



2/22/2022

Via Online Portal

State of New Mexico
Oil Conservation Division
1220 S. St Francis Drive
Sante Fe, New Mexico 87505

RE: Application of Catena Resources Operating, LLC
for Approval of Surface Lease Commingling
Lea County, NM
Rambo E2 08-17 State Com 1H (30-025-49535)
Rambo E2 08-17 State Com 2H (30-025-49536)
Cable 19-35-09 State Com 1H (30-025-46140)

Dear Mr. McClure,

Please find the attached OCD Form C-107B application for Surface Commingling for the
aforementioned wells.

The working interest, royalty interest, and overriding interest owners are not identical; and
notification has been sent via certified mail (please see attached).

Should you have any questions or need further assistance, please do not hesitate to contact me.

Best regards,

A handwritten signature in blue ink, appearing to read 'Cato Clark', with a stylized flourish at the end.

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



District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 S. St Francis Drive
Santa Fe, New Mexico 87505

Submit the original
application to the Santa Fe
office with one copy to the
appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME: Catena Resource Operating, LLC

OPERATOR ADDRESS: 1001 Fannin Street, 22nd floor, Houston, TX 77002

APPLICATION TYPE:

☐ Pool Commingling ☐ Lease Commingling ☒ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingling)

LEASE TYPE: ☒ Fee ☒ State ☐ Federal

Is this an Amendment to existing Order? ☐ Yes ☒ No If "Yes", please include the appropriate Order No. _____

Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling

☒ Yes ☐ No

(A) POOL COMMINGLING

Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes
See Attached					

(2) Are any wells producing at top allowables? ☐ Yes ☒ No

(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No

(4) Measurement type: ☒ Metering ☐ Other (Specify)

(5) Will commingling decrease the value of production? ☐ Yes ☒ No If "yes", describe why commingling should be approved

(B) LEASE COMMINGLING

Please attach sheets with the following information

- (1) Pool Name and Code.
- (2) Is all production from same source of supply? ☒ Yes ☐ No
- (3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No
- (4) Measurement type: ☒ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING

Please attach sheets with the following information

- (1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT

Please attached sheets with the following information

- (1) Is all production from same source of supply? ☒ Yes ☐ No
- (2) Include proof of notice to all interest owners.

(E) ADDITIONAL INFORMATION (for all application types)

Please attach sheets with the following information

- (1) A schematic diagram of facility, including legal location.
- (2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.
- (3) Lease Names, Lease and Well Numbers, and API Numbers.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE:  TITLE: Vice President, Land DATE: 2-22-22

TYPE OR PRINT NAME: Cato Clark TELEPHONE NO.: 346-200-7894

E-MAIL ADDRESS: clark@catenares.com

APPLICATION FOR A CENTRAL TANK BATTERY**Proposal for the Cable CTB**

Catena Resources Operating, LLC is requesting approval for a Central Tank Battery for the following wells.

1. CABLE 19 35 9 STATE COM #001H: Location: M-4-19S-35E: API: 30-025-46140: Pool [55640] Scharb; Wolfcamp; See attached for Production and Oil, Gas and Water Analysis.
2. RAMBO E2 08 17 STATE COM #001H: Location: P-5-19S-35E: API: 30-025-49535: Pool [55640] Scharb; Wolfcamp; Expected Well Completion March, 2022. Expect Oil, Gas and Water Analysis to be similar to the attached for the Cable.
3. RAMBO E2 08 17 STATE COM #002H: Location: P-5-19S-35E: API: 30-025-49536: Pool [55640] Scharb; Wolfcamp; Expected Well Completion March, 2022.

Communization Agreements have been submitted and approved for each well, see attached.

Attached are maps that displays the well locations.

Oil and Gas Metering

The central tank battery is located on the Cable 19 35 9 State Com #1H well pad, located in Section 4 T19S R35E in Lea County, New Mexico.

The Cable 19 35 9 State Com #1H, Rambo E2 08 17 State Com #1H, and Rambo E2 08 17 State Com #2H will each flow into their respective 3-phase separator, with oil, water, and gas metered separately. Oil will be metered with a coriolis meter, water with a magnetic flow meter, and gas with an orifice meter.

Oil production from each well will then be commingled into common oil storage tanks with one common oil sales LACT. Oil from the final LACT sales will be allocated to each well based on oil volumes measured by each individual well's coriolis meter. These meters will be calibrated in accordance with API and NMOCD, and BLM specifications.

Gas production from each well will be commingled through one common gas sales meter leaving the facility. Gas sales from this final sales meter will be allocated to each well based on the gas volumes from each individual well gas meter. These meters will be calibrated on a regular basis in accordance with API, NMOCD, and BLM specifications.

Produced water production from each well will be commingled into common produced water storage tanks and then pumped to an offsite disposal facility. Water meters from each well's individual separator will be used to determine the produced water volume from each well. These meters will be calibrated on a regular basis.

Process and Flow Descriptions

The flow of produced fluid is shown in detail on the enclosed facility diagram, along with a description of each vessel and a map indicating the lease boundaries, communization agreement boundaries, and the

location of wells, facility, and gas sales meters. The proposed commingling will maximize the ultimate recovery of oil and/or gas from the leases and will reduce the environmental impacts by minimizing surface disturbance and emissions. The proposed commingling will reduce capital and operating expenses, while not adversely affecting royalty income, production accountability, or the distribution of royalty.

Signed:  Date: 2-22-22

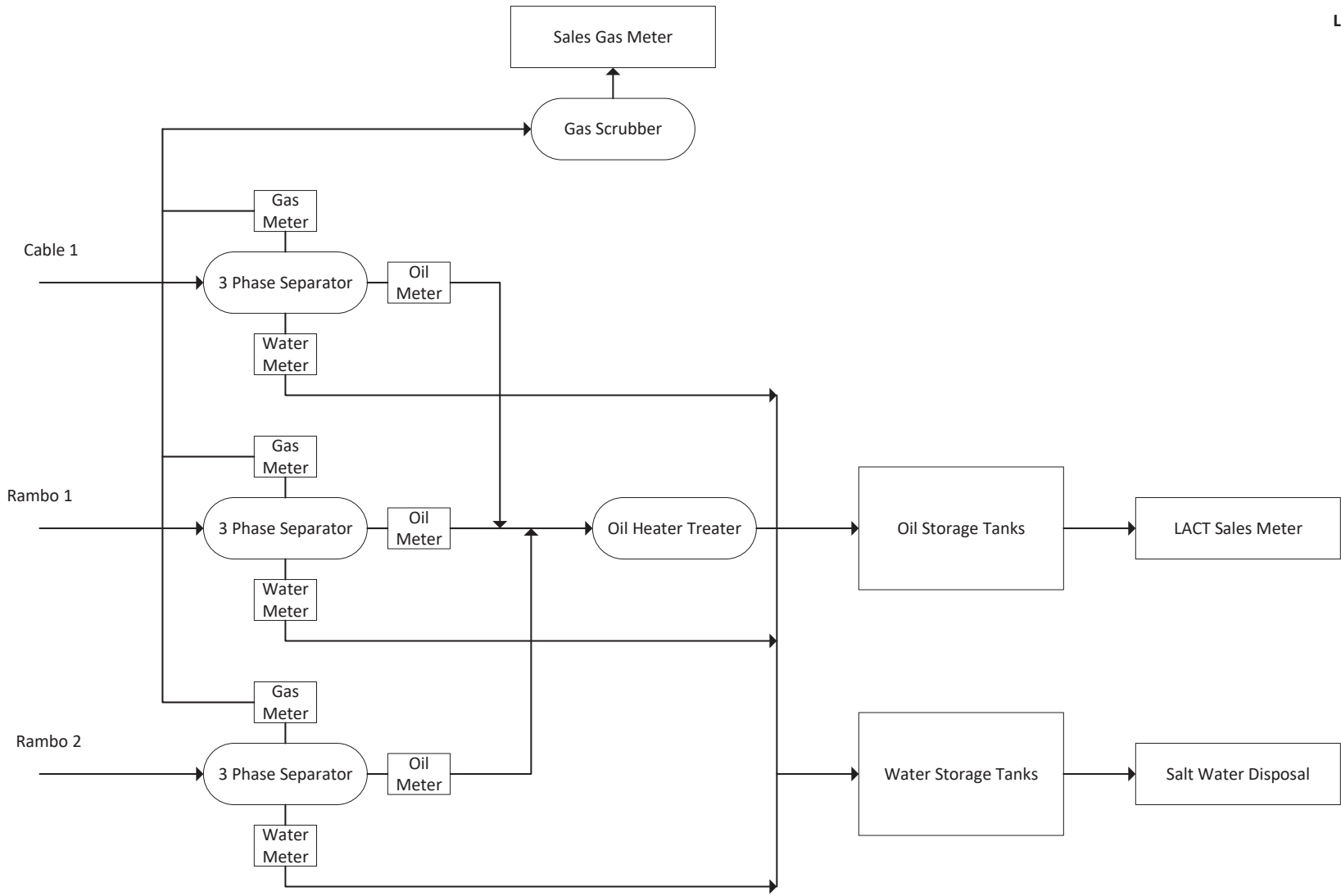
Cato Clark

Vice President, Land

Signed:  Date: 2/22/2022

Daniel Pyziak

Sr. Operations Engineer



**Catena Resources
Operating, LLC**

Project No.:	Drawn by: DMP	Date: 1/24/2022	Scale: Drawing Not to Scale	Cable CTB - Proposed Process Flow Diagram Surface Commingling Permit Application Lea County, NM	
	Checked by: CC	Date: 1/25/2022			

Production Summary Report API: 30-025-46140 CABLE 19 35 9 STATE COM #001H Printed On: Monday, February 21 2022											
		Production					Injection				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2019	[55640] SCHARB;WOLFCAMP	Oct	24578	16102	116929	30	0	0	0	0	0
2019	[55640] SCHARB;WOLFCAMP	Nov	34953	17256	65582	30	0	0	0	0	0
2019	[55640] SCHARB;WOLFCAMP	Dec	34545	16658	19716	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Jan	14741	5851	22486	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Feb	15221	5819	18119	29	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Mar	13936	5673	19663	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Apr	12751	5490	16739	30	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	May	11311	8307	15306	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Jun	9756	7330	13079	30	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Jul	9242	7072	12559	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Aug	5125	4013	6801	18	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Sep	2912	1566	4245	29	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Oct	5703	3037	8287	31	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Nov	5841	3182	7267	30	0	0	0	0	0
2020	[55640] SCHARB;WOLFCAMP	Dec	5913	3529	7619	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Jan	5905	3672	7826	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Feb	5318	3121	6591	28	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Mar	5854	3895	7135	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Apr	5319	3567	6724	30	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	May	5209	3545	6587	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Jun	5218	3562	6460	30	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Jul	4824	3177	6081	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Aug	3727	2251	4674	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Sep	4860	3260	6364	30	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Oct	4801	3018	5448	31	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Nov	4015	2695	4868	30	0	0	0	0	0
2021	[55640] SCHARB;WOLFCAMP	Dec	4851	3307	5309	31	0	0	0	0	0



FESCO, Ltd.
105 Medical Drive - Ozona, Texas 76943

October 17, 2019

For: Catena Resources Operating, LLC
18402 US Hwy. 281, Suite 258
San Antonio, Texas 78259

Sample: Cable State 19-35-09 No. 1H
Separator Gas @ 96 psig & 123 °F

Station: N/A

Date Sampled: 10/16/2019 at 14:05 hours

CHROMATOGRAPH ANALYSIS - GPA 2261

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	4.665	
Carbon Dioxide	0.540	
Methane	58.596	
Ethane	16.767	4.484
Propane	12.029	3.313
Isobutane	1.205	0.394
n-Butane	3.490	1.100
Isopentane	0.753	0.276
n-Pentane	0.748	0.271
Hexanes Plus	1.207	0.527
Totals:	100.000	10.365

Computed Real Properties:

Specific Gravity	0.910 (Air=1.000)
Compressibility(Z)	0.9945
Gross Heating Value at	14.650 psia and 60 °F
Dry Basis	1470 BTU/CF
Saturated Basis	1444 BTU/CF

*H₂S Test on Location by Stain Tube Method Yielded Less Than 0.2 PPM,
Which Is Equivalent To 0.00002 Mol% or 0.0124 Gr/100 CF
These Values Represent Minimum Detectable Concentrations

Base Conditions: 14.650 psia and 60 °F

Certified: FESCO, Ltd. - Ozona, Texas

Tom Anderson 325-392-3773

Job Number: 090788.001
Analyst ID: RJ

Cyl Number: T-4189

January 18, 2022

FESCO, Ltd.
1100 FESCO Avenue - Alice, Texas 78332

For: Catena Resources Operating, LLC
1001 Fannin Street, 22nd Floor
Houston, Texas 77002

Sample: Cable 19 35 9 State Com No. 1H
Production Vessel Hydrocarbon Liquid
Sampled @ 67 psig & 80 °F

Date Sampled: 12/31/2021

Job Number: 221048.012

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.062	0.011	0.011
Carbon Dioxide	0.018	0.005	0.005
Methane	1.466	0.398	0.148
Ethane	2.535	1.086	0.479
Propane	6.038	2.663	1.674
Isobutane	1.267	0.664	0.463
n-Butane	5.603	2.828	2.047
2,2 Dimethylpropane	0.039	0.024	0.018
Isopentane	2.703	1.582	1.226
n-Pentane	3.472	2.015	1.575
2,2 Dimethylbutane	0.024	0.016	0.013
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.633	0.416	0.343
2 Methylpentane	1.651	1.097	0.894
3 Methylpentane	1.147	0.750	0.621
n-Hexane	2.417	1.591	1.309
Heptanes Plus	<u>70.924</u>	<u>84.855</u>	<u>89.174</u>
Totals:	100.000	100.000	100.000

Characteristics of Heptanes Plus:

Specific Gravity -----	0.8481 (Water=1)
°API Gravity -----	35.34 @ 60°F
Molecular Weight -----	200.0
Vapor Volume -----	13.12 CF/Gal
Weight -----	7.07 Lbs/Gal

Characteristics of Total Sample:

Specific Gravity -----	0.8070 (Water=1)
°API Gravity -----	43.83 @ 60°F
Molecular Weight -----	159.1
Vapor Volume -----	15.70 CF/Gal
Weight -----	6.72 Lbs/Gal

Base Conditions: 15.025 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (24) Field
Analyst: JL
Processor: JL
Cylinder ID: W-4279

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221048.012

TANKS DATA INPUT REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Carbon Dioxide	0.018	0.005	0.005
Nitrogen	0.062	0.011	0.011
Methane	1.466	0.398	0.148
Ethane	2.535	1.086	0.479
Propane	6.038	2.663	1.674
Isobutane	1.267	0.664	0.463
n-Butane	5.642	2.852	2.065
Isopentane	2.703	1.582	1.226
n-Pentane	3.472	2.015	1.575
Other C-6's	3.455	2.278	1.872
Heptanes	9.189	5.920	5.347
Octanes	10.207	7.376	6.875
Nonanes	5.373	4.522	4.278
Decanes Plus	40.278	63.523	69.044
Benzene	1.001	0.449	0.492
Toluene	1.867	1.001	1.081
E-Benzene	0.987	0.610	0.659
Xylenes	1.062	0.655	0.708
n-Hexane	2.417	1.591	1.309
2,2,4 Trimethylpentane	<u>0.961</u>	<u>0.800</u>	<u>0.690</u>
Totals:	100.000	100.000	100.000

Characteristics of Total Sample:

Specific Gravity -----	0.8070	(Water=1)
°API Gravity -----	43.83	@ 60°F
Molecular Weight-----	159.1	
Vapor Volume -----	15.70	CF/Gal
Weight -----	6.72	Lbs/Gal

Characteristics of Decanes (C10) Plus:

Specific Gravity -----	0.8772	(Water=1)
Molecular Weight-----	272.7	

Characteristics of Atmospheric Sample:

°API Gravity -----	40.90	@ 60°F
Reid Vapor Pressure Equivalent (D-6377)-----	10.93	psi

QUALITY CONTROL CHECK			
	Sampling Conditions	Test Samples	
Cylinder Number	-----	W-4279*	W-0252
Pressure, PSIG	67	56	56
Skin Temperature, °F	80	53	53

* Sample used for analysis

FESCO, Ltd.

Job Number: 221048.012

TOTAL EXTENDED REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.062	0.011	0.011
Carbon Dioxide	0.018	0.005	0.005
Methane	1.466	0.398	0.148
Ethane	2.535	1.086	0.479
Propane	6.038	2.663	1.674
Isobutane	1.267	0.664	0.463
n-Butane	5.603	2.828	2.047
2,2 Dimethylpropane	0.039	0.024	0.018
Isopentane	2.703	1.582	1.226
n-Pentane	3.472	2.015	1.575
2,2 Dimethylbutane	0.024	0.016	0.013
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.633	0.416	0.343
2 Methylpentane	1.651	1.097	0.894
3 Methylpentane	1.147	0.750	0.621
n-Hexane	2.417	1.591	1.309
Methylcyclopentane	2.271	1.287	1.201
Benzene	1.001	0.449	0.492
Cyclohexane	1.985	1.082	1.050
2-Methylhexane	0.668	0.497	0.421
3-Methylhexane	0.767	0.563	0.483
2,2,4 Trimethylpentane	0.961	0.800	0.690
Other C-7's	1.819	1.251	1.135
n-Heptane	1.679	1.240	1.058
Methylcyclohexane	3.114	2.004	1.922
Toluene	1.867	1.001	1.081
Other C-8's	5.586	4.136	3.870
n-Octane	1.507	1.236	1.082
E-Benzene	0.987	0.610	0.659
M & P Xylenes	0.718	0.446	0.479
O-Xylene	0.344	0.209	0.230
Other C-9's	4.312	3.566	3.422
n-Nonane	1.061	0.956	0.855
Other C-10's	4.705	4.275	4.178
n-decane	0.998	0.981	0.893
Undecanes(11)	4.082	3.806	3.772
Dodecanes(12)	2.918	2.938	2.953
Tridecanes(13)	3.157	3.409	3.473
Tetradecanes(14)	2.634	3.047	3.146
Pentadecanes(15)	2.253	2.792	2.918
Hexadecanes(16)	1.759	2.329	2.455
Heptadecanes(17)	1.625	2.276	2.421
Octadecanes(18)	1.538	2.267	2.426
Nonadecanes(19)	1.435	2.203	2.372
Eicosanes(20)	1.119	1.786	1.934
Heneicosanes(21)	0.998	1.676	1.826
Docosanes(22)	0.920	1.610	1.764
Tricosanes(23)	0.808	1.467	1.616
Tetracosanes(24)	0.729	1.370	1.517
Pentacosanes(25)	0.680	1.327	1.476
Hexacosanes(26)	0.609	1.232	1.375
Heptacosanes(27)	0.590	1.236	1.386
Octacosanes(28)	0.540	1.171	1.317
Nonacosanes(29)	0.503	1.126	1.271
Triacotanes(30)	0.442	1.021	1.157
Hentriacotanes Plus(31+)	<u>5.237</u>	<u>18.179</u>	<u>21.399</u>
Total	100.000	100.000	100.000

DownHole SAT™ Water Analysis Report



SYSTEM IDENTIFICATION

Catena Resources
Cable 19-35-9-1H WH

Sample ID#: 0
ID TCSL-06375

Sample Date: 09-03-2021 at 2216
Report Date: 09-08-2021

WATER CHEMISTRY

CATIONS

Calcium(as Ca) 6344
Magnesium(as Mg) 1055
Barium(as Ba) 1.90
Strontium(as Sr) 526.00
Sodium(as Na) 45636
Potassium(as K) 975.00
Lithium(as Li) 5.00
Iron(as Fe) 76.90
Manganese(as Mn) 1.30
Zinc(as Zn) 0.800

PARAMETERS

Temperature(°F) 77.00
Conductivity 153537
Resistivity 6.51

ANIONS

Chloride(as Cl) 85172
Sulfate(as SO₄) 934.00
Dissolved CO₂(as CO₂) 103.00
Bicarbonate(as HCO₃) 183.00
H₂S (as H₂S) 8.60
Boron(as B) 18.00

Sample pH 7.00
Sp.Gr.(g/mL) 1.106
T.D.S. 152123

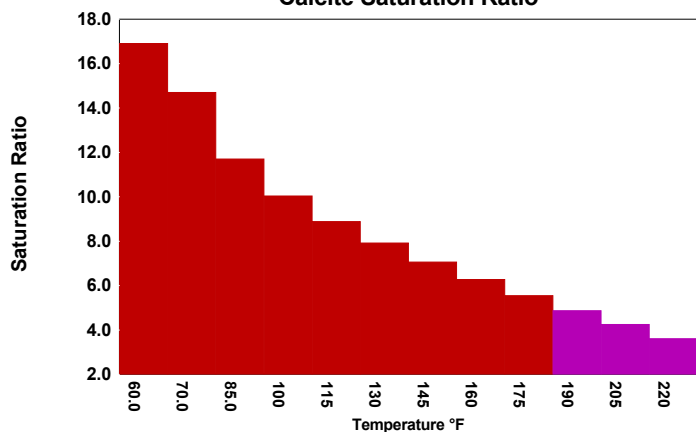
SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psia)	Calcite CaCO ₃		Anhydrite CaSO ₄		Gypsum CaSO ₄ *2H ₂ O		Barite BaSO ₄		Celestite SrSO ₄		Siderite FeCO ₃		Mackinawite FeS		CO ₂ (mpy)	pCO ₂ (atm)
60.00	14.70	16.90	0.284	0.518	-150.88	0.759	-59.02	9.54	1.11	1.35	41.00	133.32	0.347	232.25	2.27	0.0215	0.0119
70.00	15.00	14.70	0.227	0.499	-157.51	0.707	-74.35	7.12	1.07	1.28	33.23	124.73	0.279	134.65	1.88	0.0178	0.0121
85.00	38.50	11.70	0.160	0.490	-155.50	0.644	-94.39	4.78	0.983	1.22	25.93	110.43	0.201	155.47	3.62	0.0405	0.0311
100.00	62.00	10.04	0.123	0.505	-140.32	0.597	-109.75	3.38	0.875	1.19	22.36	104.73	0.157	132.31	4.56	0.0665	0.0500
115.00	85.50	8.88	0.0995	0.542	-116.04	0.621	-95.45	2.48	0.741	1.17	20.14	101.91	0.128	106.06	5.07	0.0762	0.0690
130.00	109.00	7.91	0.0814	0.605	-86.64	0.660	-77.54	1.84	0.566	1.15	17.55	99.37	0.107	82.34	5.30	0.0728	0.0879
145.00	132.50	7.06	0.0671	0.698	-55.60	0.696	-63.48	1.38	0.340	1.13	14.63	96.55	0.0896	63.11	5.35	0.0845	0.107
160.00	156.00	6.27	0.0555	0.830	-25.56	0.729	-52.42	1.04	0.0487	1.10	11.41	93.10	0.0757	48.05	5.28	0.109	0.126
175.00	179.50	5.54	0.0459	1.01	1.70	0.758	-43.78	0.793	-0.322	1.07	7.87	88.98	0.0641	36.49	5.12	0.130	0.145
190.00	203.00	4.87	0.0379	1.27	25.33	0.784	-37.03	0.609	-0.791	1.04	4.09	84.23	0.0545	27.68	4.91	0.0674	0.164
205.00	226.50	4.24	0.0310	1.63	45.07	0.805	-31.85	0.471	-1.38	1.00	-0.00322	78.94	0.0464	20.97	4.66	0.0640	0.183
220.00	250.00	3.61	0.0254	2.10	61.82	0.813	-30.41	0.363	-2.15	0.952	-5.86	72.07	0.0401	15.30	4.31	0.0866	0.202
		xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels		

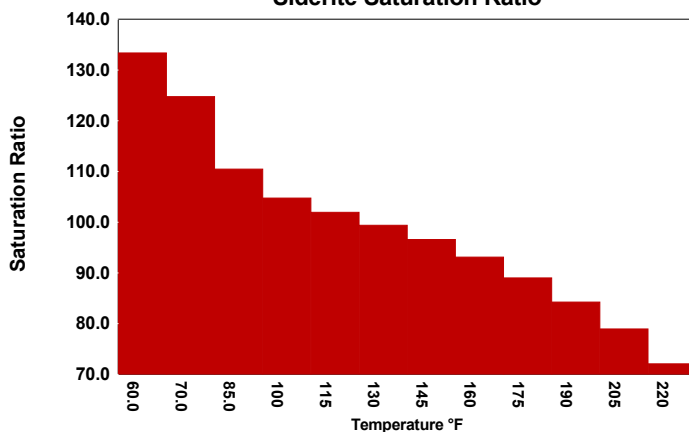
Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.

Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.

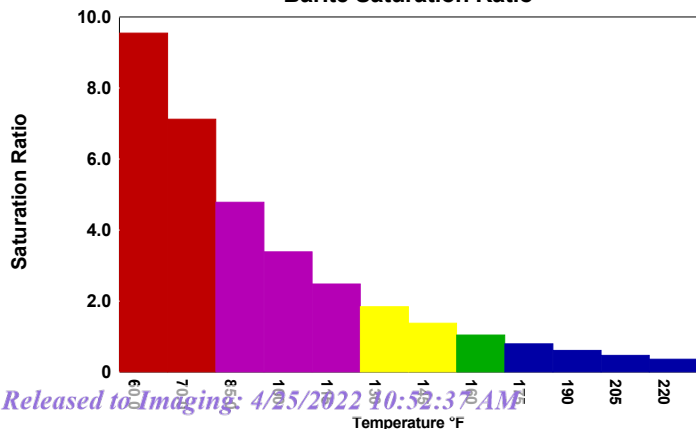
Calcite Saturation Ratio



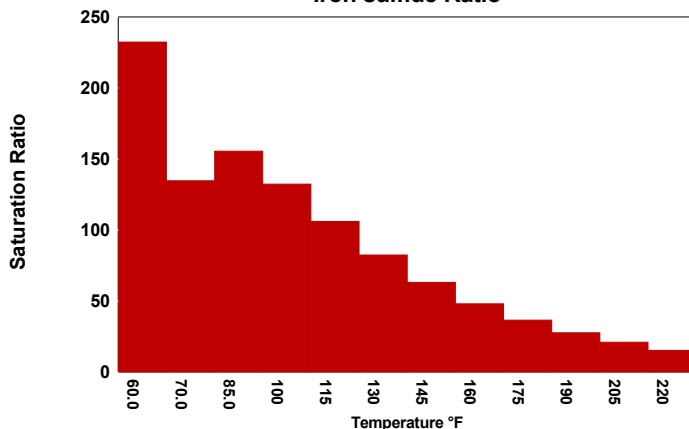
Siderite Saturation Ratio



Barite Saturation Ratio



Iron sulfide Ratio





DownHole SAT(tm)

SURFACE WATER CHEMISTRY INPUT

Catena Resources

Cable 19-35-9-1H WH

Report Date: 09-08-2021 Sampled: 09-03-2021 at 2216
 Sample #: 0 Sample ID: TCSL-06375

CATIONS

Calcium (as Ca)	6344
Magnesium (as Mg)	1055
Barium (as Ba)	1.90
Strontium (as Sr)	526.00
Sodium (as Na)	45636
Potassium (as K)	975.00
Lithium (as Li)	5.00
Iron (as Fe)	76.90
Manganese (as Mn)	1.30
Zinc (as Zn)	0.800

ANIONS

Chloride (as Cl)	85172
Sulfate (as SO ₄)	934.00
Dissolved CO ₂ (as CO ₂)	103.00
Bicarbonate (as HCO ₃)	183.00
H ₂ S (as H ₂ S)	8.60
Boron (as B)	18.00

PARAMETERS

Calculated T.D.S.	152123
Molar Conductivity	153537
Resistivity	6.51
Sp.Gr.(g/mL)	1.106
Pressure(psia)	15.00
Temperature (°F)	77.00
pH	7.00

BOUND IONS

	TOTAL	FREE
Calcium	7016	6752
Barium	2.10	2.10
Carbonate	38.24	0.365
Phosphate	0.00	0.00
Sulfate	1033	322.44

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.0210
--	--------

FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460



DownHole SAT(tm)

SURFACE WATER DEPOSITION POTENTIAL INDICATORS

Catena Resources

Cable 19-35-9-1H WH

Report Date: 09-08-2021 Sampled: 09-03-2021 at 2216
 Sample #: 0 Sample ID: TCSL-06375

SATURATION RATIO as IAP/Ksp

Calcite (CaCO ₃)	13.47
Aragonite (CaCO ₃)	12.46
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	1.45
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	2.45
Anhydrite (CaSO ₄)	0.49
Gypsum (CaSO ₄ *2H ₂ O)	0.68
Barite (BaSO ₄)	5.88
Celestite (SrSO ₄)	1.25
Fluorite (CaF ₂)	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO ₂)	0.00
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) ₃)	0.00
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	120.17
Halite (NaCl)	0.08
Thenardite (Na ₂ SO ₄)	0.00
Iron sulfide (FeS)	103.18

FREE ION MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO ₃)	0.196
Aragonite (CaCO ₃)	0.195
Witherite (BaCO ₃)	-26.00
Strontianite (SrCO ₃)	0.0972
Calcium oxalate (CaC ₂ O ₄)	-0.00802
Magnesite (MgCO ₃)	0.106
Anhydrite (CaSO ₄)	-157.90
Gypsum (CaSO ₄ *2H ₂ O)	-83.88
Barite (BaSO ₄)	1.03
Celestite (SrSO ₄)	29.48
Fluorite (CaF ₂)	-2.96
Calcium phosphate	>-0.001
Hydroxyapatite	-319.58
Silica (SiO ₂)	-32.98
Brucite (Mg(OH) ₂)	-0.293
Magnesium silicate	-98.55
Iron hydroxide (Fe(OH) ₃)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	0.243
Halite (NaCl)	-120008
Thenardite (Na ₂ SO ₄)	-83589
Iron sulfide (FeS)	1.81

SIMPLE INDICES

Langelier	1.66
Ryznar	3.67
Puckorius	2.28
Larson-Skold Index	282.23
Stiff Davis Index	1.24
Oddo-Tomson	0.518

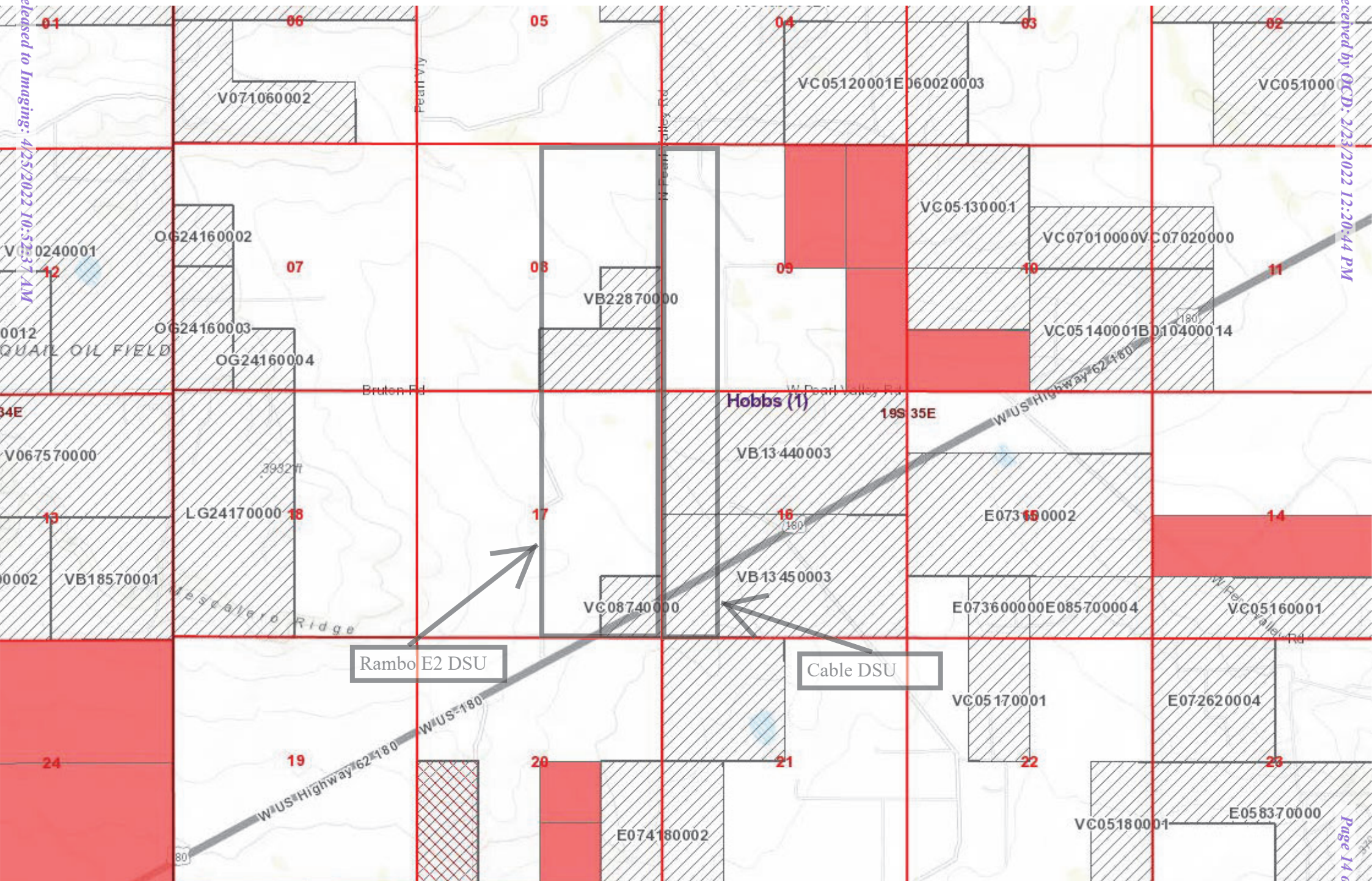
CARBONATE PRECIPITATION POTENTIAL (Lbs/1000 Barrels)

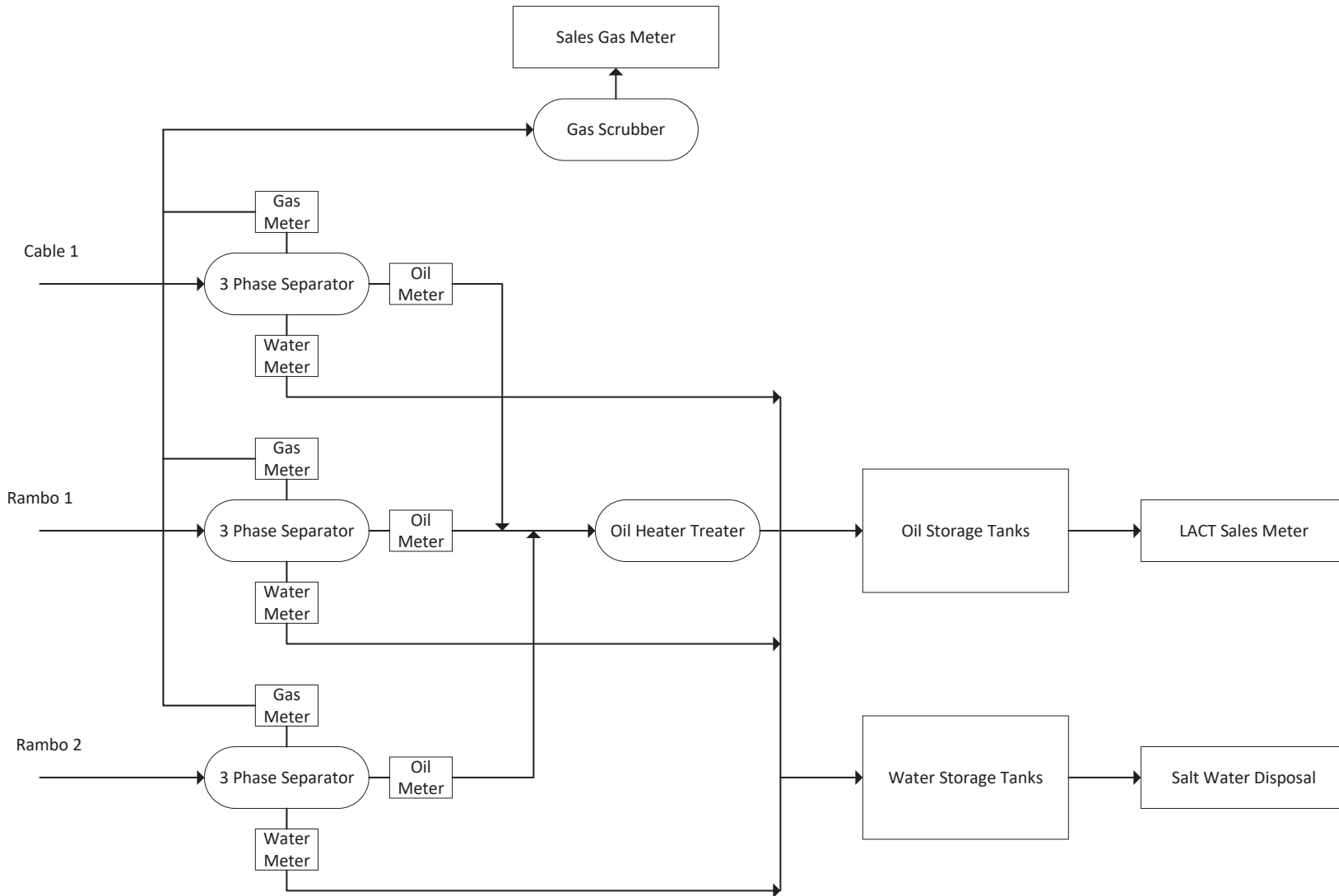
Calcite (CaCO ₃)	133.64
Aragonite (CaCO ₃)	132.24
Witherite (BaCO ₃)	-9.65
Strontianite (SrCO ₃)	70.08
Magnesite (MgCO ₃)	94.31
Siderite (FeCO ₃)	55.65

OPERATING CONDITIONS

Temperature (°F)	77.00
Time(mins)	3.00

FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460





**Catena Resources
Operating, LLC**

Project No.:

Drawn by: DMP

Date: 1/24/2022

Scale:

Drawing Not to Scale

Cable CTB - Proposed Process Flow Diagram

Surface Commingling Permit Application | Lea County, NM

Checked by: CC

Date: 1/25/2022

APPLICATION FOR A CENTRAL TANK BATTERY**Proposal for the Cable CTB**

Catena Resources Operating, LLC is requesting approval for a Central Tank Battery for the following wells.

1. CABLE 19 35 9 STATE COM #001H: Location: M-4-19S-35E: API: 30-025-46140: Pool [55640] Scharb; Wolfcamp; See attached for Production and Oil, Gas and Water Analysis.
2. RAMBO E2 08 17 STATE COM #001H: Location: P-5-19S-35E: API: 30-025-49535: Pool [55640] Scharb; Wolfcamp; Expected Well Completion March, 2022. Expect Oil, Gas and Water Analysis to be similar to the attached for the Cable.
3. RAMBO E2 08 17 STATE COM #002H: Location: P-5-19S-35E: API: 30-025-49536: Pool [55640] Scharb; Wolfcamp; Expected Well Completion March, 2022.

Communization Agreements have been submitted and approved for each well, see attached.

Attached are maps that displays the well locations.

Oil and Gas Metering

The central tank battery is located on the Cable 19 35 9 State Com #1H well pad, located in Section 4 T19S R35E in Lea County, New Mexico.

The Cable 19 35 9 State Com #1H, Rambo E2 08 17 State Com #1H, and Rambo E2 08 17 State Com #2H will each flow into their respective 3-phase separator, with oil, water, and gas metered separately. Oil will be metered with a coriolis meter, water with a magnetic flow meter, and gas with an orifice meter.

Oil production from each well will then be commingled into common oil storage tanks with one common oil sales LACT. Oil from the final LACT sales will be allocated to each well based on oil volumes measured by each individual well's coriolis meter. These meters will be calibrated in accordance with API and NMOCD, and BLM specifications.

Gas production from each well will be commingled through one common gas sales meter leaving the facility. Gas sales from this final sales meter will be allocated to each well based on the gas volumes from each individual well gas meter. These meters will be calibrated on a regular basis in accordance with API, NMOCD, and BLM specifications.

Produced water production from each well will be commingled into common produced water storage tanks and then pumped to an offsite disposal facility. Water meters from each well's individual separator will be used to determine the produced water volume from each well. These meters will be calibrated on a regular basis.

Process and Flow Descriptions

The flow of produced fluid is shown in detail on the enclosed facility diagram, along with a description of each vessel and a map indicating the lease boundaries, communization agreement boundaries, and the

location of wells, facility, and gas sales meters. The proposed commingling will maximize the ultimate recovery of oil and/or gas from the leases and will reduce the environmental impacts by minimizing surface disturbance and emissions. The proposed commingling will reduce capital and operating expenses, while not adversely affecting royalty income, production accountability, or the distribution of royalty.

Signed:  Date: 2-22-22

Cato Clark

Vice President, Land

Signed:  Date: 2/22/2022

Daniel Pyziak

Sr. Operations Engineer



2/22/2022

Via Certified Mail:

Interest Owners

RE: Application of Catena Resources Operating, LLC
for Approval of Surface Lease Commingling
Lea County, NM
Rambo E2 08-17 State Com 1H (30-025-49535)
Rambo E2 08-17 State Com 2H (30-025-49536)
Cable 19-35-09 State Com 1H (30-025-46140)

Dear Interest Owner,

Enclosed is a copy of the above-referenced application, which was filed with the New Mexico Oil Conservation Division (NMOCD) on the date indicated above. Any objection to this application must be filed in writing within twenty (20) days from the date above at the New Mexico Oil Conservation Division's Santa Fe office, located at 1220 South Saint Francis Drive, Santa Fe, NM 87505.

If no objection is received within such period, this application may be administratively approved by the NMOCD.

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

Best regards,

A handwritten signature in blue ink, appearing to read "Cato Clark".

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



E-Certified Mailing List

**Commingle Mailing Reference: Cable 19 35 9 State Com #1H, Rambo E2 08 17 State Com #1H, and
Rambo E2 08 17 State Com #2H**

Anthony Ray Pillow 2950 N.E 145 CT. Silver Springs, FL 34488	9314869904300091750383
Arbor Mineral Company P.O. Box 1694 Laramie, WY 82073	9314869904300091750390
Arthur Albert Wellman, Jr. 3852 Wildwood Rd San Diego, CA 92107	9314869904300091750406
Arthur Robinson Estate of Orvelene Robinson 4912 Harvard Amarillo, TX 79109	9314869904300091750413
Aurora J. Rohana (f/k/a Aurora J. Hooper) P.O. Box 3206 Presidio, TX 79845	9314869904300091750420
Baffin Properties, LTD P.O. Box 940 Portland, TX 78374	9314869904300091750437
Barbara Earlene Moore 1220 College Street Gonzales, TX 78629	9314869904300091750444
Barbara Elliott 206 N.E. Ave C Seminole, TX 79360	9314869904300091750451
Barbara Jane Dewey 11006 Oregon Curve Bloomington, MN 55438	9314869904300091750468
Barbara Sue Schmidt 3416 San Joaquin Plaza Newport Beach, CA 92660	9314869904300091750475
Beulah H. Simmons Trust Bank of America, NA, as Successor Trustee	9314869904300091750482

PO BOX 844143
DALLAS, TX 75284

Big Three Energy Group, LLC
P.O. Box 429
Roswell, NM 88202

9314869904300091750499

BILLY DON ALLEN
DEBRA VESTAL, POA/AGENT
525 Gavilan Canyon Rd
Ruidoso, NM 88345

9314869904300091750505

Blind Side, LLC
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Roswell, NM 88202

9314869904300091750512

Brigham Minerals, LLC
Attn: Brad Burris
5914 W. Courtyard Dr.
Suite 200
Austin, TX 78730

9314869904300091750529

Camarie Oil and Gas, LLC
2502 Camarie
Midland, TX 79705

9314869904300091750536

CAROLYN DORENE KIRPES
2731 W. Calle De Dalias
Tuscon, AZ 85745

9314869904300091750543

Catherine Coll
Testamentary Max Coll Trust
83 La Barbaria Trail
Santa Fe, NM 87505

9314869904300091750550

Centennial, LLC
P.O. Box 1837
Roswell, NM 88202-1837

9314869904300091750567

Chevron USA, Inc.
Attn: Scott Sabrsula
1400 Smith Street
Houston, TX 77002

9314869904300091750574

Cindy A Polk
28 Rio Lobo Rd

9314869904300091750581

Artesia, NM 87048

Clarke C Coll
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9314869904300091750598

Coert Holdings I LLC
910 Louisiana Street, Suite 2400
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9314869904300091750604

COG Operating, LLC, c/o ConocoPhillips
Attn: Baylor Mitchell
600 W. Illinois Ave.
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9314869904300091750628

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San Antonio, TX 78217-0006

9314869904300091750635

Debra Kay Primera
P.O. Box 143277
Irving, TX 75014-2454

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DIAMOND LIL PROPERTIES LLC
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Diana Bates Garza
2034 Tara
Corpus Christi, TX 78412

9314869904300091750666

Diana K. Hammonds
108 Sharlotte
New Boston, TX 75570

9314869904300091750673

Dorothy Allen
Estate of Billy Joe Allen
PO Box 443
Sahuarita, AZ 85629

9314869904300091750680

Edward B. Parma
10403 Laurel Hill Cove
AUSTIN, TX 78730

9314869904300091750697

Elizabeth F. Myers 14001 West 92nd St Apt 208 Lenexa, KS 66215	9314869904300091750703
ERIC J COLL PO BOX 1818 ROSWELL, NM 88202	9314869904300091750710
Estate of Tessie I. Smith Attn: Charles F. Smith 217 Cheltenham Place San Jose, CA 95139	9314869904300091750727
Featherstone Development Corporation Attn: Olen Featherstone, III P.O. Box 429 Roswell, NM 88202	9314869904300091750734
Foundation Income Asset Management, LLC PO Box 3627 Tulsa, OK 74101	9314869904300091750741
Francesca Leona Wellman 124 W 8th St. #2 Santa Rosa, CA 95401	9314869904300091750758
FTC, LLC P.O. Box 1694 Laramie, WY 82073	9314869904300091750765
GKT Investment Partnership. LTD P.O. Box 940 Portland, TX 78374	9314869904300091750772
GKT Ranch Partnership, LTD P.O. Box 940 Portland, TX 78374	9314869904300091750789
HAROLD LEE PILLOW 285 Purdom Cemetery Rd Pierson, FL 32180	9314869904300091750796
Harpsie LLC PO Box 4706 Horshoe Bay, TX 78657	9314869904300091750802

HARVEY RONALD PILLOW 568 SW 9th St Lake Butler, FL 32054	9314869904300091750819
HK Resources, LLC 1632 San Marina Blvd. Miramar Beach, FL 32550	9314869904300091750826
Hooper and Sons, LLC PO BOX 817 ROSWELL, NM 88202	9314869904300091750833
J. E. Simmons Trust Bank of America, NA, as Successor Trustee PO BOX 844143 DALLAS, TX 75284	9314869904300091750840
Jack P. Hooper 5511 E 89TH CT TULSA, OK 74137	9314869904300091750857
Janet Tidwell 610 FM 114 DeKalb, TX 75559	9314869904300091750864
John Dwayne Allen 1777 Brockman McClimon Rd Greer, SC 29651	9314869904300091750871
JOHN DWIGHT COOK 243 Dirt Bridge Rd Topping, VA 23169	9314869904300091750888
John T Echols P.O. Box 3388 Midland, TX 79702	9314869904300091750895
Johnny Knox Bates 4113 Capri Dr. Corpus Christi, TX 78411	9314869904300091750901
JON F COLL II 7335 WALLA WALLA SAN ANTONIO, TX 78250-5242	9314869904300091750918
JPMORGAN Chase Bank, N.A. TRUSTEE OF THE AVIS K MILLER TRUST	9314869904300091750925

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Mary Louise Galbreath 37 Scarborough Rd Manchester, CT 6040	9314869904300091751052
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Melanie Coll DeTemple 5653 Tobias Ave Van Nuys, CA 91411	9314869904300091751076
Michael T. Hooper GST Trust Michael T. Hooper, Ttee 11015 SUNSHINE COURT EL PASO, TX 79936	9314869904300091751083
MRC Permian Company Attn: David Johns One Lincoln Centre 5400 LBJ Freeway Suite 1500 Dallas, TX 75240	9314869904300091751090
Nancy B. Parks 9241 Elm Tree Circle Tyler, TX 75703	9314869904300091751106
New Mexico State Comm Of Public Lands PO Box 1148 Santa Fe, NM 87504-1148	9314869904300091751113
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Suite 320
Waco, TX 76712

9314869904300091751168

Petro Tiger I, LLC
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Tulsa, OK 74101

9314869904300091751175

Petro-Quest Oil & Gas, LP
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KERRVILLE, TX 78029

9314869904300091751182

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9314869904300091751199

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ROSWELL, NM 88202

9314869904300091751243

Robert Lynn Bates

9314869904300091751250

110 Mount Haven
Kerrville, TX 78028

Robert Mitchell Raindl
P.O. Box 853
Tahoka, TX 79373

9314869904300091751267

Ronald Byers Company LLC
3939 Bee Cave Rd
Austin, TX 78746

9314869904300091751274

Ronald Peters Revocable Family Trust UTA dated 2/2/2016
Michael Zan Peters and Lance Lee Peters, Co-Trustees
P.O. Box 12344
Lubbock, TX 79452-2344

9314869904300091751281

Ross Duncan Properties, LLC
P.O. Box 429
Roswell, NM 88202

9314869904300091751298

Round Hill Royalty, LP
PO Box 25128
Dallas, TX 75225

9314869904300091751304

Rowan Family Minerals, LLC
7651 FM 2125
Brownwood, TX 76801

9314869904300091751311

Roy G. Barton, Jr.
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HOBBS, NM 88240-2712

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SABRINA BRADDOCK
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Sally Rodgers
Box 152B Arroyo Hondo Rd
Santa Fe, NM 87508

9314869904300091751342

Scott T. Petersen
PO Box 1112
Midland, TX 79702

9314869904300091751359

Shamrock Royalty, LP
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Suite 320
Waco, TX 76712

9314869904300091751366

SHENEA CAMERON 7785 Citation Drive Marshall, VA 20115	9314869904300091751373
Snyder Ranches, Inc P.O. Box 2158 Hobbs, NM 88240	9314869904300091751380
Spirit Trail, LLC PO Box 1818 Roswell, NM 88202-1818	9314869904300091751397
TAMMY RUTLEDGE 151 Harper Ridge Rd Liberty, WV 25124	9314869904300091751403
The Brady Family Trust u/a/d 6/1/1994 P.O. Box 8695 Springdale, AR 72766	9314869904300091751410
The Jeannine Hooper Byron Trust Jeannine Hooper Byron,Ttee PO BOX 1562 ROSWELL, NM 88201	9314869904300091751427
Tommy L. Fort P.O. Box 5356 Midland, TX 79704	9314869904300091751434
Trevor Turmelle P.O. Box 960489 El Paso, TX 79996	9314869904300091751441
Troy James Allen 902 NW Ave. G Seminole, TX 79360	9314869904300091751458
Vatex Holdings, LLC Attn: Cheever Farley 1204 West 7th Street Suite 200 Ft. Worth, TX 76102	9314869904300091751465
WTG Exploration, Inc. 401 WEST WADLEY MIDLAND, TX 79705	9314869904300091751472

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CATO CLARK		ACTWGT:
CATEENA RESOURCES MANAGEMENT LLC		CAD: 253831505/INET 4460
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SUITE 2200		
HOUSTON, TX 77002		
UNITED STATES US		BILL SENDER
TO ATTN: COMMINGLING MANAGER		
COMMISSIONER OF PUBLIC LANDS		
310 OLD SANTA FE TRAIL		
SANTA FE NM 87504		
(505) 827-5791		
REF: RAMBO COMMINGLING APP		
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2/23/2022

Via FedEx: 7761 2102 9129

Commissioner of Public Lands
Attn: Commingling Manager
310 Old Santa Fe Trail
Sante Fe, New Mexico 87504

RE: Notice of Application of Catena Resources Operating, LLC
for Approval of Surface Lease Commingling
Lea County, NM
Rambo E2 08-17 State Com 1H (30-025-49535)
Rambo E2 08-17 State Com 2H (30-025-49536)
Cable 19-35-09 State Com 1H (30-025-46140)

Dear Sir/Madam,

Please find enclosed the captioned commingling application, application fee, and commingling application & supporting documentation submitted to the NMOCD on the date above, via its online portal.

Should you have any questions or need further information, please do not hesitate to contact me.

Best regards,

A handwritten signature in blue ink, appearing to read "Cato Clark".

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



**NEW MEXICO
STATE
LAND OFFICE**

**APPLICATION FOR
COMMINGLING AND OFF-LEASE STORAGE
ON STATE TRUST LANDS**



This application form is required for all commingling applications requiring approval by the Commissioner of Public Lands.

Applicant: Catena Resources Operating, LLC **OGRID #:** 328449
Well Name: Multiple Wells, see attached **API #:** Multiple Wells, see attached
Pool: Scharb; Wolfcamp

OPERATOR NAME: Catena Resources Operating, LLC
OPERATOR ADDRESS: 1001 Fannin Street, 22nd Floor, Houston, TX 77002

APPLICATION REQUIREMENTS – SUBMIT:

1. New Mexico Oil Conservation Division (NMOCD) application packet (or equivalent information if no application is required by NMOCD),
2. Commingling application fee of \$150.

CERTIFICATION: To the best of my knowledge,

- All business leases and rights-of-way necessary for conducting the proposed operation on State Trust lands have been applied for or obtained,
- The information submitted with this application is **accurate** and **complete**, and
- No loss will accrue to the state of New Mexico as a result of the proposed operation.

I also understand that **no action** will be taken on this application until the required information and fee are submitted to the State Land Office.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Cato Clark
 Print or Type Name

Signature

Date

2-22-22

346-200-7894

Phone Number

clark@catenares.com

e-mail Address

Submit application to:
 Commissioner of Public Lands
 Attn: Commingling Manager
 PO Box 1148
 Santa Fe, NM 87504-1148

Questions?
Contact the Commingling Manager:
 505.827.5791

Upon approval, the requesting organization will receive an acknowledgment letter from the Commissioner of Public Lands.

DISTRICT I
1625 E. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
511 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1263 Fax: (575) 748-0720

DISTRICT III
1000 Rio Grande Rd., Aztec, N.M. 87410
Phone: (505) 834-8176 Fax: (505) 334-8170

DISTRICT IV
1230 E. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Frankford, N.M.
Santa Fe, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025- API Number 46140	Pool Code 55640	Pool Name SCHARB; WOLFCAMP
Property Code 725729	Property Name Cable 19 35 09 STATE COM	Well Number 1H
OGSD No. 328449	Operator Name Catena Resources Operating, LLC	Elevation 3871

10 Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
M	4	19 S	35 E		193	South	1054	West	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
M	16	19 S	35 E		100	South	990	West	Lea

Dedicated Acres 320	Joint or Infill	Consolidation Code C	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p> <p>Lot 4 Lot 3 Lot 2 Lot 1</p> <p>Legend: ● = Surface Location ○ = Bottom Hole Location △ = First Take Point (FTP)</p>	<p>SCALE: 1"=3000'</p> <p>SURFACE LOCATION NAD 83 NME Y=613272.0 N X=807714.2 E LAT.=32.6829411° N LONG.=103.4675554° W</p> <p>SURFACE LOCATION NAD 27 NME Y=613200.2 N X=766534.1 E LAT.=32.6828175° N LONG.=103.4670840° W</p> <p>FIRST TAKE POINT NAD 83 NME Y=612878.4 N X=807851.8 E LAT.=32.6821355° N LONG.=103.4677662° W</p> <p>FIRST TAKE POINT NAD 27 NME Y=612814.6 N X=766471.8 E LAT.=32.6820121° N LONG.=103.4672748° W</p> <p>100' FWL 990' FWL SEC. 9, T19S, R35E</p> <p>CORNER COORDINATES TABLE NAD 27 NME</p> <table border="1"> <tr><td>A - Y= 614314.7 N, X= 765478.8 E</td></tr> <tr><td>B - Y= 614328.8 N, X= 768805.2 E</td></tr> <tr><td>C - Y= 613001.8 N, X= 763480.9 E</td></tr> <tr><td>D - Y= 613019.0 N, X= 766811.5 E</td></tr> <tr><td>E - Y= 602409.2 N, X= 765805.8 E</td></tr> <tr><td>F - Y= 602422.2 N, X= 766926.8 E</td></tr> </table> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table border="1"> <tr><td>A - Y= 614378.5 N, X= 808858.9 E</td></tr> <tr><td>B - Y= 614382.8 N, X= 807985.3 E</td></tr> <tr><td>C - Y= 613065.8 N, X= 806861.0 E</td></tr> <tr><td>D - Y= 613082.8 N, X= 807991.7 E</td></tr> <tr><td>E - Y= 602472.6 N, X= 806786.2 E</td></tr> <tr><td>F - Y= 602485.6 N, X= 808107.3 E</td></tr> </table> <p>BOTTOM HOLE LOCATION NAD 83 NME Y=602582.4 M X=807774.0 E LAT.=32.6535605° N LONG.=103.4676444° W</p> <p>BOTTOM HOLE LOCATION NAD 27 NME Y=602518.9 M X=786593.6 E LAT.=32.6534370° N LONG.=103.4671942° W</p>	A - Y= 614314.7 N, X= 765478.8 E	B - Y= 614328.8 N, X= 768805.2 E	C - Y= 613001.8 N, X= 763480.9 E	D - Y= 613019.0 N, X= 766811.5 E	E - Y= 602409.2 N, X= 765805.8 E	F - Y= 602422.2 N, X= 766926.8 E	A - Y= 614378.5 N, X= 808858.9 E	B - Y= 614382.8 N, X= 807985.3 E	C - Y= 613065.8 N, X= 806861.0 E	D - Y= 613082.8 N, X= 807991.7 E	E - Y= 602472.6 N, X= 806786.2 E	F - Y= 602485.6 N, X= 808107.3 E	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a technology pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>5-28-19</p> <p>Signature BRIAN WOOD Printed Name brian@permitswest.com E-mail Address 505 466-8120</p> <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>4/05/19</p> <p>Date of Survey Signature and Seal 17078 Certificate Number</p>
A - Y= 614314.7 N, X= 765478.8 E														
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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, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-		² Pool Code 55640		³ Pool Name Scharb; Wolfcamp	
⁴ Property Code		⁵ Property Name Rambo E2 08 17 W1 State Com			⁶ Well Number 1H
⁷ OGRID No.		⁸ Operator Name Catena Resources Operating, LLC			⁹ Elevation 3854

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	19 S	35 E		319	South	1233	East	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	17	19 S	35 E		100	South	1649	East	Lea

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>¹⁶</p>	<p>SCALE: 1"=3000'</p> <p>SURFACE LOCATION NAD 83 NME Y=613373.87 N X=805427.41 E LAT.=32.6832723° N LONG.=103.4749847° W</p> <p>FIRST TAKE POINT 100' FNL, 1649' FEL SEC. 8, T19S, R35E NAD 83 NME Y=612951.04 N X=805012.93 E LAT.=32.6821194° N LONG.=103.4763428° W</p> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table> <tr><td>A</td><td>-</td><td>Y=614368.88 N, X=805337.48 E</td></tr> <tr><td>B</td><td>-</td><td>Y=614378.47 N, X=806658.88 E</td></tr> <tr><td>C</td><td>-</td><td>Y=613042.32 N, X=804024.75 E</td></tr> <tr><td>D</td><td>-</td><td>Y=613053.96 N, X=805342.89 E</td></tr> <tr><td>E</td><td>-</td><td>Y=602451.85 N, X=804135.01 E</td></tr> <tr><td>F</td><td>-</td><td>Y=602462.24 N, X=805460.62 E</td></tr> </table> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table> <tr><td>A</td><td>-</td><td>LAT.=32.6860090° N, LONG.=103.4752508° W</td></tr> <tr><td>B</td><td>-</td><td>LAT.=32.6860059° N, LONG.=103.4709560° W</td></tr> <tr><td>C</td><td>-</td><td>LAT.=32.6823921° N, LONG.=103.4795518° W</td></tr> <tr><td>D</td><td>-</td><td>LAT.=32.6823949° N, LONG.=103.4752678° W</td></tr> <tr><td>E</td><td>-</td><td>LAT.=32.6532828° N, LONG.=103.4794704° W</td></tr> <tr><td>F</td><td>-</td><td>LAT.=32.6532820° N, LONG.=103.4751635° W</td></tr> </table> <p>BOTTOM HOLE LOCATION NAD 83 NME Y=602559.69 N X=805134.89 E LAT.=32.6535570° N LONG.=103.4762192° W</p> <p>Legend: ● = Surface Location ○ = Bottom Hole Location △ = First Take Point (FTP)</p>	A	-	Y=614368.88 N, X=805337.48 E	B	-	Y=614378.47 N, X=806658.88 E	C	-	Y=613042.32 N, X=804024.75 E	D	-	Y=613053.96 N, X=805342.89 E	E	-	Y=602451.85 N, X=804135.01 E	F	-	Y=602462.24 N, X=805460.62 E	A	-	LAT.=32.6860090° N, LONG.=103.4752508° W	B	-	LAT.=32.6860059° N, LONG.=103.4709560° W	C	-	LAT.=32.6823921° N, LONG.=103.4795518° W	D	-	LAT.=32.6823949° N, LONG.=103.4752678° W	E	-	LAT.=32.6532828° N, LONG.=103.4794704° W	F	-	LAT.=32.6532820° N, LONG.=103.4751635° W	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Byron W. Barnes</i> 10/12/2021 Signature Date Byron W. Barnes Printed Name barnes@catenares.com E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>9/19/21 Date of Survey Date Revised: 9/30/21 Signature and Seal of Professional Surveyor:</p> <p><i>Marshall H. Linden</i> MARSHALL H. LINDEN NEW MEXICO 17078 10-7-21 PROFESSIONAL SURVEYOR</p> <p>17078 Certificate Number</p>
A	-	Y=614368.88 N, X=805337.48 E																																				
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State of New Mexico
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OIL CONSERVATION DIVISION

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Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-025-		*Pool Code 55640		*Pool Name Scharb; Wolfcamp	
*Property Code		*Property Name Rambo E2 08 17 W1 State Com			*Well Number 2H
*OGRID No.		*Operator Name Catena Resources Operating, LLC			*Elevation 3854

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	19 S	35 E		319	South	1213	East	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	19 S	35 E		100	South	330	East	Lea

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>¹⁶</p>	<p>SCALE: 1"=3000'</p> <p>SURFACE LOCATION NAD 83 NME Y=613374.06 N X=805447.41 E LAT.=32.6832724° N LONG.=103.4749197° W</p> <p>FIRST TAKE POINT 100' FNL, 330' FEL SEC. 8, T19S, R35E NAD 83 NME Y=612962.70 N X=806331.87 E LAT.=32.6821221° N LONG.=103.4720561° W</p> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table> <tr><td>A</td><td>-</td><td>Y=614368.88 N, X=805337.48 E</td></tr> <tr><td>B</td><td>-</td><td>Y=614378.47 N, X=806658.88 E</td></tr> <tr><td>C</td><td>-</td><td>Y=613053.96 N, X=805342.89 E</td></tr> <tr><td>D</td><td>-</td><td>Y=613065.61 N, X=806661.03 E</td></tr> <tr><td>E</td><td>-</td><td>Y=602462.24 N, X=805460.62 E</td></tr> <tr><td>F</td><td>-</td><td>Y=602472.63 N, X=806786.23 E</td></tr> </table> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table> <tr><td>A</td><td>-</td><td>LAT.=32.6860090° N, LONG.=103.4752508° W</td></tr> <tr><td>B</td><td>-</td><td>LAT.=32.6860059° N, LONG.=103.4709560° W</td></tr> <tr><td>C</td><td>-</td><td>LAT.=32.6823949° N, LONG.=103.4752678° W</td></tr> <tr><td>D</td><td>-</td><td>LAT.=32.6823976° N, LONG.=103.4709837° W</td></tr> <tr><td>E</td><td>-</td><td>LAT.=32.6532820° N, LONG.=103.4751635° W</td></tr> <tr><td>F</td><td>-</td><td>LAT.=32.6532810° N, LONG.=103.4708565° W</td></tr> </table> <p>BOTTOM HOLE LOCATION NAD 83 NME Y=602570.03 N X=806453.99 E LAT.=32.6535561° N LONG.=103.4719334° W</p> <p>Legend: ● = Surface Location ○ = Bottom Hole Location △ = First Take Point (FTP)</p>	A	-	Y=614368.88 N, X=805337.48 E	B	-	Y=614378.47 N, X=806658.88 E	C	-	Y=613053.96 N, X=805342.89 E	D	-	Y=613065.61 N, X=806661.03 E	E	-	Y=602462.24 N, X=805460.62 E	F	-	Y=602472.63 N, X=806786.23 E	A	-	LAT.=32.6860090° N, LONG.=103.4752508° W	B	-	LAT.=32.6860059° N, LONG.=103.4709560° W	C	-	LAT.=32.6823949° N, LONG.=103.4752678° W	D	-	LAT.=32.6823976° N, LONG.=103.4709837° W	E	-	LAT.=32.6532820° N, LONG.=103.4751635° W	F	-	LAT.=32.6532810° N, LONG.=103.4708565° W	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Byron W. Barnes</i> 0/12/2021 Signature Date Byron W. Barnes Printed Name barnes@catenares.com E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>9/19/21 Date of Survey Date Revised: 9/30/21 Signature and Seal of Professional Surveyor</p> <p><i>Marshall W. Anderson</i> 17078 10-7-21 PROFESSIONAL SURVEYOR Certificate Number</p>
	A	-	Y=614368.88 N, X=805337.48 E																																			
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NEW MEXICO STATE LAND OFFICE**CERTIFICATE OF APPROVAL****COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO**

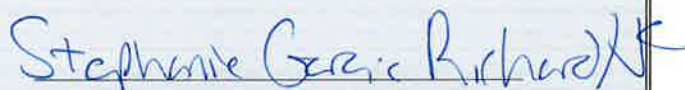
Catena Resources Operating, LLC
Cable 19-35-9 State Com #1H
Vertical Extent: Wolfcamp
Township: 19 South, Range: 35 East, NMPM
Section 9: W2W2
Section 16: W2W2
Lea County, New Mexico

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, a Communitization Agreement for the development and operation of acreage which is described within the referenced Agreement dated **October 1, 2019**, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this **25th Day of March, 2020**.



COMMISSIONER OF PUBLIC LANDS

of the State of New Mexico

**NM State Land Office
Oil, Gas, & Minerals Division**

STATE/STATE OF
STATE/FEE
Revised March 2017

COMMUNITIZATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS: Well Name: Cable 19 35 9 State Com #1H

STATE OF NEW MEXICO)
)ss
COUNTY OF LEA)

API #: 30-025-46140

THAT THIS AGREEMENT [which is NOT to be used for carbon dioxide or helium] is entered into as of October 15, 2019, by and between the parties subscribing, ratifying or consenting hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico Statutes, Annotated, 1978, in the interest of conservation of oil & gas and the prevention of waste to consent to and approve the development or operation of State Trust Lands under agreements made by lessees of oil & gas leases thereon, jointly or severally with other oil & gas lessees of State Trust Lands, or oil and gas lessees or mineral owners of privately owned or fee lands, for the purpose of pooling or communitizing such lands to form a proration unit or portion thereof, or well-spacing unit, pursuant to any order, rule or regulation of the New Mexico Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department where such agreement provides for the allocation of the production of oil or gas from such pools or communitized areas on an acreage or other basis found by the Commissioner of Public Lands to be fair and equitable.

WHEREAS, the parties hereto, own working, royalty, or other leasehold interests or operating rights under the oil and gas leases and lands subject to this agreement, which leases are more particularly described in the schedule attached hereto, marked Exhibit "A" and made a part hereof, for all purposes; and

WHEREAS, said leases, insofar as they cover the Wolfcamp formation or pool as defined by the NMOCD, as further described on Exhibit "A" (hereinafter referred to as "said formation") in and under the land hereinafter described cannot be independently developed and operated in conformity with the well spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

NOW THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as the "communitized area") are described as follows:

Subdivisions: W/2W/2 & W/2W2

Section 9

Section 16 Township 19 South, Range 35 East, N.M.P.M.

Lea County, New Mexico,

containing 320.00 acres, more or less. It is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath the said land in accordance with the well spacing rules of the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize for proration or spacing purposes only the leases and/or depths described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "communitized substances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this agreement for all purposes, is Exhibit A showing the acreage, depths communitized and ownership (Lessees of Record) of all leases within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.

3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

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4. Catena Resources Operating, LLC shall be the Operator of the said communitized area and all matters of operation shall be determined and performed by Catena Resources Operating, LLC Oil Company.

5. The State of New Mexico hereafter is entitled to the right to take in kind its share for the communitized substances allocated to such tract, and Operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

6. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area, nor shall the Operator be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

7. The commencement, completion, and continued operation or production of a well or wells of communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

8. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws. This agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

9. This agreement shall be effective as of the date hereinabove written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in paying quantities; provided, that this agreement shall not expire if there is a well capable of producing gas in paying quantities located upon some part of the communitized area, if such a well is shut-in due to the inability of the Operator to obtain a pipeline connection or to market the gas therefrom, and if either: (a) a shut-in royalty has been timely and properly paid pursuant to the provisions of one of the State of New Mexico oil and gas leases covering lands subject to this agreement so as to prevent the expiration of such lease; or (b) each of the State of New Mexico oil and gas leases covering lands subject to this agreement is in its primary term (if a five-year lease), or in its primary or secondary term (if a ten-year lease), or is held by production from another well. Provided further, however, that prior to production in paying quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence. As to State Trust Lands, written notice of intention to commence such operations shall be filed with the Commissioner of Public Lands within thirty (30) days after the cessation of such

production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and the Commissioner of Public Lands of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy Minerals and Natural Resources Department, upon which this agreement is predicated or based is in anyway changed or modified, then in such event said agreement is likewise modified to conform thereto.

13. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

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2019 DEC 11 AM 8:00

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

Catena Resources Operating, LLC

(Operator, Record Title Owner and Working Interest Owner)

By: 
Jason Edwards, President

Marshall & Winston, Inc.

(Working Interest Owner)

By: _____

Name: _____

Title: _____

WTG Exploration, Inc.

(Working Interest Owner)

By: 
David L. Davis

Name: David L. Davis

Title: President

Coert Holdings 1, LLC

(Working Interest Owner)

By: _____

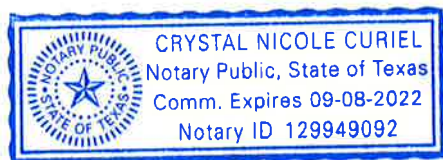
Name: _____

Title: _____

2019 DEC 11 AM 8:00

STATE OF TEXAS)
) ss
 COUNTY OF BEXAR)

This instrument was acknowledged before me this 4th day of December
2019, by Jason Edwards, President of **Catena Resources Operating, LLC**, a Delaware
 corporation on behalf of said corporation.



Crystal Nicole Curiel
 Notary Public
09/08/22
 My Commission expires

STATE OF _____)
) ss
 COUNTY OF _____)

This instrument was acknowledged before me this _____ day of _____
 _____, by _____ as _____
 of _____.

 Notary Public

 My Commission expires

STATE OF Texas)
) ss
 COUNTY OF Midland)

This instrument was acknowledged before me this 5th day of November
2019, by Daniel Davis, President



Kelli R. Gonzalez
 Notary Public
December 14, 2020
 My Commission expires

STATE OF _____)
) ss
 COUNTY OF _____)

This instrument was acknowledged before me this _____ day of _____
 _____, by _____.

 Notary Public

 My Commission expires

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

Catena Resources Operating, LLC
(Operator, Record Title Owner and Working Interest Owner)

By: _____
Jason Edwards, President

Marshall & Winston, Inc.
(Working Interest Owner)

By: _____
Name: _____
Title: _____

WTG Exploration, Inc.
(Working Interest Owner)

By: _____
Name: _____
Title: _____

Coert Holdings 1, LLC
(Working Interest Owner)

By: _____
Name: NICHOLAS C RENWICK
Title: Portfolio Manager, Head of Research

2019 DEC 11 AM 8:00

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

Catena Resources Operating, LLC
(Operator, Record Title Owner and Working Interest Owner)

By: _____
Jason Edwards, President

Marshall & Winston, Inc.
(Working Interest Owner)

By: Tom M. Brandt

Name: Tom M. Brandt

Title: President

WTG Exploration, Inc.
(Working Interest Owner)

By: _____

Name: _____

Title: _____

Coert Holdings 1, LLC
(Working Interest Owner)

By: _____

Name: _____

Title: _____

2019 DEC 11 AM 8:00

2019 DEC 11 AM 8:00

STATE OF TEXAS)
)ss
 COUNTY OF BEXAR)

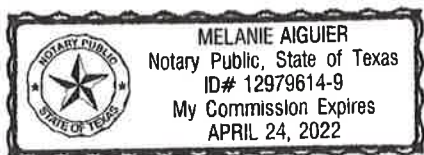
This instrument was acknowledged before me this _____ day of _____, by Jason Edwards, President of **Catena Resources Operating, LLC**, a Delaware corporation on behalf of said corporation.

 Notary Public

 My Commission expires

STATE OF TEXAS)
) ss
 COUNTY OF MIDLAND)

This instrument was acknowledged before me this 17th day of November, 2019, by Tom M. Brandt as President of Marshall & Winston, Inc., a Nevada corporation, on behalf of said corporation.



Melanie Aiguier
 Notary Public, State of Texas

4/24/22
 My Commission expires

STATE OF _____)
) ss
 COUNTY OF _____)

This instrument was acknowledged before me this _____ day of _____, by _____.

 Notary Public

 My Commission expires

STATE OF _____)
) ss
 COUNTY OF _____)

This instrument was acknowledged before me this _____ day of _____, by _____.

 Notary Public

 My Commission expires

2019 DEC 11 AM 8:00

EXHIBIT "A"

Attached to and made a part of that Communitization Agreement dated October 15, 2019 by and between Catena Resources Operating, LLC, et al, and Resonance Resources, LLC.

The Subdivisions: W/2W/2, W/2W/2
Of Sect(s) 9 & 16 Twnshp 19S Rgn 35E NMPM Lea County, NM

Operator of Communitized Area:

Limited in depth from 0 ft to 10,752 ft (enter here what is granted in pooling order if applicable)
OPERATOR of the Communitized Area: Catena Resources Operating, LLC

DESCRIPTION OF LEASES COMMITTED:**Tract No. 1:**

Lessor: Anthony Ray Pillow.
Lessee of Record: Resonance Resources, LLC.
Serial No. Of Lease:
Date: October 1, 2018.
Recorded: Book 2144, Page 917, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Arthur Lynn Robinson, Individually and as Executor of the Estate of Orvelene Robinson.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2145, Page 710, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County NM

Lessor: Barbara Jean Elliott and Lloyd Leslie Elliott, wife and husband.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2144, Page 919, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Barbara Earlene Moore, dealing in her sole and separate property.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2143, Page 369, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: David Pillow, by Linda Carol Sapp, his Attorney-In-Fact
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2152, Page 617, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Dorothy Allen.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2144, Page 918, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Harold Lee Pillow.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2144, Page 914, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Harvey Ronald Pillow.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018
Recorded: Book 2146, Page 54, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: John Cook.

Lessee of Record: Resonance Resources, LLC.

Serial No. of Lease:

Date: October 1, 2018.

Recorded: Book 2146, Page 227, Oil and Gas Records

Subdivisions NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: John Dwayne Allen.

Lessee of Record: Resonance Resources, LLC.

Serial No. of Lease:

Date: November 20, 2018.

Recorded: Book 2144, Page 915, Oil and Gas Records

Subdivisions NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Lerrell Yvonne Allen Trustee of CDA 2013 Trust.

Lessee of Record: Resonance Resources, LLC.

Serial No. of Lease:

Date: October 1, 2018.

Recorded: Book 2144, Page 916, Oil and Gas Records

Subdivisions NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Linda Carol Sapp.

Lessee of Record: Resonance Resources, LLC.

Serial No. of Lease:

Date: October 1, 2018.

Recorded: Book 2145, Page 914, Oil and Gas Records

Subdivisions NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Pamela Pillow.

Lessee of Record: Resonance Resources, LLC.

Serial No. of Lease:

Date: October 1, 2018.

Recorded: Book 2145, Page 913, Oil and Gas Records

Subdivisions NW/4NW/4 containing 40.00 acres, more or less.

Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Rebecca Lovellette
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2152, Page 425, Oil and Gas Records
Subdivisions NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Sabrina S. Braddock and William Shane Braddock, wife and husband.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2146, Page 53, Oil and Gas Records
Subdivisions NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Shenea Cameron.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2145, Page 719, Oil and Gas Records
Subdivisions NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Tamera Rutledge.
Lessee of Record: Resonance Resources, LLC.
Serial No. of Lease:
Date: October 1, 2018.
Recorded: Book 2145, Page 711, Oil and Gas Records
Subdivisions NW/4NW/4 containing 40.00 acres, more or less.
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Tract No. 2:

Lessor: Arthur A. Wellman Jr.
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease: Date: February 12, 2019
Recorded: Book 2151, Page 12, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Barbara Jane Dewey
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: May 30, 2019.
Recorded: Book 2152, Page 900, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Barbara Sue Schmidt
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: February 12, 2019.
Recorded: Book 2151, Page 719, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Catherine Joyce-Coll, as Trustee of the Testamentary Trust
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7, 2019.
Recorded: Book 2155, Page 559, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Clarke C. Coll
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 564, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Diamond Lil Properties, LLC
Original Lessee: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 563, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Elizabeth Farmer Myers
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: February 12, 2019.
Recorded: Book 2151, Page 11, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Eric J. Coll
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 561, Oil and Gas Records
Subdivisions: SW4/NW4 & W2/SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Francesca Leona Wellman
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: April 17, 2019.
Recorded: Book 2151, Page 720, Oil and Gas Records
Subdivisions: NW/4NW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Foundation Income Asset Management, LLC
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: February 12, 2019.
Recorded: Book 2147, Page 338, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Jon F. Coll, II
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 556, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: John T. Echols
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: August 1, 2019.
Recorded: Book 2155, Page 554, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: JPMorgan Chase Bank, N.A. Trustee of the Avis K. Miller Trust
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: August 7 2019.
Recorded: Book 2155, Page 555, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Mary Debora Brady
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: June 19, 2019.
Recorded: Book 2157, Page 51, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Mary Louise Brady (formally Mary Louise Galbreath)
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: April 17, 2019.
Recorded: Book 2155, Page 553, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Max W. Coll, III
Lessee of Record: Catena Resources Operating, LLC.
Serial No of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 558, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Melanie Coll DeTemple
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 565, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Petro Tiger I, LTD.
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: August 1, 2019.
Recorded: Book 2156, Page 848, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Rachel Joan Garrett
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: February 12, 2019.
Recorded: Book 2151, Page 13, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Ronald J. Beyers Company, LLC.
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: July 26, 2019.
Recorded: Book 2155, Page 557, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Round Hill Royalty Limited Partnership
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: June 3, 2019.
Recorded: Book 2157, Page 52, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Rowan Family Minerals, LLC
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 3 2019.
Recorded: Book 2153, Page 921, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Sally Rodgers
Lessee of Record: Catena Resources, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 560, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Lessor: Spirit Trail LLC
Lessee of Record: Catena Resources Operating, LLC.
Serial No. of Lease:
Date: June 7 2019.
Recorded: Book 2155, Page 562, Oil and Gas Records
Subdivisions: SW/4NW/4 & W/2SW/4 containing 120.00 acres, more or less
Sect 9 Twnshp 19S Rng 35E NMPM Lea County, NM

Tract No. 3:

Lessor: State of New Mexico.
Lessee of Record: Adventure Exploration Partners, LLC.
Serial No. of Lease: VB-1344
Date: February 1, 2008.
Recorded: Book 1573, Page 837, Oil and Gas Records
Subdivisions: W/2NW/4 containing 80.00 acres, more or less
Sect 16 Twnshp 19S Rng 35E NMPM Lea County, NM

Tract No. 4:

Lessor: State of New Mexico.
 Lessee of Record: Adventure Exploration Partners, LLC.
 Serial No. of Lease: VB-1345
 Subdivisions: W/2WW/4 containing 120.00 acres, more or less
 Date: February 1, 2008.
 Recorded: Book 1573, Page 832, Oil and Gas Records
 Sec 16 Twnshp 19S Rng 35E NMPM Lea County, NM

RECAPITULATION

TRACT	NO. OF ACRES COMMITTED	PERCENTAGE OF INTEREST IN COMMUNITIZED AREA
Tract No. 1	40.00	50.000% 12.5 ⁹⁰
Tract No. 2	120.00	37.500%
Tract No. 3	80.00	6.2500% 25 ⁹⁰
Tract No. 4	80.00	6.2500% 25 ⁹⁰
TOTAL	320.00	100.000000%

2019 DEC 11 AM 8:00

RECAPITULATION

<u>TRACT</u>	<u>NO. OF ACRES COMMITTED</u>	<u>PERCENTAGE OF INTEREST IN COMMUNITIZED AREA</u>
Tract No. 1	40.00	12.500%
Tract No. 2	120.00	37.500%
Tract No. 3	80.00	25.000%
Tract No. 4	80.00	25.000%
TOTAL	320.00	100.000000%

NEW MEXICO STATE LAND OFFICE**CERTIFICATE OF APPROVAL****COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO**

Catena Resources Operating, LLC
Rambo E2 08 17 State Com #001H
Wolfcamp
Township: 19 South, Range: 35 East, NMPM
Section 08: E2
Section 17: E2

Lea County, New Mexico

There having been presented to the undersigned Commissioner of Public Lands of the State on New Mexico for examination, a Communitization Agreement for the development and operation of acreage which is described within the referenced Agreement dated **November 10, 2021**, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this **27th day of December, 2021**.



COMMISSIONER OF PUBLIC LANDS

of the State of New Mexico

**NM State Land Office
Oil, Gas, & Minerals Division**

**STATE/STATE OR
STATE/FEE**

Revised August 2021

COMMUNITIZATION AGREEMENT

ONLINE Version

KNOW ALL PERSONS BY THESE PRESENTS:

API #: 30-0 025- 49535

STATE OF NEW MEXICO)
SS) Well Name: Rambo E2 08 17 State Com 001H

COUNTY OF LEA)

THAT THIS AGREEMENT [which is NOT to be used for carbon dioxide or helium] is entered into as of (date before 1st production) November 10th, 2024, by and between the parties subscribing, ratifying or consenting hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico Statutes, Annotated, 1978, in the interest of conservation of oil & gas and the prevention of waste to consent to and approve the development or operation of State Trust Lands under agreements made by lessees of oil & gas leases thereon, jointly or severally with other oil & gas lessees of State Trust Lands, or oil and gas lessees or mineral owners of privately owned or fee lands, for the purpose of pooling or communitizing such lands to form a proration unit or portion thereof, or well-spacing unit, pursuant to any order, rule or regulation of the New Mexico Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department where such agreement provides for the allocation of the production of oil or gas from such pools or communitized areas on an acreage or other basis found by the Commissioner of Public Lands to be fair and equitable.

WHEREAS, the parties hereto, own working, royalty, or other leasehold interests or operating rights under the oil and gas leases and lands subject to this agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules & regulations, which leases are more particularly described in the schedule attached hereto, marked Exhibit "A" and made a part hereof, for all purposes; and

WHEREAS, said leases, insofar as they cover the Wolfcamp formation or pool as defined by the NMOCD, as further described on Exhibit "A" (hereinafter referred to as "said formation") in and under the land hereinafter described cannot be independently developed and operated in conformity with the well spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

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August, 2021

State/State

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NOW THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as the "communitized area") are described as follows:

Subdivisions: E/2

Of Sect(s): 8 & 17 Twp: 19S Rng: 35E NMPM Lea County, NM

Containing 640 acres, more or less. It is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath the said land in accordance with the well spacing rules of the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize for proration or spacing purposes only the leases and depths described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "communitized substances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this agreement for all purposes, is Exhibit A showing the acreage, depths communitized and ownership (Lessees of Record) of all leases within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.
3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

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4. Catena Resources Operating, LLC shall be the Operator of the said communitized area and all matters of operation shall be determined and performed by Catena Resources Operating, LLC.

5. The State of New Mexico hereafter is entitled to the right to take in kind its share for the communitized substances allocated to such tract, and Operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

6. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area, nor shall the Operator be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

7. The commencement, completion, and continued operation or production of a well or wells of communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

8. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws. This agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

9. This agreement shall be effective as of the date hereinabove written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules, and regulations; provided, that this agreement shall not expire if there is a well capable of producing gas in paying quantities located upon some part of the communitized area, if such a well is shut-in due to the inability of the Operator to obtain a pipeline connection or to market the gas therefrom, and if either: (a) a shut-in royalty has been timely and properly paid pursuant to the provisions of one of the State of New Mexico oil and gas leases covering lands subject to this agreement so as to prevent the expiration of such lease; or (b) each of the State of New Mexico oil and gas leases covering lands subject to this agreement is in its primary term (if a five-year lease), or in its primary or secondary term (if a ten-year lease), or is held by production from another well. Provided further, however, that prior to production in paying quantities from the communitized

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area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence. As to State Trust Lands, written notice of intention to commence such operations shall be filed with the Commissioner of Public Lands within thirty (30) days after the cessation of such production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and the Commissioner of Public Lands of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy Minerals and Natural Resources Department, upon which this agreement is predicated or based is in anyway changed or modified, then in such event said agreement is likewise modified to conform thereto.

13. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

OPERATOR: Catena Resources Operating, LLC

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OPERATOR: Catena Resources Operating, LLC

BY: John Campbell, III, Authorized Person (Name and Title of Authorized Agent)

[Signature] (Signature of Authorized Agent)

Acknowledgment in an Individual Capacity

State of _____)
County of _____)

This instrument was acknowledged before me on _____

Date

By

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

Acknowledgment in an Representative Capacity

State of Texas)
County of Harris)

This instrument was acknowledged before me on _____

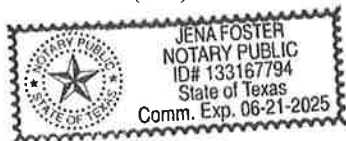
Date : 10/27/21

By: John Campbell, Authorized Agent

Name(s) of Person(s)

(Seal)

[Signature]
Signature of Notarial Officer



My commission expires: 6/21/25

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August, 2021

State/State

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Lease # and Lessee of Record: VC-0874-0000 Catena Resources Operating, LLCBY: John Campbell, III, Authorized Person (Name and Title of Authorized Agent)

John Campbell (Signature of Authorized Agent)

Acknowledgment in an Individual Capacity

State of _____)
 _____ SS)
 County of _____)

This instrument was acknowledged before me on _____

Date _____

By _____

Name(s) of Person(s) _____

(Seal) _____

Signature of Notarial Officer _____

My commission expires: _____

Acknowledgment in an Representative Capacity

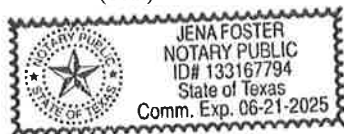
State of Texas)
 _____ SS)
 County of Harris)

This instrument was acknowledged before me on _____

Date: 10/27/21By: John Campbell, Authorized Agent

Name(s) of Person(s) _____

(Seal) _____



Jena Foster

Signature of Notarial Officer _____

My commission expires: 6/21/25

ONLINE
 version
 August, 2021

State/State _____

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Lease # and Lessee of Record: E0-7418-0002 Chevron U.S.A. Inc.

BY: Jeff Wilson, Attorney-in-Fact (Name and Title of Authorized Agent)

[Signature] (Signature of Authorized Agent)

Acknowledgment in an Individual Capacity

State of Texas)
)
County of Harris)

This instrument was acknowledged before me on October 24 Date 2021

By Jeff Wilson

Name(s) of Person(s)



[Signature]
Signature of Notarial Officer

My commission expires: 11/4/2022

Acknowledgment in an Representative Capacity

State of _____)
)
County of _____)

This instrument was acknowledged before me on _____

Date: _____

By: _____

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

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August, 2021

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2021 NOV 17 AM 11:21

Lease # and Lessee of Record: VB-2287-0000 MRC Permian CompanyBY: Craig N. Adams - EVPS COO (Name and Title of Authorized Agent)Craig N. Adams (Signature of Authorized Agent) P. J. D. W. J.**Acknowledgment in an Individual Capacity**State of _____)
County of _____)
SS)

This instrument was acknowledged before me on _____

Date

By _____

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

Acknowledgment in an Representative CapacityState of _____)
County of _____)
SS)

This instrument was acknowledged before me on _____

Date: _____

By: _____

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

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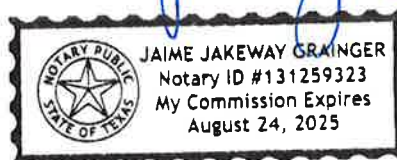
ACKNOWLEDGEMENTS

STATE OF TEXAS §

§

COUNTY OF DALLAS §

This instrument was acknowledged BEFORE ME on the 11th day of November, 2021, by Craig N. Adams, as EVP & COO of **MRC Permian Company**, a Texas corporation, on behalf of said corporation.



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EXHIBIT A

Attached to and made a part of that Communitization Agreement dated November 1, 2021
by and between Catena Resources Operating, LLC, (Operator) Chevron U.S.A. Inc.,
and MRC Permian Company, (Record Title Holders/Lessees of Record) covering the
Subdivisions: E/2
Sect(s): 8&17, Twnshp 19S, Rnge: 35E, NMPM Lea County, NM
Limited in depth from 10,881 ft to 11,775 ft. (enter here what is granted in pooling order if
applicable)
OPERATOR of Communitized Area: Catena Resources Operating, LLC

DESCRIPTION OF LEASES COMMITTED:**TRACT NO. 1**

Lessor: Snyder Ranches, Inc.
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 12/12/2012
Description of Lands Committed:

Subdivisions: S/2 NE/4
Sect(s): 8 Twnshp: 19S, Rng: 35E NMPM Lea County NM
No. of Acres: 80

TRACT NO. 2

Lessor: Mike Frier & Karen Frier, husband & wife
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 11/30/2012
Description of Lands Committed:

Subdivisions: N/2 NE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 80

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Lessor: Brian L. Weaver & Suzanne Weaver, husband & wife
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 11/30/2012
Description of Lands Committed:

Subdivisions: N/2 NE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 80

Lessor: The Hazel Z. Hart Trust dtd. 6/2/1980
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 12/5/2012
Description of Lands Committed:

Subdivisions: N/2 NE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 80

Lessor: Estate of Tessie I. Smith, deceased
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 12/12/2012
Description of Lands Committed:

Subdivisions: N/2 NE/4
Sect(s): 8 Twnshp: 19S Rng: 34E NMPM Lea County, NM
No. of Acres: 80

TRACT NO. 3

Lessor: State of New Mexico, by and through its Commissioner of Public Lands
Lessee of Record: Skelly Oil Company
Serial No. of Lease: E0-7418 Date of Lease: 9/15/1953
Description of Lands Committed:

Subdivisions: S/2 SE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 80

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TRACT NO. 4

Lessor: State of New Mexico, by and through its Commissioner of Public Lands
Lessee of Record: MRC Permian Company
Serial No. of Lease: VB-2287 Date of Lease: 7/1/2013
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

TRACT NO. 5

Lessor: Ora Jackson Mineral Trust created in 2018
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/25/2019
Description of Lands Committed:

Subdivisions: NW/4 SE/4
Sect(s): 8 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

TRACT NO. 6

Lessor: Jeannine Hooper Byron Trust UTA dtd 6/18/2003
Lessee of Record: KLMC, Inc.
Serial No. of Lease: _____ Date of Lease: 11/2/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Robert G. Hooper GST Trust
Lessee of Record: KLMC, Inc.
Serial No. of Lease: _____ Date of Lease: 11/2/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

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Lessor: Deborah H. Wachsmuth GST Trust
Lessee of Record: KLMC, Inc.
Serial No. of Lease: _____ Date of Lease: 11/2/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Hooper & Sons, LLC
Lessee of Record: KLMC, Inc.
Serial No. of Lease: _____ Date of Lease: 11/2/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Jack P. Hooper GST Trust
Lessee of Record: KLMC, Inc.
Serial No. of Lease: _____ Date of Lease: 11/9/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Michael T. Hooper GST Trust
Lessee of Record: Boss Hog Royalties, LLC
Serial No. of Lease: _____ Date of Lease: 12/29/2018
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Robert G. Hooper
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed:

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

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Lessor: Deborah H. Wachsmuth
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Jeannine Hooper Byron Trust UTA dtd 6/18/2003
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Hooper & Sons, LLC
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: NE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

TRACT NO. 7

Lessor: Lorraine Clark
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed: _____

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

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Lessor: Lynda Bates Dicke
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

Lessor: Diana Bates Garza
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

Lessor: Johnny Knox Bates
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

Lessor: Centennial, LLC
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/4/2019
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

Lessor: Ronald Peters Revocable Family Trust uta dtd 2/2/2016
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/4/2019
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

2021 NOV 1 AM 11:21

Lessor: Robert Lynn Bates
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

Lessor: Donald Jay Clark
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: NE/4 & NW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 200

TRACT NO. 8

Lessor: State of New Mexico, by and through its Commissioner of Public Lands
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: VC-0874 Date of Lease: 6/1/2021
Description of Lands Committed:

Subdivisions: SE/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

TRACT NO. 9

Lessor: Jack P. Hooper GST Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/6/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Robert G. Hooper GST Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Deborah H. Wachsmuth GST Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Jeannine Hooper Byron Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Hooper & Sons, LLC
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Michael T. Hooper GST Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/6/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

2021 NOV 17 AM 11:21

Lessor: Velta Jean Daigneault
Lessee of Record: COG Operating, LLC
Serial No. of Lease: _____ Date of Lease: 7/7/2014
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Velta Jean Daigneault
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/1/2019
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Robert Mitchell Raindl
Lessee of Record: COG Operating, LLC
Serial No. of Lease: _____ Date of Lease: 3/11/2014
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Debra Kay Primera
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/27/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Ricky D. Raindl
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/27/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

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Lessor: Tommy L. Fort
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/1/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: RFort Mineral Properties, LLC
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/11/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Margi Bruns, widow
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/24/2021
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Janet J. Tidwell
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 9/22/2011
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

Lessor: Nancy B. Parks
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 9/22/2011
Description of Lands Committed: _____

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea _____ County, NM
No. of Acres: 40

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August, 2021

State/State

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Lessor: Diana K. Hammonds
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 9/22/2011
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Trevor S. Turmelle
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 4/27/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Aurora J. Rohana (f/k/a Aurora J. Hooper)
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/6/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Deborah H. Wachsmuth
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Jack P. Hooper
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 5/6/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

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Lessor: Robert G. Hooper
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 8/19/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Beulah H. Simmons Trust and J. E. Simmons Trust
Lessee of Record: Catena Resources Operating, LLC
Serial No. of Lease: _____ Date of Lease: 6/30/2021
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: Cindy A. Polk
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: William P. McIntosh
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

Lessor: The Merry A. McIntosh Living Trust
Lessee of Record: Featherstone Development Corporation
Serial No. of Lease: _____ Date of Lease: 7/1/2011
Description of Lands Committed:

Subdivisions: SW/4 SE/4
Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
No. of Acres: 40

2021 NOV 17 AM 11:21

Lessor: David C. McIntosh
 Lessee of Record: Featherstone Development Corporation
 Serial No. of Lease: _____ Date of Lease: 7/1/2011
 Description of Lands Committed:

Subdivisions: SW/4 SE/4
 Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
 No. of Acres: 40

Lessor: Marcia M. Tidwell
 Lessee of Record: Featherstone Development Corporation
 Serial No. of Lease: _____ Date of Lease: 7/1/2011
 Description of Lands Committed:

Subdivisions: SW/4 SE/4
 Sect(s): 17 Twnshp: 19S Rng: 35E NMPM Lea County, NM
 No. of Acres: 40

RECAPITULATION

Tract number	Number of Acres Committed	Percentage of Interest In Communitized Area (Must equal 100%)
No. 1	<u>80</u>	<u>12.5%</u>
No. 2	<u>80</u>	<u>12.5%</u>
No. 3	<u>80</u>	<u>12.5%</u>
No. 4	<u>40</u>	<u>6.25%</u>
No. 5	<u>40</u>	<u>6.25%</u>
No. 6	<u>40</u>	<u>6.25%</u>
No. 7	<u>200</u>	<u>31.25%</u>
No. 8	<u>40</u>	<u>6.25%</u>
No. 9	<u>40</u>	<u>6.25%</u>
TOTALS	<u>640</u>	<u>100.0%</u>

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Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Catena Resources Operating, LLCOGRID Number: 328449Well Name: Multiple Wells, see attachedAPI: Multiple Wells, see attachedPool: Scharb; WolfcampPool Code: 55640

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☒ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

A. ☐ Offset operators or lease holdersB. ☒ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required

FOR OCD ONLY

☐

Notice Complete

☐Application
Content
Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Cato Clark

Print or Type Name

Signature

Date

2/22/22

346-200-7894

Phone Number

clark@catenares.com

e-mail Address

From: [Engineer, OCD, EMNRD](#)
To: [Cato Clark](#)
Cc: [McClure, Dean, EMNRD](#); [Kautz, Paul, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); lisa@rwbyram.com; [Dawson, Scott](#)
Subject: Approved Administrative Order CTB-1035
Date: Monday, April 25, 2022 10:38:28 AM
Attachments: [CTB1035 Order.pdf](#)

NMOCD has issued Administrative Order CTB-1035 which authorizes Catena Resources Operating, LLC (328449) to surface commingle or off-lease measure, as applicable, the following wells:

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-49535	Rambo E2 08 17 State Com #1H	E/2	8-19S-35E	55640
		E/2	17-19S-35E	
30-025-49536	Rambo E2 08 17 State Com #2H	E/2	8-19S-35E	55640
		E/2	17-19S-35E	
30-025-46140	Cable 19 35 09 State Com #1H	W/2 W/2	9-19S-35E	55640
		W/2 W/2	16-19S-35E	

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
 Petroleum Engineer, Oil Conservation Division
 New Mexico Energy, Minerals and Natural Resources Department
 (505) 469-8211

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

**APPLICATION FOR SURFACE COMMINGLING
SUBMITTED BY CATENA RESOURCES OPERATING,
LLC**

ORDER NO. CTB-1035

ORDER

The Director of the New Mexico Oil Conservation Division (“OCD”), having considered the application and the recommendation of the OCD Engineering Bureau, issues the following Order.

FINDINGS OF FACT

1. Catena Resources Operating, LLC (“Applicant”) submitted a complete application to surface commingle the oil and gas production from the pools, leases, and wells identified in Exhibit A (“Application”).
2. Applicant proposed a method to allocate the oil and gas production to the pools, leases, and wells to be commingled.
3. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that the ownership in the pools, leases, and wells to be commingled is identical as defined in 19.15.12.7.B. NMAC.
4. To the extent that ownership is diverse, Applicant provided notice of the Application to all persons owning an interest in the oil and gas production to be commingled, including the owners of royalty and overriding royalty interests, regardless of whether they have a right or option to take their interests in kind, and those persons either submitted a written waiver or did not file an objection to the Application.
5. Applicant provided notice of the Application to the Bureau of Land Management (“BLM”) or New Mexico State Land Office (“NMSLO”), as applicable.

CONCLUSIONS OF LAW

6. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, §§ 70-2-6, 70-2-11, 70-2-12, 70-2-16, and 70-2-17, 19.15.12. NMAC, and 19.15.23. NMAC.
7. Applicant satisfied the notice requirements for the Application in accordance with 19.15.12.10.A.(2) NMAC, 19.15.12.10.C.(4)(c) NMAC, and 19.15.12.10.C.(4)(e) NMAC, as applicable.
8. Applicant satisfied the notice requirements for the Application in accordance with 19.15.23.9.A.(5) NMAC and 19.15.23.9.A.(6) NMAC, as applicable.

9. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.10.B.(1) NMAC or 19.15.12.10.C.(1) NMAC, as applicable.
10. Commingling of oil and gas production from state, federal, or tribal leases shall not commence until approved by the BLM or NMSLO, as applicable, in accordance with 19.15.12.10.B.(3) NMAC and 19.15.12.10.C.(4)(h) NMAC.
11. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

1. Applicant is authorized to surface commingle oil and gas production from the pools, leases, and wells identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from the pools, leases, and wells identified in Exhibit A at a central tank battery described in Exhibit A.

2. The oil and gas production for each well identified in Exhibit A shall be separated and metered prior to commingling.
3. Applicant shall measure and market the commingled oil at a central tank battery described in Exhibit A in accordance with this Order and 19.15.18.15. NMAC or 19.15.23.8. NMAC.
4. Applicant shall measure and market the commingled gas at a well pad, central delivery point, central tank battery, or gas title transfer meter described in Exhibit A in accordance with this Order and 19.15.19.9. NMAC, provided however that if the gas is vented or flared, and regardless of the reason or authorization pursuant to 19.15.28.8.B. NMAC for such venting or flaring, Applicant shall measure or estimate the gas in accordance with 19.15.28.8.E. NMAC.
5. Applicant shall calibrate the meters used to measure or allocate oil and gas production in accordance with 19.15.12.10.C.(2) NMAC.
6. If the commingling of oil and gas production from any pool, lease, or well reduces the value of the commingled oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new surface commingling application to OCD to amend this Order to remove the pool, lease, or well whose oil and gas production caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
7. Applicant shall not commence commingling oil or gas production from state, federal, or tribal leases until approved by the BLM or NMSLO, as applicable.
8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).

9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**



**ADRIENNE E. SANDOVAL
DIRECTOR**

DATE: 4/22/2022

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

Order: **CTB-1035**

Operator: **Catena Resources Operating, LLC (328449)**

Central Tank Battery: **Cable Central Tank Battery**

Central Tank Battery Location: **UL M, Section 4, Township 19 South, Range 35 East**

Gas Title Transfer Meter Location: **UL M, Section 4, Township 19 South, Range 35 East**

Pools

Pool Name	Pool Code
SCHARB; WOLFCAMP	55640

Leases as defined in 19.15.12.7(C) NMAC

Lease	UL or Q/Q	S-T-R
CA Wolfcamp NMSLO PUN 1378916	W/2 W/2	9-19S-35E
	W/2 W/2	16-19S-35E
CA Wolfcamp NMSLO PUN 1392401	E/2	8-19S-35E
	E/2	17-19S-35E

Wells

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-49535	Rambo E2 08 17 State Com #1H	E/2	8-19S-35E	55640
		E/2	17-19S-35E	
30-025-49536	Rambo E2 08 17 State Com #2H	E/2	8-19S-35E	55640
		E/2	17-19S-35E	
30-025-46140	Cable 19 35 09 State Com #1H	W/2 W/2	9-19S-35E	55640
		W/2 W/2	16-19S-35E	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 83559

CONDITIONS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 83559
	Action Type: [C-107] Surface Commingle or Off-Lease (C-107B)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.	4/25/2022