BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING SEPTEMBER 24, 2020

CASE NO. 21354

Alpha 183533 2H Well

LEA COUNTY, NEW MEXICO



APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NOS. 21354

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COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 21354	APPLICANT'S RESPONSE
Date: September 24, 2020	
Applicant	Catena Resources Operating, LLC
Designated Operator & OGRID (affiliation if applicable)	Catena Resources Operating, LLC (OGRID No. 328449)
Applicant's Counsel:	Holland & Hart LLP
Case Title:	APPLICATION OF CATENA RESOURCES OPERATING, LLC
	FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.
Entries of Appearance/Intervenors:	Marathon Oil Permian, LLC
Well Family	Alpha 183533 2H
Formation/Pool	
Formation Name(s) or Vertical Extent:	Bone Spring Formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Bone Spring Formation
Pool Name and Pool Code:	Scharb; Bone Spring (55610)
Well Location Setback Rules:	Statewide horizontal oil well rules
Spacing Unit Size:	480-acres, more or less
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal well spacing unit
Size (Acres)	480 acres, more or less
Building Blocks:	quarter-quarter sections
Orientation:	North to South
Description: TRS/County	SW/4 of Section 33, T-18-S, R-35-E and W/2 of Section 4, T-
	19-S, R-35-E, NMPM, Lea County, New Mexico.
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	None
Proximity Tracts: If yes, description	E/2 SW/4 of Section 33 ad E/2 W/2 of Section 4
Proximity Defining Well: if yes, description	Alpha 183533 2H
Applicant's Ownership in Each Tract	Exhibit A-3
Well(s)	
Name & API (if assigned), surface and bottom hole location,	Add wells as needed
footages, completion target, orientation, completion status	
(standard or non-standard)	
Well #1	Alpha 183533 2H (API # Pending)
	SHL: 2450' FSL & 1370' FWL (Unit K), Sec. 33, T18S, R35E
	BHL: 100' FSL & 1270' FWL (Unit M), Sec. 4, T195, R35E
	Completion target: Bone Spring
	Well orientation: North to South
	Completion location: expected to be standard
	completion location. expected to be standard
Horizontal Well First and Last Take Points	See Exhibit A-1
Completion Target (Formation, TVD and MD)	See Exhibit B
AFE Coney and Onerating Costs	
AFE Capex and Operating Costs	\$8.000
Drilling Supervision/Month \$	\$8,000 \$800
Production Supervision/Month \$	νυος

Justification for Supervision Costs	See Exhibit A
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit C
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit D
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit A-3
Tract List (including lease numbers and owners)	Exhibit A-3
Pooled Parties (including lease numbers and owners)	Exhibit A-3
Unlocatable Parties to be Pooled	Exhibit D
Ownership Depth Severance (including percentage above &	
below)	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit A-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-3
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5
Overhead Rates In Proposal Letter	Exhibit A-4
Cost Estimate to Drill and Complete	Exhibit A-4
Cost Estimate to Equip Well	Exhibit A-4
Cost Estimate for Production Facilities	Exhibit A-4
Geology	Exhibit B
Summary (including special considerations)	Exhibit A-2
Spacing Unit Schematic Gunbarrel/Lateral Trajectory Schematic	Exhibit A-2
Well Orientation (with rationale)	Exhibit A-2 Exhibit B-1
	Exhibit B
Target Formation HSU Cross Section	Exhibit B-2
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-1
Tracts	Exhibit A-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-3
General Location Map (including basin)	Exhibit A-2
Well Bore Location Map	Exhibit A-2
Structure Contour Map - Subsea Depth	Exhibit B-1
Cross Section Location Map (including wells)	Exhibit B-1
Cross Section (including Landing Zone)	Exhibit B-2
Additional Information	••
Special Provisions/Stipulations	None
CERTIFICATION: I hereby certify that the information provi	
Printed Name (Attorney or Party Representative):	Kaitlyn A. Luck
Signed Name (Attorney or Party Representative):	Booklel

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NO. <u>21354</u>

APPLICATION

Catena Resources Operating, LLC ("Applicant") (OGRID No. 328449), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for an order pooling all uncommitted interests in the Bone Spring formation underlying a standard 480-acre, more or less, horizontal spacing unit comprised of the SW/4 of Section 33, Township 18 South, Range 35 East, and the W/2 of Section 4, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico. In support Applicant states:

1. Applicant is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.

2. Applicant seeks to initially dedicate the above-referenced spacing unit to the proposed **Alpha 183533 2H Well** to be horizontally drilled from a surface location in the NE/4 SW/4 (Unit K) of Section 33 to a bottom hole location in the SW/4 SW/4 (Unit M) of Section 4.

3. The completed interval for the proposed well will remain within 330 feet of the E/2 SW/4 of Section 33 and E/2 W/2 of Section 4 to include this offsetting acreage in a standard horizontal well spacing unit.

4. Applicant has sought and been unable to obtain voluntary agreement for the development of these lands from all interest owners in the subject spacing unit.

5. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

6. In order to permit Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this horizontal spacing unit should be pooled, and Applicant should be designated the operator of the proposed well and horizontal spacing unit.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 23, 2020, and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit and approving the initial well thereon;
- B. Designating Applicant as operator of the horizontal spacing unit and the horizontal wells to be drilled thereon;
- C. Authorizing Applicant to recover its costs of drilling, equipping, and completing the well;
- D. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- E. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the well against any working interest owner who does not voluntarily participate in the drilling of the well.

Respectfully submitted,

HOLLAND & HART LLP

File 20 By:

Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Post Office Box 2208 Santa Fe, New Mexico 87504-2208 (505) 988-4421 (505) 983-6043 Facsimile mhfrldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com

ATTORNEYS FOR CATENA RESOURCES OPERATING, LLC

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NOS. 21354

AFFIDAVIT OF ROBERT SWANN

Robert Swann, of lawful age and being first duly sworn, declares as follows:

 My name is Robert Swann. I am a Land Manager with Catena Resources Operating, LLC ("Catena").

2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum land manager have been accepted by the Division and made a matter of record.

3. I am familiar with the application filed by Catena in this case, and I am familiar with the status of the lands in the subject area.

4. The uncommitted parties have not indicated any opposition to this pooling application, and therefore I do not expect any opposition at the hearing

5. Catena seek an order pooling all uncommitted interests in the Bone Spring formation [55610, Scharb; Bone Spring] underlying a standard 479.40-acre horizontal spacing unit comprised of the comprised of the SW/4 of Section 33, Township 18 South, Range 35 East, and the W/2 of Section 4, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico.

6. Catena seeks to initially dedicate this spacing unit to the proposed Alpha 183533 2H Well to be horizontally drilled from a surface location in the NE/4 SW/4 (Unit K) of Section

33 to a bottom hole location in the SW/4 SW/4 (Unit M) of Section 4. The completed interval for BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A 1 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354 the proposed well will remain within 330 feet of the E/2 SW/4 of Section 33 and E/2 W/2 of Section 4 to include this offsetting acreage in a standard horizontal well spacing unit.

7. **Exhibit A-1** contains the Form C-102 for the proposed well.

8. **Exhibit A-2** is a general location map outlining the acreage being pooled and the lateral trajectory of the proposed well. The acreage is comprised of state lands.

9. **Exhibit A-3** identifies the tracts of land comprising the proposed spacing unit, the working interest ownership in each tract and their respective interest in the horizontal spacing unit. The mineral owners that remain to be pooled are highlighted on Exhibit A-3.

10. No ownership depth severances exist within in the Bone Spring formation underlying the subject acreage.

11. Catena has conducted a diligent search of company records, county records, telephone directors and conducted computer searches to locate contact information for each of the mineral owners that it seeks to pool.

12. **Exhibit A-4** contains a sample of the letter and AFE for the proposed well sent to the working interest owners that Catena has been able to locate. The costs reflected on the AFE are consistent with what Catena and other operators have incurred for drilling similar horizontal wells in the area in this formation.

13. **Exhibit A-5** contains a chronology of the contacts with the uncommitted mineral owners Catena was able to locate. Catena has made a good faith effort to obtain voluntary joinder of these owners in the proposed wells.

14. **Exhibit A-6** is Catena's notice of the overlapping spacing unit in this case, pursuant to 19.15.16.15.B(9) NMAC, which reflects that all affected working interest owners were provided notice of the overlapping spacing unit. No objection was received within the 20-day time period.

2

15. Catena requests overhead and administrative rates of \$8,000 per month for drilling and \$800 per month for a producing well. These rates are consistent with the rates charged by Catena and other operators for similar wells in this area.

16. I have provided the law firm of Holland and Hart, LLP, with the names and addresses (where available) of the mineral owners that Catena seeks to pool and instructed that they be notified of this hearing.

17. Exhibits A-1 through A-6 were prepared by me or compiled under my direction from company business records.

FURTHER AFFIANT SAYETH NAUGHT

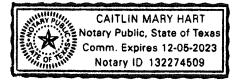
ROBERT SWANN

STATE OF TEXAS COUNTY OF BEXAR

SUBSCRIBED and SWORN to before me this 22 day of 500002020 by Robert Swann.

))

)



NOTARY PUBLIC

My Commission Expires:

<u>District I</u> 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

AMENDED REPORT

			II EEE EO			LIGE DEDIC	III I DI I DI			
1	API Numb	er	² Pool Code ³ Pool Name							
	55610 Scharb; Bone Sprii					Scharb; Bone Spring				
⁴ Property	Code				⁵ Property	Name			⁶ Well Number	
					Alpha 183	533			2H	
⁷ OGRID	No.				⁸ Operator	· Name			⁹ Elevation	
32844	19			Cate	na Resource	s Operating, I	LLC			
					¹⁰ Surface I	Location				
UL or lot no.	Section	Township	o Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
K	33	185	5 35E		2450'	FSL	1370'	FWL	Lea	
			n Bot	ttom Hol	e Location If	Different From	m Surface			
UL or lot no.	Section	Township	o Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
М	4	195	5 35E		100'	FSL	1270'	FWL	Lea	
¹² Dedicated Acres	¹³ Joint o	r Infill	¹⁴ Consolidation	Code ¹⁵ Or	rder No.					
479.40			COM							

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.

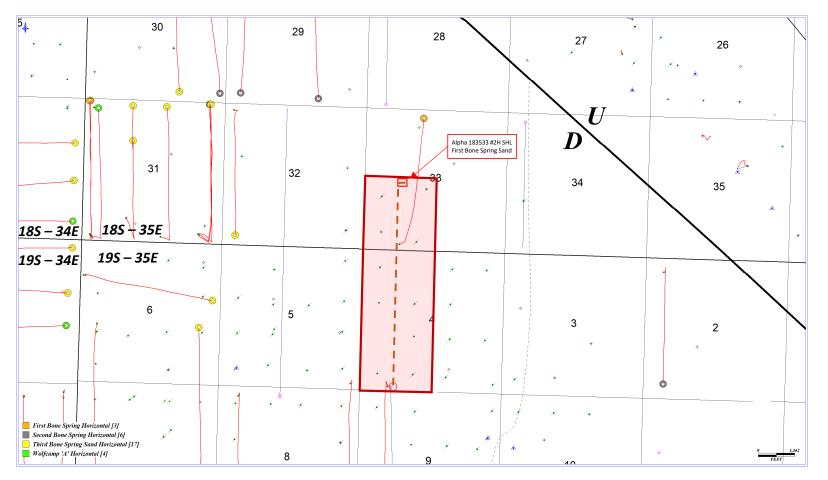
SENW	SWNE	Alpha 183533	SWNW	SENW	SWNE	SENE	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complet</i>
NESW	NWSE	2450' FSL 1370' FWL 33 18S 35E	NWSW	NESW	NWSE	NESE	to the best of my knowledge and belief, and that this organization either owns a working interes 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 worka interest, or to a voluntary pooling agreement or om pulsory pooling order
SESW	SWSE	^{sese} 18S	^{swsw}	SESW	SWSE	 	heretofore entered by the division. Signature Date
L 3	L 2	19S	35E	L 3	L 2	L 1	PrintedName E-mail Address
SENW	swne	SENE	SWNW	SENW	SWNE	SENE	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown onithplat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true
NESW	NWSE	NESE	NWSW	NESW	NWSE	NESE	and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:
SESW	SWSE	SESE	swsw	BHL & LTP 100' FSL 1270' FWL 4 19S 35E	SWSE	SESE	BEFORE THE OIL CONSERVATION DIVISION
NENW	NWNE	NENE	NWNW	NENW	NWNE	NENE	Exhibit No. A1

ng, LLC Hearing Date: September 24, 2020 Case No. 21354

WELL LOCATION AND ACREAGE DEDICATION PLAT

Alpha 183533 #2H

Locator Map



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A2 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

Unit Size	Alpha 18	Alpha 183533 2H - Bone Spring - Case No. 21354							
479.4			-	-					
WI Owner		Tract	Tract	Tract	Tract				
Wi Owner		No	Gross	WI	NMA				
Catena Resources Operating		1	160	93.75%	150.000				
Catena Resources Operating		3	40	100.00%	40.000				
Catena Resources Operating		8	40	100.00%	40.000				
T.H. McElvain Oil & Gas, LLLP		1	160	6.25%	10.000				
Marathon Oil Permian LLC		2	79.4	100.00%	79.400				
Marathon Oil Permian LLC		6	40	100.00%	40.000				
Maynard Oil Company		4 40			12.000				
Linn Energy Holdings, LLC		4 40 70.00%			28.000				
Maynard Oil Company		5 40 60.00%			24.000				
Linn Energy Holdings, LLC		5	40	40.00%	16.000				
Maynard Oil Company		7 40		60.00%	24.000				
Linn Energy Holdings, LLC		7	40	40.00%	16.000				
Tract To	tals		-		479.400				
WIOW	nor			Unit	Unit				
WISW	WI	NMA							
Catena Resource	47.98%	230.000							
T.H. McElvain Oi	2.09%	10.000							
Marathon Oil P	24.91%	119.400							
Maynard Oil	Maynard Oil Company								

Linn Energy Holdings, LLC

Unit Totals

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A3 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

12.52%

100.00%

60.000

479.400

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SENW	SWNE	SENE	SWNW	SENW	SWNE	SENE	SWNW
	8				 9		



June 10, 2020 <u>Via Certified Mail</u> BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A4 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

Marathon Oil Company P.O. Box 2069 Houston, TX 77252 713-629-6600

Re: Alpha 183533 1H Well Proposal Wolfcamp Formation SW/4 of Section 33 T18S, 35E, and W/2 of Section 4, T19S, R35E Lea County, New Mexico

Alpha 183533 2H Well Proposal Bone Spring Formation SW/4 of Section 33 T18S, 35E, and W/2 of Section 4, T19S, R35E Lea County, New Mexico

Ladies and Gentlemen,

Catena Resources Operating, LLC ("Catena") as Operator hereby proposes to drill the following wells to a depth sufficient to test the Wolfcamp and Bone Spring formations:

Well Name	SHL Section 33	BHL Section 4	Spacing Unit 480 Acres	Target TVD	Estimated TMD
Alpha 183533 1H Wolfcamp Formation	FSL: 2450' FWL: 1270'	FSL: 100' FWL: 1270'	SW/4 of Section 33, T18S, 35E and W/2 of Section 4, T19S, R35E	10,590'	18,246'
Alpha 183533 2H Bone Spring Formation	FSL: 2450' FWL: 1370'	FSL: 100' FEL: 1270'	SW/4 of Section 33, T18S, 35E and W/2 of Section 4, T19S, R35E	9,180'	16,836'

These proposed locations and target depths are subject to change depending on any surface or subsurface concerns encountered.

Regarding the above, enclosed for your further handling are our AFE's dated April 16, 2020 for the proposed wells. The AFE's represent an estimate of the costs that will be incurred to drill and complete the wells, but those electing to participate in the wells are responsible for their proportionate share of the actual costs incurred. In the event you elect to participate in the proposed wells, please execute the enclosed AFE's and return to me. We are happy to furnish you with a proposed Joint Operating Agreement upon request. Please respond within 30 days of receiving this notice. If you do not wish to participate, Catena proposes to acquire your interest via term assignment subject to due diligence and title verification satisfactory to Catena.

Should you have any questions regarding the above, please email me at <u>rswann@catenares.com</u> or call me at (210) 775-6993.

Sincerely,

Catena Resources Operating, LLC

Robert Swann

Land Manager

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Separation Equipment, Heater Treater Surface Pumps Hiters Buikings Hitersonnect Piping / Manifolds / Headers Buikings Buiki	Separation Equipment, Heater Treater 32113 301 \$68,200 \$68 Surface Pumps 32114 \$0 33108 \$50,000 \$68 Riters 32115 \$0 33108 \$50,000 \$60 Bildings 32115 \$0 33108 \$50,000 \$60 Automation/Instruments / Controls / Analyzers 32117 \$0 33111 \$60,000 \$60 Bectrical Equipment / Controls / Analyzers 32113 \$0 33111 \$60,000 \$60 Compressor & Related Equipment 32121 \$0 33111 \$510,000 \$60 Compressor & Related Equipment 32122 \$0 33111 \$510,000 \$510 Chemical Equipment / Cathodic Protection 32123 \$0 33111 \$104,000 \$111 Subsurface Equipment 32126 \$44,948,5 \$0 33124 \$18,000 \$3112 \$16,000 \$111 Stately /B48,5 Equipment 32124 \$11,000 \$3212 \$10,000 \$3112 \$16,000 \$111 Stately /B48,5 Equipment 32126 \$440,960	Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift			\$26,750	32103 32104 32105 32106 32107 32108 32109	\$31,200 \$27,000 \$0 \$0 \$14,000	33102 33103 33104	\$0 \$0 \$0	\$31,200 \$53,750 \$0 \$0 \$14,000 \$42,000	
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Intercommert Pping / Manfrolds / Headers Revenues and the second	Inter comect Piping / Manifolds / Headers Powines / Connections / Valves Automation / Valves Automatic / Valves Automation / Valves Automatic / Valves Automati	Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions - Production T Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Heater Treater			\$26,750	32103 32104 32105 32106 32107 32108 32109 32110 32111 32111 32112 32113	\$31,200 \$27,000 \$0 \$0 \$14,000 \$42,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	33102 33103 33104 33105 33106 33106 33107	\$0 \$0 \$66,000 \$0 \$68,200	\$31,200 \$53,750 \$0 \$14,000 \$42,000 \$66,000 \$0 \$68,200	
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Automation / Instruments / Controls / Analyzers 32119 \$0 33113 \$16,000 \$16,000 Bectrical Equipment / Cenerators 32120 \$0 33114 \$52,000 \$52,000 Compressor & Related Equipment 32120 \$0 33114 \$52,000 \$52,000 Metering Equipment, LACT Unit 32122 \$0 33116 \$104,000 \$100,00 \$202,00 \$33118 \$10,000 \$2120 \$100 \$31120 \$100 \$32120 \$30 \$32120 \$30 \$3122 \$100 \$32120 \$30 \$3122 \$100 \$32120 \$30 \$3122 \$100 \$32120 \$32128 \$30 \$32120 \$322,44,10 \$33122 \$10,000 \$30,00 \$30,00 \$30,00 \$30,00 \$30,00 \$30	Automation / Instruments / Controls / Analyzers 32119 50 33113 \$16,000 \$16 Bectrical Equipment / Generators 32110 \$20 \$0 33114 \$52,000 \$50 Compressor & Related Equipment 32121 \$0 33114 \$52,000 \$50 Metering Equipment, LACT Unit 32121 \$0 33116 \$104,000 \$104 Subsurface Equipment - Packer, Plugs, TAC 32124 \$11,000 33118 \$0 \$11 Safety / ERAS Equipment 32126 \$40,000 \$3110 \$18,000 \$222 Sob 33120 \$0 33120 \$0 \$2121 \$10,000 \$2124 Safety / ERAS Equipment 32126 \$40,000 \$3110 \$2226 \$3120 \$33120 \$0 \$24 Miscellaneous 33110 \$11,060 32129 \$24,410 33122 \$16,000 \$33120 \$0 \$24 \$0 \$33120 \$0 \$24 \$0 \$33122 \$16,000 \$33120 \$2 \$26,080 \$33124 \$30 \$24 \$0 \$33120 \$0 \$24 <td< td=""><td>Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions - Production T Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings</td><td></td><td></td><td>\$26,750</td><td>32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32114 32115 32116</td><td>\$31,200 \$27,000 \$0 \$0 \$14,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>33102 33103 33104 33105 33106 33107 33108 33109 33110</td><td>\$0 \$0 \$66,000 \$68,200 \$3,000 \$0 \$0 \$0</td><td>\$31,200 \$53,750 \$00 \$14,000 \$66,000 \$66,000 \$68,200 \$3,000 \$3,000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00</td></td<>	Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions - Production T Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Filters Buildings			\$26,750	32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32114 32115 32116	\$31,200 \$27,000 \$0 \$0 \$14,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	33102 33103 33104 33105 33106 33107 33108 33109 33110	\$0 \$0 \$66,000 \$68,200 \$3,000 \$0 \$0 \$0	\$31,200 \$53,750 \$00 \$14,000 \$66,000 \$66,000 \$68,200 \$3,000 \$3,000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	
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Chemical Equipment / Cathodic Protection Subsurface Equipment - Packer, Plugs, TAC Subsurface Equipment - Pac	Chemical Equipment / Cathodic Protection Subsurface Equipment - Packer, Plugs, TAC Subsurface Equipment - Packer, Plugs, TAC Satety / EN&S Equipment NON-OP Drilling Intangible Transfer/SWD Pumps & Equipment Rare / Combustor Miscellaneous Contingency Costs TOTAL TANGIBLE COSTS TOTAL VIELL COSTS TOTAL WELL COSTS Prepared by Travis Salinas Prepared by Travis Salinas Prepared by Travis Salinas Title: Engineer Ints AF-Lis only an estimate. By returning one signed copy, you agree to pay your share of the actual costs incurred. Extra Expense Insurance I elect to be covered by Operator's Extra Expense insurance and pay my proportionate share of the premium. I elect to purchase my own well control insurance policy. enter box is checked above, non-operating w orking interest ow ner elects to be covered by Uperator's well control insurance Joint Owner Interest: Amount: 	Casing Equipment - OHMS / Etc. Wellhead Equipment Pumping Unit / Prime Mover / Base Rods / Pony Rods / Sinker Bars Artificial Lift Other - Gas Lift Wellhead Equipment Completions - Production T Tanks / Tank Steps / Stairs Gas Treating / Dehydration Equipment Separation Equipment, Heater Treater Surface Pumps Riters Buildings Interconnect Piping / Manifolds / Headers Rowlines / Connections / Valves Automation / Instruments / Controls / Analyzers Bectrical Equipment / Generators			\$26,750	32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32116 32116 32117 32118 32119 32120	\$31,200 \$27,000 \$0 \$0 \$14,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33112 33113 33114	\$0 \$0 \$0 \$66,000 \$88,200 \$88,200 \$3,000 \$0 \$60,000 \$46,960 \$16,000 \$16,000 \$52,000	\$31,200 \$53,750 \$00 \$14,000 \$42,000 \$66,000 \$42,000 \$68,200 \$3,000 \$300 \$00 \$50,000 \$46,960 \$16,000 \$16,000 \$52,000	
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Catena Resources Operating, LLC – Discussion Timeline

Wells

Alpha 183533 2H

Catena's conversations with Marathon began on December 6, 2019. From that time on, multiple emails, phone calls, proposals and letters were exchanged. The main contact at Marathon is Jeff Broussard and as of August 3, 2020, dealings with Marathon are ongoing.

15429893_v1

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A5 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

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

TO ALL WORKING INTEREST OWNERS IN THE ACREAGE AFFECTED BY PROPOSED OVERLAPPING SPACING UNIT

Re: Notice of Overlapping Spacing
Bone Spring Formation
480 Acres, SW/4 Section 33, 18S,35E & W/2 Section 4, 19S,35E
Lea County, New Mexico

To Whom It May Concern:

This letter is to advise you that Catena Resources Operating, LLC has proposed to drill the following well in the Bone Springs formation:

Alpha 183533 2H 1st Bone Spring Sand Interval Approximate Depth: 9,180' SHL: 2450' FSL, 1370' FWL, Sec. 33, 18S, 35E BHL: 100' FSL, 1270' FWL, Sec. 4, 19S, 35E

This well will be dedicated to a 480-acre spacing unit comprised of the following acreage: SW/4 Section 33, 18S, 35E & W/2 Section 4, 19S, 35E, Lea County, New Mexico.

This proposed 480-acre spacing unit will overlap the following spacing unit(s) containing the listed existing wells:

Spacing Unit	Section	T-R	Well	Well No.	API	Pool	Depth
E2W2	33	18S 35E	Ironhouse 33NC	01H	30-025-40868	Scharb; Bone Spring	9,111'

Pursuant to NMAC 19.15.16.15.B(9) and 19.15.15.12.B, you have a right to object this overlapping spacing unit by delivering a written statement of objection to our office within twenty (20) days of the mailing of this notice. If no objection is received within this 20-day period, we will proceed with drilling the initial wells within this overlapping spacing unit.

If you have any questions about this matter, please contact my office.

Sincerely,

Robert Swann Land Manager 18402 Hwy 281, Suite 258 San Antonio, Texas 78259 Direct: (210) 775-6993 rswann@catenares.com

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. A6 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NOS. 21354

AFFIDAVIT OF VINCE SMITH

Vince Smith, of lawful age and being first duly sworn, declares as follows:

1. My name is Vince Smith. I work for Catena Resources Operating, LLC ("Catena") as a Geologist.

2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record.

3. I am familiar with the application filed by Catena in this matter and I have

conducted a geologic study of the lands in the subject area.

4. Catena is initially targeting the First Bone Spring Sand interval of the Bone Spring formation. **Exhibit B-1** is a subsea structure map that I prepared for this interval with 25-foot contours. The proposed horizontal well spacing unit is highlighted in red and the initial well is depicted with a dashed line. The structure map shows the Bone Spring formation dipping gently to the south. The dark line between the notations "D" and "U" represents a deeper structure that caused the shallower formations to sit high. The notations "D" and "U" refer to "downthrown" and "upthrown" side of the deep structure faulting. The structure appears consistent across the proposed spacing unit and I do not observe any faulting, pinch outs, or other geologic impediments to drilling horizontal wells in this area.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354 5. Exhibit B-1 also shows a cross-section line in red running north to south reflecting four wells penetrating the Bone Spring formation that I used to construct a stratigraphic cross-section from A to A'. These wells contain good logs and I consider them representative of the geology in the subject area.

6. **Exhibit B-2** is a stratigraphic cross-section that I prepared using the logs from the wells noted on Exhibit B-1. Each well in the cross-section contains the gamma ray in the first track, resistivity in the second track and porosity curves in the third track. The initial target interval is labeled and marked. The cross-section demonstrates that the targeted interval is continuous across the proposed spacing unit.

7. Based on my geologic study, the Bone Spring formation underlying the subject area is suitable for development by horizontal wells and the acreage comprising the proposed spacing unit will be productive and contribute proportionately to the production from the well.

8. **Exhibit B-1** also shows the orientation of the wells drilled in the Bone Spring formation in the surrounding area. The stand-up orientation of the proposed well is the preferred orientation for horizontal well development in this area and is appropriate to efficiently and effectively develop the subject acreage.

9. In my opinion, the granting of Catena's application is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

10. **Exhibits B-1** through **B-2** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT.

2

Vince Smith

VINCE SMITH

STATE OF TEXAS)) COUNTY OF BEXAR)

MV by Vince Smith. SUBSCRIBED and SWORN to before me this $\underline{22}$ day of $\underline{84}$



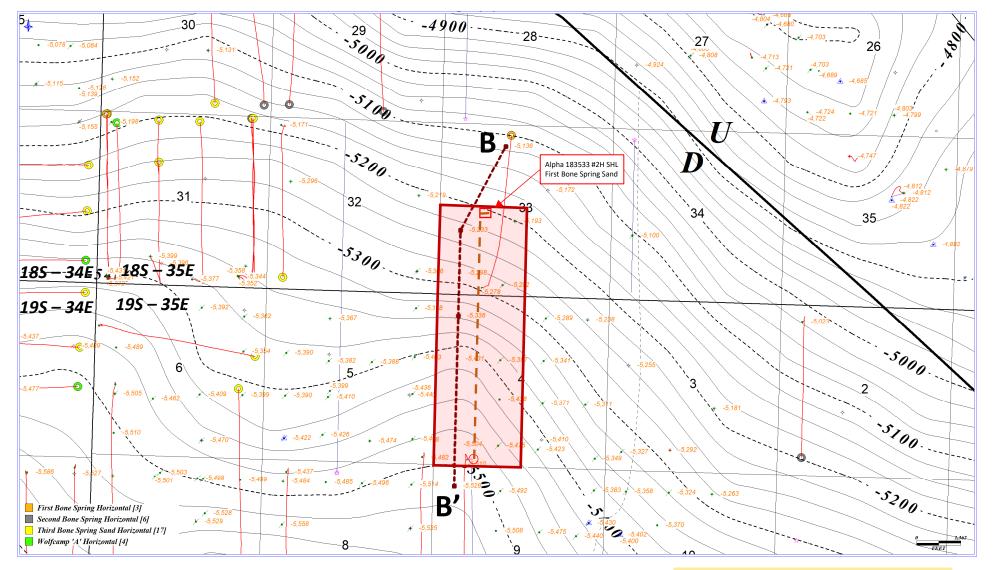
10-NOTARY PUBLI

My Commission Expires:

12/05/2023

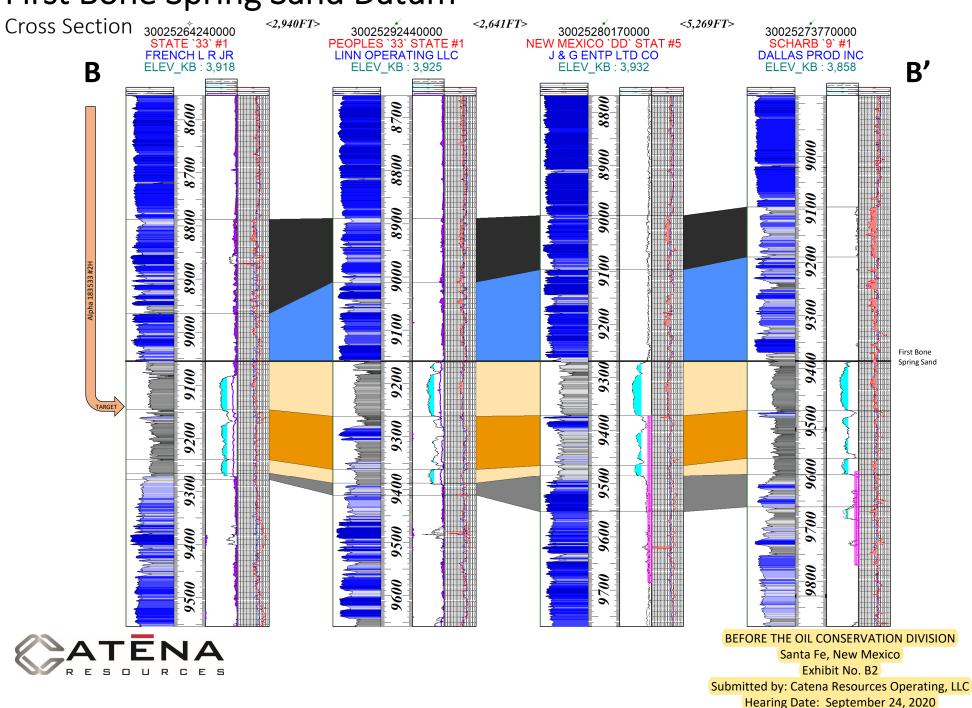
First Bone Spring Sand

Subsea Structure



Contour Interval = 25'

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B1 Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354



First Bone Spring Sand Datum

Case No. 21354

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NO. 21354

AFFIDAVIT

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

Kaitlyn A. Luck, attorney in fact and authorized representative of Catena Resources Operating, LLC the Applicant herein, being first duly sworn, upon oath, states that the abovereferenced Application has been provided under the notice letters and proof of receipts attached hereto.

Kaitlyn A. Luck

SUBSCRIBED AND SWORN to before me this 22nd day of September, 2020 by Kaitlyn

A. Luck.

Notary Public

OFFICIAL SEAL Carla Garcia NOTARY PUBLIC - STATE OF NEW MEXICO My Commission Expires:

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. C Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354

My Commission Expires:

Nov. 12, 2023



Michael H. Feldewert Phone (505) 988-4421 Fax (505) 983-6043 mfeldewert@hollanhart.com

July 17, 2020

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

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Application of Catena Resources Operating, LLC for Compulsory Pooling, Lea County, New Mexico. Alpha 183533 2H Well

Ladies & Gentlemen:

This letter is to advise you that COG Operating Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on August 6, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. 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.

During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the Oil Conservation Division "OCD Hearings" website at <u>http://www.emnrd.state.nm.us/OCD/announcements.html</u>.

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 Robert Swann at (210) 775-6993 or at rswann@catenares.com.

Sincerely,

Michael H. Feldewert ATTORNEY FOR CATENA RESOURCES OPERATING, LLC

Catena - Alpha 1H-2H Case No. 21354 - Postal Delivery Report

						Your item was delivered
						at Jul 22 in HOUSTON,TX
9414811898765825959704	Marathon Oil Permian LLC	P.O. Box 2069	Houston	ТΧ	77252	77210.
						Reminder to Schedule
						Redelivery of your item at
9414811898765825959797	Loy G. Fletcher	P.O. Box 852	Artesia	NM	88211	Jul 24 in , .
						In Transit, Arriving Late at
9414811898765825959742	Exxon Corporation	5959 Las Colinas Blvd	Irving	ТΧ	75039	Jul 26 in , .
						Your item was delivered
						at Jul 21 in HOUSTON,TX
9414811898765825959780	Linn Energy Holdings, LLC	600 Travis Street, Suite 5100	Houston	ТΧ	77002	77002.
						Awaiting Delivery Scan at
9414811898765825959735	Maynard Oil Company	8080 N. Central Expressway, Suite 660	Dallas	ТΧ	75206	Jul 23 in , .

Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

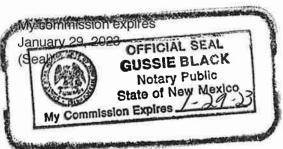
> Beginning with the issue dated July 21, 2020 and ending with the issue dated July 21, 2020.

Publisher

Sworn and subscribed to before me this 21st day of July 2020.

3Carle

Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE July 21, 2020

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 public hearings before a hearing examiner on the following case. During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and Division hearings will be conducted remotely. The remote electronic public hearing will be conducted remotely on the following case. The hearing will be conducted on **Thursday, August 6, 2020, beginning at 8:15** a.m. To participate in the electronic hearing, see the instructions posted below. The docket may be viewed at http://www.emnrd.state.nm.us/OCD/hearings.html or obtained from Marlene Salvidrez, at Marlene.Salvidrez@state.nm.us. Documents filed in the case may be viewed at http://ocdimage.emnrd.state.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 a hearing, contact Marlene Salvidrez at Marlene.Salvidrez@state.nm.us, or the New Mexico Relay Network at 1-800-659-1779, no later than Monday, July 27, 2020.

Persons may view and participate in the hearings through the following link and as indicated below:

Meeting number: 968 329 152 Password: YQe6KZBe3n6 https://nmemnrd.webex.com/nmemnrd/j.php?MTID=mb3ddb90721ccc1720770 9b8c71dc2ac1

Join by video system Dial 968329152@nmemnrd.webex.com You can also dial 173.243.2.68 and enter your meeting number.

Join by phone +1-408-418-9388 United States Toll Access code: 968 329 152

> 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: Marathon Oil Permian LLC; Loy G. Fletcher, his heirs and devisees; Exxon Corporation; Linn Energy Holdings, LLC; Maynard Oil Company; and Paul Butts, Jr., his heirs and devisees.

Case No. 21354: Application of Catena Resources Operating, LLC for compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interests in the Bone Spring formation underlying a standard 480-acre, more or less, horizontal spacing unit comprised of the SW/4 of Section 33, Township 18 South, Range 35 East, and the W/2 of Section 4, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico. Said horizontal spacing unit is to be initially dedicated to the proposed Alpha 183533 2H Well to be horizontally drilled from a surface location in the NE/4 SW/4 (Unit K) of Section 33 to a bottom hole location in the SW/4 SW/4 (Unit K) of Section 33 to a bottom hole location in the SW/4 SW/4 (Unit K) of Section 33 to a bottom hole location in the SW/4 SW/4 (Unit K) of Section 33 to a bottom hole location in the SW/4 SW/4 (Unit K) of Section 4 to include this offsetting acreage in a standard horizontal well spacing unit. Also, to be considered will be the cost of drilling and completing the well and the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator of the well and the proposed horizontal spacing unit, and a 200% charge for risk involved in drilling said well. Said area is located approximately 20 miles West of Hobbs, New Mexico.

#35661

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HOLLAND & HART LLC PO BOX 2208 SANTA FE,, NM 87504-2208

BEFORE THE OIL CONSERVATION DIVISION 08 Santa Fe, New Mexico Exhibit No. D

Submitted by: Catena Resources Operating, LLC Hearing Date: September 24, 2020 Case No. 21354