

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

Form C-101
August 1, 2011
Permit 264308

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Catena Resources Operating, LLC 18402 US Hwy 281 N San Antonio, TX 78259		2. OGRID Number 328449
4. Property Code 325018		3. API Number 30-025-45648
5. Property Name CABLE 19 35 16 STATE		6. Well No. 002H

7. Surface Location

UL - Lot B	Section 16	Township 19S	Range 35E	Lot Idn B	Feet From 225	N/S Line N	Feet From 1470	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot O	Section 21	Township 19S	Range 35E	Lot Idn O	Feet From 100	N/S Line S	Feet From 1650	E/W Line E	County Lea
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9. Pool Information

SCHARB;BONE SPRING	55610
PEARL;BONE SPRING	49680

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3793
16. Multiple Y	17. Proposed Depth 20596	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/8/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1946	1460	0
Int1	12.25	9.625	40	4050	870	0
Prod	8.75	5.5	20	20596	3630	3550

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Shaffer
Double Ram	5000	5000	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Robert Swann	Approved By: Paul F Kautz
Title:	Title: Geologist
Email Address: rswann@catenares.com	Approved Date: 3/1/2019 Expiration Date: 3/1/2021
Date: 2/28/2019 Phone: 210-775-6993	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025	² Pool Code 55610	³ Pool Name Scharb; Bone Spring
⁴ Property Code	⁵ Property Name CABLE 19S35E16	⁶ Well Number 2H
⁷ OGRID No. 328127	⁸ Operator Name CATENA RESOURCES OPERATING, LLC	⁹ Elevation 3793.0

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
B	16	19 S	35 E		225	NORTH	1470	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	21	19 S	35 E		100	SOUTH	1650	EAST	LEA

¹² Dedicated Acres 80	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.

11 OPERATOR CERTIFICATION 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. Signature: <i>Brian Wood</i> Date: 2-27-19 Printed Name: Brian Wood E-mail Address: brian@permitswest.com		12 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 15, 2019 Date of Survey: FEBRUARY 15, 2019 Signature of Professional Surveyor: <i>Simon E. Jaramillo</i> Certificate Number: SHIMON E. JARAMILLO, PLS 12797 SURVEY NO. 6937	
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025	² Pool Code 49680	³ Pool Name Pearl; Bone Spring
⁴ Property Code	⁵ Property Name CABLE 19S35E16	⁶ Well Number 2H
⁷ OGRID No. 328127	⁸ Operator Name CATENA RESOURCES OPERATING, LLC	⁹ Elevation 3793.0

» Surface Location

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Form APD Comments

Permit 264308

PERMIT COMMENTS

Operator Name and Address: Catena Resources Operating, LLC [328449] 18402 US Hwy 281 N San Antonio, TX 78259		API Number: 30-025-45648
		Well: CABLE 19 35 16 STATE #002H
Created By	Comment	Comment Date
pkautz	see e-mail sent to Brian Wood	2/28/2019

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Form APD Conditions

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Catena Resources Operating, LLC [328449] 18402 US Hwy 281 N San Antonio, TX 78259	API Number: 30-025-45648
	Well: CABLE 19 35 16 STATE #002H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.