

Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-37035
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Catena Resources Operating, LLC.		6. State Oil & Gas Lease No. 326180
3. Address of Operator 1001 Fannin Street, STE 2200, Houston TX 77002		7. Lease Name or Unit Agreement Name South Vacuum Unit
4. Well Location Unit Letter <u>L</u> : <u>1940</u> feet from the <u>South</u> line and <u>980</u> feet from the <u>West</u> line Section <u>26</u> Township <u>18S</u> Range <u>35E</u> NMPM <u>Lea</u> County <u>NM</u>		8. Well Number <u>265</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4068' GL - 4085' KB		9. OGRID Number <u>328449</u>
		10. Pool name or Wildcat 97467 Reeves; Wolfcamp, South

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	
CLOSED-LOOP SYSTEM <input type="checkbox"/>	
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Wellbore Plug & Abandonment Lat/Long: 32.7175636 / -103.4402466 (NAD83)

(1) MIRU. RIH with workstring. Tag CIBP and cement plug top at 10,712'. RU pump and circ hole with 9.5 ppg mud.

(2) Spot 25 sxs class 'H' cement from 10,069' to 9,866'. (Top of Wolfcamp ~9,969')

(3) Spot 25 sxs class 'C' cement from 7,140' to 6,887'. (Top of Bone Spring ~7,040')

(4) Spot 25 sxs class 'C' cement from 6,021' to 5,768'. (Top of Delaware ~5,921')

(5) Attempt to freepoint and cut 5-1/2" casing and recover as much as possible. Estimate cut around 5,500' (actual TBD).

* If casing recovering is unsuccessful, will perf and squeeze 5-1/2" casing for the remaining cement plugs on the way out.

(6) Spot 65 sxs class 'C' cement from 5,600' to 5,395'. WOC 4 hrs. Tag and spot more cement as needed.

(7) Spot 70 sxs class 'C' cement from 3,946' to 3,733'. WOC 4 hrs. Tag and spot more cement as needed. (9-5/8" shoe at 3,846')

(8) Spot 70 sxs class 'C' cement from 1,922' to 1,709'. WOC 4 hrs. Tag and spot more cement as needed. (Top of Salt ~1,822')

(9) Spot 185 sxs cement from 520' to 0'. (13-3/8" shoe at 420')

(10) Cut off casings 3' below ground level. Visually verify cement top. Top off as necessary.

(11) Set dry hole marker per requirements.

4" Diameter 4' tall above ground marker

See attached conditions of approval

Spud Date:

01/12/2005

Rig Release Date:

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

SIGNATURE Karen Zornes TITLE Regulatory Consultant DATE 08/12/2022

Type or print name Karen Zornes E-mail address: kzornes@ntglobal.com PHONE: 2818729300

For State Use Only

APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 9/15/22
 Conditions of Appr

**CONDITIONS OF APPROVAL
FOR PLUGGING AND ABANDONMENT
OCD - Southern District**

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office I (Hobbs) at (575)-263-6633 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down.

Company representative will be on location during plugging procedures.

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal - commercial or private- shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.
16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).

19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
- A) Fusselman
 - B) Devonian
 - C) Morrow
 - D) Wolfcamp
 - E) Bone Springs
 - F) Delaware
 - G) Any salt sections
 - H) Abo
 - I) Glorieta
 - J) Yates.
 - K) Potash---(In the R-111-P Area (Potash Mine Area),
A solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing.

DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name
2. Lease and Well Number
3. API Number
4. Unit letter
5. Quarter Section (feet from the North, South, East or West)
6. Section, Township and Range
7. Plugging Date
8. County

SPECIAL CASES -----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

Well Name:	South Vacuum 26-5
AFE #	
	Location:
Footage:	Unit Letter L, 1940' FSL, 980' FWL
Section:	26
Township:	18S
Range:	35E
County:	LEA
Lat:	32.716568
Long:	-103.4334793
	Elevations:
GL:	3876'
KB:	3896'
KB-GL Calc:	20'
ck w/log?	xxx

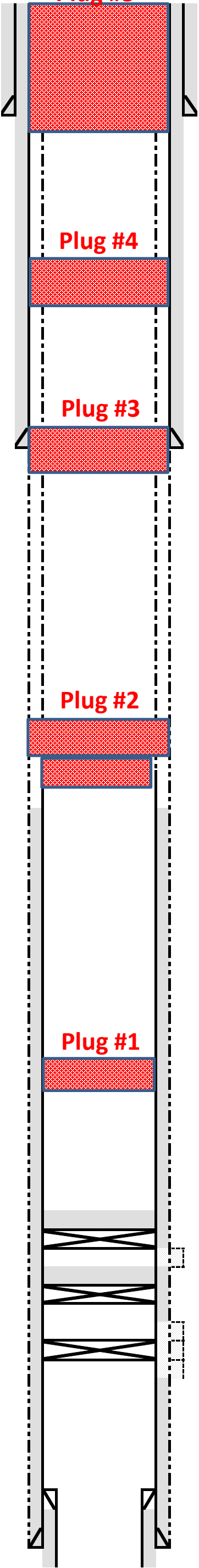
Date	History

	32.7		
	Proposed Tubing Detail (top to bottom)		
Joints	Description	Footage	Depth

	Proposed Rod Detail (top to bottom)		
Rods	Description	Footage	Depth

Updated:
3/12/2019 M Bowers
8/5/2022 HD Smith

PROPOSED
Wellbore Diagram



Well Name:	South Vacuum 26-5
API No:	30-025-37035
Spud Date:	1/11/2005

Hole Size:	17-1/2"
Surf Csg:	13.375", 48 lb/ft, H-40, ST&C @ 415'
Lead Cement Blend:	210 sxs with 35.65Poz.; Class C; 6% D20; 1pps D29; 2% S1
Tail Cement Blend:	235 sxs Class C +2% S001
Returns:	Bumped plug + 500psi. Had partial returns, no cement to surface sxs to surface.
TOC:	Surface

Hole Size:	12.250"
Int Csg:	FS 2 jts 9.625", FC 90 jts 9.625", 40 lb/ft, J55, STS; FS @ 3900' FC @ 3812'
Lead Cement Blend:	1100 sxs 50/50 Poz; Class C +10% D20, 5% D44, .1pps D29, @ 11.9 ppg
Tail Cement Blend:	190 sxs Neat C @ 14.8 ppg
Returns:	Cement to surface; Bumped plug +500psi; Floats held;
TOC:	Surface

Est TOC: 6,500'	Marker Joint @ ?
Hole Size:	8.75"
Prod Csg:	7"csg - FS shoe Jt, Fc, shoe jt, 4 jts csg, 14 jts csg, open hole pkr & DV tool, 78 jts 29# P110, 78 jts 29# L80, 38 jts 26# N80, 100 jts 29# L80, 18 jts 29# N80 Buttress) @ 12,575'
Capacity (bbl/ft):	NA
Preflush:	

Lead Cement Blend:	135 sxs PVL @ 13ppg 1.39 yl
Tail Cement Blend:	620 sxs PVL @ 13ppg 1.39 yl
Returns:	
Displacement Inc:	
TOC	est. 6500'

Hole Size:	6.125"
Prod Csg:	5" liner - FS, shoe Jt, Landing co., 65 jts liner, x-over, Liner Hanger, Hanger Pkr (2907') @15,248'
Capacity (bbl/ft):	NA
Preflush:	20 bbls mud flush

Lead Cement Blend:	300 sxs PVL @ 13ppg 1.39 yl
Tail Cement Blend:	
Returns:	
Displacement Inc:	
TOC	

35' Cement on top of CIBP - TOC at 9780
CIBP @ 9,815' - 11/24/2020
Perf (Formation): 9870'-9900'; 9900'-9930'; 9930'-9960'; 4spf; 360 holes (11-11 cement, 2 - 40' bailers on top of CIBP (11-11-2014)
CIBP @ 11,010' (11-10-2014)

Perf (Formation): 11440'-11470'; 11470'-11500'; 4spf 420 holes (8-4-2014)
CIBP @ 11,530' (8-4-2014)
Perf (Formation): 11440'-11460'; 11486'-11496'; 11540'-11570'; unknown (11-

12343'
12575'

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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COMMENTS

Action 133661

COMMENTS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 133661
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	9/16/2022

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	Action Number: 133661
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Created By	Condition	Condition Date
kfortner	See attached COA	9/15/2022