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

CASE NO. 22631

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Compulsory Pooling Checklist for Case No. 22631

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## COMPULSORY POOLING APPLICATION CHECKLIST

#### ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case No.:	22631
Hearing Date:	5/5/2021
Applicant	Catena Resources Operating, LLC
Designated Operator & OGRID	328449
Applicant's Counsel	Hinkle Shanor LLP
Case Title	Application of Catena Resources Operating, LLC for Compulsory
	Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors	COG Operating LLC
Well Family	Rocky E2W2 05 08 W1
Formation/Pool	
Formation Name(s) or Vertical Extent	Scharb; Wolfcamp (55640)
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Scharb; Wolfcamp (55640)
Pool Name and Pool Code	Scharb; Wolfcamp (55640)
Well Location Setback Rules	Standard
Spacing Unit Size	320
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	320
Building Blocks	quarter
Orientation	North/South
Description: TRS/County	E2W2 of Sections 5 and 8, Township 19 South, Range 35 East, Lea
	County, NM
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	No
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	Rocly E2W2 05 08 W1 1H (API # pending)
	SHL: 300' FSL & 1650' FWL, Unit N, Section 32, T18S-R35E
	BHL: 100' FSL & 2260' FWL, Unit N, Section 8, T19S-R35E
	Completion Target: Wolfcamp (Approx. 10,870' TVD)
	Well Orientation: South to North
Horizontal Well First and Last Take Points	Exhibit A-2
Completion Target (Formation, TVD and MD)	Exhibit A-2
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,500.00
Production Supervision/Month \$	\$850.00
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A-1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C-3
Ownership Determination	
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Tract List (including lease numbers & owners)Exhibit A-3Pooled Parties (including ownership type)Exhibit A-3Unlocatable Parties to be PooledNoneOwnership Depth Severance (including percentage above & below)NoneJoinderExhibit A-4Sample Copy of Proposal LetterExhibit A-4List of Interest Owners (ie Exhibit A of JOA)Exhibit A-3Chronology of Contact with Non-Joined Working InterestsExhibit A-3Overhead Rates In Proposal LetterN/ACost Estimate to Equip WellExhibit A-4Cost Estimate for Production FacilitiesExhibit A-4GeologySampary (including special considerations)Spacing Unit SchematicExhibit BSpacing Unit SchematicExhibit B-5Gross IsopachExhibit B-6Well Orientation (with rationale)Exhibit B-1Target FormationExhibit B-4Bourges SectionN/AForms, Figures and TablesExhibit B-2Cotour MapExhibit A-3Summary of Interests, Unit Recapitulation (Tracts)Exhibit A-3Summary of Interests, Unit Recapitulation (Tracts)Exhibit B-3Gross Section MapExhibit B-3Section MapExhibit B-3Cross Section Including basin)Exhibit B-3Cross Section Including basin)Exhibit B-3Cross Section Map (including wells)Exhibit B-3Cross Section Map (including wells)Exhibit B-3Cross Section Including Landing Zone)Exhibit B-3Cross Section Including Landing Zone)Exhib	<u>Received by OCD: 5/3/2022 10:14:14 AM</u>	Page 3 of 29
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Signed Name (Attorney or Party Representative): /s/ Dana S. Hardy	provided in this checklist is complete and accurate.	
	Printed Name (Attorney or Party Representative):	Dana S. Hardy
Date: 5/3/2022	Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy
	Date:	5/3/2022

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

CASE NO. 22631

#### SELF-AFFIRMED STATEMENT OF CATO CLARK

1. I am the Vice President of Land at Catena Resources Operating, LLC ("Catena") and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division ("Division") and my credentials as an expert in petroleum land matters were accepted and made a matter of record.

2. I am familiar with the land matters involved in the above-referenced case. Copies of the application and hearing notice are attached hereto as **Exhibit A-1**.

3. None of the parties proposed to be pooled in this case indicated opposition to this matter proceeding by affidavit, therefore I do not expect any opposition at hearing.

4. Catena seeks an order pooling all uncommitted mineral interests in the Wolfcamp formation in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2 W/2 of Section 5, Township 19 South, Range 35 East and the E/2 W/2 of Section 8, Township 19 South, Range 35 East, Lea County, New Mexico.

5. The Unit will be dedicated to the **Rocky E2W2 05 08 W1 1H** well ("Well"), which will be horizontally drilled from a surface location in the SE/4 SW/4 (Unit N) of Section 32 to a bottom hole location in the SE/4 SW/4 (Unit N) of Section 8.

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6. The completed interval of the Well will be orthodox.

Catena Resources Operating, LLC Case No. 22631 Exhibit A 7. The Well is located in the Scharb; Wolfcamp (Pool Code 55640).

8. With respect to well setback requirements, this pool is subject to the statewide horizontal well rules set out in NMAC 19.15.16.15.

9. **Exhibit A-2** contains the C-102 for the Well.

10. **Exhibit A-3** contains a plat identifying ownership by tract in the Unit. This exhibit also includes any applicable lease numbers, a unit recapitulation, and the interests Catena seeks to pool.

11. **Exhibit A-4** contains a sample well proposal letter and AFE sent to working interest owners for the Well. The estimated costs reflected on the AFE are fair and reasonable and comparable to the cost of other wells of similar depth and length drilled in the subject formation in the area.

12. Catena has conducted a diligent search of all public records in Lea County, including phone directories and computer databases.

13. All interest owners Catena seeks to pool are locatable.

14. In my opinion, Catena made a good-faith effort to reach voluntary joinder of uncommitted interests in the Well as indicated by the chronology of contact described in **Exhibit A-5**.

15. Catena requests overhead and administrative rates of \$8,000 per month while the Well is being drilled and \$800 per month while the Well is producing. These rates are fair and are comparable to the rates charged by Catena and other operators in the vicinity.

16. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.

2

17. In my opinion, the granting of Catena's application will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

18. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 17 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Cato Clark

4-26-22

Date

Received by OCD: 3/4/2022 4:25:00 PM

Page 1 of 2

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

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

Case No. 22631

#### APPLICATION

Pursuant to NMSA § 70-2-17, Catena Resources Operating, LLC ("Applicant") applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2 W/2 of Section 5, Township 19 South, Range 35 East and the E/2 W/2 of Section 8, Township 19 South, Range 35 East, Lea County, New Mexico. In support of its application, Applicant states:

1. Applicant (OGRID No. 328449) is a working interest owner in the Unit and has the right to drill wells thereon.

2. The Unit will be dedicated to the **Rocky E2W2 05 08 W1 1H** well ("Well"), which will be horizontally drilled from a surface location in the SE/4 SW/4 (Unit N) of Section 32 to a bottom hole location in the SE/4 SW/4 (Unit N) of Section 8.

3. The completed interval of the Well will be orthodox.

4. Applicant has undertaken diligent, good-faith efforts to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the Well but has been unable to obtain voluntary agreements from all of the mineral interest owners.

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

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6. In order to allow Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted mineral interests in the Unit should be pooled and Applicant should be designated the operator of the Well and Unit.

WHEREFORE, Applicant requests this application be set for hearing on April 7, 2022 and that, after notice and hearing, the Division enter an order:

- A. Pooling all uncommitted interests in the Unit;
- B. Approving the Well in the Unit;
- C. Designating Applicant as operator of the Unit and the Well to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping and completing the Well;
- E. 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
- F. Imposing a 200% penalty 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,

HINKLE SHANOR LLP

<u>/s/ Dana S. Hardy</u> Dana S. Hardy Michael Rodriguez Jaclyn M. McLean P.O. Box 2068 Santa Fe, NM 87504-2068 Phone: (505) 982-4554 Facsimile: (505) 982-8623 dhardy@hinklelawfirm.com mrodriguez@hinklelawfirm.com jmclean@hinklelawfirm.com *Counsel for Catena Resources Operating, LLC*  iii

Application of Catena Resources Operating, LLC for Compulsory Pooling, Lea County, New Mexico. Applicant applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Section 5, Township 19 South, Range 35 East and the E/2W/2 of Section 8, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Rocky E2W2 05 08 W1 1H well ("Well"), which will be horizontally drilled from a surface location in the SE/4 SW/4 (Unit N) of Section 32 to a bottom hole location in the SE/4 SW/4 (Unit N) of Section 6 Applicant as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately 20 miles West of Hobbs, New Mexico.

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District JV 1220 S. t. 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

		W	ELL LC	CATIO	N AND ACR	EAGE DEDIC	CATION PLA	Т		
1	API Number	r	<sup>2</sup> Pool Code <sup>3</sup> Pool Name							
	55640 Scharb: Wolfcamp									
<sup>1</sup> Property	Code				<sup>5</sup> Property 1	Name			6	Well Number
		Rocky E2W2 05 08 W1 State Com							1H	
<sup>7</sup> OGRID	No.				<sup>8</sup> Operator	Name				<sup>9</sup> Elevation
328449		Catena Resources Operating, LLC								
	• Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County

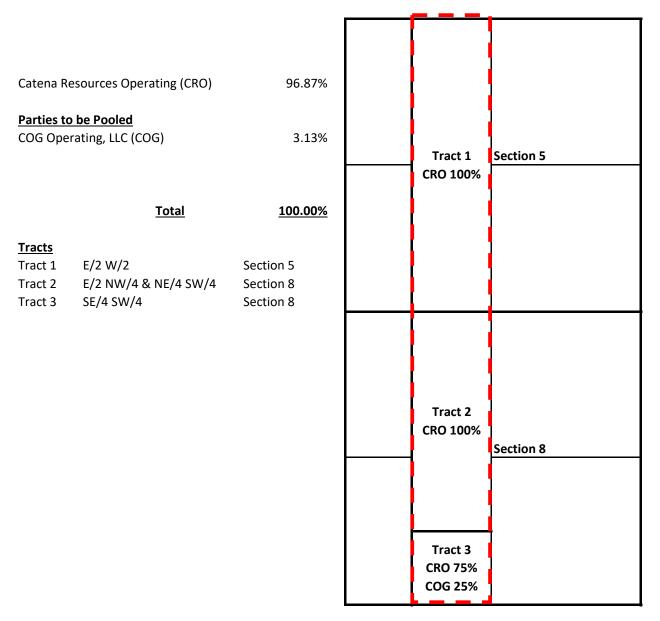
N	32	18-S	35-E	С	300 South 1650		West	LEA	
			ч Вc	ttom Ho	le Location If	Different Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot ldn	In Feet from the North/South line Feet from the East/West line				
N	8	19-S	35-E	Ν	100	South	2260	West	LEA
<sup>12</sup> Dedicated Acre	9 <sup>13</sup> Joint	or Infill 14	Consolidation	n Code			<sup>15</sup> Order No.		
320									

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. O S.L. 1650' FWL – 300' FSL SEC 32 T18S R35E

<sup>16</sup> FTP 2260 FWL 100 FVL	<sup>17</sup> OPERATOR CERTIFICATION
← → 0	I hereby certify that the information contained herein is true and complete
t i i	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
t I	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 and pool of of one entered by the division.
1	Y-28-22
1	Signature Date
	Cato Clark, VP Land
i i	Printed Name
	clark@catenares.com
Section 5 T18S R35E	E-mail Address
Section 8 T18S R35E	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.
5	Date of Survey
	Signature and Seal of Professional Surveyor:
· · · · · · · · · · · · · · · · · · ·	
BHL 2260 FWL	
<> O	Certificate Number

Released to Imaging: 5/3/2022 11:15:35 AM

### EXHIBIT A-3 Rocky E2W2 05 08 W1 1H Proposed Wolfcamp Spacing Unit Lea County, New Mexico E2W2 Section 5 & 8 - T19S - R35E



Catena Resources Operating, LLC Case No. 22631 Exhibit A-3



1/10/2021

Via Certified Mail: 9314869904300090082829

ConocoPhillips Attn: Baylor Mitchell 600 W. Illinois Ave. Midland, TX 79701

RE: Rocky E2W2 05 08 W1 1H E/2 W/2 Section 5 T19S R35E, E/2 W/2 Section 8 T19S R35E Lea County, NM

Dear Working Interest Owner,

Catena Resources Operating, LLC ("Catena") as Operator hereby proposes to drill and operate the captioned horizontal well, as further described in the enclosed AFE, (hereinafter, the "Well"):

Well Name	SHL	BHL	Target Formation	Proposed TVD	Proposed TMD
Rocky E2W2 05 08 W1 1H	300' FSL, 1650' FWL, 32-19S-35E	100' FSL,2260' FWL, 8-19S-35E	Wolfcamp A	10,870'	22,000'

The Estimated Well Costs for the Well are \$8,694,255.00.

As an alternative to your participation, Catena proposes to acquire your interest via term assignment, subject to due diligence and title verification satisfactory to Catena, should you so elect.

In any event, Catena respectfully requests you (i) indicate your election by initialing next to one of the three (3) options on the following page, (ii) execute one copy of this letter, and (iii) in the event you elect to participate in the drilling and completion of the Well, execute one copy of the enclosed AFE, and return scans of all of same to the undersigned at the email address reflected below within 30 days of your receipt hereof. In the event of your participation, Catena will furnish a proposed joint operating agreement upon request.

Should you have any questions regarding the foregoing, please feel free to contact the undersigned at any of the points indicated below.

Best regards.

Cato Clark, CPL Vice President, Land Catena Resources Operating, LLC 1001 Fannin Street, 22<sup>nd</sup> Floor Houston, TX 77002 Direct: 346.200.7894 <u>Clark@catenares.com</u>.

1001 Fannin St. 22<sup>nd</sup> Floor Houston, TX 77002



713-429-5229 www.catenares.com info@catenares.com

Catena Resources Operating, LLC Case No. 22631 Exhibit A-4

BY ITS INITIALS & EXECUTION IN THE SPACE PROVIDED BELOW, THE UNDERSIGNED:
CONSENTS TO PARTICIPATE TO THE FULL EXTENT OF ITS INTEREST IN THE PROPOSED OPERATION(S) AND BEAR ITS PROPORTIONATE SHARE OF ALL COSTS AND EXPENSES ASSOCIATED THEREWITH
OR
DOES NOT CONSENT TO PARTICIPATE IN THE PROPOSED OPERATION(S)
OR
REQUESTS CATENA DELIVER A TERM ASSIGNMENT FOR REVIEW AND EXECUTION
ConocoPhillips
Ву:
Title:

Date: \_\_\_\_\_

1001 Fannin St. 22<sup>nd</sup> Floor Houston, TX 77002



713-429-5229 www.catenares.com info@catenares.com

		WEL	L COST ESTIMATE					AFE NO. P2115B
ATENA	WELL NAME: FIELD NAME:		E2W2 05 08 W1 1H		DATE: START DATE:		1/7/2022	721130
RESOURCES	LOCATION: COUNTY / ST: DBJECTIVE: Dril 10,000' lateral, Facility	L	on 32-T18S-R35E ea County, NM 51 stages and POL with ES	P and Building	COMPLETE DATE: ORIGINAL: SUPPLEMENT:			
INTANGELE COST	5	ACCT	DRELLING	ACCT CODE	COMPLETION	ACCT	FACILITIES	TOTAL
gal Fees & Title Opinions irvey/Staking/Permits/Bonds		9250 9251	\$100,000	9400 9401	\$10,000	9501 9502		\$100.
w / Surface Damages c Rerv Pit Construction		9252	\$25.000	9402	1	9512		\$25
& Loc Rsrv Pit Reclamation		9253 9254	\$100,000	9403 9404		9510		\$100,
ec Pond		9255		9405	\$25,000			\$25
ite Guard buse/Rethole/Conductor		9256 9257	\$25.000	9406	1			\$25
obilization / Demobilization		9258	\$135,000	9407				\$135
illing - Daywork illing - Footage		9259 9260	\$600,000					\$600
rilling - Turnkey		9261						
empletion/ Snubbing / Wo Unit		9282		9408	\$20,000			\$20
aller House / Communications NN Bits		9263 9264	\$15,000	9409 9410				\$15 \$60
irectional Equip/Gyro Surveys		9265	\$250,000	9411				\$250
ownhole Tool / Stabil Rental ud / Chemicals		9266 9287	\$35,000	9412 9413	\$65,000			\$100
uel / Power		9268	\$150.000	9414	\$40,692			\$190
lster Supply Well Equipment later / Water Hauling		9269 9270		9415 9416	8469 390			
fisite Water/Cutting Disposal		9271	\$60.000	9417	\$468.286 \$45,000			\$468
ansportation / Hauling		9272	\$40,000	9418		9509		\$40
spection/Tubular Testing aydown Machine/Cest Crew/Tong		9273 9274	\$25,000 \$25,000	9419 9420				\$25
ement Float Equip & Services		9275	\$150,000	9421				\$150
ud Logging ogging - Open Hole		9276 9277	\$40,000	9422				\$40 #VA
ogging - Cased Hole		9278		9423				EVA
oring/Analysis Drill Stem Tst		9279						
erforating fireline / Stickline Services		9280 9281		9424 9425	\$285.500			\$28
quipment Rental		9282	\$160.000	9426	\$223,980	9511		\$383
umping Services / Rental cidizing & Fracturing		9283 9284		9427 9428	\$57,500			\$57
oil Tubing Unit		9265		9429	\$412,500			\$412
low Testing Swabbing ishing/Sidetrack Services		9286 9287		9430 9431	\$73.038			\$73
ipple Up / Bope Testing		9288	\$20,000	9432				\$20
verhead	1	9289		9433				
lelisite Consult Serv/Supervis ng/Geo/Lab Trace Diagnostics		9290 9291	\$105.000	9434 9435	\$93,557	9603 9515	-	\$198
oustabout / Contract Labor		9292	\$120,000	9438	\$20,000	9504		\$140
Helding Services		9293 9294	\$15,000	9437				\$15
Iscellaneous		9294	-	9438 9439	\$100,000	9505 9506		\$100
LA Costs		9296		9440				
afety / Eh&S ontingency		9297 9298		9441 9442	\$133.202	9507 9514		\$133
on-Op Drilling Intangible		9299		9443	\$133,202	9513		\$133
ipeline Install Interconnect		9300		9444		9508		
acility Installation					175,000			\$175
					175,000			
BD					175,000			
80 80					175,000			
BD								
80 80 80 80								
BD BD BD Total Wtangible C			\$2,515,000		\$4,753,255		\$0	\$7.268
BD BD BD TOTAL WTANGIBLE C TANGIBLE COSTS		ACCT	2	ACCT CODE		ACCT	50 FACRUTIES	
BD BD BD Total Wtangible C		ACCT 9350	2	ACCT CODE	\$4,753,255	ACCT		\$7.268
BD BD BD TOTAL WTANGIBLE C TANGIBLE COSTS Size			DR&LING \$112,000	ACCT CODE	\$4,753,255	ACCT		\$7.268 TOTAL
BD BD BD BD UTAL INTANGIBLE COSTS onductor urface Casing & 13-3/8" & Intermediate Casing / Liner	Feet S/Ft	9350 9351 9352	DRILLING	ACCT CODE	\$4,753,255	ACCT		\$7.268 TOTAL \$112
BD BD BD BD BD COTAL WITANGIBLE CO TANGIBLE COSTS onductor urface Casing tal Intermediate Casing / Liner d Intermediate Casing / Liner	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351	DRILLING \$112,000 \$156,000	ACCT CODE	\$4,753,255	ACCT		\$7.268 TOTAL \$112 \$156
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TOTAL WTANGIBLE C SO SO SO SO SO SO SO SO SO SO	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352	DRILLING \$112,000 \$156,000	9451 9452 9453	S4,753,255	ACCT		\$7.268 TOTAL \$112 \$156 \$462
AD AD AD AD AD AD AD AD AD AD	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352 9353	DRILLING \$112,000 \$156.000 \$482,000 \$482,000 \$482,000	9451 9452 9453 9454 9455	\$4,753,255	ACCT		\$7.268 TOTAL \$112 \$156 \$462 \$60
3D       and       and intermediate Casing / Liner       shing The Back       ner Hanger Assembly       ubing       asing Tie Back       intermediate Casing / Liner       5-1/2'       shing Equipment - OHMS / Etc.       foilhead Equipment	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352	DRILLING \$112,000 \$156,000 \$482,000	9451 9452 9453 9454 9455 9456	S4,753,255			\$7.268 TOTAL \$112 \$155 \$462 \$462 \$462 \$463
SID         TOTAL INTANGIBLE C         TANGIBLE COSTS         Size         onductor         Size         onductor         Size         onductor         di Intermediate Casing / Liner         oduction Casing / Liner	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352 9353	DRILLING \$112,000 \$156.000 \$482,000 \$482,000 \$482,000	9451 9452 9453 9454 9455	S4,753,255	ACCT 9521 9522		\$7.268 TOTAL \$112 \$155 \$462 \$462 \$462 \$463
3D 3D 3D 3D 3D 3D 3D 3D 3D 3D	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352 9353	DRILLING \$112,000 \$156.000 \$482,000 \$482,000 \$482,000	9451 9452 9453 9454 9455 9456 9456 9458 9458	S4,753,255	9521 9522 8523		\$7.268 TOTAL \$112 \$155 \$462 \$462 \$462 \$50 \$15 \$55
3D         asing time diate Casing / Liner         sing Tim Back         neer Hanger Assembly         ubing         asing Equipment - OHMS / Etc.         follhead Equipment         ods / Pony Rods / Sinker Bars         riticial Lift Other - ESP         elihead Equipment completions - Production Tree	Feet §/Ft 2,000 \$556.00 4,000 \$ 39.00	9350 9351 9352 9353	DRILLING \$112,000 \$156.000 \$482,000 \$482,000 \$482,000	9451 9452 9453 9454 9455 9456 9456 9458	\$4,753,255 COMPLETION \$60.000	9521 9522		\$7.268 TOTAL \$112 \$155 \$462 \$462 \$50 \$55
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#### Exhibit A-5

#### Catena Resources Operating, LLC – Rocky E2W2 05 08 W1 State Com 1H Discussion Timeline

#### COG Operating, LLC

Catena Resources Operating, LLC sent original well proposals on January 10, 2022. At such time, Catena and COG Operating, LLC were already engaged in discussions regarding the proposed well. Catena and COG Operating, LLC are in ongoing discussions on the well proposal.

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

**CASE NO. 22631** 

#### SELF-AFFIRMED STATEMENT OF CATHERINE HENRY

1. I am a geologist at Catena Resources Operating, LLC ("Catena") and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have not previously testified before the New Mexico Oil Conservation Division ("Division").

2. I have a MS in Geology and 5 years of experience in the petroleum industry. My experience has focused on well planning, well log analysis, resource development, resource mapping, and resource evaluation for horizontal development programs primarily in the Delaware, Permian, and Williston Basins. A copy of my resume is attached as **Exhibit B-1**.

3. I am familiar with the geological matters that pertain to the above-referenced case.

4. **Exhibit B-2** is a project location map that shows the location of the proposed horizontal well spacing unit.

5. Catena is targeting the Wolfcamp formation. **Exhibit B-3** is a subsea structure map that I prepared for this interval with 100-foot contours. The proposed horizontal well spacing unit is highlighted in red and the initial well is depicted with a green dashed line. Existing producing wells in the Wolfcamp formation are represented by solid orange lines. The structure map shows the Wolfcamp formation dipping to the South. The structure appears consistent across the proposed

> Catena Resources Operating, LLC Case No. 22631 Exhibit B

1

spacing unit and I do not observe any faulting, pinch outs, or other geologic impediments to drilling horizontal wells in this area.

6. **Exhibit B-3** also shows a cross-section line in dashed red running North to South reflecting three wells penetrating the Wolfcamp 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.

7. **Exhibit B-4** is a stratigraphic cross-section that I prepared using the logs from the three wells noted on Exhibit B-3. Each well in the cross-section contains the gamma ray in the first track, and resistivity in the second track. The initial target interval is labeled and marked. The cross-section demonstrates that the targeted interval is continuous across the proposed spacing unit.

8. **Exhibit B-5** is a Gross Isopach map of the Wolfcamp formation. The proposed horizontal well spacing unit is highlighted in red and the initial well is depicted with a green dashed line. Existing producing wells in the Wolfcamp formation are represented by solid orange lines. The anticipated gross thickness of the Wolfcamp formation interval is 500 to 600 ft. The gross isopach map demonstrates that the Wolfcamp formation is present across the proposed spacing unit. The location of the previous cross-section from A-A' in Exhibit B-4 is also shown as a dashed red line on this map.

9. In my opinion 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.

2

10. Based on my geologic study, the Wolfcamp 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.

11. In my opinion, the granting of Catena's application will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

12. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.

13. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm my testimony in paragraphs 1 through 12 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date identified next to my signature below.

Catherine Henry

<u>427</u>2022 Date

#### Exhibit B-1 Catherine Elizabeth Henry

5+ year petroleum industry career, conventionally and unconventionally trained geologist with experience working in with both upstream and midstream businesses.

#### PROFESSIONAL EXPERIENCE

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#### PERCUSSION PETROLEUM II, LLC & CATENA RESOURCES OPERATING, LLC – Houston, TX Geologist II

- Responsible for providing geological support for horizontal drilling program
- Utilizing subsurface technical analysis to plan pad locations and development pattern well layouts for multi-bench development
- Providing subsurface analysis and guidance on SWD well locations and interval of interest

#### **GULF COAST SEQUESTRATION – Houston, TX**

#### Geologist – Contract

- Collaborated with geoscience team to accomplish near-term business needs. This included collecting and interpreting historic production data from DrillingInfo, maintaining ArcGIS project, and digitizing raster logs in Petra.
- Contributed to and analyzed the permitting process with the EPA, shallow onshore Gulf Coast geology, and the full cycle CCUS process.

#### OASIS PETROLEUM – Houston, TX

Geologist II

- Utilized SWD geologist role to de-risk inventory by identifying drill risk in core acreage areas and assisting with new casing design. This yielded program management accomplishments with significant business impact:
  - Planned and took on geological responsibilities for a 12 well drilling program
  - Successfully managed ideas across different functional groups; implemented new working standard for the organization on drilling operations through over-pressured corridors.
- Portfolio Management: risk ranked core acreage (404k net acres) at the DSU level and assigned cost with each risk tier.
   Resulted in capital inputs for project economics for every DSU to support corporate planning group.

#### Geologist I

- Redesigned saltwater disposal (SWD) geologist role that successfully impacted both upstream and midstream businesses.
  - Developed geologic interpretation of complex fluvial/deltaic Inyan Kara stratigraphy across Williston Basin that significantly impacted well planning and operations.
  - Collaborated with cross-functional team of reservoir and facility engineers to characterize conventional reservoir.
  - Spearheaded successful material balance and decline curve analysis to achieve pore volume of reservoir and tie back to reservoir pressure. Completed analysis of pressure fall-off tests of 10+ wells used to predict EUI of saltwater disposal wells in sand tank.
  - Responsible for scouting new SWD permits; incorporate pipeline/infrastructure and state regulations with new locations; geosteering new SWDs; assisted BD group with third party business opportunities; monitored OBO activity in the basin.
- Operations Geologist (7/2017 7/2018)
  - Drilled 15+ wells to completion while demonstrating ability to stay in target zone in both Bakken and Three Forks formations.
  - Generated structure and isopach maps of target formations; produced geoprogs for permitting.
  - Proactively communicated with drilling/execution team as well as field personnel on geohazards and target changes.
  - Partnered with completions engineers on frac recommendation design; identified geohazards in the area (Lodgepole, Pronghorn thick, offset Mission Canyon production); utilized microseismic data.

#### **CENTERPOINT ENERGY – Houston, TX**

#### Project Lead – Infrastructure Data Specialist

Data Specialist: responsible for locating work orders for natural gas pipeline installation in the Houston area using SAP.
 Duties included validating pipeline attributes in ArcMap and meeting time restraints of the project.

Catena Resources Operating, LLC Case No. 22631 Exhibit B-1

#### 9/2021 - 11/2021

12/2021-Present

#### 2017 - 2021 020 - 3/2021

#### 1/2020 - 3/2021

7/2017 - 1/2020

8/2016 - 7/2017

MBA Candidate, Class of 2023 Texas A&M University Houston, TX

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#### **RELATED EXPERIENCE**

**UNIVERSITY OF MISSISSIPPI- Oxford, MS** Teaching Assistant-Courses: ArcGIS and Introto Geology

#### ENERVEST, LTD. – Houston, TX

#### **Geoscience Intern**

- Completed multiple geologic projects in the Fort Worth Basin, Texas. Results yielded structure maps for the Atoka, Bend, and Marble Falls Formations, net pay maps, and cross-sections.
- Used 2D and 3D seismic profile mapping and well log correlation on IHS Kingdom (SMT) to focus on recompletion opportunities up-hole of the Barnett Shale. Project concluded production to be associated with stratigraphic traps rather than structural, with several legacy wells as recompletion candidates.

#### JURA-SEACH, INC. – Jackson, MS

**Geoscience Intern** 

Completed multiple projects in Little Cedar Creek Field, southwest AL. Project responsibilities included 2D seismic • profile mapping on Kingdom (IHS), well log correlation, core analysis, and building geological structure and stratigraphic cross-sections of the Smackover and Norphlet Formations.

#### **SKILLS & TRAINING**

**Nautilus Training:** 

Software: IHS Kingdom · Petra · ArcGIS · Spotfire · StarSteer · LatNav · DrillingInfo · Adobe Illustrator · Microsoft Office

٠	Practical Subsurface Mapping	•
٠	Formation Evaluation: Principles and Practices	٠

•	Geophysics for Subsurface Professionals

In-housetraining: Reservoir Engineering for Non-Reservoir Engineers	2019
Short Course: ExxonMobil – "Integrated Basin and Play Analysis" (IBA): AAPG/SEG Student Expo	2015
In-house Franklin-Covey trainings: Social Styles & SevenHabits of Highly Effective People	2017; 2018

#### **HONORS, AWARDS & AFFILIATIONS**

Mississippi Geological Society - Boland Scholarship Recipient	2014	4	
Awarded to one student from each institution in Mississippi for har	d work and dedication to the geosciences and community	у.	
Mississippi Academy of Science	2014	1	
Best oral presentation in Geology and Geography division at the Mis	sissippi Academy of Science Annual Meeting.		
Honorable mention in the Millsaps-HHMI Undergraduate Scholars S	ymposium poster presentation.		
Wendell B. Johnson Memorial Award	2013	3	
Awarded to a junior geology major at Millsaps College with an outst	anding record of scholarship, research, and service		
Dudley Hughes Exploration Internship	2012; 2013	3	
Endowment funds internships that focus on oil and gas exploration; funded internship at Jura-Search, Inc.			
American Association of Petroleum Geologists - Member	Saint Cecilia Catholic Church – Parishioner and LifeTeer	า	

**Core Team Volunteer** 

Houston Geological Society – Member

Association for Women Geoscientists - Member

Exhibit B-1

MS in Geology, 2016

Oxford, MS

University of Mississippi

- Low Resistivity Pay Evaluation
- Reservoir Engineering for Non-Reservoir Engineers

Summer 2015; Winter 2014 - 2015

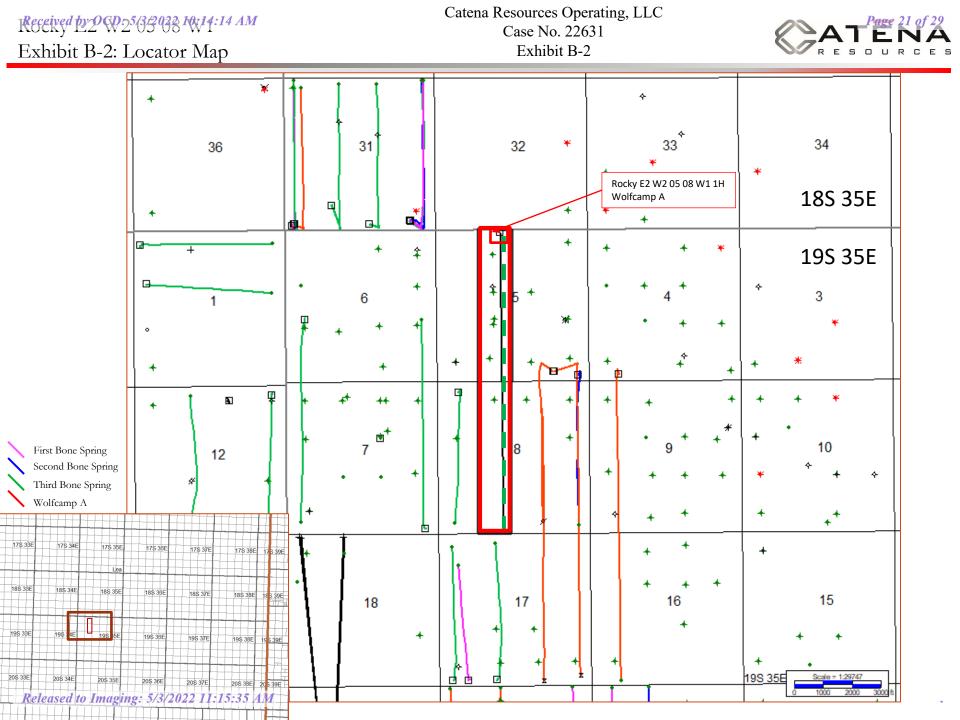
Fall 2012 - Summer 2014

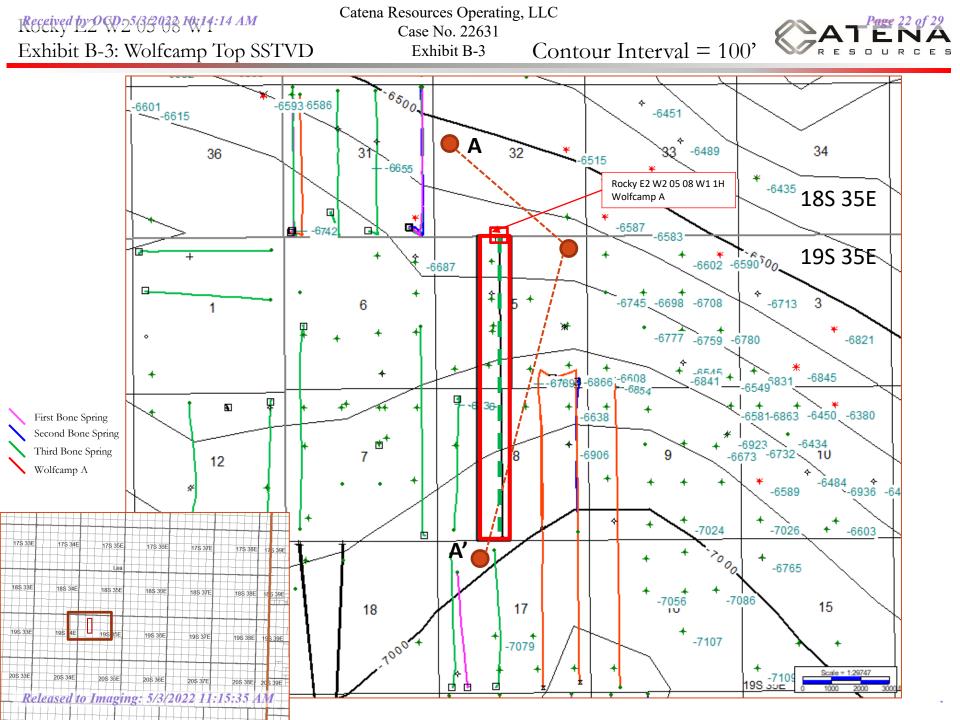
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8/2014 - 5/2016

BS in Geology, 2014 Graduated with Honor Millsaps College, Jackson, MS







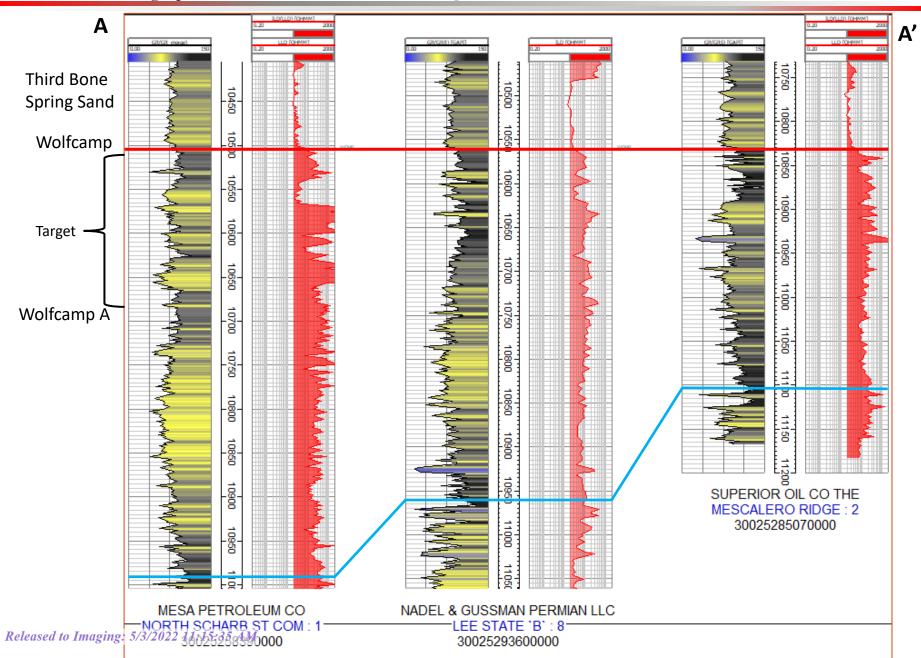
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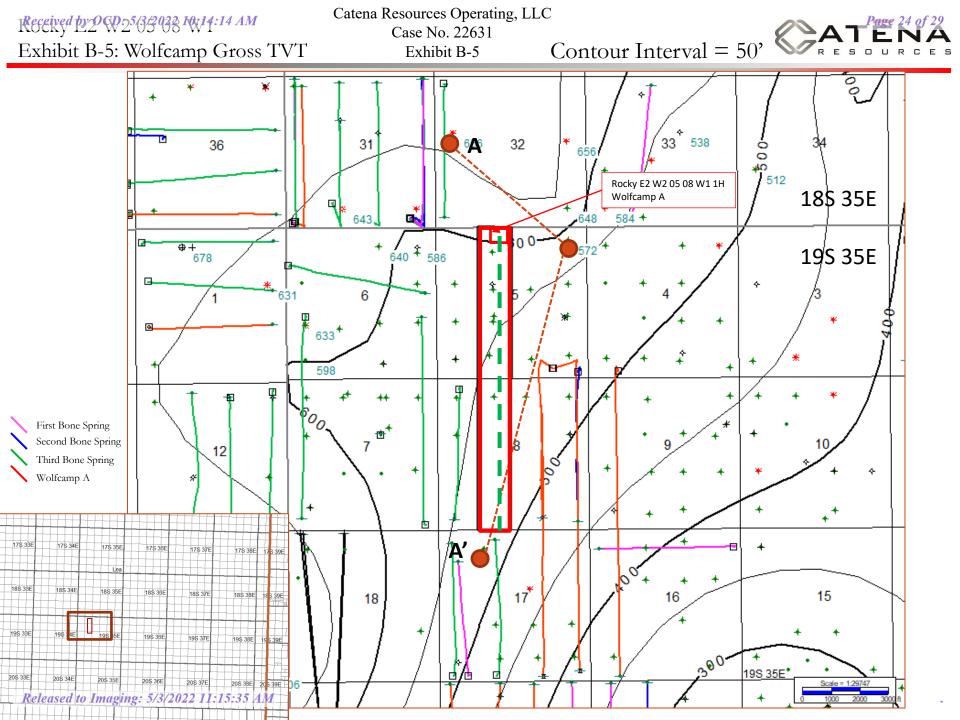
#### Catena Resources Operating, LLC

Case No. 22631 Exhibit B-4



Exhibit B-4: Stratigraphic Cross section A-A' – Wolfcamp Datum





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

CASE NO. 22631

#### SELF-AFFIRMED STATEMENT OF DANA S. HARDY

1. I am the attorney in fact and authorized representative of Catena Resources Operating, LLC, the Applicant herein.

2. I am familiar with the Notice Letter sent to all Interested Parties and attached as **Exhibit C-1**. I caused the Notice Letters to all Interested Parties to be sent to the parties set out in the chart attached as **Exhibit C-2**.

3. The above-referenced Application was provided, along with the Notice Letter, to the recipient listed in Exhibit C-2. Exhibit C-2 also includes the certified mail receipts.

4. On March 13, 2022, I caused a notice to be published to all interested parties in the Carlsbad Current Argus. An Affidavit of Publication from the Legal Clerk of the Carlsbad Current Argus, along with a copy of the notice publication, is attached as **Exhibit C-3**.

5. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 14 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

<u>/s/ Dana S. Hardy</u> Dana S. Hardy <u>May 3, 2022</u> Date

> Catena Resources Operating, LLC Case No. 22631 Exhibit C



HINKLE SHANOR LLP ATTORNEYS AT LAW

PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554 (FAX) 505-982-8623

WRITER:

Dana S. Hardy, Partner dhardy@hinklelawfirm.com

March 9, 2022

#### VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

#### TO ALL INTERESTED PARTIES SUBJECT TO NOTICE

# Re: Case No. 22631 - Application of Catena Resources Operating, LLC for Compulsory Pooling, Lea County, New Mexico.

To whom it may concern:

This letter is to advise you that the enclosed application was filed with the New Mexico Oil Conservation Division. The hearing will be conducted on **April 7**, **2022** beginning at 8:15 a.m.

During the COVID-19 Public 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 OCD Hearings website: <u>https://www.emnrd.nm.gov/ocd/hearing-info/.</u> You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or submitted through the OCD E-Permitting system (https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/) 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.

Please do not hesitate to contact me if you have any questions about this matter.

Sincerely,

/s/ Dana S. Hardy\_\_\_\_\_

Dana S. Hardy

Enclosure

**Released to Imaging: 5/3/2022 11:15:35 AM** 

Catena Resources Operating, LLC Case No. 22631 Exhibit C-1

PO BOX 10 ROSWELL, NEW MEXICO 88202 575-622-6510 (FAX) 575-623-9332 PO BOX 1720 ARTESIA, NEW MEXICO 88210 575-622-6510 (FAX) 575-746-6316 PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554 (FAX) 505-982-8623

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

Case No. 22631

#### NOTICE LETTERS

PARTY	NOTICE LETTER SENT	<b>RETURN RECEIVED</b>
COG Operating, LLC 600 W. Illinois Avenue	03/09/22	03/16/22
Midland, TX 79701		

Catena Resources Operating, LLC Case No. 22631 Exhibit C-2

#### Received by OCD: 5/3/2022 10:14:14 AM



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY	
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> </ul>	A. Signature       □ Agent         X       □ Address         B. Received by (Printed Name)       □ Address         G. Date of Delive       3 · 1 / 2          D. Is delivery address different from Item 1?       □ Yes         If YES, enter delivery address below:       □ No		
COG Operating LLC c/o ConocoPhillips Attn: Reylor Mitchell 600 W.Illinois Ave. Midland, TX 79701	If YES, enter delivery address below:		
9590 9402 5760 0003 2711 22	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery Collect on Delivery Collect on Delivery Restricted Delivery	☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted /Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™	
7021 0950 0002 0365 6910	Insured Mail     Insured Mail Mail     Insured Mail Restricted Delivery     (over \$500)	Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053	[	omestic Return Receipt	

### 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 March 13, 2022 and ending with the issue dated March 13, 2022.

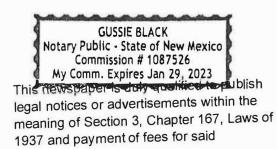
Iblisher

Sworn and subscribed to before me this 13th day of March 2022.

e Black

**Business Manager** 

My commission expires January 29, 2023 (Seal)



02107475

GILBERT HINKLE, SHANOR LLP PO BOX 2068 SANTA FE, NM 87504

00264573

Catena Resources Operating, LLC Case No. 22631 Exhibit C-3

LEGAL NOTICE March 13, 2022

111.21

March 13, 2022 This fSTB notify all interested parties, including COG Operating LLC c/o ConocoPhillips and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Catena Resources Operating, LLC (Case No. 22631). During the GOVID-19 Public Health Emergency, state buildings are Closed to the public and hearings will be conducted remotely. The hearing will be conducted on April 7, 2022, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website for that date: http://www.emnrd.state.nm.us /OCD/hearings.html, Applicant applies for an order Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Section 5, Township 19 South, Range 35 East and the E/2W/2 of Section 8, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Rocky E2W2 05 08 W1 1H well ("Well"), which will be horizontally drilled from a surface location in the SE/4 SW/4 (Unit N) of Section 32 to a bottom hole location in the SE/4 SW/4 (Unit N) of Section 8. Also to be considered will be the cost of drilling and completing the well and the allocation of the cost, the designation of Applicant as the operator of the well, completing the well and the allocation of the cost, the designation of Applicant as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately 20 miles West of Hobbs, New Mexico. #37418