

Submit a Copy To Appropriate District
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

WELL API NO. 30-015-45204
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Mad Cow SWD
8. Well Number 1
9. OGRID Number 371643
10. Pool name or Wildcat SWD; Devonian-Silurian

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.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD

2. Name of Operator
Solaris Water Midstream, LLC

3. Address of Operator
9651 Katy Freeway, Suite 400, Houston, TX 77024

4. Well Location
Unit Letter I : 2443 feet from the South line and 1135 feet from the East line
Section 12 Township 24 S Range 30 E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,535'

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: Plug & Abandon ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

Notify OCD 24 hrs. prior to any work done, gilbert.cordero@emnrd.nm.gov
so a CO may be assigned.

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.

Solaris Water requests permission to P&A this wellbore as outlined below and in the proposed P&A wellbore diagram.

See the proposed well bore diagram and cover letter for the plugging scope.

Spud Date: 10/13/2018

Rig Release Date: 01/17/2019

SEE ATTACHED COA's

MUST BE PLUGGED BY 9/12/26

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

SIGNATURE Faith Malton TITLE Regulatory Engineer DATE 09/09/2025

Type or print name Faith Malton E-mail address: Faith.malton@ariswater.com PHONE: 932-454-0001

For State Use Only

APPROVED BY: [Signature] TITLE Staff Manager DATE 9/24/25

Conditions of Approval (if any):



BRUINGTON ENGINEERING, LLC
SOLARIS WATER MIDSTREAM, LLC
MAD COW SWD NO. 1 (30-015-45204)
Eddy County, New Mexico

PROPOSED PLUGGING PROCEDURE
September 26, 2025
AFE Number

Objective:

Plug and abandon the wellbore.

Directions to Well:

Turn south off Highway 128 (Jal Highway) onto Twin Wells Road. Go 5.3 miles and turn right just behind the big Oxy tank battery and follow the road 0.9 miles, bearing to the right, then turn right (north). Go 0.25 miles to EOG SQUIRES ALR #002 pump jack, then turn left and go 0.1 mile to location.

Contact List:

Steve Bruington Consulting Engineer	Office: 210-828-8117 Cell: 210-213-4251 Email: steveb@bruingtonengineering.com
Jeffery Cook VP, Engineering Solaris Water Solutions, LLC	Cell: 713-614-3644 Email: Jeffery.cook@ariswater.com
Sheriff's Department Eddy County (Non-Emergency)	911 575-887-7551
Fire Department Eddy County Fire Rescue	911 575-628-5450

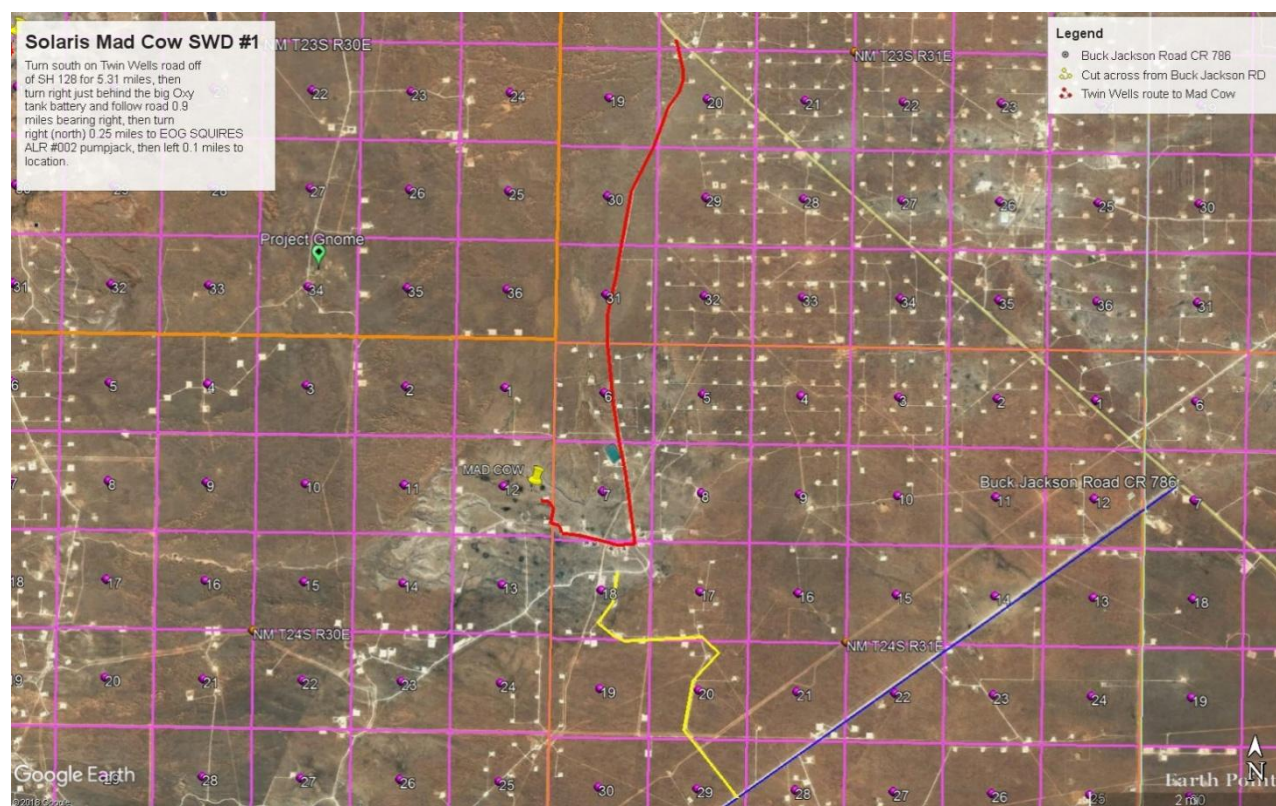
**BRUINGTON ENGINEERING, LLC**

Ambulance, EMS
Carlsbad EMS (Non-Emergency)

911
575-885-3125

Latitude (NAD83)
Longitude (NAD83)
Elevation

32.2318593N
103.8293325'W
3535'

**Nearest Hospital:**

Carlsbad Medical Center
2430 W. Pierce St., Carlsbad, NM 88220
575-887-4100

Petroleum Engineering Consulting

T – 210-828-8117 F – 210-828-5274

bruingtonengineering.com

8620 N. New Braunfels, Ste. 315, San Antonio, TX 78217



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WELL DATA:

- 20", 94#/ft, J55, BTC surface casing set at 667'; cement circulated to surface
- 13-3/8", 68#/ft, J55, BTC (0-3079') and 72#/ft, HCP-110, BTC (3079'-4269') intermediate casing set at 4269'; circulated 500 barrels of cement to surface
- 9-5/8", 53.5#/ft, HCP-110, 8R, LTC intermediate casing set at 10,748'; DV tool with ECP set at 4244'; cement was not circulated to surface thru the DV tool
- 7-5/8", 39#/ft, P110, EZGO, FJ3 liner set from 14,387'-10,470' with Peak liner top packer
- 5-1/2", 23#/ft, HCP110, EZGO, FJ3, (51 joints) liner with Halliburton Versa flex expandable liner hanger: top of liner at 14,379'; cemented to top of liner; liner set from 16,615'-14,379'
- 5-1/2", 23#/ft, HCP-110, EZGO, FJ3 scab liner with Halliburton VersaFlex liner hanger set from 14,386'-14,273'
- Drilled 4-1/2" hole to 17,650'; mud weight = 10.7 ppg cut brine
- Injection interval: 16,615'-17,650' (Devonian)
- 232 joints 5-1/2", 20#/ft, HCP-110, EZGO, HTGT tubing from 0'-10,130'
- 98 joints of 5", 20/ft, P110, EZGO, FJ3 tubing from 10,130'-14,042'
- 78 joints of 3-1/2", 9.3#/ft, L80, EZGO, FJ3 tubing from 14,042'-16,658'; spaced out with slick joint and 2 pup joints with Halliburton 3" ATR locator seal unit (2.96" x 2.328") with 40,000# weight on the packer (65,000# slackoff at the surface)
- 5-1/2" Halliburton BWS nickel plated permanent packer with 3-5/8" x 9.38" nickel alloy seal 925 bore extension set at 16,570'; 2-7/8", 6.5#/ft, L-80, EUE nickel plated pup joint, 3.673" x 2.313" nickel alloy XN-nipple with 2.205" No-Go; end of packer assembly at 16,570'. See attached packer setting detail.
- 13-3/8" x 13-5/8" 5000 psi C-22, SOW casing head
- 13-5/8" 5000 psi x 11" 10,000 psi tubing spool no trim description; (3) 1-13/16" 10,000 psi, gate valves
- 11" 10,000 psi x 5-1/8" 5000 psi adaptor flange
- 5-1/8" 5000 psi gate valve with FF trim
- 5-1/8" 5000 psi gate valve – trim unknown
- 5-1/2" CT-SWD pin x 5" FJ3 crossover, 17-4 PH 1150 stainless steel tubing hanger
- 11", 10,000 psi C-22 x 5-1/2" CT-SWD bottom with 5" Acme lifting threads and 5" Type H back pressure valve, 718 Inconel
- (2) 5-1/8" 5000 psi master valves
- Fluid in the annulus: 11.6 ppg CaCl₂
- SITP = 0 psi
- SICP = 0 psi
- Set 2.75" OD Diamondback Eliminator bridge plug rated to 10,000 psi and 400° F at 16,555'; dumped 39' of cement on top of plug; the plug did not test
- Set 2.75" OD Diamondback Eliminator bridge plug rated to 10,000 psi and 400° F at 16,226'; tested the plug to 3000 psi; dumped 25' of cement on top of the plug
- Punched holes in the 3-1/2" tubing at 14,138'

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The 2 plugs and hole punchers were done without OCD approval or notification



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- Elevation: 27' from ground level to kelly bushing

See COAs and adjust cement volumes accordingly

PROPOSED PROCEDURE:

This procedure is based on the following assumptions:

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- The well is dead
 - The CBLs for the 5-1/2" and 7-5/8" liners are on file with the NMOCD
 - The regulatory filings indicate the 20" and 13-3/8" casings were cemented to surface
1. Notify NMOCD in Artesia (575-748-1283) at least 24 hours prior to performing plugging operations.
 2. Check and record the SITP and SICP.
 3. Move in and rig up Hurricane 24-hour workover rig with 3.5 power swivel, 11" 5000 psi BOPs with blind rams and 3-1/2" x 5-1/2" variable bore pipe rams on top and blind rams on bottom, accumulator unit, (2) 5-1/2" FJ3, 5" FJ3 and 3-1/2" FJ3 TIW valves, frac tanks, open top tanks, and pipe racks. The BOPs and TIW valves must have test charts indicating most recent pressure tests.
 4. Bleed off the shut in pressure through the Force flowback manifold. If the pressure does not bleed to zero then circulated the well with 11.6 ppg CaCl₂ water.
 5. Set two-way check valve in the tubing hanger to isolate the open hole.
 6. Nipple down the injection tree and nipple up 11" 5000 psi BOPs with blind rams and 3-1/2" x 5-1/2" variable bore pipe rams and accumulator. Test the BOPs to 250 psi and 2000 psi. Record the tests on a recording chart.
 7. Send the tree to AFS Energy Services.
 8. Pull the two-way check valve.
 9. Check the tubing and annulus for pressure. Pump kill weight fluid as necessary to kill the well. Perform ~30-minute flow check.
 10. Rig up casing crew and laydown machine. Have back up set of tongs on location.
 11. Place (2) 5-1/2", 5", and 3-1/2" TIW valves on the rig floor in the open position. Discuss with the rig crew a method to quickly pick up and stab the valve.
 12. Rig up casing jacks. Make up 5-1/2" TIW valve with pup joint and screw into the tubing hanger. to tubing. Pick up tubing string to neutral weight (~341,500#). The tubing was landed with 40,000# of compression (65,000# slack off at the surface).
 13. Rig up electric line truck with pack off and full lubricator and cut the tubing ~16,150'.
 14. Allow the fluids to equalize and make sure the well is dead.
 15. Lay down the tubing hanger and visually inspect the tubing hanger. Send to AFS Energy Services.

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T – 210-828-8117 F – 210-828-5274 bruingtonengineering.com 8620 N. New Braunfels, Ste. 315, San Antonio, TX 78217

See COAs and adjust cement volumes accordingly**BRUINGTON ENGINEERING, LLC**
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16. Pull out of the hole laying down the 5-1/2", 5", and 3-1/2" tubing and seal assembly. Install thread protectors if available. Do not rotate the tubing more than 25 rpms. Send tubing to PetroSmith.
17. KEEP THE HOLE FULL OF KILL WEIGHT FLUID WHILE PULLING OUT OF THE HOLE. Monitor wellbore fill volume out of reverse unit open top tank.
18. Prepare the location to receive a 3-1/2" work string. Clean and drift tubing.
19. Rig up electric line truck with full lubricator. Make gauge ring and junk basket run to 16,150'. Set cast iron bridge plug in 5-1/2" liner at 16,150'. Test the casing to 2000 psi. Dump 35' of cement (5 sacks) on top of the cast iron bridge plug.
20. **Spot cement 14733' - 14633' - 7 5/8' Shoe**
21. Trip in the hole open ended with 3-1/2" tubing to ~14,500'. Spot ~10 barrels (40 sacks) of Class E cement from 14,500'-14,350' (across the Morrow). Pull out of the hole to ~14,000'. Wait on cement for 6 hours. Trip in the hole and tag cement. Displace well with kill weight mud ~11.5 ppg mud.
22. Pull out of the hole to 11,420'. Spot 10-barrel (50 sacks) of Class E cement plug from 11,420'-11,270' (across the Wolfcamp). Pull out of the hole to 11,000' and wait on cement for 6 hours. Trip in the hole and tag plug.
23. **Spot cement 10798' - 10698' - 9 8/8" Shoe**
24. Pull out of the hole with 3-1/2" tubing.
25. Make a gauge ring and junk basket run to ~10,450'. Set cast iron bridge plug at 10,450'. Test the cast iron bridge plug to 2000 psi. Dump 35' (15 sacks) of cement on top. **Run RCBL if needed**
26. If there is no cement across the 1st Bone Springs at 8930' then perforate for a squeeze at 8980' with a 3-1/8" casing gun. Set cement retainer at ~8880'. Trip in the hole with 3-1/2" tubing. Sting into the retainer and squeeze 15 barrels (report the number of sacks) of Class G or H cement into the 9-5/8" x 12-1/4" annulus. Sting out of the retainer and leave ~100' of cement (75 sacks) on top of the retainer. **WOC & Tag @ 7980' - T BS**
27. Perforate the 9-5/8" casing ~100' above the top of the cement. Set cement retainer 100' above the perforations. Trip in the hole with 3-1/2" tubing and sting into the cement retainer. Attempt to establish circulation from the 9-5/8" x 13-3/8" annulus.
28. If circulation is established then squeeze 150' cement plug (80 sacks) in the annulus, pull out of the retainer and spot 150' cement plug (45 sacks) on top of the retainer. If circulation is not established then spot 150' cement plug (report the number of sacks) in the 9-5/8" casing. **WOC & Tag**
29. Pull out of the hole with 200' of tubing and wait on cement for 6 hours. Trip in the hole and tag cement. Pull out of the hole with 3-1/2" tubing.
30. Nipple down blowout preventers and weld on 9-5/8" pull nipple and remove casing slips. Nipple up blowout preventers. Go in the hole with jet cutter and cut the 9-5/8" casing above the top of the cement. Note: there is an external casing packer on the 9-5/8" at 4244'.
31. Trip in the hole with open ended 3-1/2" tubing to 4320'. Spot 150' cement plug (45 sacks) from 4320'-**3990'**. Pull out of the hole to ~3950' and wait on cement for 6 hours. Trip in the hole and tag cement.
32. **Run RCBL to surface**

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30. Pull out of the hole to ~1170' and spot 150' cement plug (45 sacks) from 1170'-1020'.
Wait on cement for 6 hours and tag the plug.
31. Lay down the 3-1/2" work string and nipple down 11" blowout preventers.
32. Cut off the 13-3/8", 20" and 30" ~ 4' below ground level. Fill in the cellar and casing with cement. Monitor for 30 minutes.
33. A steel plate at least 4" in diameter must be set in cement on top of the exact well location and extend at least 4' above ground level. The marker must include the following information:
 - Operator name
 - Lease name and well number
 - API number
 - Unit letter
 - Section, Township and Range
34. Clean up the location.

NOTE: THIS IS INTENDED TO SERVE AS A GUIDE AND MAY CHANGE AS WELLSITE CONDITIONS DICTATE.

HOLD SAFETY MEETINGS TO DISCUSS ALL NON-ROUTINE OPERATIONS. WE ARE NOT IN A HURRY TO THE EXTENT WE CREATE A HAZARDOUS SITUATION. KEEP SAFETY FIRST!



BRUINGTON ENGINEERING, LLC

Solaris Midstream

Mad Cow SWD 1

API: 30-015-45204

Eddy County, New Mexico

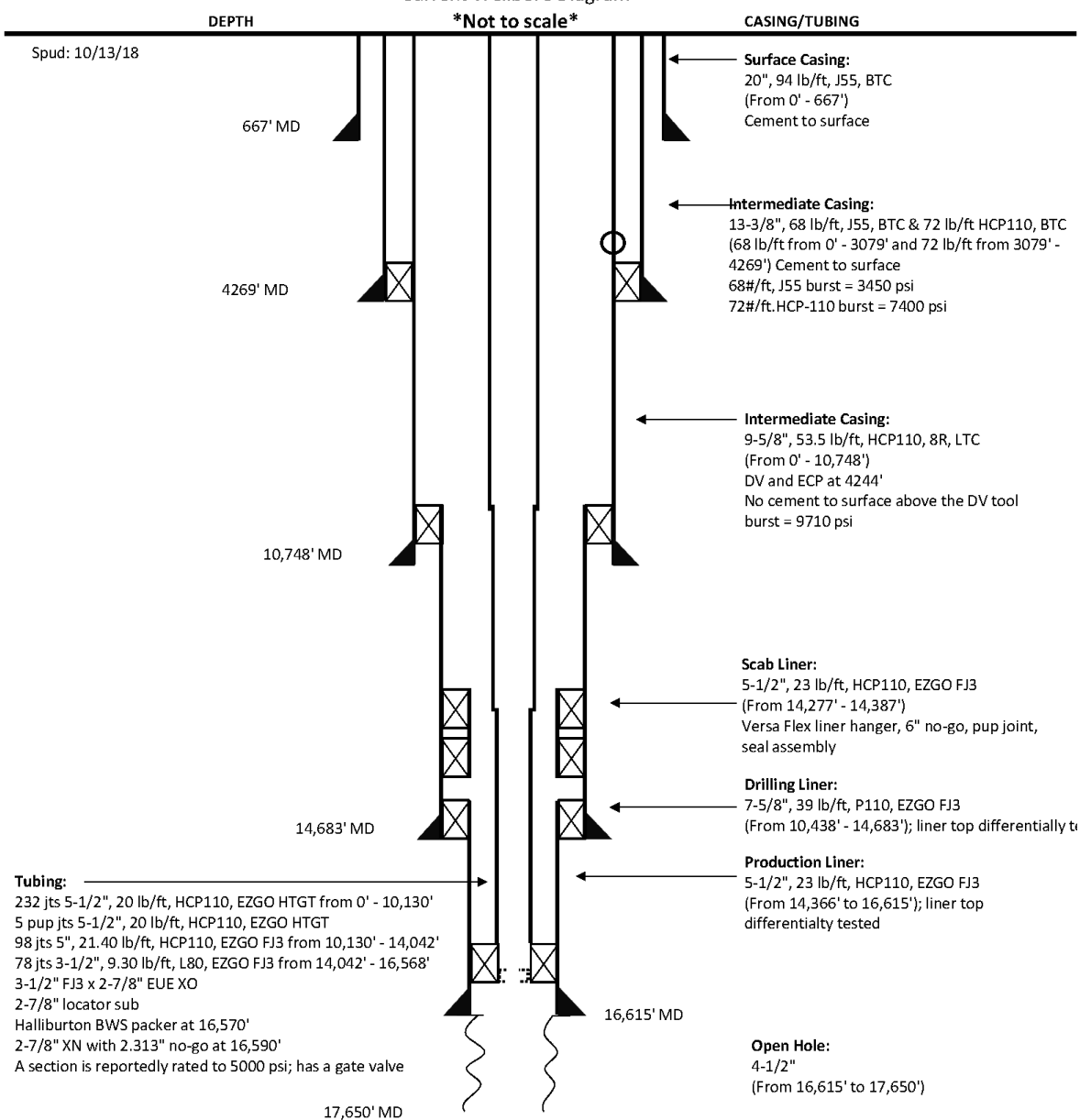
Date: 08/15/25

Elevation: GL = ~3527'

Location: 16 mi east of Loving, NM

32.2318300, -103.8293000

Current Wellbore Diagram



Petroleum Engineering Consulting

T – 210-828-8117 F – 210-828-5274

bruingtonengineering.com

8620 N. New Braunfels, Ste. 315, San Antonio, TX 78217

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Standard Plugging Conditions



This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
 - North Contact,
 - South Contact, Gilbert Cordero, 575-626-0830, gilbert.cordero@emnrd.nm.gov
2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.
4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
 - North, water or mud laden fluids
 - South, mud laden fluids
6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.
7. Class of cement shall be used in accordance with the below table for depth allowed.

Class	TVD Lower Limit (feet)
Class A/B	6,000
Class I/II	6,000
Class C or III	6,000
Class G and H	8,000
Class D	10,000

Class E	14,000
Class F	16,000

8. After cutting the well head any "top off cement jobs" must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.
9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD 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 and 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 OCD Compliance Officer.
10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.
11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.
12. Produced water or brine-based fluids **may not** be used during any part of plugging operations without **prior OCD approval**.
13. Cementing;
 - All cement plugs will be neat cement and a minimum of 100' in length. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
 - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50' below the formation top and the cement retainer shall be set no more than 50' from the perforations.
 - WOC (Wait on Cement) time will be:
 - 4 hours for accelerated (calcium chloride) cement.
 - 6 hours on regular cement.
 - Operator must tag all cement plugs unless it meets the below condition.
 - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
 - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
 - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
 - Cement can only be bull-headed with specific prior approval.
 - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.
14. A cement plug is required to be set from 50' below to 50' above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
 - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than

50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.

- Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
- Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35' of cement in lieu of the 100' plug. The bridge plug or retainer must be set within 50ft of the perforations.
- Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:

- Northwest See Figure A
- South (Artesia) See Figure B
- Potash See Figure C
 - In the R-111-P (Or as subsequently revised) 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, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
- South (Hobbs) See Figure D1 and D2
- Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers

- Dry hole marker requirements 19.15.25.10.
The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
 1. Operator name
 2. Lease name and well number
 3. API number
 4. Unit letter
 5. Section, Township and Range
- AGRICULTURE (Below grade markers)
In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
 - A) Aerial photo showing the agricultural area
 - B) Request from the landowner for the below ground marker.

C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

Note: 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 OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.

Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
 - 1. Bell Canyon
 - 2. Cherry Canyon
 - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

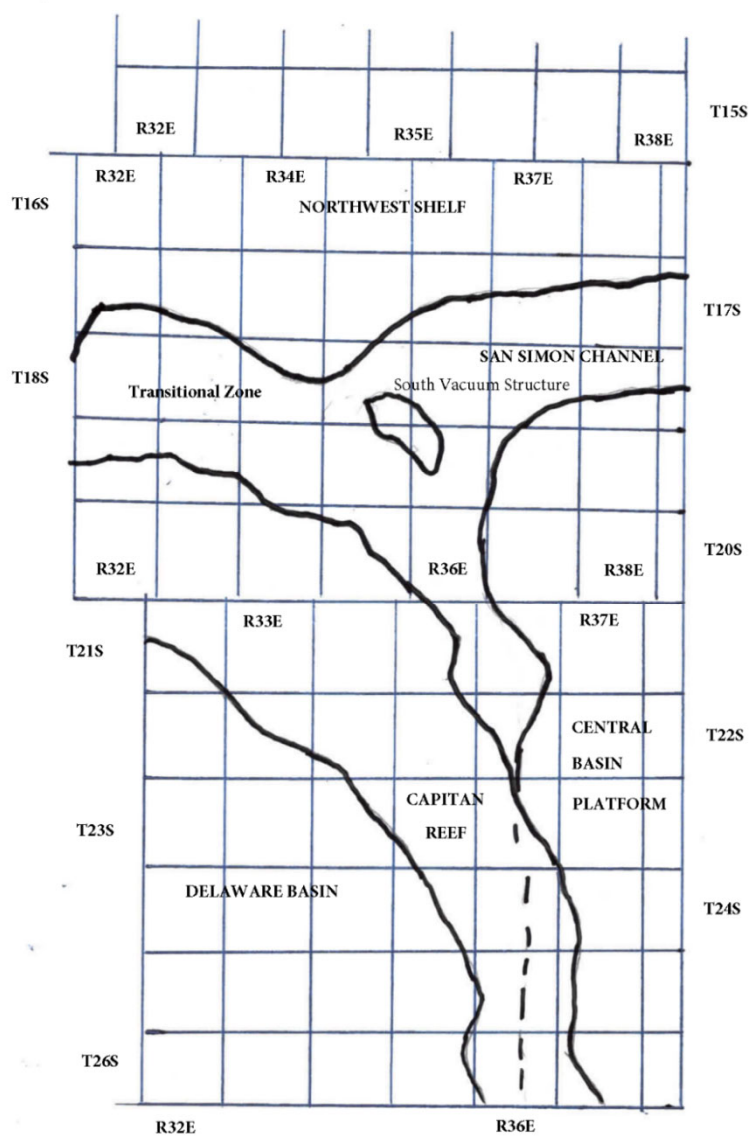


Figure D2 Formation Table

100' Plug to isolate upper and lower fresh water zones (typically 250' to 350')						
Northwest Shelf	Captan Reef Area	Transition Zone	San Simon Channel	South Vacuum Structure	Delaware Basin	Central Basin Platform
Granit Wash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit Wash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	McKee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	Wolfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	McKee
Chester	Pennsylvanian	Wolfcamp	Delaware	Barnett Shale	Lower Wolfcamp	Simpson Group
Austin	Wolfcamp	Bone Spring	San Andres	Morrow	Upper Wolfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	Wolfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of Wolfbone)	Silurian
Atoka	Queen, if present	Grayburg-San Andres	Base of Salt	Canyon	First Bone Spring Sand (Top of Lower Bone Spring)	Devonian
Lower Pennsylvanian	Bone Spring	Queen	Rustler	Pennsylvanian	Bone Spring	Strawn
Cisco-Canyon	Delaware	Seven Rivers		Blinbry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaware (Base of Salt)	Wolfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
Wolfcamp	Yates	Rustler		Queen		Abo Reef
Abo	Top Capitan Reef			Base of Salt		Drinkard
Abo Reef, if present	Base of Salt			Rustler		Tubb
Yeso (Township 15 South to Township 17 South)	Rustler					Blinbry
Drinkard or Lower Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinbry (Township 15 South to Township 17 South)						San Andres
Paddock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Grayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						

Section 2: SW/4

Section 3: W/2 SW/4, SE/4 SW/4, S/2 SE/4 and
NE/4 SE/4

Section 4: Lots 3 and 4. SW/4 NE/4, S/2 NW/4
and S/2

Section 5: Lots 1, 2. and 3, S/2 NE/4,
S/2 NW/4 and S/2

Section 6: S/2 SE/4 and NE/4 SE/4

Sections 7 to 10 inclusive

Section 11: S/2 NE/4, NW/4 NW/4 and S/2

Section 12: NE/4, S/2 NW/4 and S/2

Section 13: NE/4, W/2, N/2 SE/4 and SW/4 SE/4

Sections 14 to 18 inclusive

Section 19: Lots 1, 2, and 3, NE/4, E/2 NW/4,
NE/4 SW/4, E/2 SE/4 and
NW/4 SE/4

Sections 20 to 23 inclusive

Section 24: NW/4. NW/4 SW/4 and S/2 SW/4

Section 25: NW/4 NW/4
 Section 26: NE/4 NE/4, W/2 NE/4, W/2, W/2 SE/4
 and SE/4 SE/4
 Section 27: All
 Section 28: All
 Section 29: E/2, E/2 NW/4 and NW/4 NW/4
 Section 32: E/2 and SE/4 SW/4
 Section 33 to 35 inclusive
 Section 36: NW/4 NW/4, S/2 NW/4 and S/2

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM

Section 7: Lots 1, 2, and 3 and E/2 NW/4
 Section 18: Lots 1, 2, and 3 and SW/4 NE/4,
 E/2 NW/4 and NE/4 SW/4
 Section 31: Lot 4
 Section 34: SE/4 SE/4
 Section 35: S/2 SW/4 and SW/4 SE/4
 Section 36: S/2 SE/4

LEA COUNTY, NEW MEXICO**TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM**

Section 31: Lot 4
 Section 33: Lots 1 to 4 inclusive and N/2 S/2
 Section 34: Lots 1 to 4 inclusive and N/2 S/2
 Section 35: Lots 1 to 4 inclusive and N/2 S/2
 Section 36: Lots 1 to 4 inclusive, SE/4 NE/4,
 NW/4 SW/4 and NE/4 SE/4

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM

Section 22: SE/4 NE/4, E/2 SW/4 and SE/4
 Section 23: S/2 NW/4, SW/4, W/2 SE/4 and
 SE/4 SE/4
 Section 25: SW/4 NW/4, W/2 SW/4 and SE/4 SW/4
 Section 26: All
 Section 27: All
 Section 28: S/2 SE/4 and NE/4 SE/4
 Section 30: Lots 2 to 4 inclusive, S/2 NE/4,
 SE/4 NW/4, E/2 SW/4 and SE/4
 Section 31: All
 Section 32: NE/4, S/2 NW/4 and S/2
 Sections 33 to 35 inclusive
 Section 36: W/2 NE/4, SE/4 NE/4, NW/4 and S/2

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM

Section 31: Lots 3 and 4

EDDY COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM

Section 1: SE/4 NE/4 and E/2 SE/4
 Section 13: SW/4 NW/4, W/2 SW/4 AND SE/4 SW/4
 Section 14: NW/4 NE/4, S/2 NE/4, NW/4 and S/2
 Section 15: E/2 E/2, SE/4 SW/4 and W/2 SE/4
 Section 22: E/2 and E/2 NW/4
 Section 23: All
 Section 24: SW/4 NE/4, W/2, W/2 SE/4
 and SE/4 SE/4
 Section 25: N/2, SW/4, W/2 SE/4 and NE/4 SE/4
 Section 26: All
 Section 27: E/2
 Section 34: NE/4
 Section 35: N/2
 Section 36: W/2 NE/4 AND NW/4

TOWNSHIP 20 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 4 inclusive
 Section 5: Lots 1 to 3 inclusive, S/2 N/2
 and S/2
 Section 6 Lots 5, 6, and 7, S/2 NE/4, E/2 SW/4
 and SE/4
 Section 7 Lots 1 and 2. E/2 and E/2 NW/4
 Sections 8 to 17 inclusive
 Section 18 E/2
 Section 19 E/2 and SE/4 SW/4
 Sections 20 to 29 inclusive
 Section 30: Lots 1 to 3 inclusive, E/2 and
 E/2 W/2
 Section 31 E/4 and E/2 SE/4
 Sections 32 to 35 inclusive

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM

Section 1 Lots 1 to 3 inclusive, S/2 N/2
 and S/2
 Section 2: All
 Section 3: Lots 1 and 2, S/2 NE/4 and SE/4
 Section 6: Lots 4 to 7 inclusive, SE/4 NW/4,
 E/2 SW/4, W/2 SE/4 and
 SE/4 SE/4
 Section 7: All
 Section 8: S/2 N/2 and S/2
 Section 9: S/2 NW/4, SW/4, W/2 SE/4 and SE/4 SE/4
 Section 10: E/2 and SW/4
 Section 11 to 36 inclusive

LEA COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM

Sections 1 to 4 inclusive

Section 5: S/2 SE/4

Section 6: Lots 4 to 7 inclusive, SE/4 NW/4,
E/2 SW/4 and SW/4 SE/4

Sections 7 to 36 inclusive

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM

Sections 1 to 36 inclusive

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPMSection 6: Lots 3 to 7 inclusive, SE/4 NE/4,
E/2SW/4, W/2 SE/4 AND
SE/4 SE/4

Section 7: All

Section 8: SW/4, S/2 NW/4, W/2 SE/4 and
SE/4 SE/4Section 16: W/2 NW/4, SE/4 NW/4, SW/4 and
S/2 SE/4

Sections 17 to 21 inclusive

Section 22: N/2 NW/4, SW/4 NW/4, W/2 SE/4,
and SE/4 SE/4

Section 26: SW/4, W/2 SE/4 and SE/4 SE/4

Sections 27 to 35 inclusive

Section 36: SW/4 NW/4 and W/2 SW/4

EDDY COUNTY, NEW MEXICO

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMPM

Sections 1 to 3 inclusive

Section 4: Lots 1 through 16, NE/4 SW/4 and
SE/4

Section 5: Lot 1

Section 10: N/2 NE/4, SE/4 NE/4 and SE/4 SE/4

Sections 11 to 14 inclusive

Section 15: E/2 NE/4 and NE/4 SE/4

Section 23: N/2 NE/4

Section 24: E/2, N/2NW/4 and SE/4NW/4

Section 25: NE/4 NE/4 and S/2 SE/4

Section 35: Lots 2 to 4 inclusive, S/2 NE/4,
NE/4 SW/4 and N/2 SE/4Section 36: Lots 1 to 4 inclusive, NE/4,
E/2 NW/4 AND N/2 S/2**TOWNSHIP 21 SOUTH, RANGE 30 EAST, NMPM**

Sections 1 to 36 inclusive

TOWNSHIP 21 SOUTH, RANGE 31 EAST, NMPM
Sections 1 to 36 inclusive**LEA COUNTY, NEW MEXICO****TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM**

Sections 1 to 27 inclusive

Section 28: N/2 and N/2 S/2

Sections 29 to 31 inclusive

Section 32: NW/4 NE/4, NW/4 and NW/4 SW/4

Section 34: N/2 NE/4

Section 35: N/2 N/2

Section 36: E/2, N/2 NW/4, SE/4 NW/4 and
NE/4 SW/4**TOWNSHIP 21 SOUTH, RANGE 33 EAST, NMPM**Section 1: Lots 2 to 7 inclusive, Lots 10
to 14 inclusive, N/2 SW/4 and
SW/4 SW/4

Sections 2 to 11 inclusive

Section 12: NW/4 NW/4 and SW/4 SW/4

Section 13: N/2 NW/4, S/2 N/2 and S/2

Sections 14 to 24 inclusive

Section 25: N/2. SW/4 and W/2 SE/4

Sections 26 to 30 inclusive

Section 31: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4

Section 32: N/2 and NW/4 SW/4

Section 33: N/2

Section 34: NE/4, N/2 NW/4 and E/2 SE/4

Section 35: All

Section 36: W/2 NE/4, NW/4 and S/2

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM**Section 17:** W/2**Section 18:** AllSection 19: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4**Section 20:** NW/4 NW/4

Section 30: Lots 1 and 2 and NE/4 NW/4

Section 31: Lots 3 and 4

EDDY COUNTY, NEW MEXICO**TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM**

Section 36: E/2 E/2

TOWNSHIP 22 SOUTH, RANGE 29 EAST, NMPM

Sections 1 and 2 inclusive

Section 3 SE/4 SW/4 and SE/4

Section 9 S/2 NE/4 and S/2

Sections 10 to 16 inclusive

Section 17 S/2 SE/4

Section 19 SE/4 NE/4 and E/2 SE/4

Sections 20 to 28 inclusive

Section 29 N/2 N/2, S/2 NE/4 and SE/4

Section 30 NE/4 NE/4

Section 31 Lots 1 to 4 inclusive, S/2 NE/4,
E/2 W/2 and SE/4

Sections 32 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM

Sections 1 to 11 inclusive

Section 12: NW/4 NE/4, NW/4 and NW/4 SW/4

Section 13: S/2 NW/4 and SW/4

Sections 14 through 23 inclusive

Section 24: W/2

Section 25: NW/4

Section 26: NE/4 AND N/2 NW/4

Sections 27 to 34 inclusive

LEA COUNTY, NEW MEXICO**TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM**

Section 1: Lot 1

Section 6: Lots 2 to 7 inclusive and SE/4 NW/4

TOWNSHIP 22 SOUTH, RANGE 33 EAST NMPMSection 1: Lots 1 to 4 inclusive, S/2 N/2 and
N/2 S/2

Section 2: All

Section 3: Lot 1, SE/4 NE/4 and SE/4

Section 6: Lot 4

Section 10: NE/4

Section 11: NW/4 NE/4 AND NW/4

TOWNSHIP 22 SOUTH, RANGE 34 EAST NMPM

Section 6: Lots 4 to 6 inclusive

EDDY COUNTY, NEW MEXICO

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM

Section 1: Lot 1

TOWNSHIP 23 SOUTH, RANGE 29 EAST, NMPM

Sections 1 to 5 inclusive

Section 6: Lots 1 to 6 inclusive, S/2 NE/4,
SE/4 NW/4, E/2 SW/4 and SE/4

Section 7: NE/4 and NE/4 NW/4

Section 8: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Sections 9 to 16 inclusive

Section 17: NE/4 and E/2 SE/4

Sections 21 to 23 inclusive

Section 24: N/2, SW/4 and N/2 SE/4

Section 25: W/2 NW/4 and NW/4 SW/4

Section 26: All

Section 27: All

Section 28: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Section 33: N/2 NE/4 and NE/4 NW/4

Section 34: NE/4, E/2 NW/4, NW/4 NW/4,
NE/4 SW/4 and SE/4

Section 35: All

Section 36: W/2 NE/4, NW/4 and N/2 SW/4

TOWNSHIP 23 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 18 inclusive

Section 19: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Section 20: All

Section 21: All

Section 22: N/2, S/2 SW/4, N/2 S/2 and SE/4 SE/4

Sections 23 to 25 inclusive

Section 26: E/2, SE/4 NW/4 and SW/4

Section 27: N/2 NW/4, SW/4 NW/4, SE/4 SW/4,
S/2 SE/4 and NE/4 SE/4

Section 28: N/2 and SW/4 Section 29 N/2 and SE/4

Section 30: N/2 NE/4

Section 32: N/2 NE/4

Section 33: SE/4 NE/4, N/2 NW/4, NE/4 SE/4
and S/2 SE/4

Sections 34 to 36 inclusive

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM**Section 2:** Lot 4, SW/4 NW/4 and W/2 SE/4

Sections 3 to 7 inclusive

Section 8: NE/4 NE/4, W/2 NE/4 and W/2

Section 9: N/2 N/2

Section 10: NW/4 NW/4 and SE/4 SE/4

Section 11: S/2 NE/4, S/2 SW/4 and SE/4

Section 12: SW/4 NW/4 and SW/4
Section 13: SW/4 **NE/4**, W/2 and W/2 SE/4
Section 14: All
Section 15: E/2, SE/4 NW/4 and **SW/4**
Section 16: SW/4 and S/2 SE/4
Section 17: NW/4 and S/2
Sections 18 to 23 inclusive
Section 24: W/2 NE/4 and W/2
Section 25: W/2 NE/4, NW/4, N/2 SW/4 and
 NW/4 SE/4
Section 26 to 34 inclusive
Section 35: N/2 NW/4 and SW/4 NW/4

TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM

Section 2: Lots 2 to 4 inclusive
Section 3: Lot 1

TOWNSHIP 24 SOUTH, RANGE 30 EAST, NMPM

Section 1: Lots 1 to 4 inclusive, S/2 N/2,
 SW/4 and NW/4 SE/4
Section 2: All
Section 3: All
Section 4: Lots 1 and 2, S/2 NE/4, SE/4 NW/4,
 SW/4 SW/4, E/2 SW/4 and SE/4
Section 9: N/2, N/2 SW/4, SE/4 SW/4 and SE/4
Section 10: All
Section 11: All
Section 12: W/2 NW/4 and NW/4 SW/4
Section 14: W/2 NE/4 and **NW/4**
Section 15: NE/4 and N/2 NW/4

TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM

Section 3: Lots 2 to 4 inclusive, SW/4 NE/4,
 S/2 NW/4, SW/4 and W/2 SE/4
Section 4: All
Section 5: Lots 1 to 4 inclusive, S/2 N/2,
 N/2 S/2 and SE/4 SE/4
Section 6: Lots 1 to 6 inclusive, S/2 NE/4,
 SE/4 NW/4, NE/4 SW/4 and
 N/2 SE/4
Section 9: E/2 and NW/4
Section 10: W/2 NE/4 and W/2
Section 35: Lots 1 to 4 inclusive, S/2 N/2 and
 N/2 S/2
Section 36: Lots 1 and 2, SW/4 NW/4 and N/2 SW/4

TOWNSHIP 25 SOUTH, RANGE 31 EAST, NMPM

Section 1: Lots 3 and 4 and S/2 NW/4
Section 2: Lots 1 to 4 inclusive and S/2 N/2

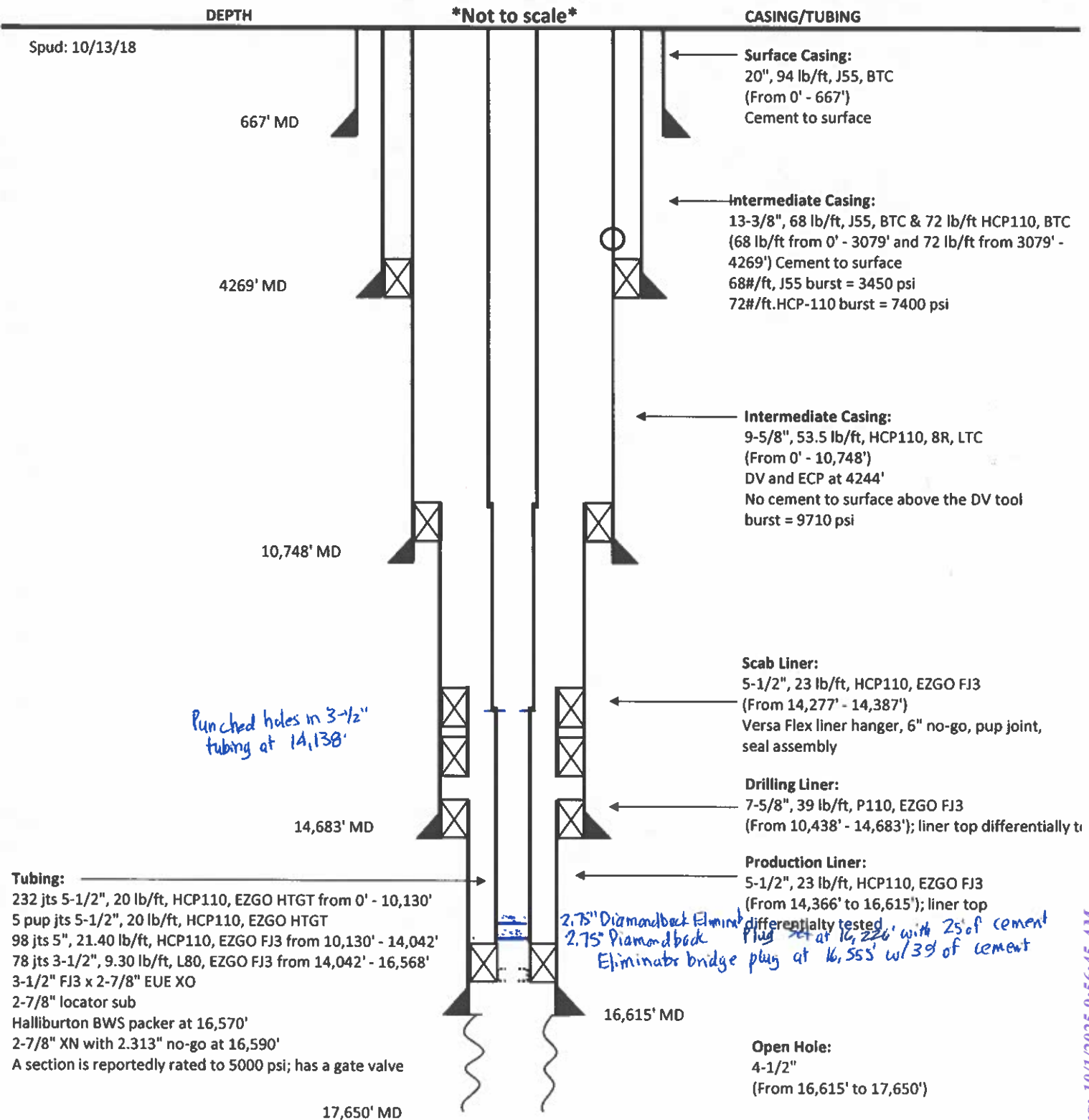
Solaris Midstream

Mad Cow SWD 1

API: 30-015-45204
Eddy County, New Mexico
Date: 08/15/25

Elevation: GL = ~3527'
Location: 16 mi east of Loving, NM
32.2318300, -103.8293000

Current Wellbore Diagram



Solaris Midstream

Mad Cow SWD 1

API: 30-015-45204

Eddy County, New Mexico

Date: 08-15-25

Elevation: GL = ~3527'

Location: 16 mi east of Loving, NM

32.2318300, -103.8293000

Current Wellbore Diagram

Not to scale

DEPTH

CASING/TUBING

Spud: 10/13/18

Cut off the 13-3/8" casing and fill cellar and casing with cement

667' MD

at 1170' spot 150' of cement and tag.

4269' MD

at 4320' spot 150' of cement and tag

pump 200' of cement and tag

Pump 150' of cement and tag

If there is no cement across the 1st Bone Springs at 8930' then perforate for a squeeze at 8980' with a 3-1/8" casing gun. Set cement

Set cast iron bridge plug at 10,450'. Test the cast iron bridge plug to 2000 psi. Dump 35' of cement on top.

10,748' MD

Spot 10-barrel Class E cement plug from 11,420'-11,270' (across the Wolfcamp).

Spot ~10 barrels of Class E cement from 14,500'-14,350' (across the Morrow).

14,683' MD

Set CIBP in the casing at 16,150' and pump 35' of cement

Tubing:

Cut the tubing at 16,150' and pull the string out of the hole.

Halliburton BWS packer at 16,570'

2-7/8" XN with 2.313" no-go at 16,590'

A section is reportedly rated to 5000 psi; has a gate valve

B section is 10,000 psi with (3) 10,000 psi gate valves

16,615' MD

17,650' MD

Surface Casing:

20", 94 lb/ft, J55, BTC
(From 0' - 667')

Cement to surface

Intermediate Casing:

13-3/8", 68 lb/ft, J55, BTC & 72 lb/ft HCP110, BTC
(68 lb/ft from 0' - 3079' and 72 lb/ft from 3079' - 4269') Cement to surface

68#/ft, J55 burst = 3450 psi

72#/ft. HCP-110 burst = 7400 psi

Intermediate Casing:

9-5/8", 53.5 lb/ft, HCP110, 8R, LTC
(From 0' - 10,748')

DV and ECP at 4244'

No cement to surface above the DV tool
burst = 9710 psi

Scab Liner:

5-1/2", 23 lb/ft, HCP110, EZGO FJ3
(From 14,277' - 14,387')

Versa Flex liner hanger, 6" no-go, pup joint,
seal assembly

Drilling Liner:

7-5/8", 39 lb/ft, P110, EZGO FJ3
(From 10,438' - 14,683'); liner top differentially t

Production Liner:

5-1/2", 23 lb/ft, HCP110, EZGO FJ3
(From 14,366' to 16,615'); liner top differentially t

CIBP

#2-2.75" CIBP with 25' of cement set at 16,226' i
tubing.

#1-2.75" CIBP with 39' of cement set at 16,555' i
tubing.

Open Hole:

4-1/2"

(From 16,615' to 17,650')

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 509641

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 509641
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	A Cement Bond Log (CBL) is required to be submitted to electronic permitting.	10/1/2025
gcordero	Submit Cement Bond Logs (CBL) prior to submittal of C-103P.	10/1/2025