

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

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

CASE NO. 22075

EXHIBIT INDEX

Compulsory Pooling Checklist for Case No. 22075

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COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case No.:	22075
Hearing Date:	5/5/2022
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	Rambo E2W2 08 17 B1
Formation/Pool	
Formation Name(s) or Vertical Extent	Bone Spring
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Bone Spring Formation
Pool Name and Pool Code	Scharb; Bone Springs (55610)
Well Location Setback Rules	Standard
Spacing Unit Size	320
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	320
Building Blocks	quarter-quarter sections
Orientation	North/South
Description: TRS/County	E/2 W/2 of Sections 8 and 17, 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, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Rambo E2W2 08 17 B1 1H (API # pending) SHL: 340' FNL & 2330' FWL, Unit C, Section 8, T19S-R35E BHL: 100' FSL & 2310' FWL, Unit N, Section 17, T19S-R35E Completion Target: Bone Springs (Approx. 9,700' TVD) Well Orientation: North to South
Horizontal Well First and Last Take Points	Exhibit A-2
Completion Target (Formation, TVD and MD)	Exhibit A-4
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-1, C-2

Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C-3
Ownership Determination	
Land Ownership Schematic of Spacing Unit	Exhibit A-3
Tract List (including lease numbers & owners)	Exhibit A-3
Pooled Parties (including ownership type)	Exhibit A-3
Unlocatable Parties to be Pooled	None
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	N/A
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	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-2
Gross Isopach	Exhibit B-5
Well Orientation (with rationale)	Exhibit B
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-4
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-2
Tracts	Exhibit A-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-3
General Location Map (including basin)	Exhibit B-2
Well Bore Location Map	Exhibit B-2
Structure Contour Map - Subsea Depth	Exhibit B-3
Cross Section Location Map (including wells)	Exhibit B-3
Cross Section (including Landing Zone)	Exhibit B-4
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Dana S. Hardy
Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy
Date:	5/3/2022

**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. 22075

**SELF-AFFIRMED STATEMENT
OF CATO CLARK**

1. I am 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 Catena's application and proposed hearing notice are attached 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 Bone Spring formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 8 and 17, Township 19 South, Range 35 East, Lea County, New Mexico.

5. The Unit will be dedicated to the **Rambo E2W2 08-17 B1 1H** well ("Well") which will be horizontally drilled from a surface location in the NE/4NW/4 (Unit C) of Section 8 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 17.

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

7. The Well is located in the Scharb; Bone Spring Pool (Pool Code 55610).

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 \$8,500 per month while the Well is being drilled and \$850 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.

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

4-28-22
Date

**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. _____

APPLICATION

Pursuant to NMSA § 70-2-17, Catena Resources Operating, LLC (“Applicant”) applies for an order pooling all uncommitted mineral interests in the Bone Spring formation in a 320-acre, more or less, standard horizontal spacing unit (“Unit”) comprised of the E/2W/2 of Sections 8 and 17, 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 **Rambo E2W2 08-17 B1 1H** well (“Well”) which will be horizontally drilled from a surface location in the NE/4NW/4 (Unit C) of Section 8 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 17.
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.

Catena Resources Operating, LLC
Case No. 22075
Exhibit A-1

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 August 5, 2021 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

/s/ Dana S. Hardy

Dana S. Hardy

Michael Rodriguez

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

Facsimile: (505) 982-8623

dhardy@hinklelawfirm.com

mrodriguez@hinklelawfirm.com

Counsel for Catena Resources Operating, LLC

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 Bone Spring formation in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 8 and 17, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Rambo E2W2 08-17 B1 1H well ("Well") which will be horizontally drilled from a surface location in the NE/4NW/4 (Unit C) of Section 8 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 17. Also to be considered will be the cost of drilling and completing the wells and the allocation of the cost, the designation of Applicant as the operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells are located approximately 20 miles west of Hobbs, New Mexico.

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 55610	³ Pool Name Scharb; Bone Springs
⁴ Property Code	⁵ Property Name Rambo E2W2 08-17 B1	⁶ Well Number 1H
⁷ OGRID No. 328449	⁸ Operator Name Catena Resources Operating, LLC	⁹ Elevation

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
C	8	19-S	35-E	C	340	North	2330	West	LEA

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
N	17	19-S	35-E	N	100	South	2310	West	LEA

¹² Dedicated Acres 320	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 FTP 2310' FWL 100' FNL SL 2330' FWL 340' FNL Section 8 T19S R35E Section 17 T19S R35E BHL 2310' FWL 100' FSL	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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 before entered by the division.</p> <p> 4-27-22 Signature Date</p> <p>Cato Clark, VP Land Printed Name</p> <p>Clark@Catenares.com E-mail Address</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>

Catena Resources Operating, LLC
Case No. 22075
Exhibit A-2

EXHIBIT A-3
Rambo E2W2 08-17 B1 1H
Proposed Bone Springs Spacing Unit
Lea County, New Mexico
E2W2 Section 8 & 17 - T19S - R35E

Catena Resources Operating (CRO)	46.91%
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Parties to be Pooled

COG Operating LLC (COG)	52.30%
Featherstone Development Corp. (FDC)	0.78%
Debra Kay Primera (Open)	0.01%

<u>Total</u>	<u>100.00%</u>
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Tracts

Tract 1	E/2 NW/4 & NE/4 SW/4	Section 8
Tract 2	SE/4 SW/4	Section 8
Tract 3	NE/4 NW/4	Section 17
Tract 4	SE/4 NW/4	Section 17
Tract 5	NE/4 SW/4	Section 17
Tract 6	SE/4 SW/4	Section 17

	Tract 1 100% CRO	Section 8
	Tract 2 75% CRO 25% COG	
	Tract 3 100% COG	
	Tract 4 COG 93.75% FDC 6.25%	Section 17
	Tract 5 COG 100%	
	Tract 6 COG 99.6% CRO 0.3% Open 0.1%	



May 28,2021

Via Certified Mail

COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701

Re: Rambo E2W2 08-17 B1 1H
340' FNL & 2330' FWL of Sec. 8, 19S-35E
100' FSL & 2310' FWL of Sec. 17, 19S-35E
Sections 8 & 17, 19S-35E
Lea County, New Mexico

Ladies and Gentlemen,

Catena Resources Operating, LLC ("Catena") as Operator hereby proposes to drill the following horizontal well(s):

Rambo E2W2 08-17 B1 1H well located at a surface location of 340' FNL & 2330' FWL of Sec. 8, 19S-35E, and a bottom hole location of 100' FSL & 2310' FWL of Sec. 17, 19S-35E. We anticipate drilling to an approximate total vertical depth of 9,500' and plan to continue drilling horizontally to the South to the proposed bottom hole location at an approximate total measured depth of 20,400'. The Rambo E2W2 08-17 B1 1H will target the Bone Spring formation and the E/2 W/2 of Sec. 8 & the E/2 W/2 of Sec. 17, 19S-35E will be dedicated to the well as the proration unit.

Regarding the above, enclosed for your further handling are our AFE's dated 5/27/2021 for the proposed wells. In the event you elect to participate in the proposed wells, please execute the enclosed AFE's and return to Catena at their mailing address, attn: Chris Canon. We are happy to furnish you with a proposed Joint Operating Agreement upon request, should you be inclined to elect to participate. Please respond within 30 days of receiving this notice.

Should you have any questions regarding the above, please email me at canon@catenares.com or call me at (713) 331-1208.

Sincerely,

Catena Resources Operating, LLC

Chris Canon
Land Manager

919 Milam Street
Suite 2475

Houston, TX 77002

Released to Imaging: 5/3/2022 11:15:55 AM




Catena Resources Operating, LLC
Case No. 22075
Exhibit A-4

713-429-5229

www.catenares.com

info@catenares.com

	WELL COST ESTIMATE					AFE NO.	
	WELL NAME: Rambo E2W2 08-17 B1 1H		DATE: 5/27/2021				
FIELD NAME:				START DATE:			
LOCATION: 2 mile lateral				COMPLETE DATE:			
COUNTY / ST: Lea County, NM				ORIGINAL:			
OBJECTIVE: Bone Spring				SUPPLEMENT:			

INTANGIBLE COSTS	ACCT CODE	DRILLING - 310XX	ACCT CODE	COMPLETION - 320XX	ACCT CODE	FACILITIES - 330XX	TOTAL
Legal Fees / Title Opinion	31001	\$75,000	32001		33001		\$75,000
Surveys / Staking / Permits / Bonds / Regulatory	31002	\$25,000	32002	\$10,000	33002		\$35,000
ROW / Surface Damages	31003		32003		33012		\$0
Roads & Location / Reserve Pit - Construction	31004	\$80,000	32004				\$80,000
Roads & Location / Reserve Pit - Reclamation	31005	\$90,000	32005	\$45,000			\$135,000
Frac Pond	31006		32006	\$100,000			\$100,000
Gate Guard	31007		32007				\$0
Mouse / Rathole / Conductor	31008						\$0
Mobilization / Demobilization	31009	\$150,000	32008				\$150,000
Drilling - Daywork	31010	\$620,000					\$620,000
Drilling - Footage	31011						\$0
Drilling - Turnkey	31012						\$0
Completion / Snubbing / Workover Unit	31013		32009	\$432,500			\$432,500
Trailer House / Communications	31014		32010				\$0
Drill Bits	31015	\$70,000	32011				\$70,000
Directional Equipment / Gyro Surveys	31016	\$280,000	32012				\$280,000
Downhole Tool / Stabilization Rental	31017		32013	\$65,000			\$65,000
Mud / Chemicals	31018	\$310,000	32014				\$310,000
Fuel / Power	31019	\$180,000	32015	\$40,692			\$220,692
Water Supply Well, equipment	31020		32016	\$468,286			\$468,286
Water / Water Hauling	31021		32017				\$0
Offsite Water & Cuttings Disposal	31022		32018				\$0
Transportation / Hauling	31023	\$40,000	32019		33009		\$40,000
Inspection / Tubular Testing	31024		32020	\$20,000			\$20,000
Laydown Machine / Casing Crew / Tongs	31025		32021				\$0
Cementing, Float Equipment & Services	31026	\$120,000	32022				\$120,000
Mud Logging	31027	\$40,000					\$40,000
Logging - Open Hole	31028		32023				\$0
Logging - Cased Hole	31029		32024				\$0
Coring & Analysis, Drill Stem Test	31030						\$0
Perforating	31031		32025	\$285,500			\$285,500
Wireline / Slickline Services	31032		32026				\$0
Equipment Rental	31033	\$200,000	32027	\$183,288			\$383,288
Pumping Services/Rental	31034		32028				\$0
Acidizing & Fracturing	31035		32029	\$2,500,000			\$2,500,000
Coil Tubing Unit	31036		32030				\$0
Flow Testing, Swabbing	31037		32031	\$73,038			\$73,038
Fishing / Sidetrack Services	31038		32032				\$0
Nipple Up / BOPE Testing	31039		32033	\$102,000			\$102,000
Overhead	31040	\$10,000	32034				\$10,000
Wellsite Consulting Services/Supervision	31041	\$110,000	32035	\$89,385	33003		\$199,385
Engineering / Geological / Lab Servic Tracers and diagnostics	31042		32036	\$26,538			\$26,538
Roustabout / Contract Labor	31043	\$120,000	32037	\$20,000	33004	\$200,000	\$340,000
Welding Services	31044		32038				\$0
Insurance	31045	\$10,000	32039		33005		\$10,000
Miscellaneous	31046		32040	\$80,000	33006		\$80,000
P&A Costs	31047		32041				\$0
Safety / EH&S	31048		32042		33007		\$0
3% Contingency	31049		32043	\$135,242			\$135,242
NON-Op Drilling Intangible	31050		32044				\$0
Pipeline Installation / Interconnect	31051		32045		33008		\$0
TOTAL INTANGIBLE COSTS		\$2,530,000		\$4,676,469		\$200,000	\$7,406,469

TANGIBLE COSTS	ACCT CODE	DRILLING - 311XX	ACCT CODE	COMPLETION - 321XX	ACCT CODE	FACILITIES - 331XX	TOTAL
Conductor	31101	\$20,000					\$20,000
Surface Casing	31102	\$70,000					\$70,000
1st Intermediate Casing / Liner	31103	\$130,000					\$130,000
2nd Intermediate Casing / Liner	31104	\$510,000					\$510,000
Production Casing / Liner			32101				\$0
Casing Tie Back			32102				
Liner Hanger Assemblv			32103				
Tubing			32104	\$60,000			\$60,000
Casing Equipment - OHMS / Etc.			32105				\$0
Wellhead Equipment	31105	\$60,000	32106				\$60,000
Pumping Unit / Prime Mover / Base			32107		33101		\$0
Rods / Pony Rods / Sinkers Bars			32108		33102		\$0
Artificial Lift			32109	\$175,000	33103		\$175,000
Wellhead Equipment Completions - Production Tree			32110		33104		\$0
Tanks / Tank Steps / Stairs			32111	\$200,000	33105		\$200,000
Gas Treating / Dehydration Equipment			32112		33106		\$0
Separation Equipment, Heater Treater			32113	\$100,000	33107		\$100,000
Surface Pumps			32114		33108		\$0
Filters			32115		33109		\$0
Buildings			32116		33110		\$0
Interconnect Piping / Manifolds / Headers			32117		33111		\$0
Flowlines / Connections / Valves			32118	\$25,000	33112		\$25,000
Automation / Instruments / Controls / Analyzers			32119	\$50,000	33113		\$50,000
Electrical Equipment / Generators			32120	\$25,000	33114		\$25,000
Compressor & Related Equipment			32121		33115		\$0
Metering Equipment, LACT Unit			32122	\$25,000	33116		\$25,000
Chemical Equipment / Cathodic Protection			32123		33117		\$0
Subsurface Equipment - Packer, Plugs, TAC			32124		33118		\$0
Safety / EH&S Equipment			32125		33119		\$0
NON-OP Drilling Intangible			32126		33120		\$0
Transfer/SWD Pumps & Equipment			32127		33121		
Flare / Combustor			32128		33122		\$0
Miscellaneous	31106	\$50,000	32129	\$106,000	33123		\$156,000
Capillary String			32132				
Contingency Costs	31107		32130		33124		\$0
TOTAL TANGIBLE COSTS		\$840,000		\$766,000		\$0	\$1,606,000
TOTAL WELL COSTS		\$3,370,000		\$5,442,469		\$200,000	\$9,012,469

Prepared by _____

This AFE is 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.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Joint Owner Interest: _____ Amount: _____

Joint Owner Name: _____ Signature: _____

Exhibit A-5

Catena Resources Operating, LLC – Rambo E2W2 08-17 B1 1H Discussion Timeline

COG Operating LLC c/o ConocoPhillips Company

Catena Resources Operating, LLC sent original well proposals on May 28, 2021. At such time, Catena and ConocoPhillips (formerly Concho Oil & Gas) were already engaged in discussions regarding the proposed well. Catena and ConocoPhillips are in ongoing discussions on the well proposal.

Featherstone Development Corp.

Catena Resources Operating, LLC sent original well proposals on November 11, 2021. At such time, Catena and Featherstone were already engaged in discussions regarding the proposed well. Catena and Featherstone are in ongoing discussions on the well proposal.

OPEN - Unleased Mineral Interest Owners

Catena Resources Operating, LLC sent original well proposals on November 11, 2021. After such time, Catena also sent lease offers and has made every effort to initiated communication and lease negotiation with the unleased mineral interest owners which is ongoing.

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. 22075

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 First Bone Spring interval of the Bone Spring formation. **Exhibit B-3** is a subsea structure map that I prepared for this interval with 20-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 First Bone Spring interval are represented by solid orange lines. The structure map shows the Bone Spring dipping to the South. 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.

6. **Exhibit B-3** also shows a cross-section line in dashed brown 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.

7. **Exhibit B-4** is a stratigraphic cross-section that I prepared using the logs from the four wells noted on Exhibit B-3. 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.

8. **Exhibit B-5** is a Gross Isopach map of the First Bone Spring interval. 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 First Bone Spring are represented by solid orange lines. The anticipated gross thickness of the First Bone Spring interval is 225 to 330 ft. The gross isopach map demonstrates that the First Bone Spring interval 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 brown dotted 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.

10. 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.

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


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**PERCUSSION PETROLEUM II, LLC & CATENA RESOURCES OPERATING, LLC – Houston, TX****12/2021-Present****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**9/2021 - 11/2021****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**2017 - 2021****Geologist II****1/2020 - 3/2021**

- 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**7/2017 - 1/2020**

- Redesigned saltwater disposal (SWD) geologist role that successfully impacted both upstream and midstream businesses.
 - Developed geologic interpretation of complex fluvial/deltaic Nyan 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 geopros 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**8/2016 - 7/2017****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. 22075

Exhibit B-1

Exhibit B-1**EDUCATION**

MBA Candidate, Class of 2023 Texas A&M University Houston, TX	MS in Geology, 2016 University of Mississippi Oxford, MS	BS in Geology, 2014 Graduated with Honor Millsaps College, Jackson, MS
--	---	---

RELATED EXPERIENCE

UNIVERSITY OF MISSISSIPPI - Oxford, MS **8/2014 - 5/2016**
Teaching Assistant- Courses: *ArcGIS* and *Intro to Geology*

ENERVEST, LTD. – Houston, TX **Summer 2015; Winter 2014 - 2015**
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 **Fall 2012 - Summer 2014**
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

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

Nautilus Training:

- Practical Subsurface Mapping
- Formation Evaluation: Principles and Practices
- Low Resistivity Pay Evaluation
- Reservoir Engineering for Non-Reservoir Engineers
- Geophysics for Subsurface Professionals

In-house training: 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 & Seven Habits of Highly Effective People **2017; 2018**

HONORS, AWARDS & AFFILIATIONS

Mississippi Geological Society - Boland Scholarship Recipient **2014**
Awarded to one student from each institution in Mississippi for hard work and dedication to the geosciences and community.

Mississippi Academy of Science **2014**
Best oral presentation in Geology and Geography division at the Mississippi Academy of Science Annual Meeting.
Honorable mention in the Millsaps-HHMI Undergraduate Scholars Symposium poster presentation.

Wendell B. Johnson Memorial Award **2013**
Awarded to a junior geology major at Millsaps College with an outstanding record of scholarship, research, and service

Dudley Hughes Exploration Internship **2012; 2013**
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 LifeTeen Core Team Volunteer

Houston Geological Society – Member

Association for Women Geoscientists -Member

Rambo E2W2 08-17 B1 1H

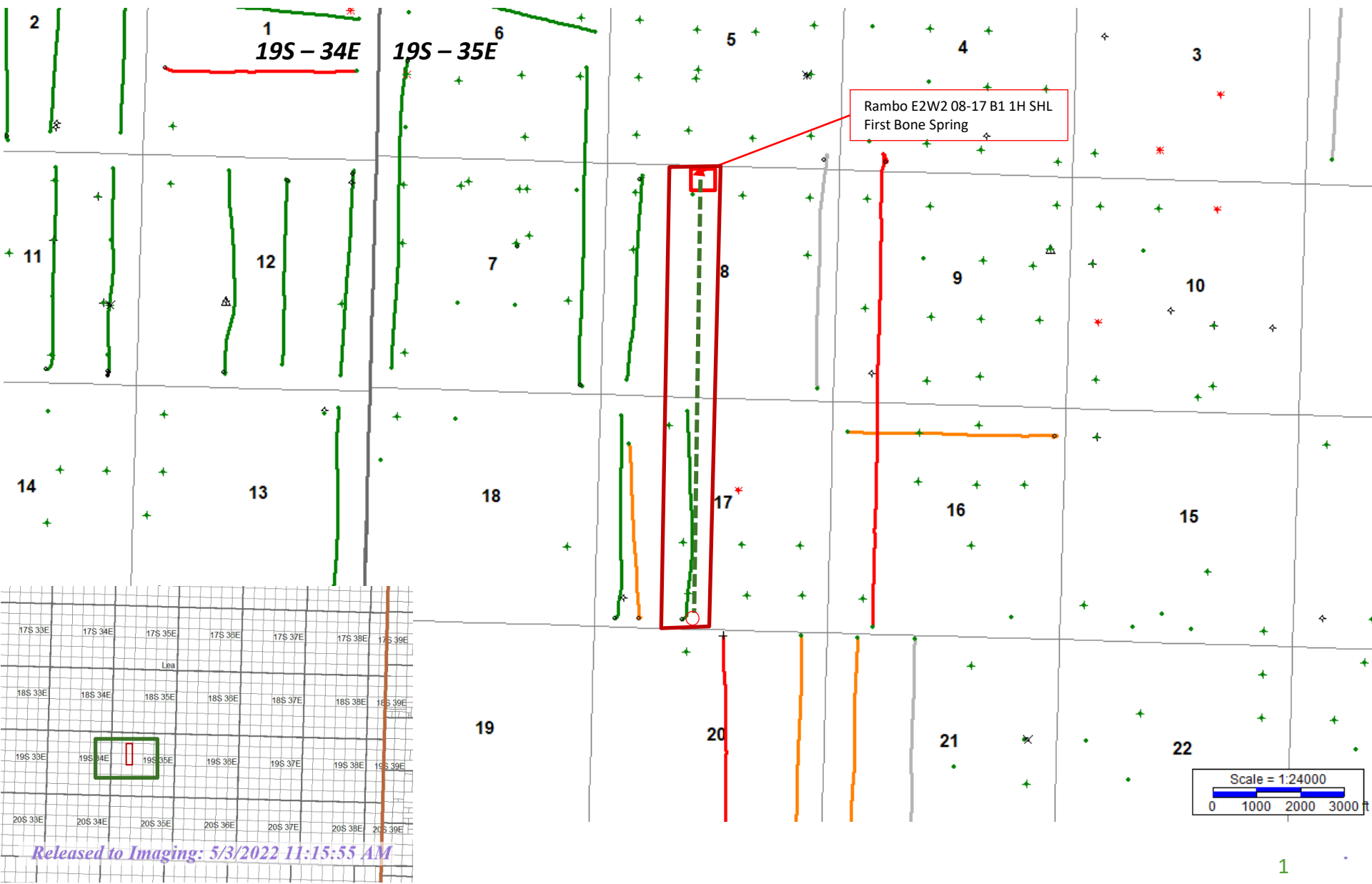
Exhibit B-2: Locator Map

Catena Resources Operating, LLC

Case No. 22075

Exhibit B-2

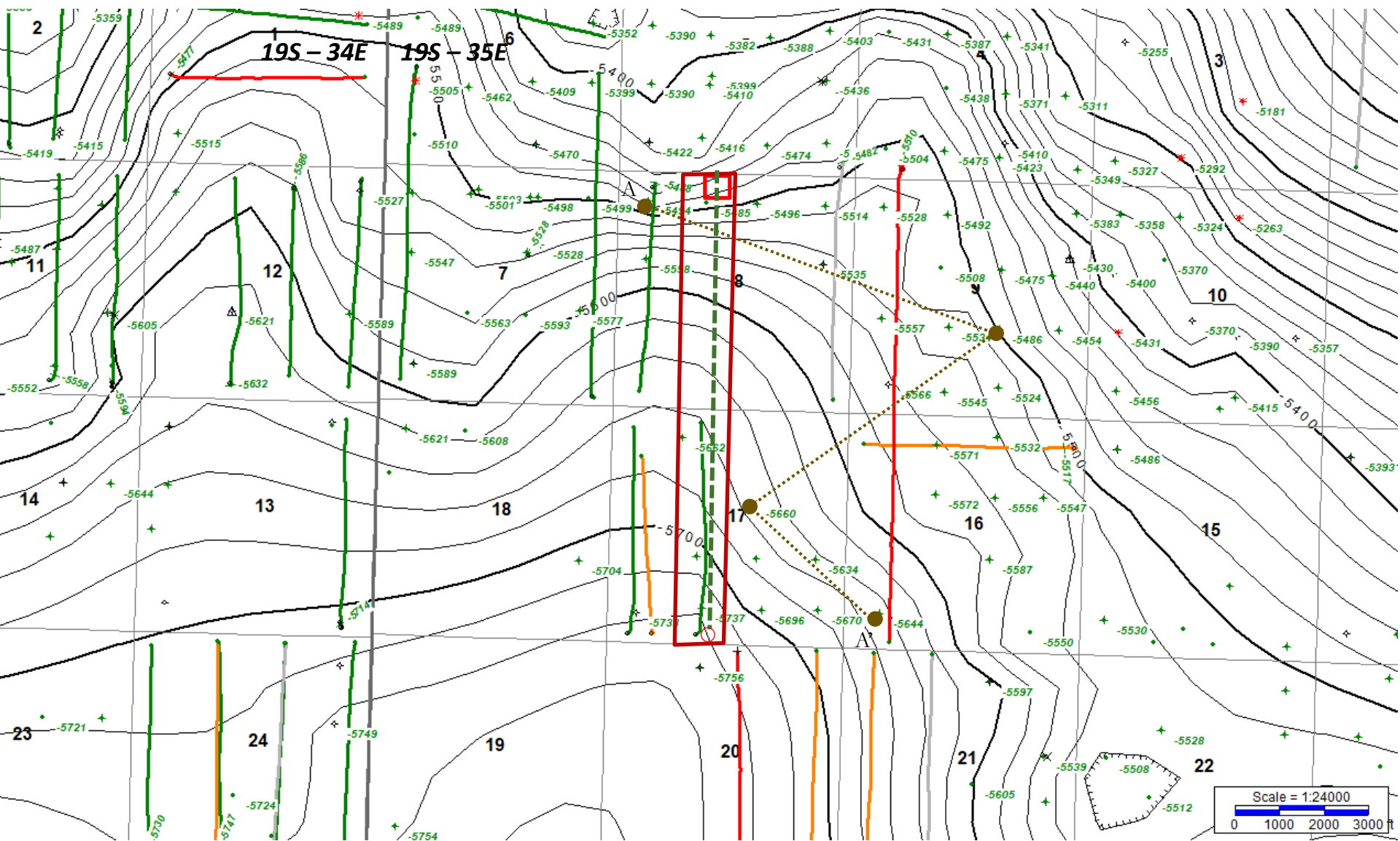
First Bone Spring
Second Bone Spring
Third Bone Spring
Wolfcamp A



- First Bone Spring
- Second Bone Spring
- Third Bone Spring
- Wolfcamp A

Rambo E2W2 08-17 B1 1H

Exhibit B-3: First Bone Spring Structure (Subsea TVD-ft)

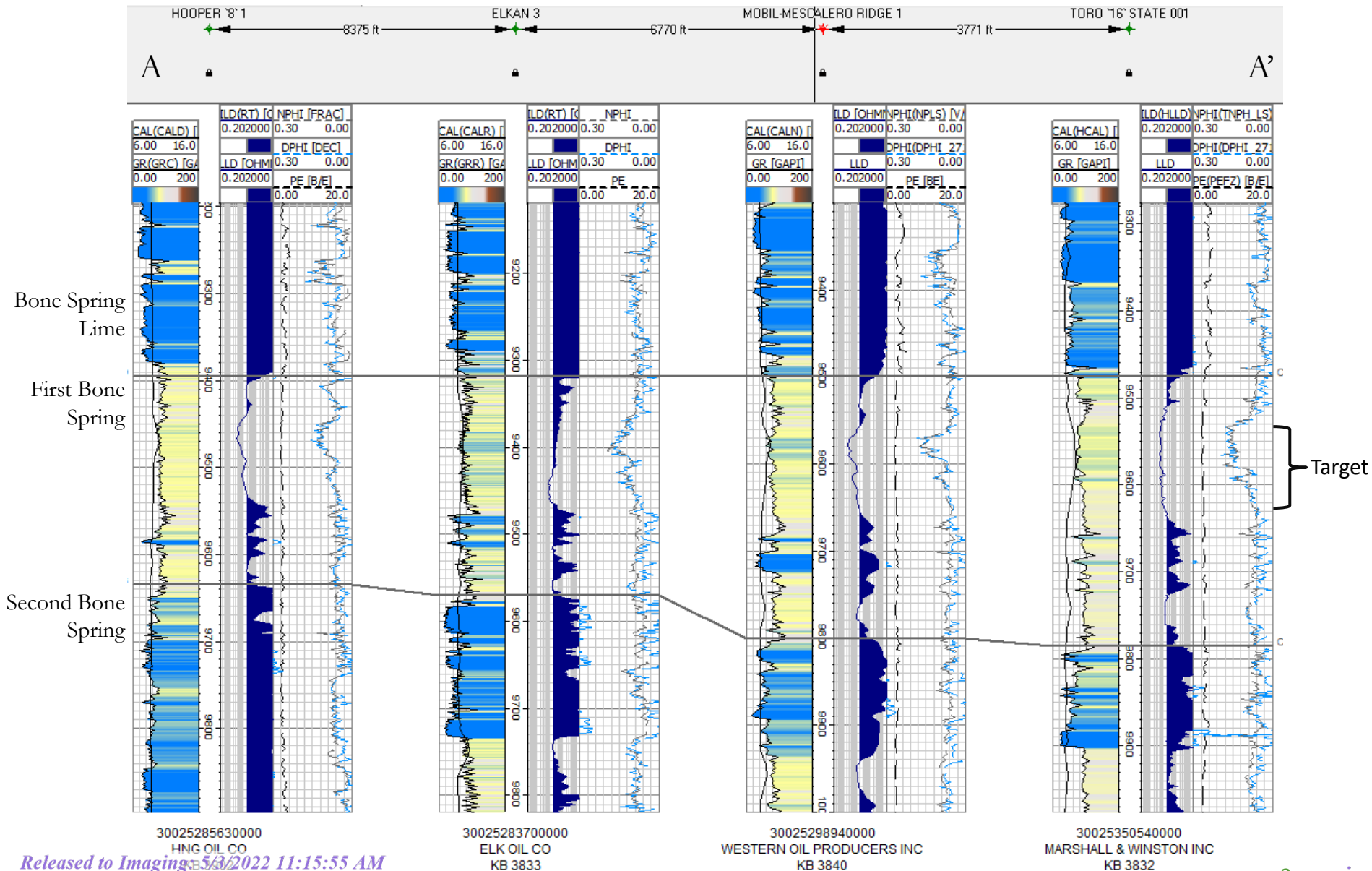


Rambo E2W2 08-17 B1 1H

Case No. 22075

Exhibit B-4

Exhibit B-4: Stratigraphic Cross section A-A' – First Bone Spring Datum



Rambo E2W2 08-17 B1 1H

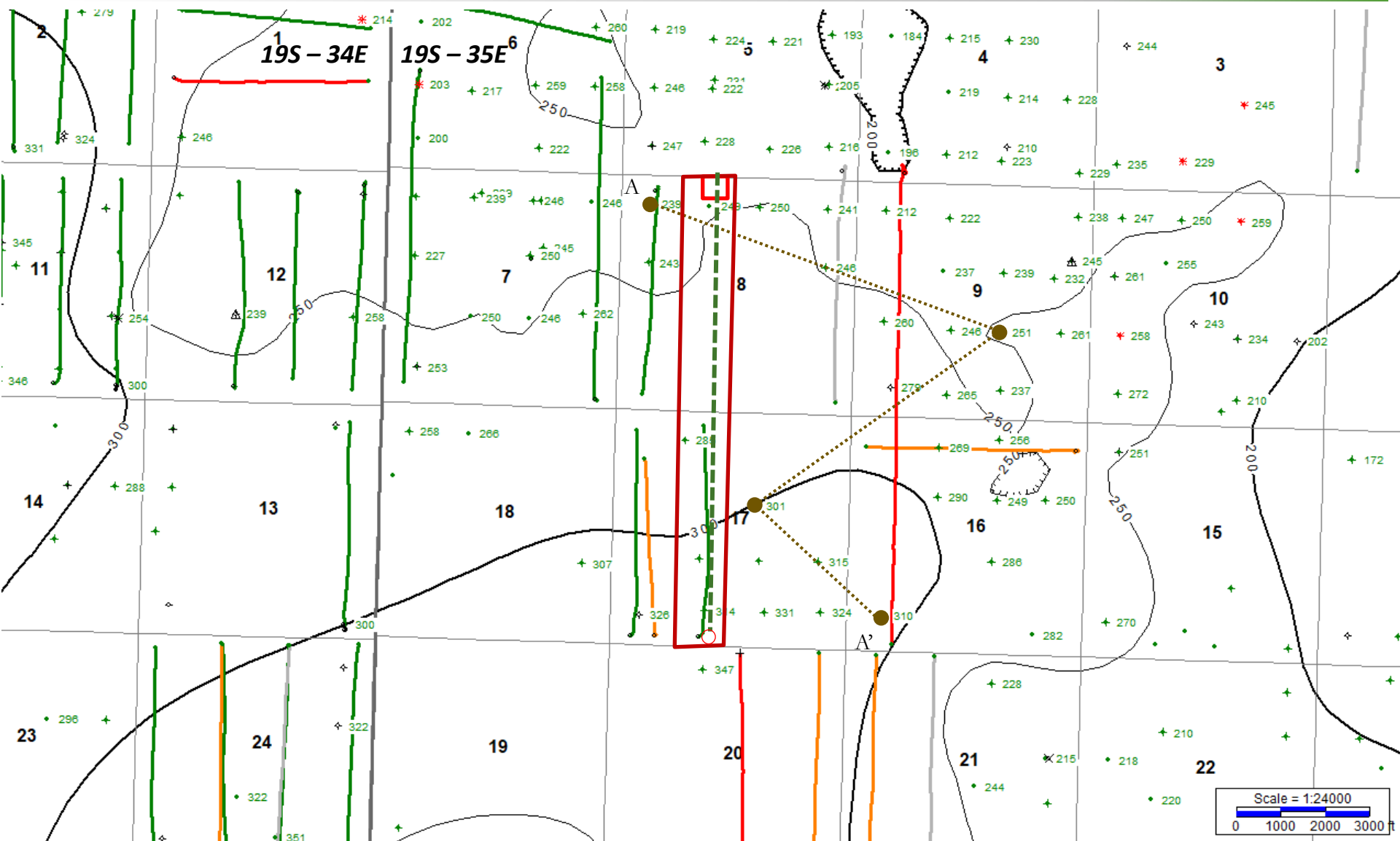
Catena Resources Operating, LLC

Case No. 22075

Exhibit B-5

Exhibit B-5: First Bone Spring Gross Isopach (TVD-ft)

- First Bone Spring
- Second Bone Spring
- Third Bone Spring
- Wolfcamp A



**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. 22075

**SELF-AFFIRMED STATEMENT
OF DANA HARDY**

1. I am attorney in fact and authorized representative of Catena Resources Operating LLC, the Applicant herein, and being first duly sworn, upon oath, state as follows.
2. I am familiar with the Notice Letter attached as **Exhibit C-1** and caused the Notice Letter 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 Letters, to the recipients listed in Exhibit C-2. Exhibit C-2 also provides the date each Notice Letter was sent and the date each return was received and includes copies of the certified mail receipts and white slips.
4. On July 14, 2021 and March 2, 2022, I caused a notice to be published to all interested parties in the Hobbs News-Sun. An Affidavit of Publication from the Legal Clerk of the Hobbs News-Sun, along with a copy of the notice publication, is attached as **Exhibit C-3**.

/s/ Dana S. Hardy
Dana S. Hardy

5/3/22
Date

Catena Resources Operating, LLC
Case No. 22075
Exhibit C



hinklelawfirm.com

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

July 9, 2021

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Case No. 22075 - 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 Catena Resources Operating, LLC filed the enclosed application with the New Mexico Oil Conservation Division. The hearing will be conducted on **August 5, 2021** 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: <http://www.emnrd.state.nm.us/OCD/announcements.html>. 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 electronically submitted to ocd.hearings@state.nm.us 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

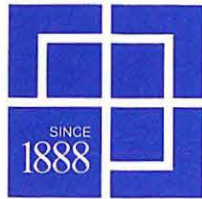
Enclosure

Catena Resources Operating, LLC
 Case No. 22075
 Exhibit C-1

PO BOX 10
 ROSWELL, NEW MEXICO 88202
 505-622-6510

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

7601 JEFFERSON ST NE • SUITE 180
 ALBUQUERQUE, NEW MEXICO 87109
 505-858-8320
 (FAX) 505-858-8321



hinklelawfirm.com

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

February 18, 2022

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED**TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS****Re: Case No. 22075 - 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 Catena Resources Operating, LLC filed the enclosed application with the New Mexico Oil Conservation Division. The hearing will be conducted on **March 17, 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: <http://www.emnrd.state.nm.us/OCD/announcements.html>. 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.

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

Sincerely,

/s/ Dana S. Hardy

Dana S. Hardy

Enclosure

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

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. 22075

NOTICE LETTERS

PARTY	NOTICE LETTER SENT	RETURN RECEIVED
Alpha Energy Partners, LLC P.O. Box 10701 Midland, TX 79702	07/09/21	07/21/21
COG Operating, LLC 600 W. Illinois Avenue Midland, TX 79701	07/09/21	07/16/21
Featherstone Development Corp. Attn: Olen Featherstone, III P.O. Box 429 Roswell, NM 88202	02/18/22	02/28/22
Debra Kay Primera P.O. Box 143277 Irving, TX 75014	02/18/22	02/23/22
South Fifth Energy, LLC 101 Homestead Loop Ruidoso, NM 88345	07/09/21	07/19/21 – returned as undeliverable-unable to forward

Catena Resources Operating, LLC
Case No. 22075
Exhibit C-2

7020 0640 0000 0143 3253

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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street and	Alpha Energy Partners, LLC
	P.O. Box 10701
City, State	Midland, TX 79702
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Alpha Energy Partners, LLC
PO Box 10701
Midland, TX 79702



9590 9402 6698 1060 4288 95

2. Article Number (Transfer from service label)

7020 0640 0000 0143 3253

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *David M. Friesen*

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

David M. Friesen

C. Date of Delivery

07-19-21

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

10701

3. Service Type

- ☐ Adult Signature
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☒ Certified Mail®
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<input type="checkbox"/> Return Receipt (hardcopy)	
<input type="checkbox"/> Return Receipt (electronic)	
<input type="checkbox"/> Certified Mail Restricted Delivery	
<input type="checkbox"/> Adult Signature Required	
<input type="checkbox"/> Adult Signature Restricted Delivery	
Postage	\$
Total Postage and Fees	\$
Sent To	
COG Operating, LLC	
Street and	600 West Illinois Avenue
	Midland, TX 79701
City, State,	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

**SENDER: COMPLETE THIS SECTION**

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COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701



9590 9402 5751 0003 3973 81

2. Article Number (Transfer from commercial label)

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A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Denise Lopez

C. Date of Delivery

7/14/21

D. Is delivery address different from item 1? ☐ Yes
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| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
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| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

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Extra Services & Fees (check box, add fee as appropriate)

- ☐ Return Receipt (hardcopy) \$
- ☐ Return Receipt (electronic) \$
- ☐ Certified Mail Restricted Delivery \$
- ☐ Adult Signature Required \$
- ☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Debra Kay Primera
P.O. Box 143277
Irving, TX 75014

Street and Apt.

City, State, ZIP

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Featherstone Development Corp.
Attn: Olen Featherstone, III
P.O. Box 429
Roswell, NM 88202



9590 9402 5760 0003 2714 36

2. Article Number (Transfer from service label)

7021 0950 0002 0365 6606

PS Form 3811, July 2015 PSN 7530-02-000-9053

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A. Signature

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

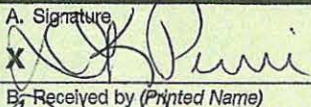
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
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- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	Debra Kay Primera
Street and Apt.	P.O. Box 143277
City, State, ZIP	Irving, TX 75014
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery Debra Kay Primera 2/2/22</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Debra Kay Primera P.O. Box 143277 Irving, TX 75014</p> <p>9590 9402 5760 0003 2714 43</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Signature Confirmation Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>7021 0950 0002 0365 6613</p>	
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt

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☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To South Fifth Energy, LLC
Street and 101 Homestead Loop
City, State, Ruidoso, NM 88345

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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JUL 09 2021
SANTA FE NM MAIN POST OFFICE

INKLE SHANOR LLP
ATTORNEYS AT LAW
POST OFFICE BOX 2068
NTA FE, NEW MEXICO 87504



7020 0640 0000 0143 3246



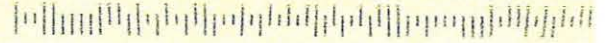
South Fifth Energy, LLC
101 Homestead Loop
Ruidoso, NM 88345

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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 14, 2021
and ending with the issue dated
July 14, 2021.


Publisher

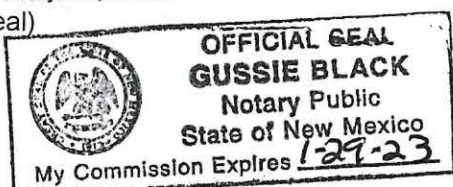
Sworn and subscribed to before me this
14th day of July 2021.


Business Manager

My commission expires

January 29, 2023

(Seal)



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 14, 2021

This is to notify all interested parties, including Alpha Energy Partners, LLC; COG Operating, LLC; South Fifth Energy, LLC; 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. 22075). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on August 5, 2021 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <http://www.emnrd.state.nm.us/OCD/hearings.html>. Applicant applies for an order pooling all uncommitted mineral interests in the Bone Spring formation in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 8 and 17, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Rambo E2W2 08-17 B1 1H well ("Well") which will be horizontally drilled from a surface location in the NE/4NW/4 (Unit C) of Section 8 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 17. Also to be considered will be the cost of drilling and completing the wells and the allocation of the cost, the designation of Applicant as the operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells are located approximately 20 miles west of Hobbs, New Mexico.
#36637

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

Catena Resources Operating, LLC
Case No. 22075
Exhibit C-3

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 02, 2022
and ending with the issue dated
March 02, 2022.



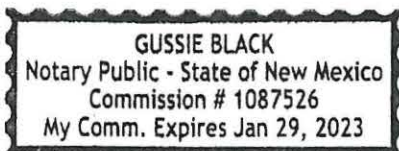
Publisher

Sworn and subscribed to before me this
2nd day of March 2022.



Business Manager

My commission expires
January 29, 2023
(Seal)



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

LEGAL

LEGAL NOTICE
March 2, 2022

This is to notify all interested parties, including Alpha Energy Partners, LLC; COG Operating, LLC; South Fifth Energy, LLC; Featherstone Development Corp.; Debra Kay Primera; 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. 22075). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on March 17, 2022 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <http://www.emnrd.state.nm.us/OCD/hearings.html>. Applicant applies for an order pooling all uncommitted mineral interests in the Bone Spring formation in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 8 and 17, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Rambo E2W2 08-17 B1 1H well ("Well") which will be horizontally drilled from a surface location in the NE/4NW/4 (Unit C) of Section 8 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 17. Also to be considered will be the cost of drilling and completing the wells and the allocation of the cost, the designation of Applicant as the operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells are located approximately 20 miles west of Hobbs, New Mexico.
#37371

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00264151

GILBERT
HINKLE, SHANOR LLP
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SANTA FE, NM 87504