

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

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

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

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

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Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

AMENDED REPORT

5/3

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

¹ Operator Name and Address Catena Resources Operating, LLC 18402 US Highway 281 N, Suite 258 San Antonio TX 78259 (210) 319-7557		² OGRID Number 328127 328449
³ Property Code 329008		⁴ API Number 30-025-45631
⁵ Property Name Anchor 193528 193528 STATE COM		⁶ Well No. 1H

7. Surface Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	21	19 S	35 E		400	S	400	W	Lea

8. Proposed Bottom Hole Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	33	19 S	35 E		100	S	330	W	Lea

9. Pool Information	
Pool Name	Pool Code
Klein Ranch; Wolfcamp	96989

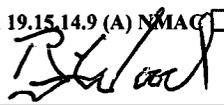
¹¹ Work Type N	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3771'
¹⁶ Multiple N	¹⁷ Proposed Depth TVD: 11331' MD: 21680'	¹⁸ Formation Wolfcamp	¹⁹ Contractor to be determined	²⁰ Spud Date upon approval
Depth to Ground water 60' in L 12473		Distance from nearest fresh water well 1498' southwest of L 12473		Distance to nearest surface water ≈3000' SW of stock tank

A closed-loop system will be used 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
Surface	17.5"	13.375"	54.5	GL - 1850'	1070 lead + 320 tail	GL
Intermediate	12.25"	9.625"	40.0	GL - 4100'	630 lead + 250 tail	GL
Production	8.75"	5.5"	20.0	GL - 21367'	790 lead + 3030 tail	3600'

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program			
Type	Working Pressure (psi)	Test Pressure (psi)	Manufacturer
annular and single & double rams	ann: 3000 and rams: 5000	ann: 3000 and rams: 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 that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: 	OIL CONSERVATION DIVISION	
	Approved By: 	
Printed name: Brian Wood	Title: Petroleum Engineer	
Title: Consultant	Approved Date: 02/22/19	Expiration Date: 02/22/21
E-mail Address: brian@permitswest.com		
Date: 2-5-19	Phone: 505 466-8120	Conditions of Approval Attached

**See Attached
Conditions of Approval**