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

CASE NO. 22717

EXHIBIT INDEX

Compulsory Pooling Checklist for Case No. 22717

Exhibit A	Self-Affirmed Statement of Cato Clark			
A-1	Application & Proposed Notice of Hearing			
A-2	C102s for Wells			
A-3	Plat of Tracts, Ownership Interests, Uncommitted Interests to be Pooled			
A-4	Sample Well Proposal Letter and AFEs			
A-5	Chronology of Contact			
Exhibit B	Self-Affirmed Statement of Catherine Henry			
B-1	Resume of Catherine Henry			
B-2	Regional Locator Map			
B-3	Wolfcamp – Structure Map			
B-4	Stratigraphic Cross-Section			
B-5	Gross Isopach Map			
Exhibit C	Self-Affirmed Statement of Dana S. Hardy			
C-1	Sample Notice Letter to All Interested Parties			
C-2	Chart of Notice to All Interested Parties and Certified Mail Receipts			
C-3	Affidavit of Publication for April 7, 2022			

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case No.:	22717
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	Mariner
Formation/Pool	
Formation Name(s) or Vertical Extent	Wolfcamp
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Wolfcamp Formation
Pool Name and Pool Code	Scharb; Wolfcamp (55640)
Well Location Setback Rules	Standard
Spacing Unit Size	320
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	320
Building Blocks	quarter-quarter sections
Orientation	North/South
Description: TRS/County	E/2 W/2 of Sections 6 and 7, Township 19 South, Range 35 East,
	Lea County, NM
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	No
Well(s)	
Name & API (if assigned), surface and bottom hole location,	Add wells as needed
footages, completion target, orientation, completion status	
(standard or non-standard)	
Well #1	Mariner E2W2 06 07 W1 State Com 1H (API # pending)
	SHL: 422' FNL & 2349' FEL, Unit B, Section 18, T19S-R35E
	BHL: 100' FNL & 1980' FWL, Unit C, Section 6, T19S-R35E
	Completion Target: Wolfcamp (Approx. 10,870' TVD)
	Well Orientation: South to North
Horizontal Well First and Last Take Points	Exhibit A-2
Completion Target (Formation, TVD and MD)	Exhibit A-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
Proposed Notice of Hearing Proposed Mailed Notice of Hearing (20 days before hearing)	
riour or maried wolice of meaning (20 days before nearing)	Exhibit C-1, C-2

Received by OCD: 5/3/2022 10:06:18 AM	Page 3 of 32
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

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

CASE NO. 22717

SELF-AFFIRMED STATEMENT OF CATO CLARK

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

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

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

4. Catena seeks an order pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2 W/2 of Sections 6 and 7, Township 19 South, Range 35 East, Lea County, New Mexico.

5. The Unit will be dedicated to the Mariner E2W2 06 07 W1 State Com 1H well ("Well"), which will be horizontally drilled from a surface location in the NW/4 NE/4 (Unit B) of Section 18 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 6.

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

7. The Well is located in the Scharb; Wolfcamp Pool (Code 55640).

1

Catena Resources Operating, LLC Case No. 22717 Exhibit A 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.

2

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.

~

4-28-22

Cato Clark

Date

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

Case No. 22717

APPLICATION

Pursuant to NMSA § 70-2-17, Catena Resources Operating, LLC ("Applicant") applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2W/2 of Sections 6 and 7, 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 **Mariner E2W2 06 07 W1 State Com 1H** well ("Well"), which will be horizontally drilled from a surface location in the NW/4 NE/4 (Unit B) of Section 18 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 6.

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.

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 May 5, 2022 and that, after notice and hearing, the Division enter an order:

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

Respectfully submitted,

HINKLE SHANOR LLP

<u>/s/ Dana S. Hardy</u> Dana S. Hardy Jaclyn McLean P.O. Box 2068 Santa Fe, NM 87504-2068 Phone: (505) 982-4554 Facsimile: (505) 982-8623 dhardy@hinklelawfirm.com jmclean@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 Wolfcamp formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2 W/2 of Sections 6 and 7, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Mariner E2W2 06 07 W1 State Com 1H well ("Well"), which will be horizontally drilled from a surface location in the NW/4 NE/4 (Unit B) of Section 18 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 6. Also to be considered will be the cost of drilling and completing the Well and the allocation of the cost, the designation of Applicant as the operator of the Well, and a 200% charge for the risk involved in drilling and completing the Well. The Well is located approximately 18 miles west of Hobbs. DISTRICT J 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Form C-102

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, N.M. 87505 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ A	¹ API Number			*Pool C 40	ode	⁹ Pool Name Scharb; Wolfcamp				
⁴ Property	Code		⁶ Property Name Mariner E2W2 07 06 W1 State Com						^e Well Number 1H	
" OGRID	No.	_		marin	[®] Operator		1		⁹ Elevation	
3284				Cater	Catena Resources Operating, LLC				3883	
						Location				
UL or lot no.	. Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
В	18	19 S	35 E		422	North	2349	East	t Lea	l
			¹¹ Botte	om Hol	e Location If	f Different Fro	m Surface			
UL or lot no.	. Section	Townshi		Lot Idn	Feet from the	North/South line	Feet from the	East/West	t line County	
С	6	19 S	35 E	Lot 3	100	North	1980	Wes	t Lea	1
¹⁸ Dedicated Ad	cres		¹⁸ Joint or	Infill ¹⁴ C	onsolidation Code	¹⁵ Order No.				
	320									
NO ALLO	WABLE					ON UNTIL ALL			EN CONSOLID	ATED
	F F	OR A	NON-STA	NDARD	UNIT HAS BI	EEN APPROVED				
16 1980'		00'			SCALE: 1	* =3000'			CERTIFICAT	
LOT 4		LOT 2 LOT	г 1		SURFACE		true and compl	ete to the bes	ermation contained her t of my knowledge and	d belief,
	3				NAD 83 SEC. 18, T	5 NME	or unleased mi	neral interest	ither owns a working i in the land including	the
LOT 5					Y=60731 X=79911	2.36 N			e or has a right to dri it to a contract with a	
	Sec	ction 6			LAT.=32.66 LONG.=103.4	67515' N			working interest, or to or a compulsory poolis	
LOT 6					LONG.= 103.4	1930708 W	heretofore enter			
		egend:			FIRST TAK					
	37	= Surfac			NAD 83 100' FSL,	1980' FWL	Byson	Barr		000
LOT 7	_		n Hole Location ake Point (FTF		SEC. 7, T19S, R35E Y=607824.58 N y=708147.56 F			Varn	Date 04/22/20	
	3				X=79814 LAT.=32.66		Byron	W. Barn		
LOT 1	15				LONG.=103.4	1987854° W	Printed Nam	ne		
LOT 2					BOTTOM HOL	F LOCATION	E-mail Add		ares.com	_
					NAD 83 SEC. 6, T1	3 NME	E-man Add	. 635		
		ection 7			Y=61819 X=79806	95.64 N	¹⁸ SUR	VEYOR	CERTIFICATIO	ON
LOT 3					LAT.=32.69 LONG.=103.4	66859" N			l location shown on the	
					LONG 103	1907074 W			of actual surveys mad d that the same is tru	
LOT 4					CORNER COORI	DINATES TABLE	correct to the b	est of my bel	ief.	
1980' (>			NAD 83 A - Y= 606400.61		1/13/2			
100'-	\uparrow	422'	49'	1	3 - Y = 606406.16	N, X= 800143.40 E N, X= 797482.14 E	Date of Surve Date Revised:	3/28/22	NIL WELL	
LOT 1	1 /1			1	- Y = 607733.76		Signature and	i Seel of Pro	www.onal Surveyor	
	W ICO	A B			- Y= 618297.82	N, X= 798684.07 E			MEYCLE	1
	0.36'				CORNER COORI			N/ alle	11070	4
LOT 2	Section	18			LAT.=32.6642519" N	, LONG.=103.4966310" , LONG.=103.4923367"		" lu	((0))	
LOT 3				C –	LAT.=32.6678943' N	, LONG.=103.4923387 , LONG.=103.5009504* , LONG.=103.4966295*	W	12	42.22	./
				E –	LAT.=32.6969691° N	, LONG.=103.4966293 , LONG.=103.5010698 , LONG.=103.4967737	W	1ºFE	COM CURVE	/
LOT 4					LAT.=32.0303333 N	, LUNG 103.4907737	" 17078		VIUNAL SUT	
							Certificate Nu	umber		
,	Catena Resources Operating, LLC									

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Case No. 22717 Exhibit A-2

EXHIBIT A-3 Mariner E2W2 07 06 W1 State Com 1H Proposed Wolfcamp Spacing Unit Lea County, New Mexico E2W2 Section 7 & 6 - T19S - R35E

Parties to COG Oper Occidenta	esources Operating (CRO) be Pooled rating LLC (COG) al Permian, LP (Oxy) ings, LLC (XTO) <u>Total</u>	56.23% 12.51% 25.01% 6.25% <u>100.00%</u>	Tract 1 100% CRO	Section 6
Tracts				
Tract 1	E/2 NW/4 & NE/4 SW/4	Section 6	Tract 2	
Tract 2	SE/4 SW/4	Section 6	100% COG	
Tract 3	E/2 NW/4	Section 7		
Tract 4	NE/4 SW/4	Section 7		
Tract 5	SE/4 SW/4	Section 7	Tract 3 100% OXY	
				Section 7
			Tract 4 50% XTO 50% CRO	
			Tract 5 100% CRO	

Catena Resources Operating, LLC Case No. 22717 Exhibit A-3



2/23/2022

Via Certified Mail: 9314 8699 0430 0092 2116 85

COG Operating, LLC c/o ConocoPhillips Attn: Baylor Mitchell 600 W. Illinois Ave. Midland, TX 79701

RE: Mariner E2W2 06 07 W1 State Com 1H E/2 W/2 Section 6 T19S R35E, E/2 W/2 Section 7 T19S R35E Lea County, NM

Dear Working Interest Owner,

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

Well Name	SHL	BHL	Target Formation	Proposed TVD	Proposed TMD
Mariner E2W2 06 07 W1 State Com 1H	420' FNL, 2330' FEL, 18-19S-35E	100' FNL, 1980' FWL, 6-19S-35E	Wolfcamp A	10,870'	22,000'

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

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

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

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

Best regards,

7/

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

1001 Fannin St. 22nd Floor Houston, TX 77002 *Released to Imaging: 5/3/2022 11:12:41 AM*



Catena Resources Operating, LLC Case No. 22717 Exhibit A-4

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

	EVECUTION	THE CRACE PR		THE UNDERCICNED.
BY ITS INITIALS &	EXECUTION IN	THE SPACE PR	OVIDED BELOW,	THE UNDERSIGNED:

CONSENTS TO PARTICIPATE TO THE FULL EXTENT OF ITS INTEREST IN THE PROPOSED OPERATION(S) AND BEAR ITS PROPORTIONATE SHARE OF ALL COSTS AND EXPENSES ASSOCIATED THEREWITH

OR

DOES NOT CONSENT TO PARTICIPATE IN THE PROPOSED OPERATION(S)

OR

REQUESTS CATENA DELIVER A TERM ASSIGNMENT FOR REVIEW AND EXECUTION

COG Operating, LLC c/o ConocoPhillips

Ву: _____

Title: _____

Date: _____



A12		WELL	. COST ESTIMATE				24	AFE NO. P2111B
	Ma	niner E2W2	05 07 W1 State Corn 1 H		DATE:		2/23/2022	
RESDURCES LOCATION: COUNTY/ST:			n 7-T 185-R35E		START DATE: COMPLETE DATE:			
COUNTY/SI:		Lei Ipper Frac 5	a County, NM I stages and POL with ES	P and Building	ORIGINAL: SUPPLEMENT:			
INTANGIBLE COSTS		ACCT 9250	DRULLING	ACCT CODE	COMPLETION	ACCT	FACILITIES	TOTAL
urvey/Staking/Permits/Bonds	1	9251	\$100,000 \$25,000	9400 9401	\$10,000	9501 9502		\$100.0 \$35,0
ow / Surface Damages oc Rsrv Pit Construction		9252 9253	\$25,000 \$100,000	9402 9403		9512 9510		\$25.0 \$100,0
d & Loc Rerv Pit Reclamation rac Pond		9254 9255		9404 9405	\$25,000			
ate Guard ouseRathole/Conductor		9256		9405	\$23,000			\$25.0
obilization / Demobilization		9257 9258	\$25.000 \$135.000	9407				\$25.0
rilling - Daywork rilling - Footage		9259 9260	\$600.000	-				\$600,0
rilling - Turnkey		9261			-			
ompletion/ Snubbing / Wo Unit railer House / Communications	- 1	9262 9263	\$15,000	9408 9409	\$20,000			\$20.0
rill Bits irectional Equlp/Gyro Surveys		9264	\$60,000	9410		į I		\$60,0
ownhole Tool / Stabil Rental		9265 9266	\$250,000 \$35,000	9411 9412	\$65,000			\$250,0
ud / Chemicals uel / Power	- 1	9267 9268	\$165,000 \$150,000	9413 9414	\$5,000 \$40,692			\$170,0
later Supply Well Equipment later / Water Hauling		9269 9270		9415 9416				
ffsite Water/Cutting Disposal	- 1	9271	\$80,000	9417	\$468,288 \$45,000			\$468.2
ransportation / Hauling spection/Tubular Testing		9272 9273	\$40,000 \$25,000	9418 9419		9509		\$40,0
aydown Machine/Cast Crew/Tong		9274	\$25,000	9420				\$25.
ement Float Equip & Services lud Logging		9275 9276	\$150,000 \$40,000	9421				\$150,0
ogging - Open Hole ogging - Cased Hole		9277 9278		9422 9423				SVAL
oring/Analysis Drill Stem Tst		9279						
erforating /ireline / Slickline Services		9280 9281		9424 9425	\$285,500		-	\$285,
quipment Rental umping Servicas / Rental		9282	\$160,000	9426	\$223,980	9511		\$383.
cidizing & Fracturing		9283 9284		9427 9428	\$57,500			\$57,
oil Tubing Unit Iow Testing Swabbing		9285 9286		9429 9430	\$412,500 \$73,038			\$412. \$73
ishing/Sidetrack Services		9287		9431	****			
ipple Up / Bope Testing verhead		9288 9289	\$20,000	9432 9433				\$20.0
/ellsite Consult Serv/Supervis ng/Geo/Lab Trace Diagnostics	- 1	9290 9291	\$105,000	9434 9435	\$93,557	9503 9515		\$198,
oustabout / Contract Labor		9292	\$120,000	9436	\$20,000	9504		\$140,
/elding Services isurance	- 1	9293 9294	\$15,000	9437 9438		9505		\$15.
liscellaneous & ACosts	I	9295 9296		9439 9440	\$100,000	9306		\$100,
afety / Eh&S	- 1	9297		9441		9507		
ontingency on-Op Drilling Intangible	- 1	9298 9299		9442 9443	\$133,202	9514 9513		\$133.3
ipeline Install/ Interconnect	I	9300		9444		9508		
acility Instellation					175.000			\$175.0
BD BD	- 1							
BD BD	- 1							
	- 1							
TOTAL INTANGIBLE COSTS			\$2,515,000		RANKA OFF			
	4		\$2,515,000		\$4,753,255		\$0	\$7,268,
TANGIBLE COSTS		ACCT		ACCT CODE	COMPLETION	ACCT	FACILITIES	\$7,268,
	§∕Ft			ACCT CODE		ACCT		1
conductor		9350	DRILLING	ACCT CODE		ACCT		TOTAL
Image: Second	\$/Ft \$56.00 39.00	9350 9351 9352		ACCT CODE		ACCT		1
ionductor kurloce Casing 13-3/6° 2,000	\$56.00	9350 9351	DRILLING \$112,000	ACCT CODE		ACCT		TOTAL \$112.
ionductor iurr/soc Casing is Intermediate Casing / Liner ind I	\$56.00 39.00	9350 9351 9352	DRLLING \$112,000 \$156,000	9451 9452		ACCT		TOTAL \$112. \$156.
enductor urrace Casing urrace Casing / Liner st Intermediate Casing / Liner roduction Casing / Liner seduction Casing / Liner seduction Casing / Liner seduction Casing / Liner field Rack here Hanger Assembly ubing	\$56.00 39.00	9350 9351 9352	DRILLING \$112,000 \$158,000 \$462,000	9451 9452 9453 9454		ACCT		TOTAL \$112.4 \$156. \$462.4 \$60.4
onductor unrece Casing unrece Casing / Liner st Intermediate Casing / Liner of Untermediate Casing / Liner aning Tie Back Inter Hanger Assembly Ublog auring Equipment - OHMS / Etc.	\$56.00 39.00	9350 9351 9352	DRLLING \$112,000 \$156,000	9451 9452 9453	COMPLETION	ACCT		TOTAL \$112. \$156. \$462. \$60. \$15.
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onductor unrace Casing unrace Casing / Liner asing Tie Back there Hanger Assembly ubing taking Equipment - OHMS / Etc. //elihead Equipment umphog Unit / Prime Mover / Base tods / Pony Rods / Sinker Bars stificial Lift Other - ESP	\$56.00 39.00	9350 9351 9352 9353	DRILLING \$112,000 \$156,000 \$462,000 \$15,000	9451 9452 9453 9454 9455 9455 9455 9457 9458 9459	COMPLETION	9521 9522 9523		TOTAL \$112. \$156, \$462. \$60, \$15, \$65,
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Exhibit A-5

Catena Resources Operating, LLC – Mariner E2W2 06 07 W1 State Com 1H Discussion Timeline

COG Operating LLC c/o ConocoPhillips Company

Catena Resources Operating, LLC sent original well proposals on February 23, 2022. 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.

Occidental Permian, LP

Catena Resources Operating, LLC sent original well proposals on February 23, 2022. At such time, Catena and Occidental Permian, LP were already engaged in discussions regarding the proposed well. Catena and Occidental Permian, LP are in ongoing discussions on the well proposal.

XTO Holding, LLC

Catena Resources Operating, LLC sent original well proposals on February 23, 2022. At such time, Catena and XTO Holdings, LLC were already engaged in discussions regarding the proposed well. Catena and XTO Holdings, LLC are in ongoing discussions on the well proposal.

Catena Resources Operating, LLC Case No. 22717 Exhibit A-5

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

CASE NO. 22717

SELF-AFFIRMED STATEMENT OF CATHERINE HENRY

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

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

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

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

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

Catena Resources Operating, LLC Case No. 22717 Exhibit B

1

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

6. **Exhibit B-3** also shows a cross-section line in red running North to South reflecting three wells penetrating the Wolfcamp formation that I used to construct a stratigraphic cross-section from A to A'. These wells contain good logs and I consider them representative of the geology in the subject area.

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

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

9. In my opinion the stand-up orientation of the proposed well is the preferred orientation for horizontal well development in this area and is appropriate to efficiently and effectively develop the subject acreage.

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

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

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

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

Cathing Henry

4/27/2022

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

Received by OCD: 5/3/2022 10:06:18 AM

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

- Responsible for providing geological support for horizontal drilling program ٠
- Utilizing subsurface technical analysis to plan pad locations and development pattern well layouts for multi-bench development
- Providing subsurface analysis and guidance on SWD well locations and interval of interest

GULF COAST SEQUESTRATION – Houston, TX

Geologist – Contract

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

OASIS PETROLEUM – Houston, TX

Geologist II

- Utilized SWD geologist role to de-risk inventory by identifying drill risk in core acreage areas and assisting with new casing • design. This yielded program management accomplishments with significant business impact:
 - Planned and took on geological responsibilities for a 12 well drilling program
 - Successfully managed ideas across different functional groups; implemented new working standard for the 0 organization on drilling operations through over-pressured corridors.
- Portfolio Management: risk ranked core acreage (404k net acres) at the DSU level and assigned cost with each risk tier. Resulted in capital inputs for project economics for every DSU to support corporate planning group.

Geologist I

- Redesigned saltwater disposal (SWD) geologist role that successfully impacted both upstream and midstream businesses.
 - Developed geologic interpretation of complex fluvial/deltaic Invan Kara stratigraphy across Williston Basin that 0 significantly impacted well planning and operations.
 - Collaborated with cross-functional team of reservoir and facility engineers to characterize conventional reservoir. 0
 - Spearheaded successful material balance and decline curve analysis to achieve pore volume of reservoir and tie back 0 to reservoir pressure. Completed analysis of pressure fall-off tests of 10+ wells used to predict EUI of saltwater disposal wells in sand tank.
 - 0 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 0 formations.
 - Generated structure and isopach maps of target formations; produced geoprogs for permitting. 0
 - Proactively communicated with drilling/execution team as well as field personnel on geohazards and target changes. 0
 - Partnered with completions engineers on frac recommendation design; identified geohazards in the area 0 (Lodgepole, Pronghorn thick, offset Mission Canyon production); utilized microseismic data.

CENTERPOINT ENERGY – Houston, TX

Project Lead – Infrastructure Data Specialist

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

9/2021 - 11/2021

12/2021-Present

7/2017 - 1/2020

8/2016 - 7/2017

1/2020 - 3/2021

2017 - 2021

EDUCATION

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

RELATED EXPERIENCE

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

ENERVEST, LTD. – Houston, TX

Geoscience Intern

 Completed multiple geologic projects in the Fort Worth Basin, Texas. Results yielded structure maps for the Atoka, Bend, and Marble Falls Formations, net pay maps, and cross-sections.

Exhibit B-1

MS in Geology, 2016

Oxford, MS

University of Mississippi

• Used 2D and 3D seismic profile mapping and well log correlation on IHS Kingdom (SMT) to focus on recompletion opportunities up-hole of the Barnett Shale. Project concluded production to be associated with stratigraphic traps rather than structural, with several legacy wells as recompletion candidates.

JURA-SEACH, INC. – Jackson, MS

Geoscience Intern

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

SKILLS & TRAINING

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

Nautilus Training:

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

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

HONORS, AWARDS & AFFILIATIONS

Mississippi Geological Society - Boland Scholarship Recipient	2014
Awarded to one student from each institution in Mississippi for ha	ard work and dedication to the geosciences and community.
Mississippi Academy of Science	2014
Best oral presentation in Geology and Geography division at the M	ississippi 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 out	standing 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

Page 20 of 32

Summer 2015; Winter 2014 - 2015

BS in Geology, 2014

Graduated with Honor

Millsaps College, Jackson, MS

Fall 2012 - Summer 2014

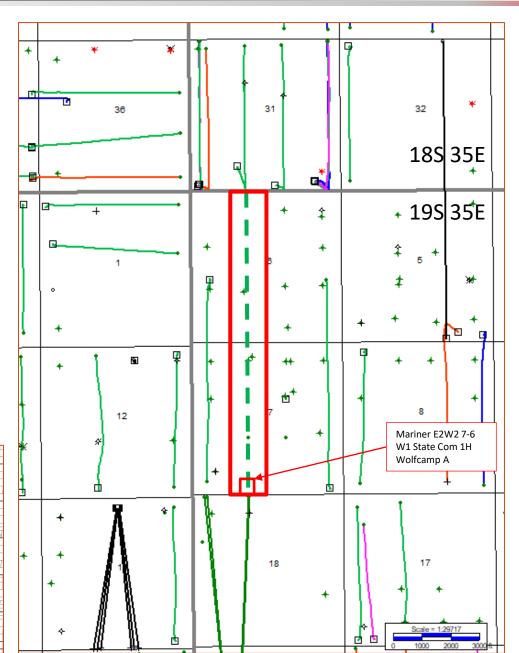
8/2014 - 5/2016

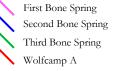
Marinely 22W 2377-62 W 16 State Com 1H

Exhibit B-2: Locator Map

Catena Resources Operating, LLC Case No. 22717 Exhibit B-2







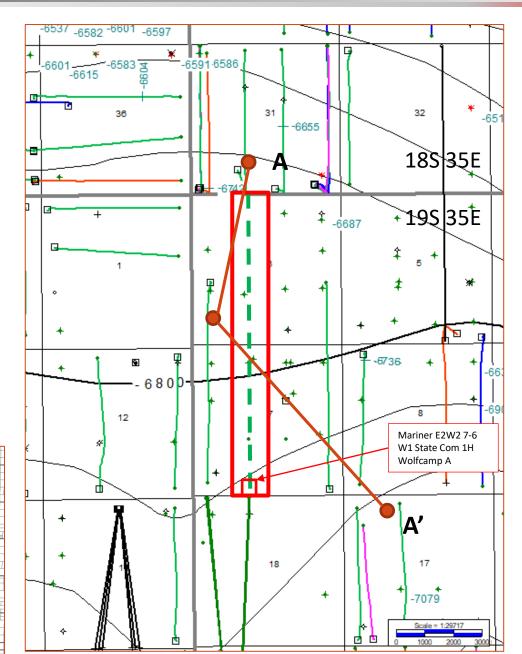


Marine W 22W 237962 W 16 State Com 1H Exhibit B-3: Wolfcamp Top SSTVD Catena Resources Operating, LLC Case No. 22717

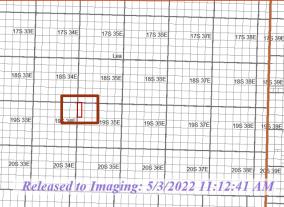
Exhibit B-3

Contour Interval = 100'





First Bone Spring
Second Bone Spring
Third Bone Spring
Wolfcamp A

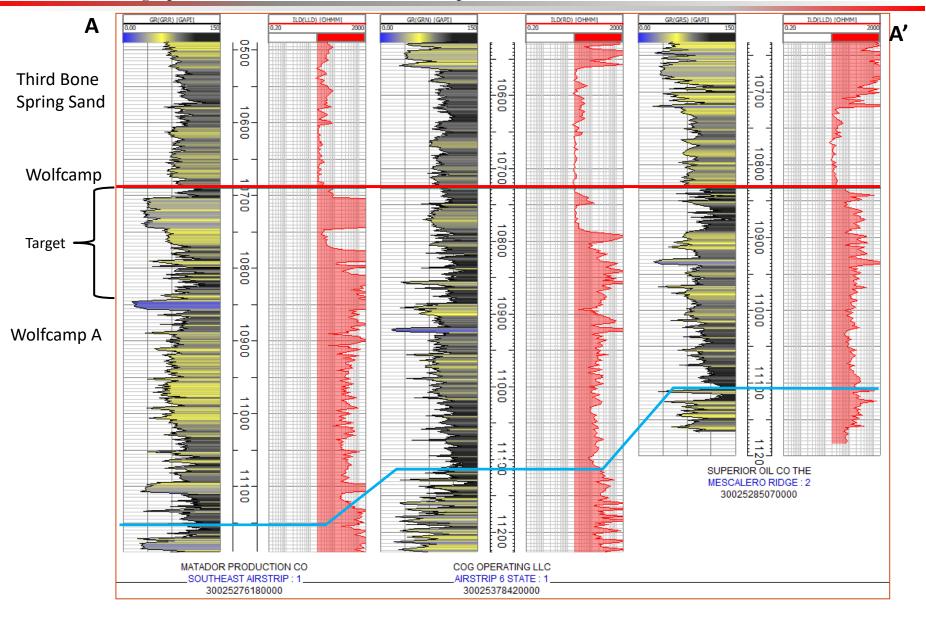




Catena Resources Operating, LLC Case No. 22717

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

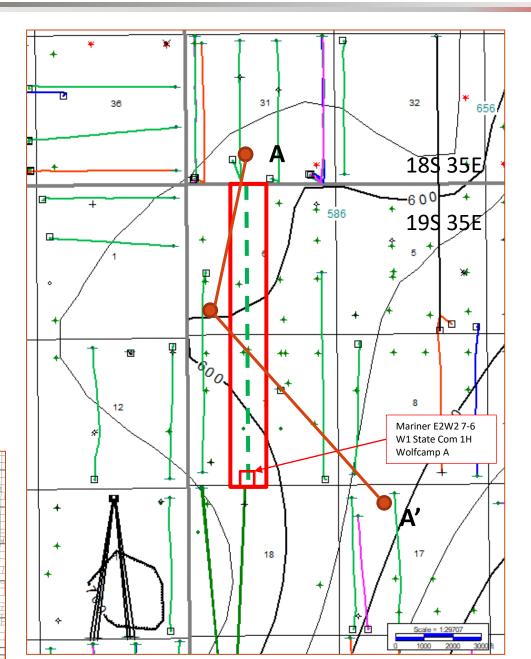


Mariner E2W2 5/36203210:06:18 Com 1H Exhibit B-5: Wolfcamp A Gross TVT Catena Resources Operating, LLC

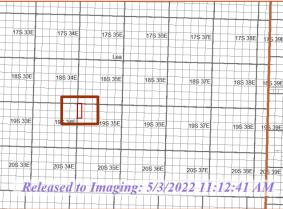
Case No. 22717 Exhibit B-5

Contour Interval = 50'





First Bone SpringSecond Bone SpringThird Bone SpringWolfcamp A



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

CASE NO. 22717

<u>SELF-AFFIRMED STATEMENT</u> 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 April 7, 2022, I caused a notice to be published to all interested parties in the Carlsbad Current Argus. An Affidavit of Publication from the Legal Clerk of the Hobbs News-Sun, along with a copy of the notice publication, is attached as **Exhibit C-3**.

/s/ Dana S. Hardy____ Dana S. Hardy <u>5/3/22</u> Date

Catena Resources Operating, LLC Case No. 22717 Exhibit C



HINKLE SHANOR LLP

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

March 31, 2022

WRITER:

Dana S. Hardy, Partner dhardy@hinklelawfirm.com

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Case No. 22717 - 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 May 5, 2022 beginning at 8:15 a.m.

During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: <u>http://www.emnrd.state.nm.us/OCD/</u> <u>announcements.html</u>. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or 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

Catena Resources Operating, LLC Case No. 22717 Exhibit C-1

Enclosure

PO BOX 10 ROSWELL, NEW MEXICO 88202 575-622-6510 (FAX), 575-623-8332 Released to Imaging: 5/3/2022 11:12:41 AM

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

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

Case No. 22717

NOTICE LETTERS

PARTY	NOTICE LETTER SENT	RETURN RECEIVED
COG Operating, LLC	03/31/22	04/18/22
c/o ConocoPhillips		
Attn: Baylor Mitchell		
600 W. Illinois Avenue		
Midland, TX 79701		
Jack P. Hooper GST Trust	03/31/22	4/14/22
Attn: Jack P. Hooper, Trustee		
5511 E. 89 th Court		
Tulsa, OK 74137		
Occidental Permian, LP	03/31/22	04/08/22
Attn: Clay Carroll		
5 Greenway Plaza, Ste. 110		
Houston, TX 77046-0521		
XTO Holdings, LLC	03/31/22	4/11/22
Attn: Bryan Cifuentes		
22777 Springwoods Village Pkwy.		
Spring, TX 77389		

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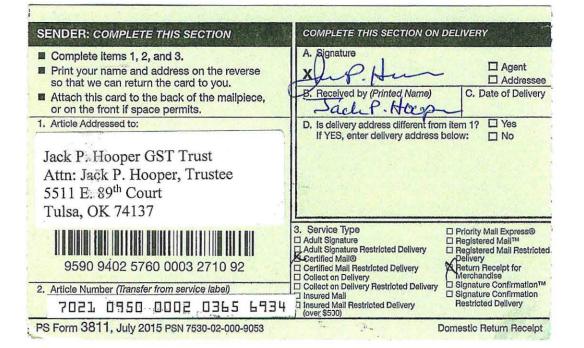
1927	U.S. Postal Service" CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com*.
unnz 0365 6	Hourn Rescript (electronic) Sector Restricted Delivery
	Adult Signatuse Headsored Postage S Total Postage and Fees S Sent To COG Operating LLC c/o ConocoPhillips Sireet and / Atm. Baylor Mitchell 600 W. Illinois Avenue City, State, Midland, TX 79701 PS Form 3800; April 2015 PSN7590-02-000-6047 See Reverse for Instructione
	PS Form 3800, April Sale

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
 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. Article Addressed to: COG Operating LLC c/o ConocoPhillips Attn: Baylor Mitchell 600 W. Illin bis Ave. Midland, TX 79701 	A. Signature M. Clifford B. Received by (Printed Name) C. is delivery address different from If YES, enter delivery address to	Agent Addressee C. Date of Delivery item 1? Yes pelow: No
9590 9402 5760 0003 2710 85 2. Article Number (Transfer from service label) 7021 0950 0002 0365 6927	Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500)	Priority Mail Express® Registered Mail TM Registered Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmation TM Signature Confirmation Restricted Delivery

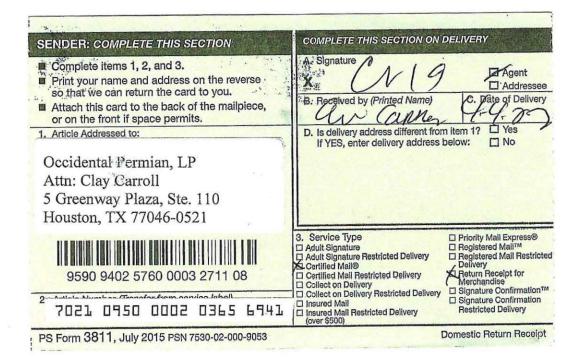
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PS Form 3800, April 2015 PSN 7530-02-000-904











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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 April 07, 2022 and ending with the issue dated April 07, 2022.

Publisher

Sworn and subscribed to before me this 7th day of April 2022.

Business Manager

My commission expires January 29, 2023 (Seal) GUSSIE BLACK Notary Public - State of New Mexico Commission # 1087526 My Comm. Expires Jan 29, 2023

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

April 7, 2022

This is to notify all interested parties, including COG Operating LLC c/o ConocoPhillips; Jack P. Hooper GST Trust; Occidental Permian, LP; XTO Holdings, 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. 22717). 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 May 5, 2022, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website for that date: http://www.emr.d.state.nm.us /OCD/hearings.html. Applicant applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation underlying a 320-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the E/2 W/2 of Sections 6 and 7, Township 19 South, Range 35 East, Lea County, New Mexico. The Unit will be dedicated to the Mariner E2W2 06 07 W1 State Com 1H well ("Well"), which will be horizontally drilled from a surface location in the NW/4 NE/4 (Unit B) of Section 18 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 6. Also to be considered will be the cost of drilling and completing the Well and the allocation of the well, and a 200% charge for the risk involved in drilling and completing the Well. The Well is ilocated approximately 18 miles west of Hobbs. #37519

02107475

GILBERT HINKLE, SHANOR LLP PO BOX 2068 SANTA FE, NM 87504 00265548

Catena Resources Operating, LLC Case No. 22717 Exhibit C-3

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