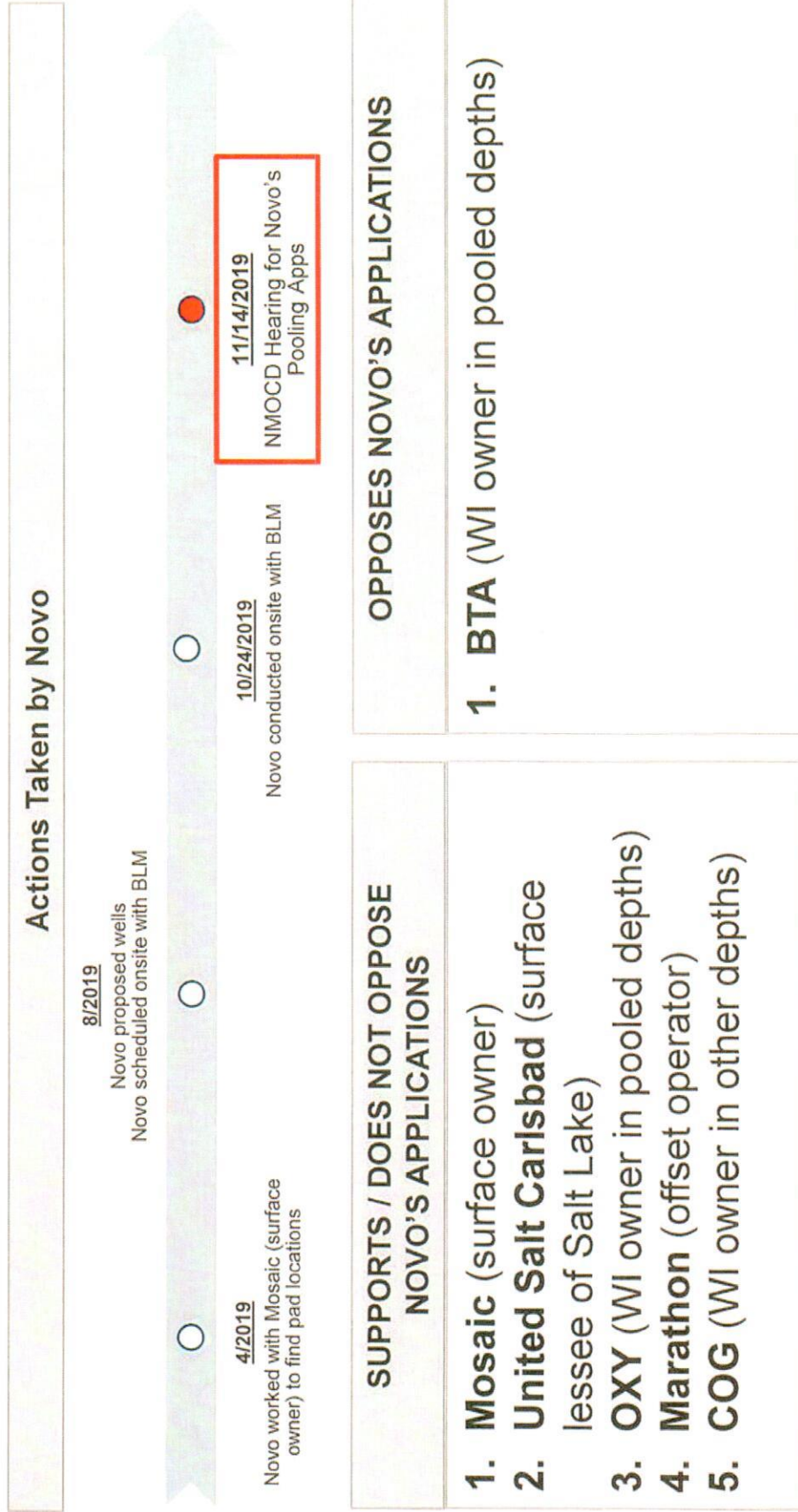




Exhibit 20

Case No. 20917

Summary of Communication with Mosaic				
Date (all in 2019)	Medium of Communication	Affected Party	Party Type	Content
April 3 - 11	E-Mail	Mosaic	Surface Owner & Potash Lessee	Novo proposed pad locations for development of "Astrodog" prospect; Mosaic <u>rejected</u> Novo's proposed pad SE of the railroad track. Mosaic: "The ground that close to the salt lake is unstable and there is a risk of flooding, plus a very high risk of contamination to the salt lake should there be a release. They would prefer both well pads to be on the NW side of the rail tracks."
July 22 - 25	E-Mail	Mosaic	Surface Owner & Potash Lessee	As Mosaic requested, Novo proposed revised pad locations located NW of the railroad tracks. Novo submitted a completed form of Mosaic's Surface Use Application.
August 26 - 27	E-Mail	Mosaic	Surface Owner & Potash Lessee	Novo asked Mosaic if they would object to Novo using the existing, BLM-approved Drill Island located in the NW/4 NW/4 of Section 8-23S-29E (the "Nido de Salado" Drill Island). Mosaic: "We will not object to you using the approved BLM DI in Section 8"
October 29	Phone Call	Mosaic	Surface Owner & Potash Lessee	Novo informed Mosaic that BTA wants the "Nido de Salado" Drill Island to be moved to the E/2 NW/4 of Section 8. Mosaic expressed that they would object to moving the "Nido de Salado" Drill Island
October 29 - November 7	E-Mail	Mosaic	Surface Owner & Potash Lessee	Novo asked Mosaic to confirm in writing that Mosaic objects to the "Nido de Salado" Drill Island being moved to the E/2 NW/4 of Section 8. Mosaic: "Mosaic will object to the relocation of the drill island as it would impact our ore reserves."

Summary of Communication with United Salt Carlsbad				
Date (all in 2019)	Medium of Communication	Affected Party	Party Type	Content
October 24	In-Person Discussion	United Salt Carlsbad	Surface Lessee of Salt Lake	United Salt Carlsbad expressed that they did not have problems with Novo's "Astrodog" pad locations. Novo offered to do a Road Sharing Agreement on roads that both Novo and USC would jointly use. Novo promised to send surveys to USC
November 5 - 6	E-Mail	United Salt Carlsbad	Surface Lessee of Salt Lake	Novo sent surveys to USC and asked if USC would have concerns with Novo relocating its pads to the E/2 NW/4 of Section 8. USC said that USC prefers the current placement of Novo's pads "much more" than the one proposed by BTA due to less risk to USC's salt harvesting areas. USC further explained that, if a big rainfall occurred, a pad in BTA's recommended location would harm USC's harvesting areas, whereas a pad in Novo's current placement would <u>not</u> harm USC's harvesting areas.

Summary of Communication with BTA				
Date (all in 2019)	Medium of Communication	Affected Party	Party Type	Content
August 15 - 21	E-Mail	BTA	Pooled Party	Novo offered to do a trade with BTA where BTA would assign its interest in the NW/4 of Section 8 to Novo. BTA: "BTA has plans to develop the N/2 of Section 7 and the NW/4 of Section 8-T23S-R29E- Eddy County, New Mexico. We are not interested in trading the NW/4 of Section 8 per your proposal outlined in your 8/20/2019 e-mail. Thanks."
August 29	E-Mail	BTA	Pooled Party	BTA notified Novo that BTA is submitting "Ochoa" Development Area proposal. Novo: "We have been preparing a Development Area Proposal called "Astrodog" covering all of Sections 8 and 9, 23S-29E. Our DA proposal corresponds with the Astrodog wells that we proposed to BTA and OXY not too long ago. We need to drill 2-mile wells across Sections 8 and 9 due to surface and potash constraints. Novo owns minerals under some BTA-operated tracts in this area. We hope we can find a mutually beneficial trade or other type of deal to make both companies happy. Is BTA interested in working something out with Novo?" BTA asked Novo why Novo couldn't develop its minerals from the E/2 NW/4 of Section 8. BTA expressed that they would work with Novo however they can to accommodate surface locations that don't interfere with BTA's development plans.
September 3	E-Mail	BTA	Pooled Party	BTA asked to meet with Novo in person on September 5 at Novo's OKC office. Novo agreed to meet.
September 5	In-Person Meeting	BTA	Pooled Party	BTA suggested that Novo could move its pad locations to the E/2 NW/4 of Section 8 Novo notified BTA that Mosaic had expressed concerns about locating pads SE of the railroad tracks. Further, Novo was <u>not</u> optimistic that BTA's suggestion to relocate the drill islands would be approved. Novo invited BTA to attend the 10/24 BLM onsite. Novo and BTA agreed that they would jointly approach (via email) the BLM to discuss the idea of relocating the drill islands to the E/2 NW/4. Novo offered to send an email to Jim Rutley, but BTA's Land Manager asked Novo to hold off until he can discuss with BTA's engineer.
September 24 - 25	E-Mail	BTA	Pooled Party	Novo asked if BTA's Land Manager was finished discussing with BTA's engineer. BTA revealed that: (1) BTA had been communicating with the BLM without including Novo; (2) BTA had asked the BLM and Mosaic for approval of a pad location that BTA selected for Novo. Novo told BTA that they would consider BTA's proposed pad location, if the pad fully meets Novo's requirements
October 1	E-Mail	BTA	Pooled Party	Novo notified BTA that Novo objects to BTA's "Ochoa" Development Area proposal.

October 15 - 22 E-Mail BTA Pooled Party	BTA offered to have another meeting at Novo's office in OKC. Novo notified BTA that Novo was unable to meet in person before the 10/24 onsite; however, Novo was available to communicate via email. BTA called Novo's Land Manager and left a short voicemail. Novo replied via email and asked BTA to communicate via email. BTA: "The purpose of The purpose for my proposed trip to OKC and my telephone call to Novo was to reiterate that BTA will support a Novo surface location in the E/2NW/4 of Section 8 that does not interfere with BTA's development area filed covering the N/2 of Section 7 and NW/4 of Section 8-T23S-R29E-Eddy County, NM. BTA will support a development area filed by Novo covering the NE/4 of Section 8 and the N/2 of Section 9-T23S-R29E-Eddy County, NM. These two development areas will allow each party to develop its acreage with 1-1/2 mile horizontal wells and allow BTA to operate its acreage and Novo to operate its acreage. BTA will object to any Novo surface location that interferes with BTA's development area , or a development area filed by Novo that includes any of BTA's 474.11 acres (N/2 of Section 7 and NW/4 of Section 8-T23S-R29E-Eddy County, NM) that is covered by an existing Operating Agreement covering all depths and does not require pooling. BTA would prefer to work with Novo on the development of this this area but Novo's objection to BTA's development area leaves BTA with no option but to object to Novo's proposed drilling islands or any Novo development plan filed with the BLM that interferes with or includes any part of BTA's development area. BTA will oppose Novo's pooling applications on the Astrodog wells and will object to any Novo development areas filed within the Secretary's Potash Area that BTA is notified of until this issue is resolved and Novo withdraws its objection to BTA's development area. BTA will be attending the on-site for the Astrodog and the Saturninus drilling island onsite tomorrow. Please call me at 432-682-3753 should you wish to discuss, or my e-mail is wprice@btaoil.com."
October 23 E-Mail BTA Pooled Party	

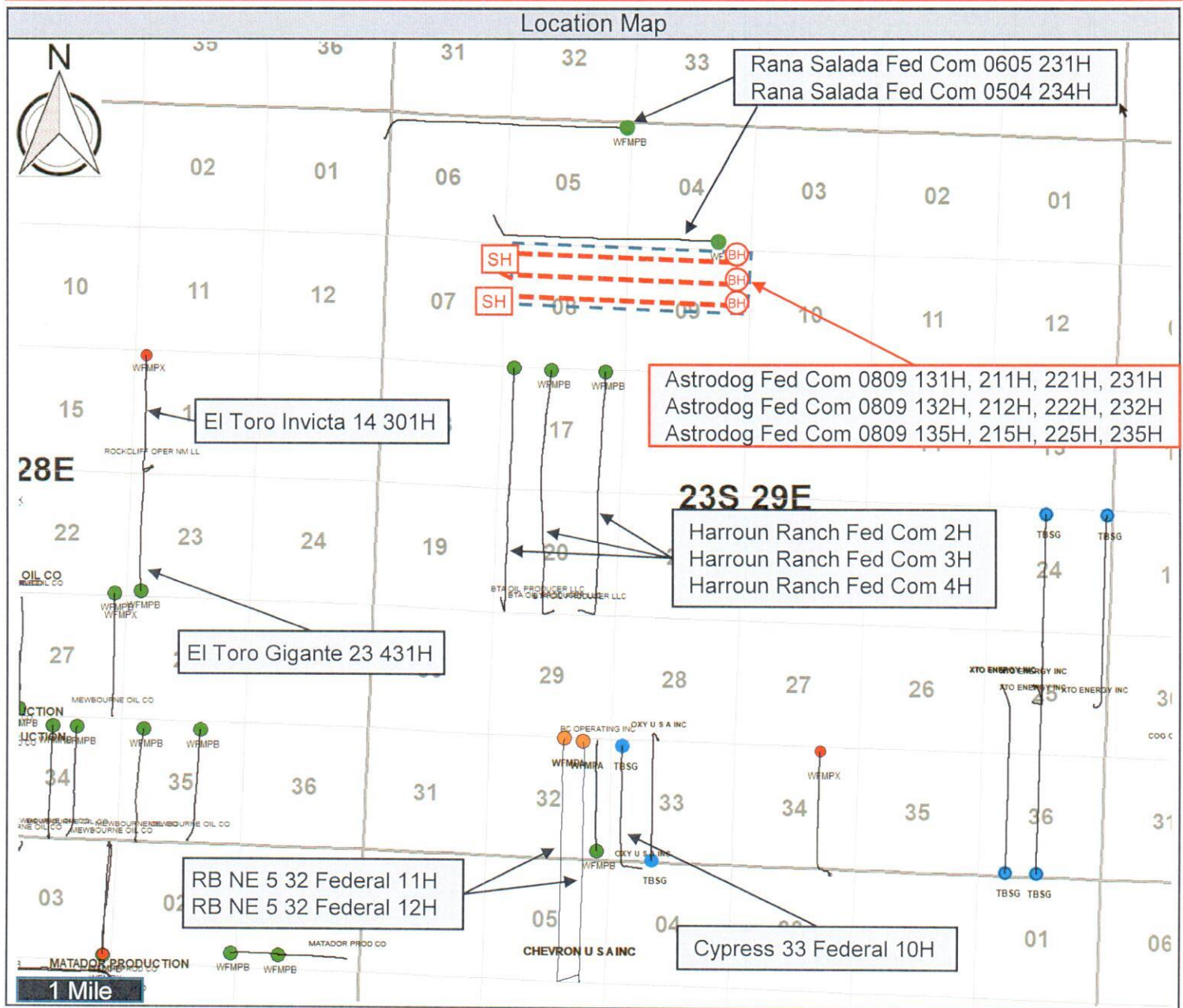


Exhibit 21

Case No. 20917

Astrodog Fed Com 0809– Full Development Plan

Third Bone Spring, Wolfcamp XY, Wolfcamp A, and Wolfcamp B Proposed Locations
Sections 08-23S-29E and 09-23S-29E

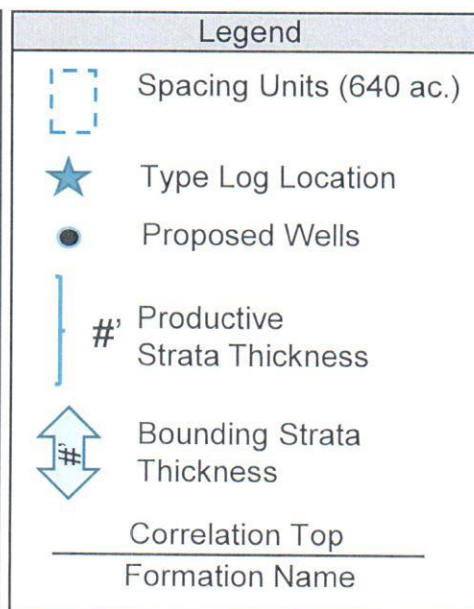
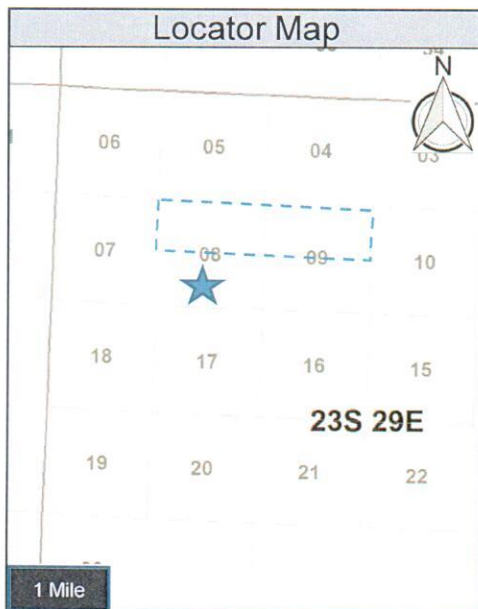
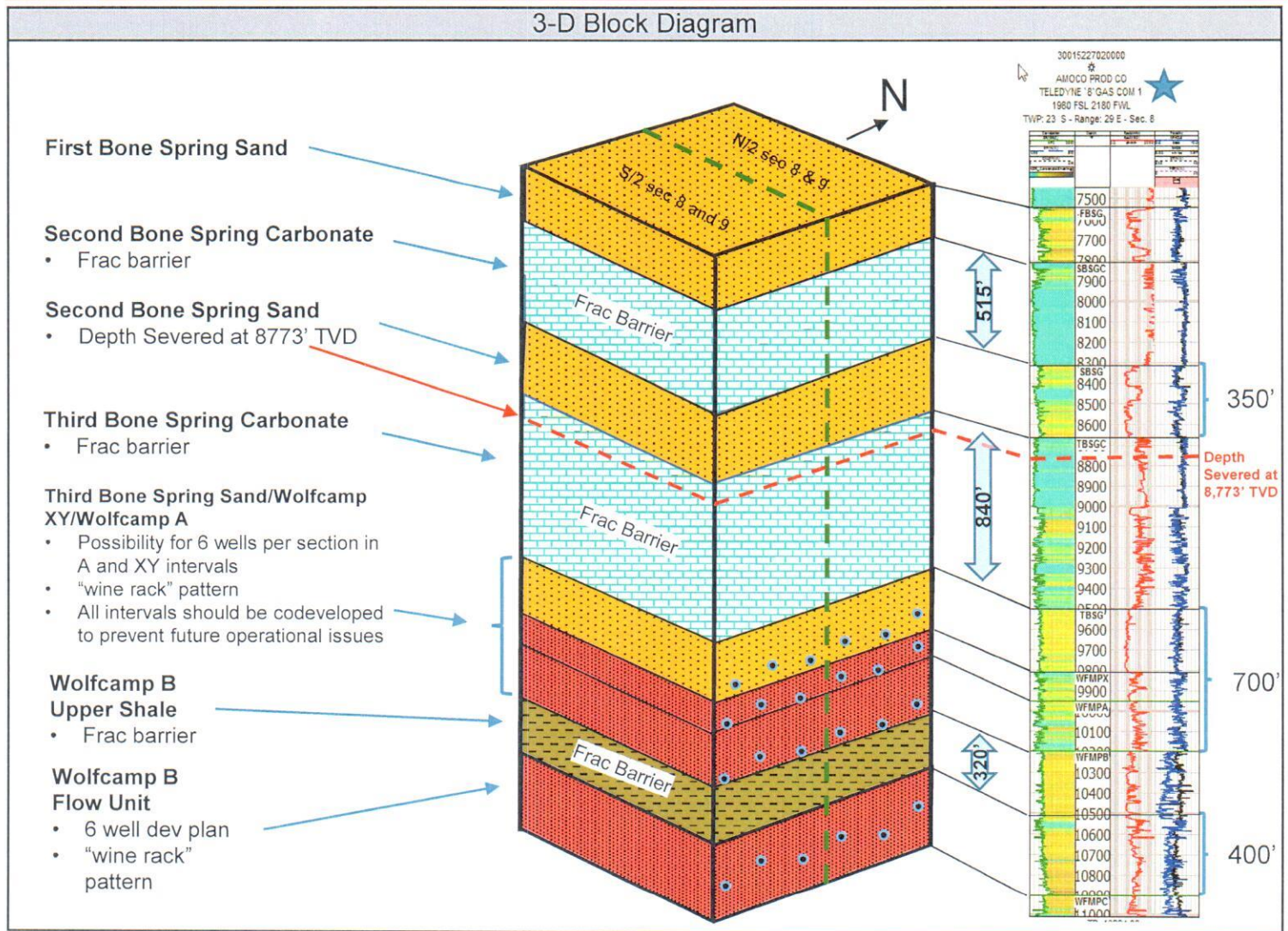


Map Legend	
	Spacing Unit (640 ac.)
	Surface Hole Location
	Novo Horizontal Location
	Bottom Hole Location
	Horizontal Landing Target
	Third Bone Spring Producer
	Wolfcamp XY Producer
	Wolfcamp A Producer
	Wolfcamp B Producer

Hearing Details
Novo Oil & Gas Northern Delaware, LLC
Docket Number:
Case Number:
Date: 8/13/2020
Exhibit Number:

Novo Development Plan: Astrodog Fed Com 0809 Units

Sections 08-23S-29E and 09-23S-29E

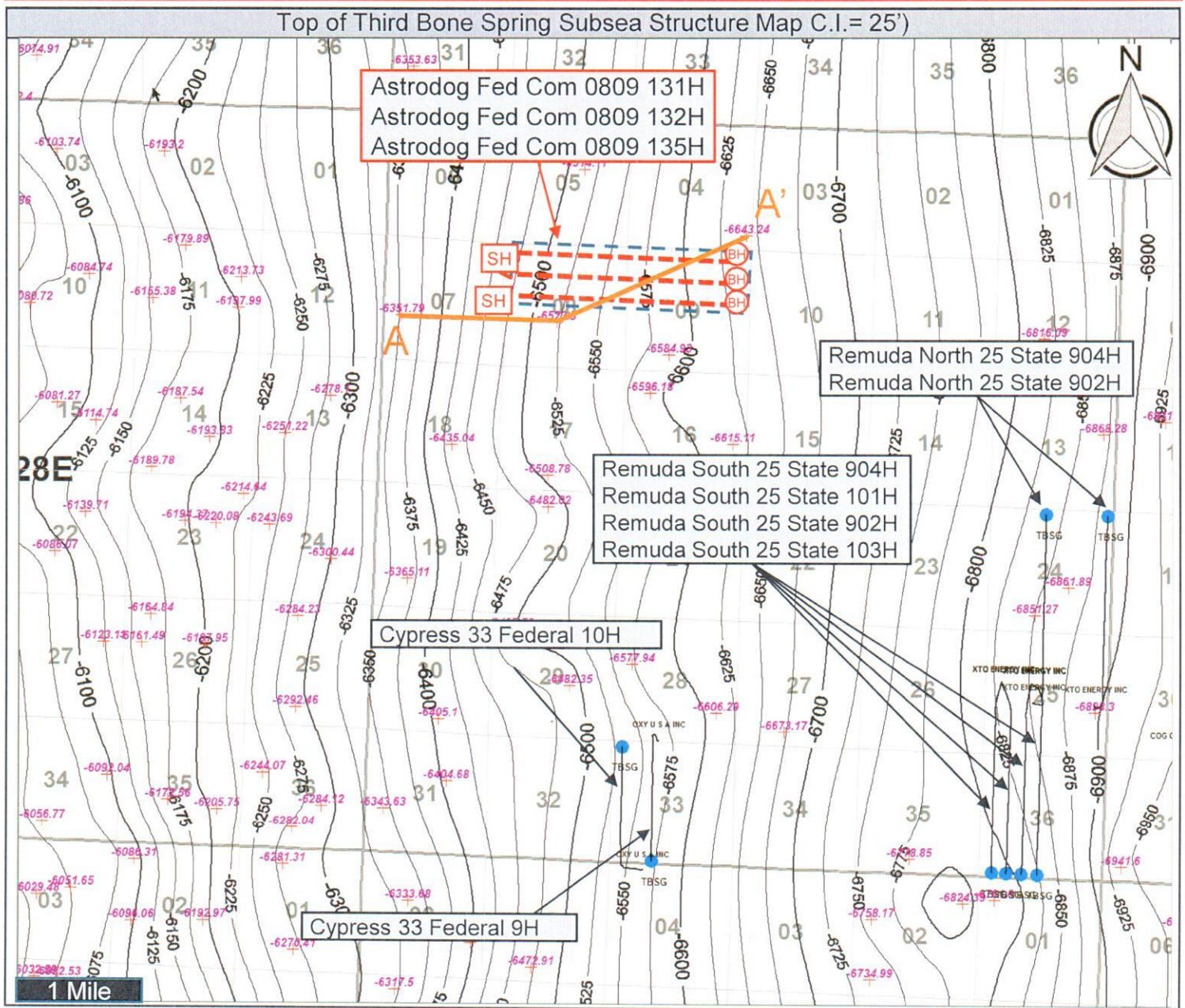


Novo Oil & Gas Northern Delaware, LLC	
Docket Number:	
Case Number:	
Date:	8/13/2020
Exhibit Number:	

Astrodog Fed Com 0809: Top of Third Bone Spring Structure Map



Third Bone Spring Proposed Locations; Sections 08-23S-29E and 09-23S-29E



Map Legend

- Spacing Unit (640 ac.)
- Surface Hole Location
- Novo Horizontal Location
- Bottom Hole Location
- TBSG Horizontal Landing Target
- Third Bone Spring Producer
- Datum value
- Third Bone Spring Subsea Structure
- Contour line – interval 25'
- Cross Section Line A A'

Hearing Details

Novo Oil & Gas Northern
Delaware, LLC

Docket Number:

Case Number:

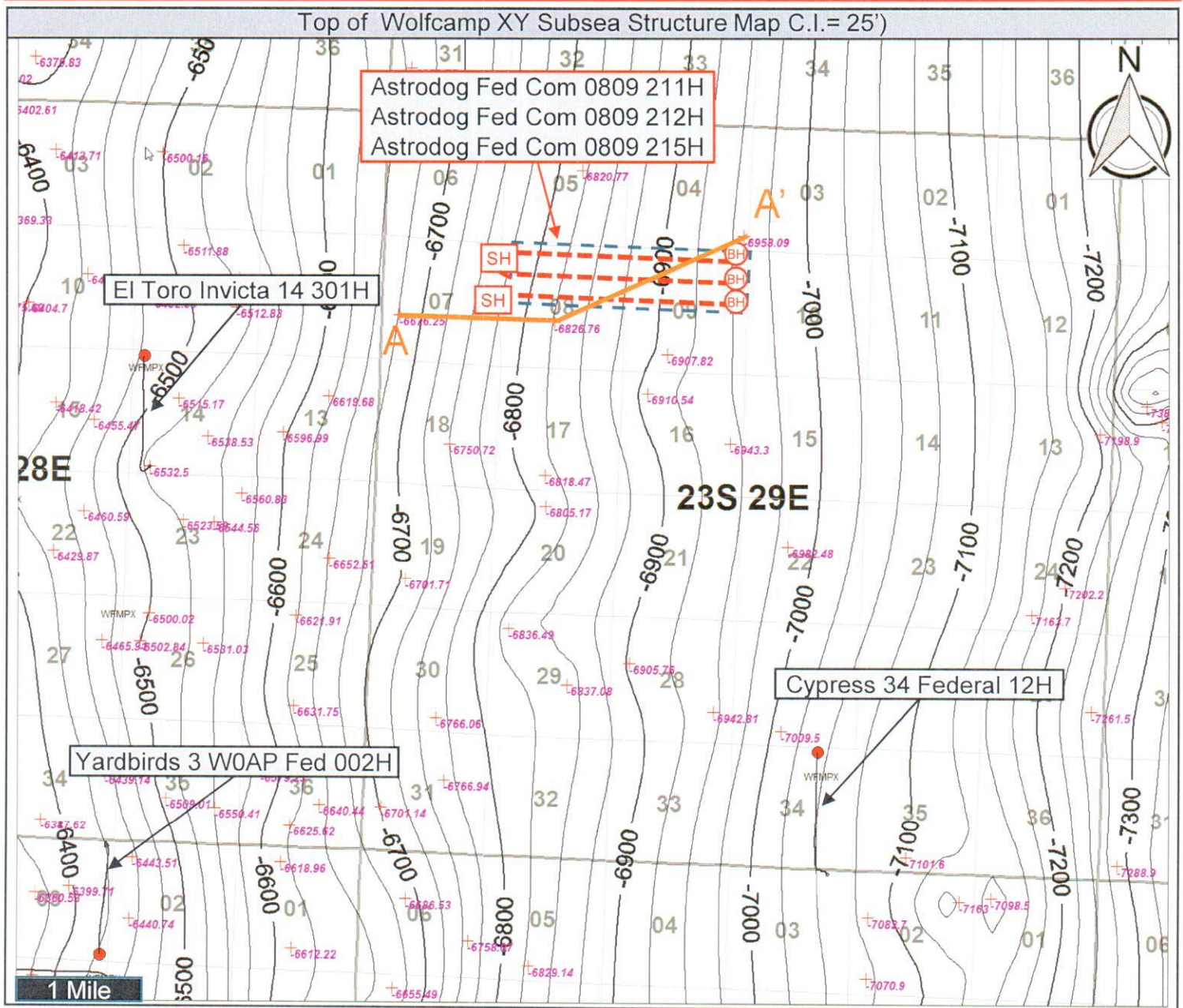
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Exhibit Number:

Astrodog Fed Com 0809: Top of Wolfcamp XY Structure Map



Wolfcamp XY Proposed Locations; Sections 08-23S-29E and 09-23S-29E



Map Legend

	Spacing Unit (640 ac.)		Wolfcamp XY Producer
	Surface Hole Location		Datum value
	Novo Horizontal Location		Wolfcamp XY Subsea Structure
	Bottom Hole Location		Contour line – interval 25'
	Horizontal Landing Target		Cross Section Line

Hearing Details

Novo Oil & Gas Northern
Delaware, LLC

Docket Number:

Case Number:

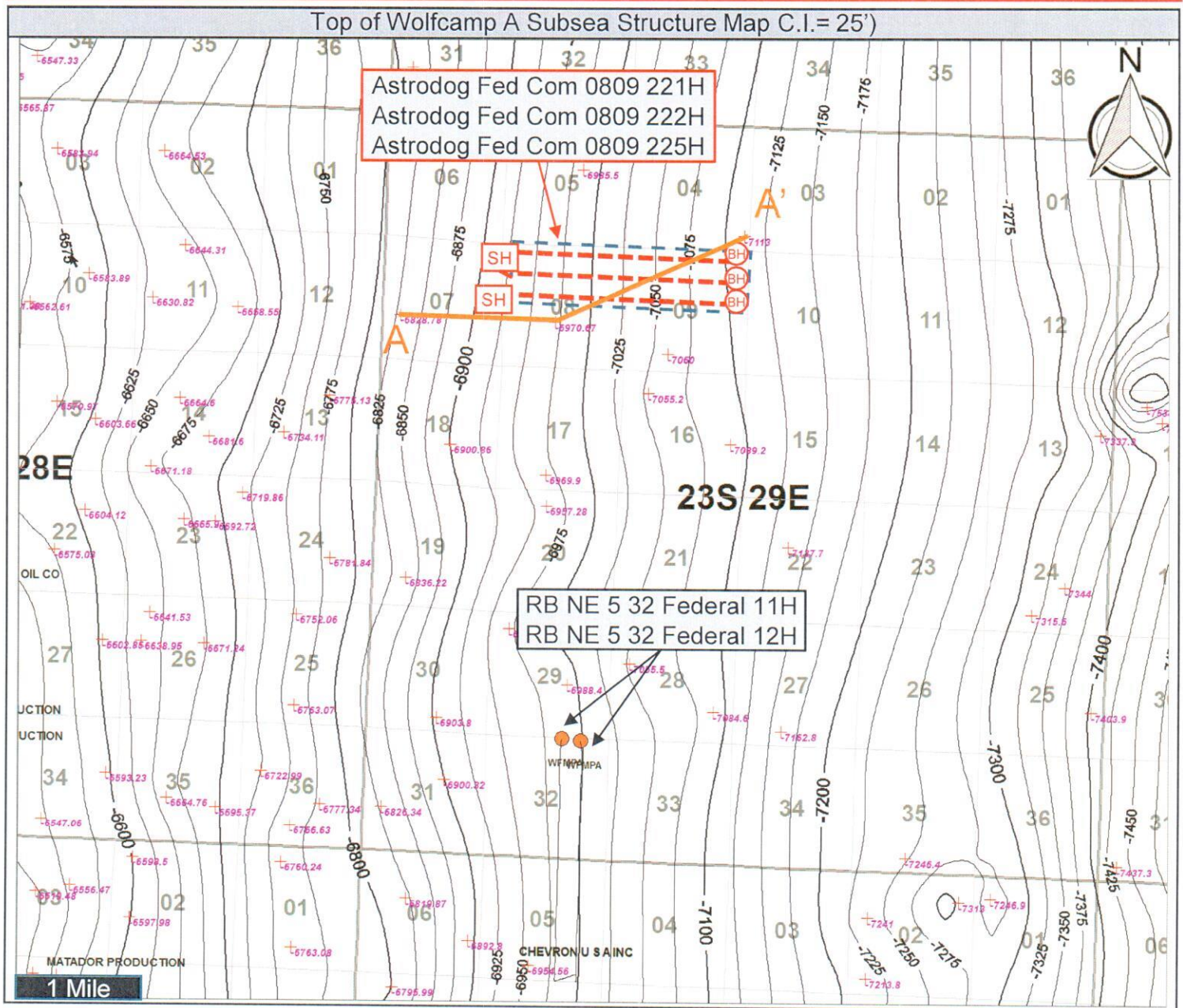
Date: 8/13/2020

Exhibit Number:

Astrodog Fed Com 0809: Top of Wolfcamp A Structure Map



Wolfcamp A Proposed Locations; Sections 08-23S-29E and 09-23S-29E



Map Legend

- Spacing Unit (640 ac.)
- Surface Hole Location
- Novo Horizontal Location
- Bottom Hole Location
- WFMPA Horizontal Landing Target
- Wolfcamp A Producer
- Datum value
- Wolfcamp A Subsea Structure
- Contour line – interval 25'
- Cross Section Line

Hearing Details

Novo Oil & Gas Northern
Delaware, LLC

Docket Number:

Case Number:

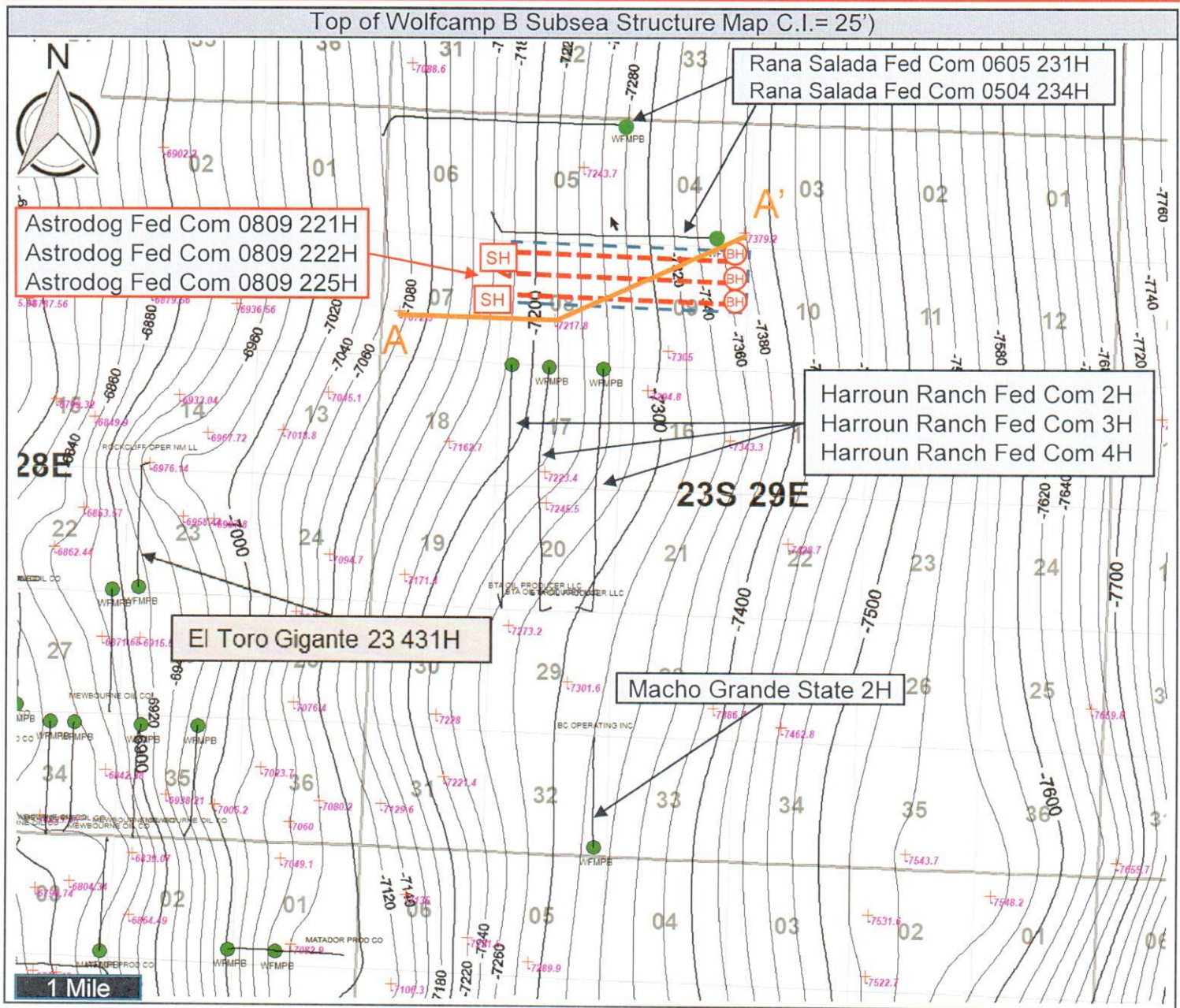
Date: 8/13/2020

Exhibit Number:

Astrodog Fed Com 0809: Top of Wolfcamp B Structure Map



Wolfcamp B Proposed Locations; Sections 08-23S-29E and 09-23S-29E



Map Legend	
	Spacing Unit (640 ac.)
	Surface Hole Location
	Novo Horizontal Location
	Bottom Hole Location
	Wolfcamp B Producer
	Datum value
	Wolfcamp B Subsea Structure
	Contour line – interval 25'
	Cross Section Line
	WFMPB Horizontal Landing Target

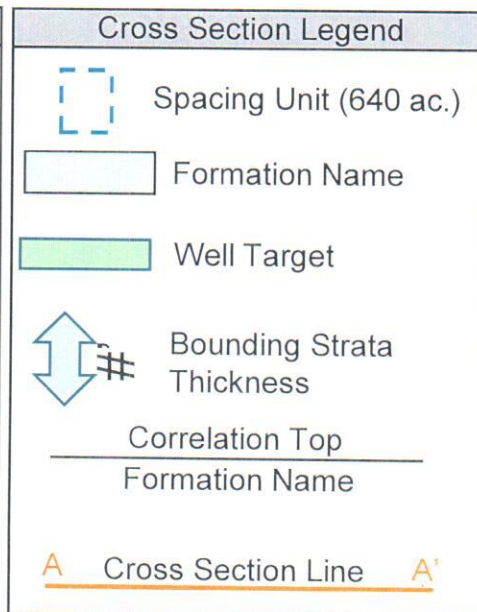
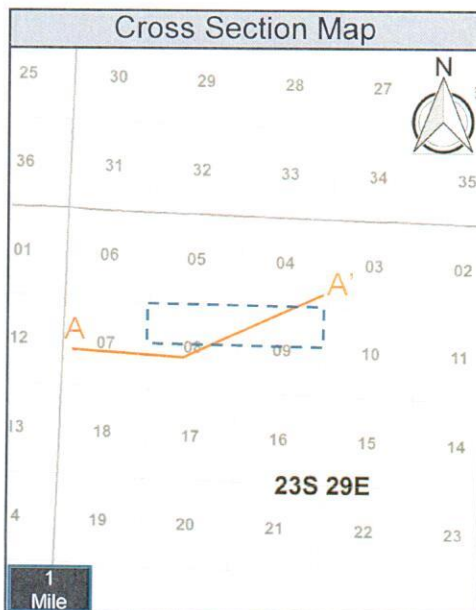
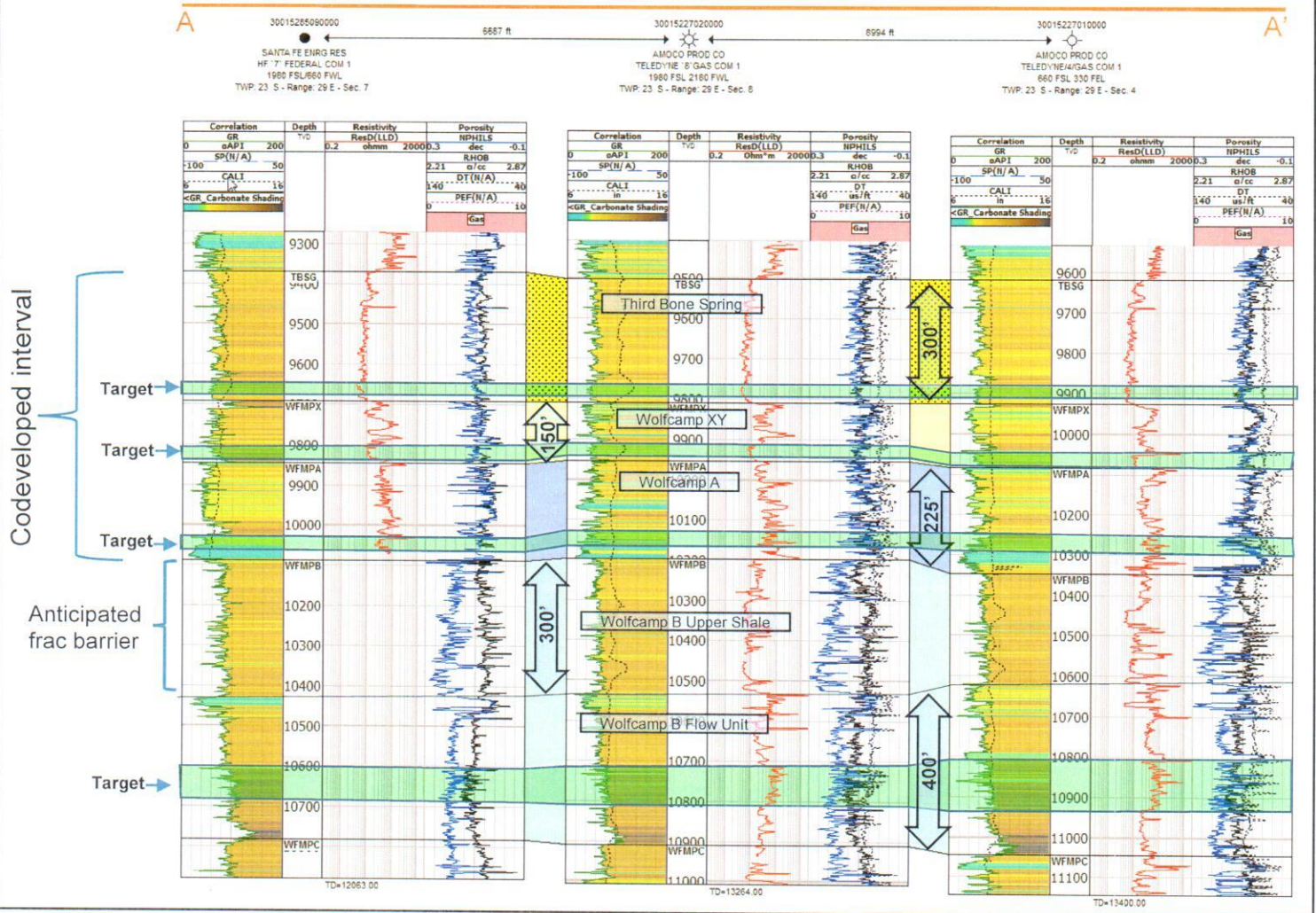
Hearing Details
Novo Oil & Gas Northern Delaware, LLC
Docket Number:
Case Number:
Date: 8/13/2020
Exhibit Number:

Astrodog– Third Bone Spring and Wolfcamp Stratigraphic Cross Section



Third Bone Spring, Wolfcamp XY, Wolfcamp A, and Wolfcamp B Proposed Locations;
Section 08-23S-29E and 09-23S-29E

Third Bone Spring and Wolfcamp Stratigraphic Cross Section (Ft) – Top of Wolfcamp XY Datum



Novo Oil & Gas Northern
Delaware, LLC

Docket Number:

Case Number:

Date: 8/13/2020

Exhibit Number:



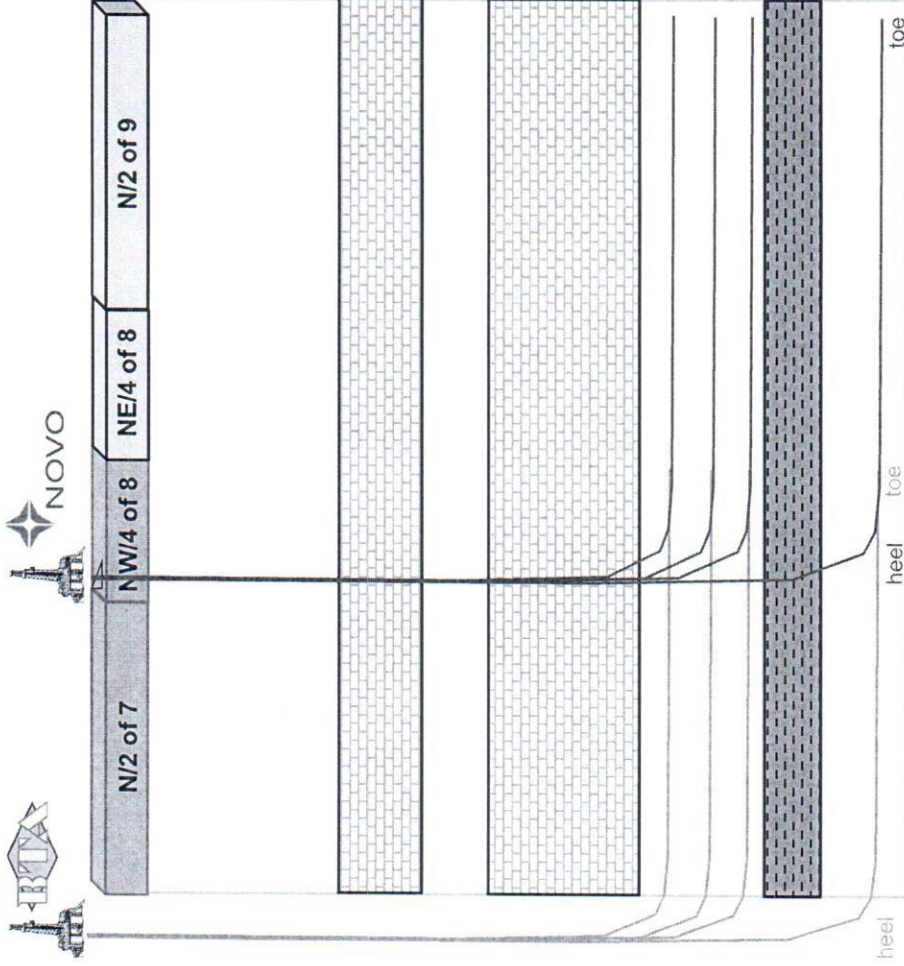
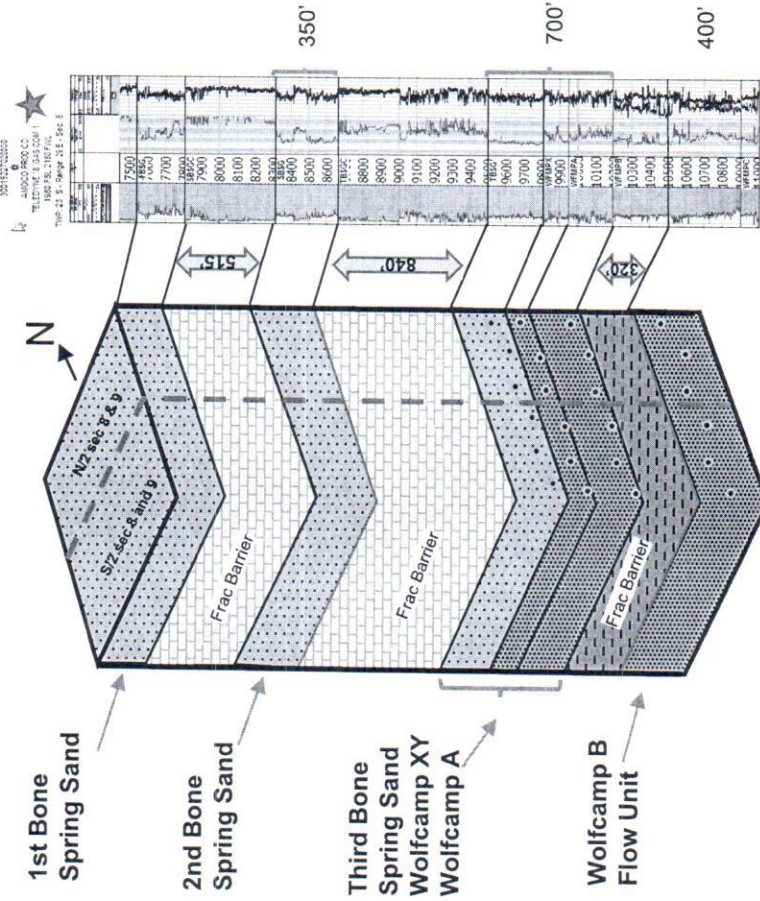
Exhibit 22

Case No. 20917

Wellbore Collision Risk



If BTA is allowed to drill into NW/4 of Sec. 8, Novo and BTA's development plans will overlap and increase risk of wellbore collision



- Modern drilling technology helps operators understand where wellbores are located, **but the location of wellbores is not exact.**
- The best an operator can do is understand that its wellbore is somewhere within the well's "ellipse of uncertainty".
 - The ellipse grows with the TMD of the well
 - Smallest at the well's "heel"
 - Largest at the well's "toe"

