# 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. 22074** 

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## **EXHIBIT INDEX**

## **Compulsory Pooling Checklist**

Exhibit A	Self-Affirmed Statement of Cato Clark				
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A-2	Application & Proposed Notice of Hearing				
A-3	C-102(s)				
A-4	Plat of Tracts, Tract Ownership, Pooled Party, Unit Recapitulation				
A-5	Sample Well Proposal Letter & AFE(s)				
A-6	Summary of Communications				
A-7	Hearing Notice Letter and Return Receipts				
A-8	Affidavit of Publication				
Exhibit B	Self-Affirmed Statement of Brian Moore				
B-1	Location Map				
B-2	Structure Map				
B-3	Stratigraphic Cross-Section				
B-4	Gross Isopach Map				

## **COMPULSORY POOLING APPLICATION CHECKLIST** ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS Case No.: 22074 **Hearing Date:** 8/5/2021 Applicant Catena Resources Operating, LLC Designated Operator & OGRID 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 Well Family Creed Formation/Pool Formation Name(s) or Vertical Extent Wolfcamp Primary Product (Oil or Gas) Oil Pooling this vertical extent Wolfcamp Pool Name and Pool Code Scharb; Wolfcamp (55640) Well Location Setback Rules Statewide Spacing Unit Size 320-acre **Spacing Unit** Type (Horizontal/Vertical) Horizontal Size (Acres) 320-acre **Building Blocks** quarter-quarter Orientation Standup Description: TRS/County E/2W/2 of Sections 29 and 32, Township 18 South, Range 35 East, Lea County, New Mexico Standard Horizontal Well Spacing Unit (Y/N), If No, Yes describe **Other Situations** Depth Severance: Y/N. If yes, description No Proximity Tracts: If yes, description No Proximity Defining Well: if yes, description Well(s) Name & API (if assigned), surface and bottom hole Add wells as needed location, footages, completion target, orientation, completion status (standard or non-standard) Well #1 Creed E2W2 29-32 W1 1H (API # pending) SHL: 500' FSL & 1650' FWL, Unit N, Section 20, T18S-R35E BHL: 100' FSL & 2310' FWL, Unit N, Section 32, T18S-R35E Completion Target: WolfCamp (Approx. 10,250' TVD) Horizontal Well First and Last Take Points Exhibit A-3 Completion Target (Formation, TVD and MD) Exhibit A-5 **AFE Capex and Operating Costs** Drilling Supervision/Month \$ Exhibit A Production Supervision/Month \$ Exhibit A Exhibit A

**Justification for Supervision Costs** Requested Risk Charge **Notice of Hearing** 

**Proposed Notice of Hearing** 

Proof of Mailed Notice of Hearing (20 days before hearing) Exhibit A-7 Proof of Published Notice of Hearing (10 days before

hearing) **Ownership Determination** 

Exhibit A-2

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Land Ownership Schematic of Spacing Unit	Exhibit A-4
Tract List (including lease numbers & owners)	Exhibit A-4
Pooled Parties (including ownership type)	Exhibit A-4
Unlocatable Parties to be Pooled	Exhibit A-4
Ownership Depth Severance	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit A-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-4
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-5
Cost Estimate to Equip Well	Exhibit A-5
Cost Estimate for Production Facilities	Exhibit A-5
Geology	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-1
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-4
Well Orientation (with rationale)	Exhibit B
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-3
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-2
Tracts	Exhibit A-4
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-4
General Location Map (including basin)	Exhibit B-1
Well Bore Location Map	Exhibit B-1
Structure Contour Map - Subsea Depth	Exhibit B-2
Cross Section Location Map (including wells)	Exhibit B-2
Cross Section (including Landing Zone)	Exhibit B-3
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Michael Rodriguez
Signed Name (Attorney or Party Representative):	MPnp
Date:	8/3/2021

# 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. 22074** 

## SELF-AFFIRMED STATEMENT OF CATO CLARK

- 1. I am a consulting land advisor for 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"). A copy of my resume is attached as Exhibit A-1.
- 2. I am familiar with the land matters involved in the above-referenced case. Copies of this application and proposed hearing notice are attached hereto as **Exhibit A-2**.
- 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/2W/2 of Sections 29 and 32, Township 18 South, Range 35 East, Lea County, New Mexico.
- 5. The Unit will be dedicated to the Creed E2W2 29-32 W1 1H well ("Well") which will be horizontally drilled from a surface location in the SE/4SW/4 (Unit N) of Section 20 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 32.
  - 6. The completed interval of the Well will be orthodox.
  - 7. The Well is located in the Scharb; Wolfcamp (Pool Code 55640).

CATENA RESOURCES
OPERATING, LLC
Case No. 22074

Exhibit A

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- 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-3 contains the C-102 for the Well.
- 10. **Exhibit A-4** 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-5** 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-6.
- 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. Notice of this case and the Division hearing was timely provided to the uncommitted interests by certified mail more than 20 days prior to the hearing date. A sample of the notice letters and associated green cards are attached as **Exhibit A-7**.

- Notice of this case and the Division hearing was published more than ten business 17. days prior to the hearing date. The affidavit of publication is attached as Exhibit A-8.
- 18. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.
- 19. 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.
- 20. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 19 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

7/21/2021 Date

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## Cato L. Clark, CPL

Houston, TX 77494

346-200-7894 clark@catenares.com

## LAND AND BUSINESS DEVELOPMENT PROFESSIONAL

## PROFESSIONAL SUMMARY

 15-year energy industry career with a board experience managing land, regulatory and business development functions for conventional and unconventional assets across multiple basins.

## PROFESSIONAL EXPERIENCE

## Catena Resources Operating, LLC, Houston, TX Consulting Land Advisor

2021 - 2021

- Manage all Land and Regulatory functions including title, partner approvals, regulatory hearings, permitting, and surface use requiring collaboration across disciplines for the successful planning and general development of Catena's drilling program in New Mexico
- Manage all Land functions for Catena's Operated assets in New Mexico.

## Riviera Resources Inc. f/k/a LINN, Houston, TX Vice President, Land

2018 - 2021

- Recruited by LINN to help consolidate Oklahoma City and Houston corporate offices and build a new Land team for the corporate spin-off of Riviera Resources. Focused on establishing a new corporate culture with appropriately sized staffing for a publicly traded niche development company; Duly elected as a corporate officer of Riviera Resources upon completion of spin-off
- Responsible for supervising and coordinating the activities of all Land, Lease Records, Regulatory and Division Order personnel and other land field employees for the entire organization which included ~1.7 Million acres, ~9000 operated wells, and multiple midstream assets spanning 17 states
- Managed all Land and Regulatory functions including title, partner approvals, OCC force pooling orders, permitting, and surface use requiring collaboration across disciplines for the successful planning and general development of drilling programs in the NW Stack and North Louisiana
- Successfully negotiated several farmout(in) agreements, WI buyouts, and trade agreements across the company's diverse portfolio of assets
- Collaborated on PSA negotiation, exhibit preparation, and managed a multidisciplined group through closing and diligence for the company's divestment efforts, leading to the successful closing of 16 transactions totaling ~\$700 Million in proceeds from opportunistic asset monetization's since Jan. 2019
- Manage and coordinate with outside counsel for all land related litigation

cent fillion

CATENA RESOURCES
OPERATING, LLC
Case No. 22074

- Collaborate with Legal to insure all title and mortgage coverage covenants are successfully met during every acquisition, divesture, and redetermination of the corporate Credit Facility
- Manage all Land and Regulatory requirements, notifications, and collection efforts related to the company Plan of Dissolution.

Breitburn Energy Partners LP, Houston, TX	2013 – 2018
Land and Corporate Development Manager	2016 – 2018
Sr. Landman, Corporate Development & Strategy	2014 - 2016
Advanced Landman	2013 - 2014

- Managed all land related sourcing, screening, evaluation, and due diligence for hundreds of potential acquisition opportunities in Texas, OK and other states which led to the successful closing of over a dozen acquisitions totaling ~\$1.3 Billion in assets
- Successfully negotiated numerous purchase and sale agreements, farmout(in) agreements, and trade agreements, across the company's diverse portfolio of assets which included trades to consolidate drilling locations in over 10,000 acres of the company's core Permian position
- Managed a multi-functional personnel team through the marketing, negotiation, and the successful closing of a divestment of substantially all of the company's non-core conventional Mid-Con assets, which consisted of over 400 operated and non-operated wells across 24 counties
- Worked closely with credit facility trustees and lawyers to insure all title and mortgage coverage covenants were successfully met during every acquisition, divesture, and redetermination
- Managed land diligence and integration related to the successful closing of the \$3
   Billion merger with QR Energy
- Managed exhibit preparation, certain document preparation, and post-closing obligations related to the successful closing of the BBEP/QRE merger combined credit facility, and the successful closing of the EIG secured 2<sup>nd</sup> lien transaction
- Land team lead for integrating \$1 Billion of asset acquisitions in Oklahoma and New Mexico
- Provided operational land support and management for all the company's operated and non-operated assets in Oklahoma, New Mexico, and Florida, including but not limited to, negotiating operating agreements, purchase and sale agreements, and surface use agreements
- Provided land support integrating over \$500 Million of assets in the Permian Basin
- Managed leasing/farming projects and successfully negotiated and acquired over 15,000 acres of additional bolt-on acreage to the company's operated assets in multiple basins
- Managed and negotiated surface and mineral permitting for a 62 square mile 3D seismic program
- Named member of the Key Employee Program during Chapter 11 Corporate Restructuring

 During restructuring my additional responsibilities included; Managing restructuring related land diligence; Managing restructuring related exhibit preparation, land request, presentations, and notices; Managing the court approval process for all 363 trades and divestments, which included filing declarations and testimony in support of these transactions with the court; collaborated with Legal on responses to various claims

BETA Land Services LLC, Lafayette, Louisiana	2007 - 2013
Project Manager	2009-2013
Project Supervisor	2008-2009
Landman	2007-2008

- Opened and managed Beta Land Services LLC's Houston office and was responsible for staffing and personnel management, networking, and advertising of company services to identify and acquire new clients
- Managed title due diligence projects across multiple basins covering both onshore and offshore properties for over \$8 Billion in total assets, and worked on title due diligence projects for over \$3 Billion in additional assets
- Managed lease negotiation, acquisition and title on over 100,000 acres of Marcellus Shale assets
- Managed multiple crews of over 100 brokers in abstracting and curative projects for drill site title opinions and division order title opinions for over 90 horizontal wells in the Marcellus and Utica Shales for multiple operators
- Managed data organization and review for multiple internal and external audits
- Researched and compiled numerous abstracts of title for various clients through deed research and charting chains of title
- Title research for oil and gas lease acquisitions
- Lease preparation, execution and filing
- Completed curative work to resolve title issues including the execution and filing of various affidavits, amendments, ratifications, subordinations and releases
- Trained personnel in various aspects of title examination, leasing, curative and abstract preparation
- Communication with clients and attorneys regarding progress of leasing, abstracting, due diligence and curative

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## **EDUCATION**

Bachelor of Arts in Business Management August, 2005 Southeastern Louisiana University: Hammond, Louisiana

## **CERTIFICATIONS**

Registered Professional Landman (RPL), July, 2012 American Association of Professional Landmen Certified Professional Landman (CPL), March, 2016 American Association of Professional Landmen

## 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. 22074

## **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 in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 29 and 32, Township 18 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 Creed E2W2 29-32 W1 1H well ("Well") which will be horizontally drilled from a surface location in the SE/4SW/4 (Unit N) of Section 20 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 32.
  - 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. 22074 Released to Imaging: 8/3/2021 2:44:44 PM

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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 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

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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 in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 29 and 32, Township 18 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Creed E2W2 29-32 W1 1H well ("Well") which will be horizontally drilled from a surface location in the SE/4SW/4 (Unit N) of Section 20 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 32. The completed intervals of the Wells will be orthodox. 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.

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

<sup>16</sup> FTP 2310'FWL

100 ENL

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

17 OPERATOR CERTIFICATION

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Exhibit A-3

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<sup>1</sup> API Number		<sup>2</sup> Pool Code					
		55640					
4 Property Code		<sup>5</sup> Pr	operty Name	<sup>6</sup> Well Number			
		1H					
<sup>7</sup> OGRID N₀.		8 Operator Name 9 Elevation					
328449		Catena Resources Operating, LLC					

<sup>™</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	20	18-S	35-E	N	500	South	1650	West	LEA
" 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
	32	18-S	35-E	N	100	South	2310	West	LEA
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code				Code			15 Order No.		*
640								3	

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. 

S.L. 1650' FWL – 500' FSL SEC 20 T18S R35E

				to the best of my knowledge and owns a working interest or unleas the proposed bottom hole locatio location pursuant to a contract w	y pooling agreement or a compulsory
	! ! !			Signature	Date
	I Section 29	T18S R35E		Printed Name E-mail Address	
	Section 32	T18S R35E		plat was plotted from fi	RTIFICATION  well location shown on this  ield notes of actual surveys  ny supervision, and that the
	1			Date of Survey Signature and Seal of Profe	t to the best of my belief.
BHL 2310′ FWL 100′ FSL				Certificate Number	CATENA RESOUR OPERATING, L Case No. 220

## **EXHIBIT A-4**

# Creed E2W2 29-32 W1 1H Proposed Wolfcamp Spacing Unit Lea County, New Mexico

E2W2 Section 29 & 32 - T18S - R35E

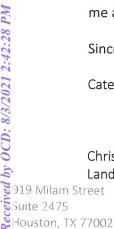
l			
Parties t	o be Pooled		
Catena R	esources Ope	rating (CRO)	34.48%
Maratho	n Oil Permian,	LLC (MRO)	62.50%
T.H. McE	Ivain Oil & Ga	s LLLP (THM)	3.03%
		<u>Total</u>	100.00%
Tracts	F/2 N\///	Section 29	

		<u>Total</u>	100.00
<u>Tracts</u>			
Tract 1	E/2 NW/4	Section 29	
Tract 2	E/2 SW/4	Section 29	
Tract 3	E/2 NW/4	Section 32	
Tract 4	NE/4 SW/4	Section 32	
Tract 5	SE/4 SW/4	Section 32	

Tract 1 MRO 100%	Section 29
Tract 2 MRO 100%	
Tract 3 CRO 87.9% THM 12.1%	Section 32
Tract 4 MRO 100%	
Tract 5 CRO 100%	

CATENA RESOURCES OPERATING, LLC Case No. 22074

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May 28,2021

Via Certified Mail

{Address}

Re:

Creed E2W2 29-32 W1 1H 500' FSL & 1650' FWL of Sec. 20, 18S-35E 100' FSL & 2310' FWL of Sec. 32, 18S-35E Section 29 & 32, 18S-35E Lea County, New Mexico

Ladies and Gentlemen,

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

Creed E2W2 29-32 W1 1H well located at a surface location of 500' FSL & 1650' FWL of Sec. 20, 18S-35E, and a bottom hole location of 100' FSL & 2310' FWL of Sec. 32, 18S-35E. We anticipate drilling to an approximate total vertical depth of 10,250' and plan to continue drilling horizontally to the south to the proposed bottom hole location at an approximate total measured depth of 21,500'. The Creed E2W2 29-32 W1 1H will target the Wolfcamp formation and the E/2 W/2 of Sec. 29 & the E/2 W/2 of Sec. 32, 18S-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

CATENA RESOURCES OPERATING, LLC Case No. 22074

Joint Owner Name:

WELL NAME:
FIELD NAME:
FIELD NAME:
COUNTY/ST:
COUNTY/ST:

WELL COST ESTIMATE

LL NAME: Creed E2W2 29-32 W1 1H LD NAME:

2 mile lateral Lea County, NM Wolfcamp DATE: 5/27/2021 START DATE: COMPLETE DATE: ORIGINAL: AFE NO.

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1		COUNTY / ST: OBJECTIVE:	Lea Cou Wolfcam			ORIGINAL: SUPPLEMENT:			
	INTANGIBLE COSTS		ACCT	Industrial access	1007.0005	COMPLETION -	T		
	Legal Fees / Title Opinion		31001	DRILLING - 310XX	ACCT CODE	320XX	ACCT CODE	FACILITIES - 330XX	TOTAL
- 1	Surveys / Staking / Permits / Bonds / Regulatory		31001	\$75,000 \$25,000	32001 32002	\$10,000	33001 33002		\$75,000 \$35,000
	ROW / Surface Damages Roads & Location / Reserve Pit - Construction		31003 31004	A THE RESIDENCE OF THE PARTY OF	32003		33012		\$0
- 1	Roads & Location / Reserve Pit - Reclaimation		31004	\$80,000 \$90,000	32004 32005	\$45,000	ł		\$80,000 \$135,000
	Frac Pond Gate Guard		31006 31007	MINISTER STATE	32006	\$100,000	1		\$100,000
- 1	Mouse / Rathole / Conductor		31007		32007		ł		\$0 \$0
	Mobilization / Demobilization Drilling - Daywork		31009 31010	\$150,000	32008		1		\$150,000
- 1	Drilling - Footage		31010	\$620,000					\$620,000 \$0
	Drilling - Turnkey Completion / Snubbing / Workover Unit		31012 31013		1		1		\$0
- 1	Trailer House / Communications		31013		32009 32010	\$432,500	l		\$432,500 \$0
	Drill Bits Directional Equipment / Gyro Surveys		31015	\$70,000	32011		1		\$70,000
- 1	Downhole Tool / Stabilization Rental		31016 31017	\$280,000	32012 32013	\$65,000	ł		\$280,000 \$65,000
	Mud / Chemicals Fuel / Power		31018	\$310,000	32014				\$310,000
ı	Water Supply Well, equipment		31019 31020	\$180,000	32015 32016	\$40,692 \$468,286			\$220,692 \$468,286
	Water / Water Hauling Offsite Water & Cuttings Disposal		31021	ENTREST BUT	32017				\$0
- I	Transportation / Hauling		31022 31023	\$40,000	32018 32019		33009		\$0 \$40,000
	nspection / Tubular Testing Laydown Machine / Casing Crew / Tongs		31024		32020	\$20,000	55555		\$20,000
- 1	Cementing, Float Equipment & Services		31025 31026	\$120,000	32021 32022				\$0 \$120,000
	Mud Logging Logging - Open Hole		31027	\$40,000					\$40,000
- 1	ogging - Cased Hole		31028 31029		32023 32024				\$0 \$0
	Coring & Analysis, Drill Stem Test Perforating		31030		1-0000000000000000000000000000000000000				\$0
	Vireline / Slickline Services		31031 31032		32025 32026	\$285,500			\$285,500 \$0
	Equipment Rental		31033	\$200,000	32027	\$183,288			\$383,288
	Pumping Services/Rental Acidizing & Fracturing		31034 31035		32028 32029	\$2,500,000			\$0 \$2,500,000
- 10	Coil Tubing Unit		31036		32030	THE RESERVE			\$2,500,000
Į,	Flow Testing, Swabbing Fishing / Sidetrack Services		31037 31038		32031 32032	\$73,038			\$73,038
1	lipple Up / BOPE Testing		31039		32033	\$102,000			\$0 \$102,000
	Overhead Vellsite Consulting Services/Supervision		31040 31041	\$10,000 \$110,000	32034 32035	\$89,385	33003		\$10,000
ĮE	ingineering / Geological / Lab Servic Tracers and dia	agnostics	31042		32036	\$26,538	33003		\$199,385 \$26,538
	Roustabout / Contract Labor Velding Services		31043 31044	\$120,000	32037 32038	\$20,000	33004	\$200,000	\$340,000
10	nsurance		31045	\$10,000	32039		33005		\$0 \$10,000
	Miscellaneous P&A Costs		31046 31047		32040 32041	\$80,000	33006		\$80,000
	afety / EH&S		31048	ALPERT REAL PROPERTY.	32042		33007		\$0 \$0
l a	% Contingency		31049		32043	\$135,242			\$135,242
IN	ION-Op Drilling Intangible		31050	MARKET AND DESCRIPTION OF THE PARTY OF THE P	32044				
	ipeline Installation / Interconnect		31050 31051		32044 32045		33008		\$0 \$0
			31051	\$2,530,000		\$4,676,469	33008	\$200,000	
	ipeline Installation / Interconnect			\$2,530,000 DRILLING - 311XX		\$4,676,469 COMPLETION -	33008	\$200,000 FACILITIES - 331XX	\$0
	ipeline Instaliation / Interconnect TOTAL INTANGIBLE COSTS TANGIBLE COSTS		ACCT CODE	DRILLING - 311XX	32045	\$4,676,469			\$0 \$7,406,469 TOTAL
P C S	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS		31051 ACCT		32045	\$4,676,469 COMPLETION -			\$0 \$7,406,469 TOTAL \$20,000
E C S	ipeline Installation / Interconnect TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  conductor urface Casing st Intermediate Casing / Liner		31051 ACCT CODE 31101 31102 31103	\$20,000 \$70,000 \$130,000	32045	\$4,676,469 COMPLETION -			\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000
C S 1 2 P	TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner roduction Casing / Liner roduction Casing / Liner roduction Casing / Liner		31051 ACCT CODE 31101 31102	\$20,000 \$70,000	32045	\$4,676,469 COMPLETION -			\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000
C S 1 2 P C	ipeline Installation / Interconnect TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  conductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner roduction Casing / Liner asing Tie Back		31051 ACCT CODE 31101 31102 31103	\$20,000 \$70,000 \$130,000	32045  ACCT CODE  32101 32102	\$4,676,469 COMPLETION -			\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000
COS 1 22 PCL	TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Tandible Costs		31051 ACCT CODE 31101 31102 31103	\$20,000 \$70,000 \$130,000	32045  ACCT CODE  32101	\$4,676,469 COMPLETION -			\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0
C S 1 2 P C L T C	TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner roduction Casing / Liner roduction Casing / Liner roduction Casing / Liner for Hanger Assembly ubing asing Tie Back saing Teauipment - OHMS / Etc.		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105	\$4,676,469 COMPLETION - 321XX			\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0
C S S 1 2 2 P C U V P	ipeline Installation / Interconnect TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. lellhead Equipment umping Unit / Prime Mover / Base		31051 ACCT CODE 31101 31102 31103	\$20,000 \$70,000 \$130,000	32045  ACCT CODE  32101 32102 32103 32104	\$4,676,469 COMPLETION - 321XX	ACCT CODE		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0,000
C S 11 22 P C L T C W P R	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. /ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108	\$4,676,469  COMPLETION - 321XX  \$60,000	33101 33102		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$60,000 \$0
CS1122PCLTCWPRAW	TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner roduction Casing / Liner rasing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. // Jellhead Equipment umping Unif Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift // Jellhead Equipment Completions - Production Tree		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107	\$4,676,469 COMPLETION - 321XX	33101 33102 33103		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$60,000 \$0 \$50,000 \$0 \$150,000
C S 1 2 P C L T C W P R A W T	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TOTAL INTERPORT OF TANGIBLE COSTS  TOTAL INTERPORT OF TANGIBLE COSTS  TOTAL INTERPORT OF TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  TOTAL INTERPORT OF TANGIBLE COSTS		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111	\$4,676,469  COMPLETION - 321XX  \$60,000	33101 33102 33103 33104 33105		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$0 \$60,000 \$1 \$0 \$175,000 \$175,000 \$200,000
CS 11 22 PC LT CW PR AW TG S	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. /ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift /ellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32110	\$4,676,469  COMPLETION - 321XX  \$60,000	33101 33102 33103 33104		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
E C S 1 2 P C L T C W P R A W T G S S	TOTAL INTANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. fellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift fellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000	33101 33102 33103 33104 33105 33106 33107 33108		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,00
F C S 1 2 P C L T C W P R A W T G S S F B	ipeline Installation / Interconnect TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  conductor urface Casing st Intermediate Casing / Liner and Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift //ellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps liters ulldings		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32113 32114 32115 32116	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000	33101 33102 33103 33104 33105 33106 33107		\$0 \$7,406,469 TOTAL \$20,000 \$130,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$175,000 \$0 \$175,000 \$0 \$175,000 \$175,000 \$175,000 \$175,000 \$100,000
E C S 1 2 P C L T C W P R A W T G S S F B In	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubling asing Tea Back iner Hanger Assembly ubling ubling asing Equipment - OHMS / Etc. // Jellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rifficial Lift // Jellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps filters uildings liters uildings		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32110 32111 32112 32112 32113 32114 32115 32116 32117	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000	33101 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111		\$0 \$7,406,469 TOTAL \$20,000 \$130,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0 \$175,000 \$0 \$10,000 \$0 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12PCLTCWPRAWTGSSFBInFIA	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner saing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. // Jellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rificial Lift // fellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pump illers uildings terconnect Piping / Manifolds / Headers owlines / Connections / Valves utomation / Instruments / Controls / Analyzers		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32113 32114 32115 32116	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000	33101 33102 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33111		\$0 \$7,406,469 TOTAL \$20,000 \$130,000 \$130,000 \$0 \$0 \$60,000 \$0 \$50 \$0 \$175,000 \$0 \$175,000 \$0 \$175,000 \$0 \$175,000 \$0 \$175,000 \$175,000 \$175,000 \$175,000 \$175,000 \$175,000 \$175,000 \$175,000
F CS12PCLTCWPRAWTGSSFBInFIAE	TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner roduction Casing / Liner rasing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. // Jellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Litt // Jellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps liters uildings terconnect Piping / Manifolds / Headers lowlines / Connections / Valves utomation / Instruments / Controls / Analyzers electrical Equipment / Senerators		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32109 32110 32111 32112 32112 32113 32114 32115 32116 32116 32119 32118 32119 32119 32119	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000	33101 33102 33103 33104 33105 33106 33106 33107 33108 33110 33111 33112 33113 33114		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$0 \$0 \$0 \$0 \$10,000 \$0 \$10,000 \$0 \$10,000 \$0 \$10,000 \$0 \$10,000 \$0 \$10,000 \$1
F CS12PCLTCWPRAWTGSSFBInFIAEICM	TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner rasing Tie Back iner Hanger Assembly ubling asing Equipment - OHMS / Etc. // Lellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift // Lellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps liters uildings terconnect Piping / Manifolds / Headers lowlines / Connections / Valves utomation / Instruments / Controls / Analyzers ectrical Equipment / Generators ompressor & Related Equipment etering Equipment, Lett		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32110 32111 32112 32111 32112 32113 32114 32115 32116 32117 32118 32119	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33109 33110 33111 33112 33113 33114 33115		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000
F CS12PCLTCWPRAWTGSSFBInFAECMC	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing urface Casing / Liner asing Ties Casing / Liner asing Ties Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift //ellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps liters uldiding terconnect Piping / Manifolds / Headers owlines / Connections / Valves utomation / Instruments / Controls / Analyzers lectrical Equipment / Generators ompressor & Related Equipment etering Equipment / LACT Unit hemical Equipment / Potection		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$100,000  \$100,000  \$25,000 \$50,000	33101 33102 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33112 33113 33114 33115 33115		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$50 \$60,000 \$0 \$50,50 \$0 \$15,000 \$0 \$10,000 \$0 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0,
FI OS12PCLTCWPRAWTGSSFBInFIAEICMCS	TANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing st Intermediate Casing / Liner nod Intermediate Casing / Liner roduction Casing / Liner rasing Tie Back iner Hanger Assembly ubling asing Equipment - OHMS / Etc. // Lellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift // Lellhead Equipment Completions - Production Tree anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater urface Pumps liters uildings terconnect Piping / Manifolds / Headers lowlines / Connections / Valves utomation / Instruments / Controls / Analyzers ectrical Equipment / Generators ompressor & Related Equipment etering Equipment, Lett		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32120 32121 32122 32123 32124	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33112 33113 33114 33115 33116 33117 33116		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$150,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12POLTCWPRAWTGSSFBIRFAECMCSSSN	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TOTAL TANGIBLE COSTS  TOTAL TANGIBLE COSTS  TOTAL  TANGIBLE COSTS  TOTAL		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32117 32118 32119 32120 32120 32121 32122 32123 32124 32125 32126	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33112 33113 33114 33115 33116 33116 33117 33118 33118 33119		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$50 \$60,000 \$0 \$50,50 \$0 \$15,000 \$0 \$10,000 \$0 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0,
F CS12PCLTCVPRAWTGSSFBIRFAECMCSSNTTFI	TOTAL INTANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing urface Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Life Company Life Com		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32110 32111 32112 32113 32114 32115 32116 32117 32118 32119 32112 32113 32114 32115 32116 32117 32118 32112 32120 32121 32121 32121 32122 32122 32122 32122 32124 32125 32126	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33113 33114 33115 33116 33117 33118 33119 33119 33120 33121		\$0 \$7,406,469 TOTAL \$20,000 \$170,000 \$130,000 \$510,000 \$0 \$0 \$0 \$0 \$0 \$175,000 \$0 \$175,000 \$0 \$0 \$10,000 \$0 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12PCLTCWPRAWTGSSFBInFAECMCSSNTTF	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TOTAL INTERPORT TO THE TOTAL		ACCT CODE 31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32110 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32124 32125 32126 32127 32128 32129	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33107 33108 33109 33110 33111 33112 33113 33114 33115 33116 33116 33117 33118 33118 33119		\$0 \$7,406,469 TOTAL \$20,000 \$130,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0 \$10,000 \$0 \$10,000 \$0 \$100,000 \$0 \$100,000 \$0 \$100,000 \$0 \$100,000 \$0 \$0 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12PCLTCWPRAWTGSSFBInFAECMCSSNTFFMC	TOTAL INTANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  Conductor urface Casing urface Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Liner asing Tie Back iner Hanger Assembly ubing asing Equipment Life Company Life Com		31051  ACCT CODE  31101 31102 31103 31104  31105	\$20,000 \$70,000 \$130,000 \$510,000 \$60,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32124 32125 32124 32125 32126 32127 32128 32128 32128 32128 32122	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000	33101 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33113 33114 33115 33116 33117 33118 33117 33118 33119 33120 33121 33122 33122		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12PCLTCWPRAWTGSSFBInFAECMCSSNTFFMC	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TOTAL TANGIBLE COSTS		31051  ACCT CODE  31101 31102 31103 31104	\$20,000 \$70,000 \$130,000 \$510,000 \$510,000 \$510,000 \$50,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32110 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32124 32125 32126 32127 32128 32129	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$200,000  \$100,000  \$25,000  \$25,000  \$25,000  \$25,000  \$25,000  \$276,000	33101 33101 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33113 33114 33115 33116 33117 33116 33117 33118 33119 33119 33119 33119 33119 33119		\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
F CS12PCLTCWPRAWTGSSFBInFAECMCSSNTFFMC	TOTAL INTANGIBLE COSTS  TANGIBLE COSTS  TANGIBLE COSTS  TOTAL INTANGIBLE COSTS  TOTAL TANGIBLE COSTS  TOTAL MELL COSTS		31051  ACCT CODE  31101 31102 31103 31104  31105	\$20,000 \$70,000 \$130,000 \$510,000 \$510,000 \$510,000 \$50,000	32045  ACCT CODE  32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32113 32114 32115 32116 32117 32118 32119 32120 32121 32122 32123 32124 32125 32124 32125 32126 32127 32128 32128 32128 32128 32122	\$4,676,469  COMPLETION - 321XX  \$60,000  \$175,000  \$100,000  \$25,000 \$25,000 \$25,000 \$25,000 \$106,000	33101 33102 33103 33104 33105 33106 33107 33108 33110 33111 33112 33113 33114 33115 33116 33117 33118 33117 33118 33119 33120 33121 33122 33122	FACILITIES - 331XX	\$0 \$7,406,469 TOTAL \$20,000 \$70,000 \$130,000 \$510,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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Signature:

## Exhibit A-6

## Catena Resources Operating, LLC - Creed E2W2 29-32 W1 1H Discussion Timeline

## Marathon Oil Permian, LLC

Catena Resources Operating, LLC sent original well proposals on May 28, 2021. At such time, Catena and Marathon Oil Permian, LLC were already engaged in discussions regarding the proposed well. Catena and Marathon Oil Permian, LLC are in ongoing discussions on the well proposal.

## T. H. McElvain Oil and Gas LLLP

Catena Resources Operating, LLC sent original well proposals on May 28, 2021. At such time, Catena and T.H. McElvain Oil and Gas LLLP were already engaged in discussions regarding the proposed well. Catena and T.H. McElvain Oil and Gas LLLP are in ongoing discussions on the well proposal.

CATENA RESOURCES OPERATING, LLC Case No. 22074 Released to Imaging: 8/3/2021 2:44:44 PM





## 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. 22074 - 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: <a href="http://www.emnrd.state.nm.us/OCD/announcements.html">http://www.emnrd.state.nm.us/OCD/announcements.html</a>. 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. 22074

Exhibit A-7

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

272	CERTIFIED MAIL® RECEIPT  Domestic Mail Only						
m	For delivery information, visit our website at www.usps.com®.						
0143	Certified Mail Fee  \$ Extra Services & Fees (check box, add fee as appropriate)  **THE TIME TO SERVICE STATE OF THE TIME TO SERVICE STATE STATE OF THE TIME TO SERVICE STATE STATE OF THE TIME						
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	PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions						

A			
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> <li>Marathon Oil Permian, LLC 5555 San Felipe Houston, TX 77056</li> </ul>	A. Signature  Agent  Addressee  B. Received by (Printed Name)  C. Date of Delivery  D. Is delivery address different from item 1?  If YES, enter delivery address below:  No		
9590 9402 6698 1060 4289 25  2. Article Number (Transfer from service label) 7020 0640 0000 0343 3215	3. Service Type  ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery ☐ (over \$500) ☐ Priority Mail Express® ☐ Registered Mail Testricted ☐ Registered Mail Restricted ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail		
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON I	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> <li>T.H. McElvain Oil and Gas LLLP 1600 Stout Street, Suite 500 Denver, CO 80202</li> </ul>	B. Received by (Printed Name)  D. Is delivery address different from If YES, enter delivery address	Agent  Addressee  C. Date of Delivery  All Mes  below:  No
9590 9402 6698 1060 4289 32  2. Article Number (Transfer from service label) 7020 0640 0000 0343 3235	3. Service Type  Adult Signature  Adult Signature Restricted Delivery  Certified Mali®  Coertified Mali®  Collect on Delivery  Collect on Delivery Restricted Delivery  Insured Mali  Insured Mali Restricted Delivery (over \$500)	□ Priority Mail Express® □ Registered Mail™ □ Registered Mail Restricted Delivery ☑ Signature Confirmation™ □ Signature Confirmation Restricted Delivery

## 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.

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

**Business Manager** 

My commission expires

ess Mai y commission January 29, 2023 (Seal)

OFFICIAL GEAL **GUSSIE BLACK** Notary Public State of New Mexico My Commission Expires 1

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167
01937 and payment of fees for said meaning of Section 3, Chapter 167, Laws of

### **LEGAL NOTICE** July 14, 2021

This is to notify all interested parties, including Marathon Oil Permian, LLC, T.H. McElvain Oil and Gas LLLP, and their successors and assigns, that the New Mexico Oil Conservation Division will the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Catena Resources Operating, LLC (Case No. 22074). 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: 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 Wolfcamp uncommitted mineral interests in the Wolfcamp formation in a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 29 and 32, Township 18 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Creed E2W2 29-32 W1 1H well ("Well") which will be horizontally drilled from a surface location in the SE/4SW/4 (Unit N) of Section 20 to a bottom hole location in the SE/4SW/4 (Unit N) of Section 32. The completed intervals of the Wells will be orthodox. 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. Hobbs, New Mexico. #36636

02107475

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

00256182

CATENA RESOURCES OPERATING, LLC Case No. 22074 Exhibit A-8

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

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

**CASE NO. 22074** 

## SELF-AFFIRMED STATEMENT OF BRIAN MOORE

- 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 previously testified before the New Mexico Oil Conservation Division ("Division") where my credentials as an expert in petroleum geology matters were accepted and made a matter of record.
  - 2. I am familiar with the geological matters that pertain to the above-referenced case.
- 3. **Exhibit B-1** is a project location map that shows the location of the proposed horizontal well spacing unit.
- 4. Catena is targeting the Wolfcamp 'A' interval of the Wolfcamp formation. **Exhibit B-2** 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 Wolfcamp interval are represented by solid red lines. The structure map shows the Wolfcamp 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.
- 5. **Exhibit B-2** also shows a cross-section line in brown running North to South reflecting four wells penetrating the Wolfcamp 'A' formation that I used to construct a

CATENA RESOURCES
OPERATING, LLC
Case No. 22074
Exhibit B

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stratigraphic cross-section from A to A'. These wells contain good logs and I consider them representative of the geology in the subject area.

- 6. Exhibit B-3 is a stratigraphic cross-section that I prepared using the logs from the four wells noted on Exhibit B-2. Each well in the cross-section contains the gamma ray in the first track, resistivity in the second track, and porosity curves in the third track. The initial target interval is labeled and marked. The cross-section demonstrates that the targeted interval is continuous across the proposed spacing unit.
- 7. **Exhibit B-4** is a Gross Isopach map of the Wolfcamp 'A' 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 Wolfcamp are represented by solid red lines. The anticipated gross thickness of the Wolfcamp 'A' interval is 650 to 725 ft. The gross isopach map demonstrates that the Wolfcamp 'A' interval is present across the proposed spacing unit. The location of the previous cross-section from A-A' in Exhibit B-3 is also shown as a brown line on this map.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.

12. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm my testimony in paragraphs 1 through 11 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.

Brian Moore

7/29/2021 Date

# Creed E2W2 29-32 W1 1H

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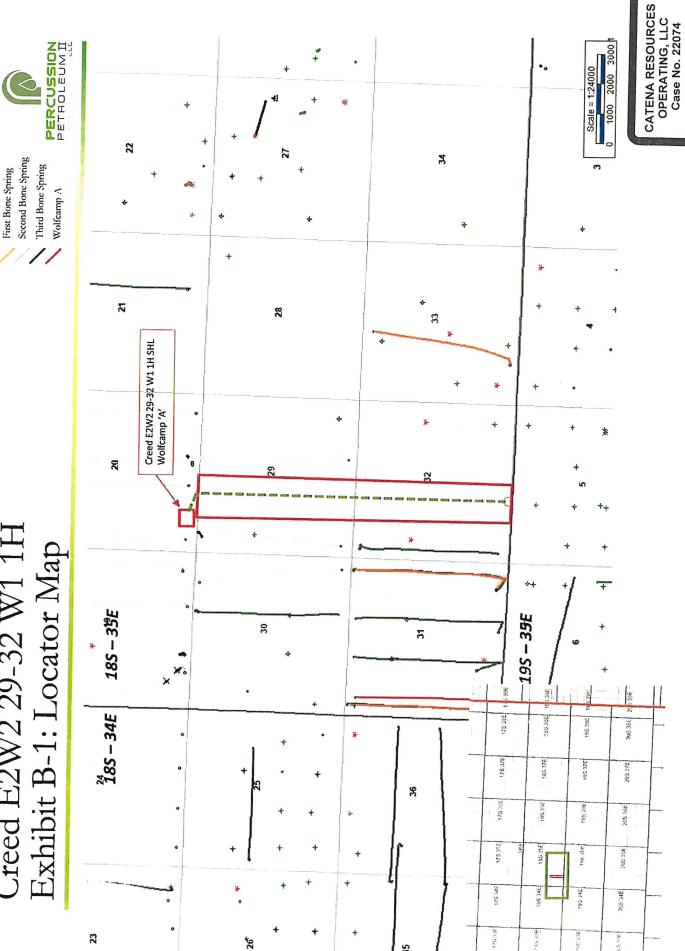


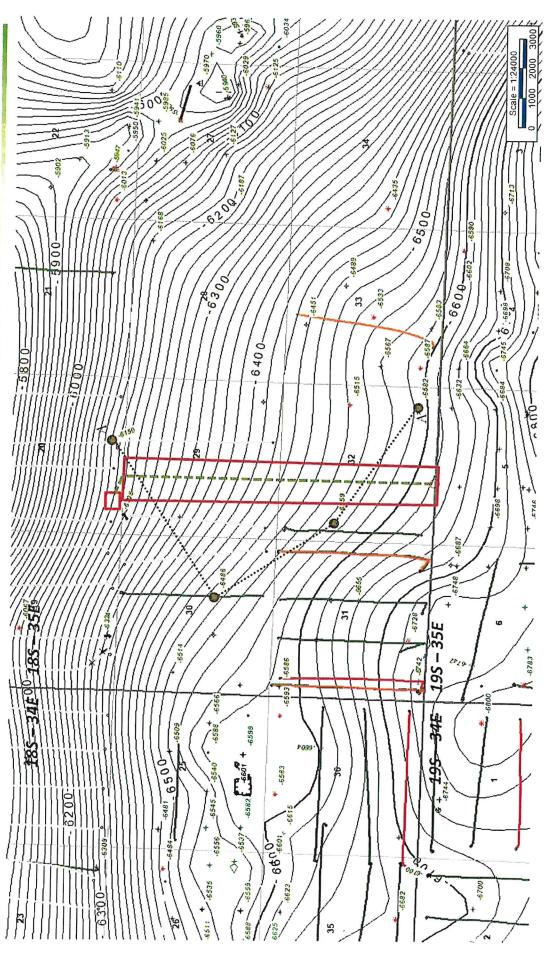
Exhibit B-1

# Exhibit B-2: Wolfcamp 'A' Structure (Subsea TVD-ft) wolfcamp A Creed E2W2 29-32 W1 1H



Third Bone Spring

First Bone Spring



Contour Interval = 20°

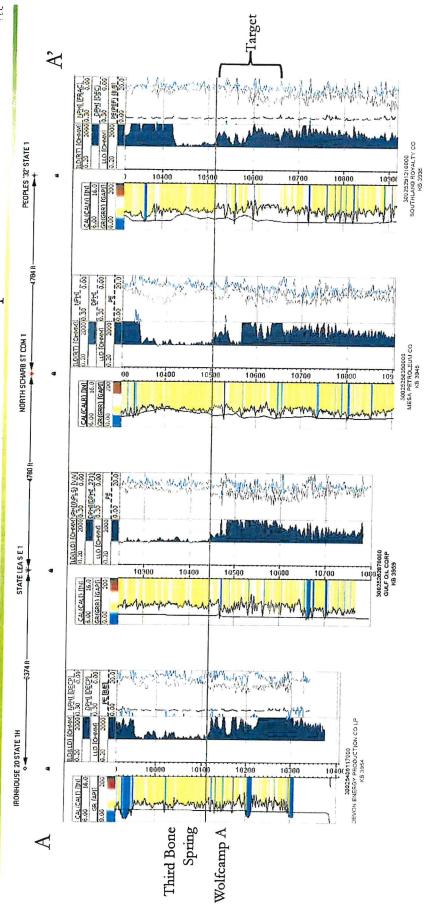
CATENA RESOURCES OPERATING, LLC Case No. 22074

Exhibit B-2

Creed E2W2 29-32 W1 1H

Exhibit B-3: Stratigraphic Cross section A-A' - Wolfcamp 'A' Datum





CATENA RESOURCES OPERATING, LLC Case No. 22074

Exhibit B-3

