U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Sundry Print Report

05/20/2024

**Well Name:** BIG EDDY UNIT

**Well Location:** T22S / R28E / SEC 9 / NWNW / 32.412073 / -104.098455

**County or Parish/State:** EDDY / NM

**Well Number:** 190

**Type of Well:** CONVENTIONAL GAS WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC069140A

**Unit or CA Name:** BIG EDDY

**Unit or CA Number:** NMNM68294X

**US Well Number:** 3001536290

**Operator:** XTO PERMIAN OPERATING LLC

## Notice of Intent

**Sundry ID:** 2776388

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 02/22/2024

**Time Sundry Submitted:** 03:31

**Date proposed operation will begin:** 03/22/2024

**Procedure Description:** XTO Permian Operating LLC, respectfully requests approval for plug and abandonment of the above mentioned well. Please see the attached procedure with current and proposed WBD's for your review.

## Surface Disturbance

**Is any additional surface disturbance proposed?:** No

## NOI Attachments

**Procedure Description**

Big_Eddy_Unit_190_PA_Procedure_WBDs_Current_and_Proposed_20240305072904.pdf

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**Operator:** XTO PERMIAN OPERATING LLC

## Conditions of Approval

**Specialist Review**

Big_Eddy_Unit_190_P_A_COA_20240520111732.pdf

## Operator

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** SHERRY MORROW

**Signed on:** MAR 05, 2024 07:29 AM

**Name:** XTO PERMIAN OPERATING LLC

**Title:** Regulatory Analyst

**Street Address:** 6401 HOLIDAY HILL ROAD BLDG 5

**City:** MIDLAND **State:** TX

**Phone:** (432) 218-3671

**Email address:** SHERRY.MORROW@EXXONMOBIL.COM

## Field

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

## BLM Point of Contact

**BLM POC Name:** ZOTA M STEVENS

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752345998

**BLM POC Email Address:** ZSTEVENS@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 05/20/2024

**Signature:** Zota Stevens

PLUG AND ABANDON WELLBORE
BIG EDDY UNIT 190
EDDY COUNTY, NEW MEXICO
Class II

| MASIP | MAOP | MAWP | Surface Csg Yield |
|---|---|---|---|
| 1,000 psi | 1,000 psi | 3,000 psi | 1730 PSI |

433' Surface Casing Shoe
2544' T/Delaware
2622' T/Bell Canyon
3420' T/Cherry Canyon
4507' T/Brushy Canyon
5692' TOC
6018' T/Bone Springs
6192' Intermediate Casing Shoe
7996' DV Tool
9351' T/Wolfcamp
10826' T/Strawn
11254' T/Atoka
11994' T/Perfs

**SUMMARY:** Plug and abandon wellbore according to BLM regulations.

1) MIRU plugging company. Set open top steel pit for plugging.

2) POOH LD rods and pump.

3) ND WH and NU 3K manual BOP. Function test BOP.

4) Unset the packer at 11,900'. POOH tbg.

5) MIRU WLU, RIH GR to 11,930'; RIH set CIBP at 11,900', pressure test to 500 PSI for 30 minutes; dump bail 35' **Class H** cement from 11,900' to 11,865'. WOC and tag to verify TOC. (T/ Perf)

6) Spot 71 SKS **Class H** cement from 11,350' to 10,750'. WOC and tag to verify TOC. (T/Atoka, T/Strawn)

7) Spot 25 SKS **Class H** cement from 9,450' to 9,250'. WOC and tag to verify TOC. (T/Wolfcamp)

8) Circulate with packer fluid.

9) Swab well down to a Fluid Level of 3800'.

10) MIRU WLU, perf 6 SPF from 8,087' – 8,112'.

11) MIRU SLU, set tandem pressure gauges at 8,100'.

12) Pull after 3 weeks.

13) MIRU WLU, RIH GR to 8,100'; RIH set CIBP at 8,080'; pressure test to 500 PSI for 30 minutes; spot 23 SKS **Class H** cement from 8,080' to 7,900'. Pull tubing up to 7,900' and reverse circulate well clean. WOC and tag to verify TOC. (DV Tool)

14) MIRU WLU, run CBL from 7,500' to surface.

15) Perf 6 SPF from 7,190' – 7,215'.

16) MIRU SLU, set tandem pressure gauges at 7,200'.

17) Pull after 3 weeks.

18) MIRU WLU, RIH GR to 7,180'; RIH set CIBP at 7,150'; pressure test to 500 PSI for 30 minutes; spot 154 SKS **Class H** cement from 7,150' to TOC estimated at 5,692'. WOC and tag to verify TOC. (T/Bone Springs, Intermediate Casing Shoe)

19) Perf at TOC and establish circulation.

20) RIH packer and set at 5,500'. Squeeze 25 SKS class C cement at 5,692'. WOC and tag to verify TOC. (TOC)

21) MIRU WLU, perforate at 4,600' and 500'.

22) Squeeze 770 SKS class C cement from 4,600' to 2,000'. WOC and tag to verify TOC. (T/Cherry Canyon, T/Brushy Canyon, T/Delaware)

23) Circulate Class C cement from 500' to surface. (~141 SKS) (Surface Casing Shoe)

24) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.

25) Set P&A marker.

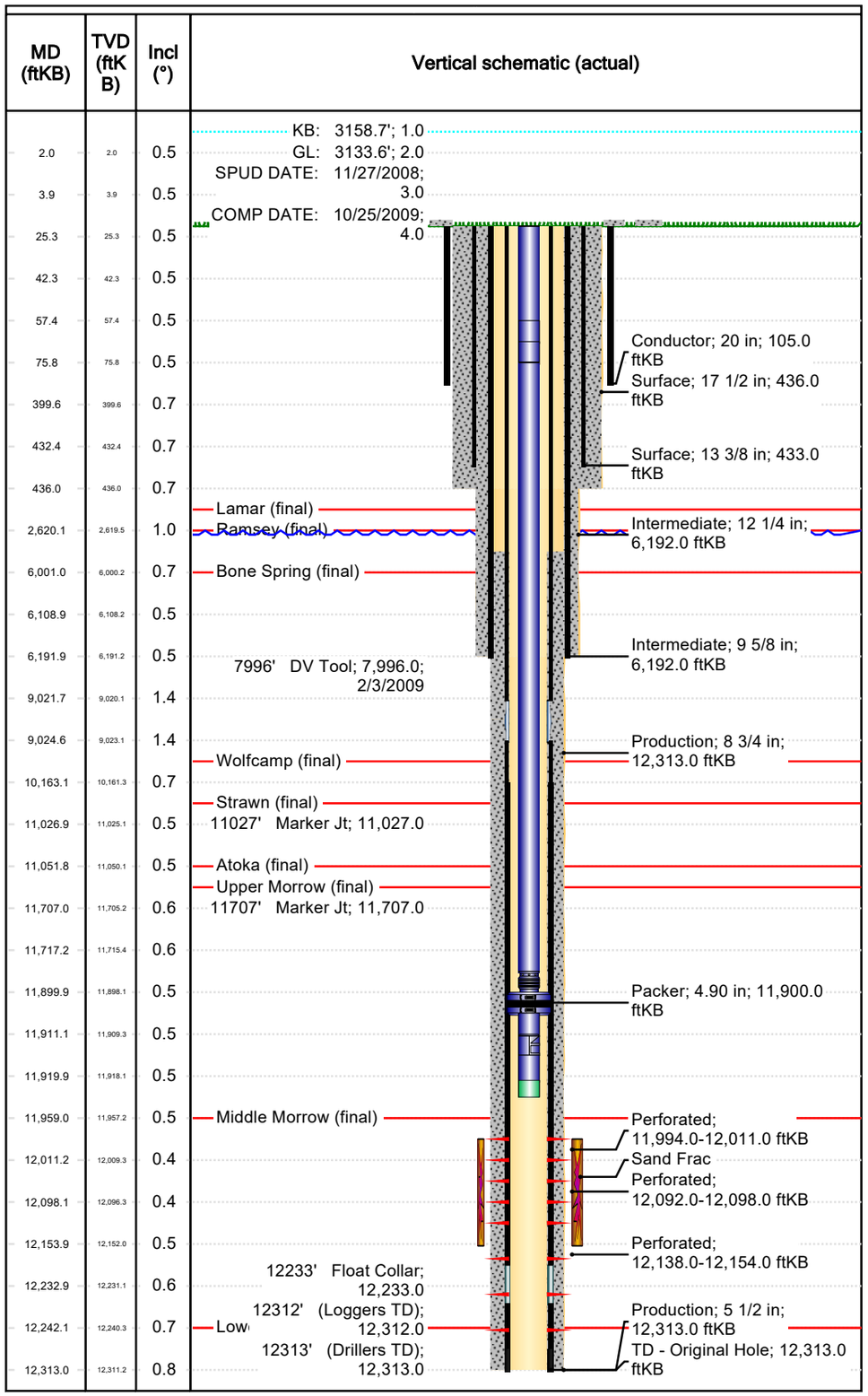
26) Pull fluid from steel tank and haul to disposal. Release steel tank.

# Downhole Well Profile - with Schematic

## Well Name: Big Eddy Unit 190

| API/UWI | SAP Cost Center ID | Permit Number | State/Province | County |
|---|---|---|---|---|
| 3001536290 | 1138741001 | | New Mexico | Eddy |

| Surface Location | Spud Date | Original KB Elevation (ft) | Ground Elevation (ft) | KB-Ground Distance (ft) | Surface Casing Flange Elevation (ft) |
|---|---|---|---|---|---|
| T22S-R28E-S09 | 11/27/2008 15:00 | 3,158.70 | 3,133.60 | 25.10 | |




## Wellbores

| Wellbore Name | Parent Wellbore | Wellbore API/UWI |
|---|---|---|
| Original Hole | Original Hole | 3001536290 |

| Start Depth (ftKB) | Profile Type |
|---|---|
| 25.1 | Vertical |

| Section Des | Hole Sz (in) | Act Top (ftKB) | Act Btm (ftKB) |
|---|---|---|---|
| Conductor | 26 | 25.1 | 105.0 |
| Surface | 17 1/2 | 25.1 | 436.0 |
| Intermediate | 12 1/4 | 436.0 | 6,192.0 |
| Production | 8 3/4 | 6,192.0 | 12,313.0 |

## Zones

| Zone Name | Top (ftKB) | Btm (ftKB) | Current Status |
|---|---|---|---|
| MIDDLE MORROW | 25.1 | | |

## Casing Strings

| Csg Des | Set Depth (ftKB) | OD (in) | Wt/Len (lb/ft) | Grade |
|---|---|---|---|---|
| Conductor | 105.0 | 20 | 94.00 | J-55 |
| Surface | 433.0 | 13 3/8 | 48.00 | H-40 |
| Intermediate | 6,192.0 | 9 5/8 | 40.00 | HCP-110 |
| Production | 12,313.0 | 5 1/2 | 17.00 | HCP-110 |

## Cement

| Des | Type | Start Date | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|
| Surface Casing Cement | Casing | 11/28/2008 | 25.0 | 436.0 |
| Intermediate Casing Cement | Casing | 12/9/2008 | 25.0 | 6,192.0 |
| Production Casing Cement | Casing | 1/9/2009 | 9,022.0 | 12,313.0 |
| Production Casing Cement | Casing | 1/9/2009 | 5,692.0 | 9,022.0 |

## Tubing Strings

| Tubing Description | Run Date | Set Depth (ftKB) |
|---|---|---|
| Tubing - Production | 10/30/2009 | 11,920.6 |

| Item Des | OD (in) | Wt (lb/ft) | Grade | Jts | Len (ft) | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|---|---|---|
| 2-3/8" EUE 8RD 4.7# L-80 | 2 3/8 | 4.70 | L-80 | 1 | 32.43 | 25.1 | 57.5 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | I-80 | 1 | 12.20 | 57.5 | 69.7 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 6.10 | 69.7 | 75.8 |
| 2-3/8" EUE 8RD 4.7# L-80 | 2 3/8 | 4.70 | L-80 | 363 | 11,820.88 | 75.8 | 11,896.7 |
| Seal Assembly | 2 3/8 | | | | 3.30 | 11,896.7 | 11,900.0 |
| Packer | 4.9 | | | | 3.09 | 11,900.0 | 11,903.1 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 7.98 | 11,903.1 | 11,911.1 |
| Profile Nipple | 2 3/8 | | | | 1.04 | 11,911.1 | 11,912.1 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 7.99 | 11,912.1 | 11,920.1 |
| 2-3/8" Pump Out Plug | 2 3/8 | | | | 0.45 | 11,920.1 | 11,920.6 |

## Perforations

| Date | Top (ftKB) | Btm (ftKB) | Linked Zone |
|---|---|---|---|
| 10/23/2009 | 11,994.0 | 12,011.0 | |
| 10/23/2009 | 12,092.0 | 12,098.0 | |

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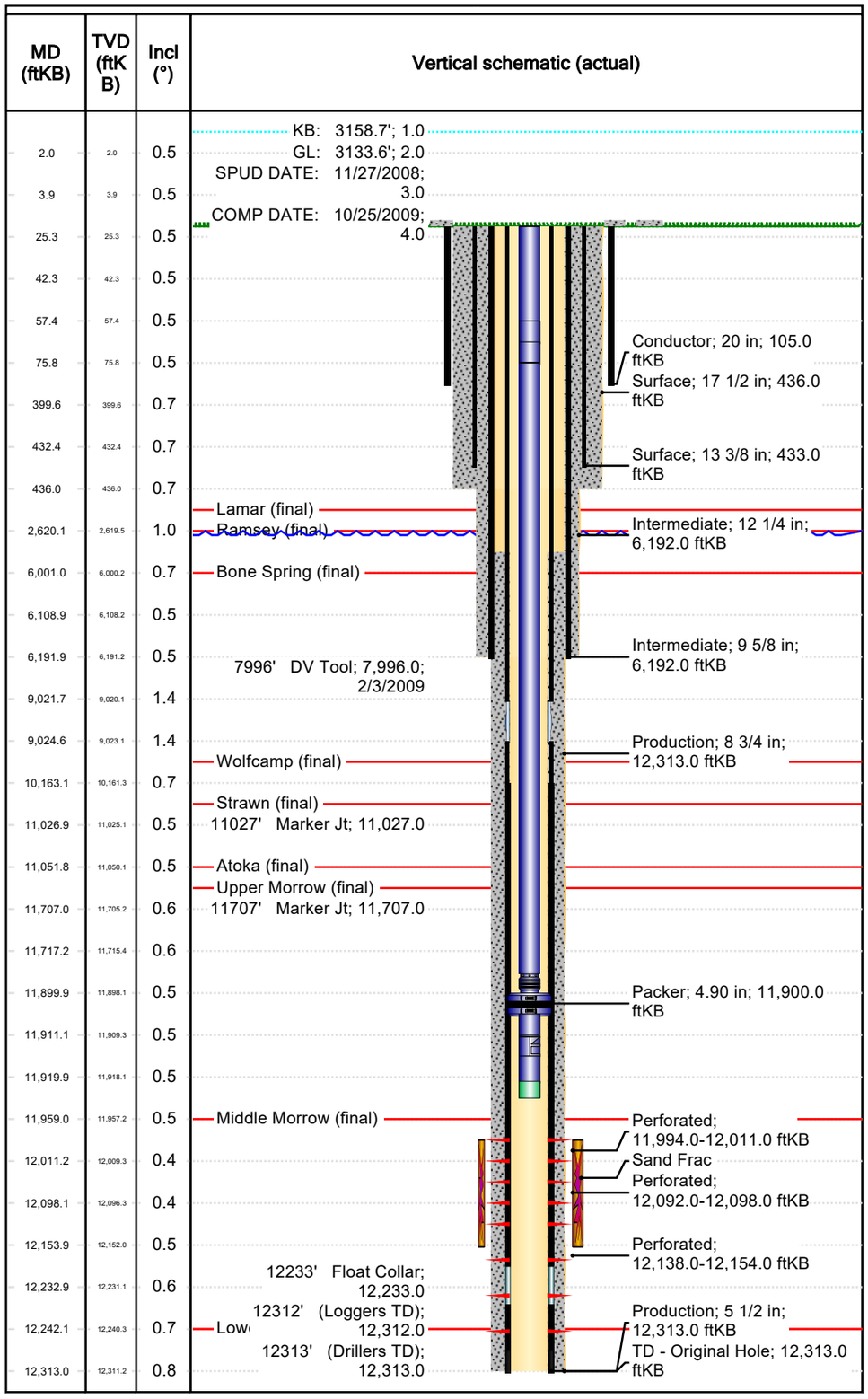
| Surface Location | Spud Date | Original KB Elevation (ft) | Ground Elevation (ft) | KB-Ground Distance (ft) | Surface Casing Flange Elevation (ft) |
|---|---|---|---|---|---|
| T22S-R28E-S09 | 11/27/2008 15:00 | 3,158.70 | 3,133.60 | 25.10 | |




| MD (ftKB) | TVD (ftKB) | Incl (°) |
|---|---|---|
| 2.0 | 2.0 | 0.5 |
| 3.9 | 3.9 | 0.5 |
| 25.3 | 25.3 | 0.5 |
| 42.3 | 42.3 | 0.5 |
| 57.4 | 57.4 | 0.5 |
| 75.8 | 75.8 | 0.5 |
| 399.6 | 399.6 | 0.7 |
| 432.4 | 432.4 | 0.7 |
| 436.0 | 436.0 | 0.7 |
| 2,620.1 | 2,619.5 | 1.0 |
| 6,001.0 | 6,000.2 | 0.7 |
| 6,108.9 | 6,108.2 | 0.5 |
| 6,191.9 | 6,191.2 | 0.5 |
| 9,021.7 | 9,020.1 | 1.4 |
| 9,024.6 | 9,023.1 | 1.4 |
| 10,163.1 | 10,161.3 | 0.7 |
| 11,026.9 | 11,025.1 | 0.5 |
| 11,051.8 | 11,050.1 | 0.5 |
| 11,707.0 | 11,705.2 | 0.6 |
| 11,717.2 | 11,715.4 | 0.6 |
| 11,899.9 | 11,898.1 | 0.5 |
| 11,911.1 | 11,909.3 | 0.5 |
| 11,919.9 | 11,918.1 | 0.5 |
| 11,959.0 | 11,957.2 | 0.5 |
| 12,011.2 | 12,009.3 | 0.4 |
| 12,098.1 | 12,096.3 | 0.4 |
| 12,153.9 | 12,152.0 | 0.5 |
| 12,232.9 | 12,231.1 | 0.6 |
| 12,242.1 | 12,240.3 | 0.7 |
| 12,313.0 | 12,311.2 | 0.8 |

### Perforations

| Date | Top (ftKB) | Btm (ftKB) | Linked Zone |
|---|---|---|---|
| 10/23/2009 | 12,138.0 | 12,154.0 | |

### Stimulation Intervals

| Interval Number | Top (ftKB) | Btm (ftKB) | AIR (bbl/min) | MIR (bbl/min) | Proppant Total (lb) |
|---|---|---|---|---|---|
| 1 | 11,994.0 | 12,154.0 | 1 | 1 | 0.0 |

# BEU 190 - Proposed WBD

803’ Surface Casing Shoe

4112’ T/ Delaware

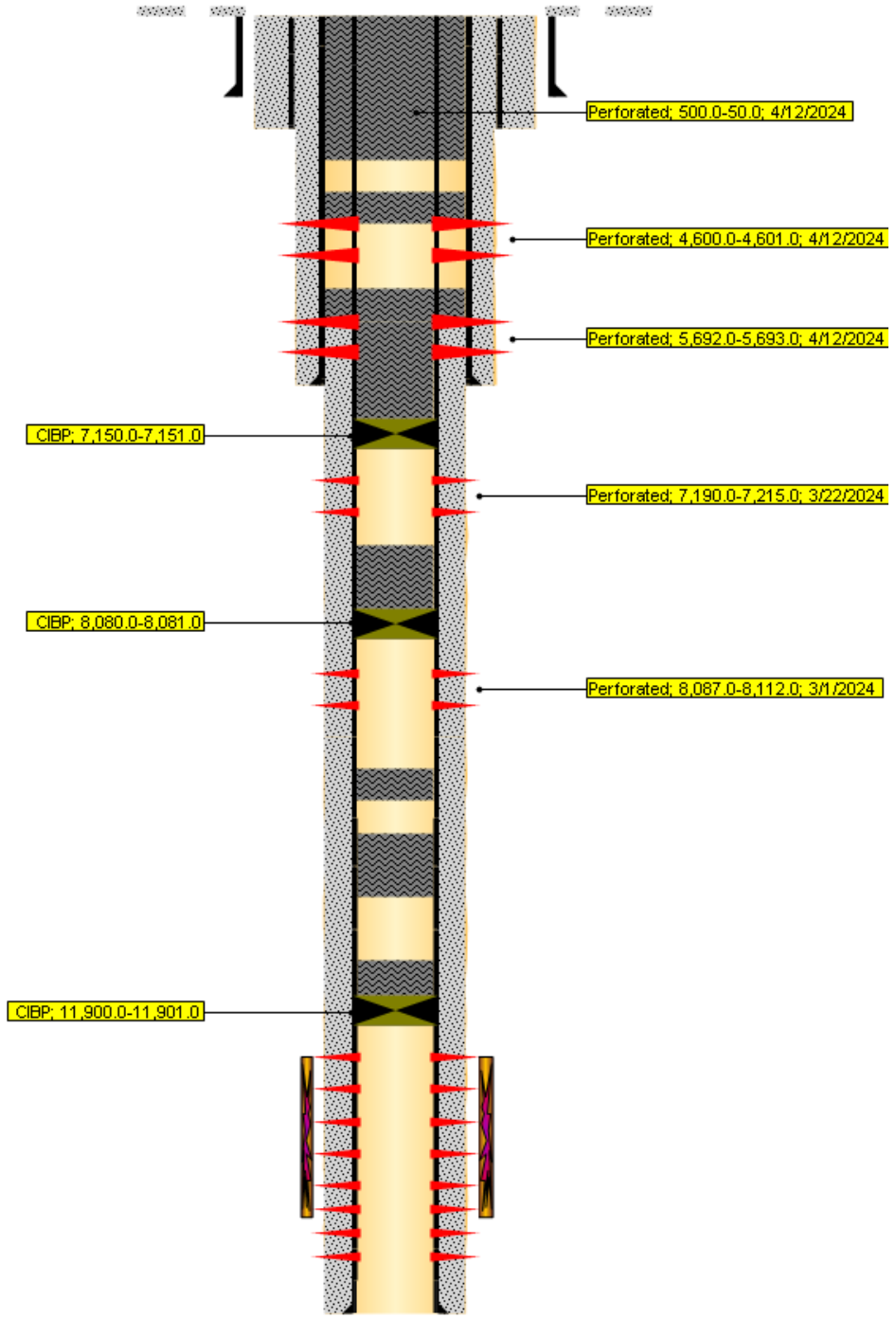
4160’ Intermediate Casing Shoe

5500’ DV Tool

6190’ T/ Perforation

7008’ DV Tool

8015’ T/ Bone spring




Perf and circulate 500’ to surface.

Perf and squeeze 770 SKS Class C from 4,600’ to 2,000’. WOC and Tag.

Perf and squeeze 25SKS Class C from 5,692’ to 5,592’. WOC and Tag.

Spot 154 SKS **Class H** atop CIBP from 7,150’ to TOC estimated at 5,692’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

Spot 23 SKS **Class H** atop CIBP from 8,080' to 7,900’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

Spot 25 SKS **Class H** from 9,450’ to 9,250’. WOC and Tag.

Spot 71 SKS **Class H** from 11,350’ to 10,750’. WOC and Tag.

Dump bail 35’ **Class H** atop CIBP from 11,900’ to 11,865’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

PLUG AND ABANDON WELLBORE
BIG EDDY UNIT 190
EDDY COUNTY, NEW MEXICO
Class II

| MASIP | MAOP | MAWP | Surface Csg Yield |
|---|---|---|---|
| 1,000 psi | 1,000 psi | 3,000 psi | 1730 PSI |

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**SUMMARY:** Plug and abandon wellbore according to BLM regulations.

1) MIRU plugging company. Set open top steel pit for plugging.

2) POOH LD rods and pump.

3) ND WH and NU 3K manual BOP. Function test BOP.

4) Unset the packer at 11,900'. POOH tbg.

5) MIRU WLU, RIH GR to 11,930'; RIH set CIBP at 11,900', pressure test to 500 PSI for 30 minutes; dump bail 35' **Class H** cement from 11,900' to 11,865'. WOC and tag to verify TOC. (T/ Perf)

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14) MIRU WLU, run CBL from 7,500' to surface. **Contact the BLM.**

15) Perf 6 SPF from 7,190' – 7,215'.

16) MIRU SLU, set tandem pressure gauges at 7,200'.

17) Pull after 3 weeks.

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23) Circulate Class C cement from 500' to surface. (~141 SKS) (Surface Casing Shoe)

24) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.

25) Set P&A marker.

26) Pull fluid from steel tank and haul to disposal. Release steel tank.

**BUREAU OF LAND MANAGEMENT**
**Carlsbad Field Office**
**620 East Greene Street**
**Carlsbad, New Mexico 88220**
**575-234-5972**

**Permanent Abandonment of Federal Wells**
**Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.**

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **fresh** water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours for Class C or accelerated cement (calcium chloride) and 6 hours for Class H. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

Fluid used to mix the cement in R111Q shall be saturated with the salts common to the section penetrated, and in suitable proportions but not less than 1% and not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified *BY PHONE* (numbers listed in 2. Notifications) a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**
The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292
www.blm.gov/nm

In Reply Refer To: 1310

## Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo “interim” reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don’t wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads**. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.

2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.

3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.

4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or

concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.

6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.

7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Jose Martinez-Colon
Environmental Protection Specialist
575-234-5951

Mark Mattozzi
Environmental Protection Specialist
575-234-5713

Robert Duenas
Environmental Protection Specialist
575-234-2229

Doris Lauger Martinez
Environmental Protection Specialist
575-234-5926

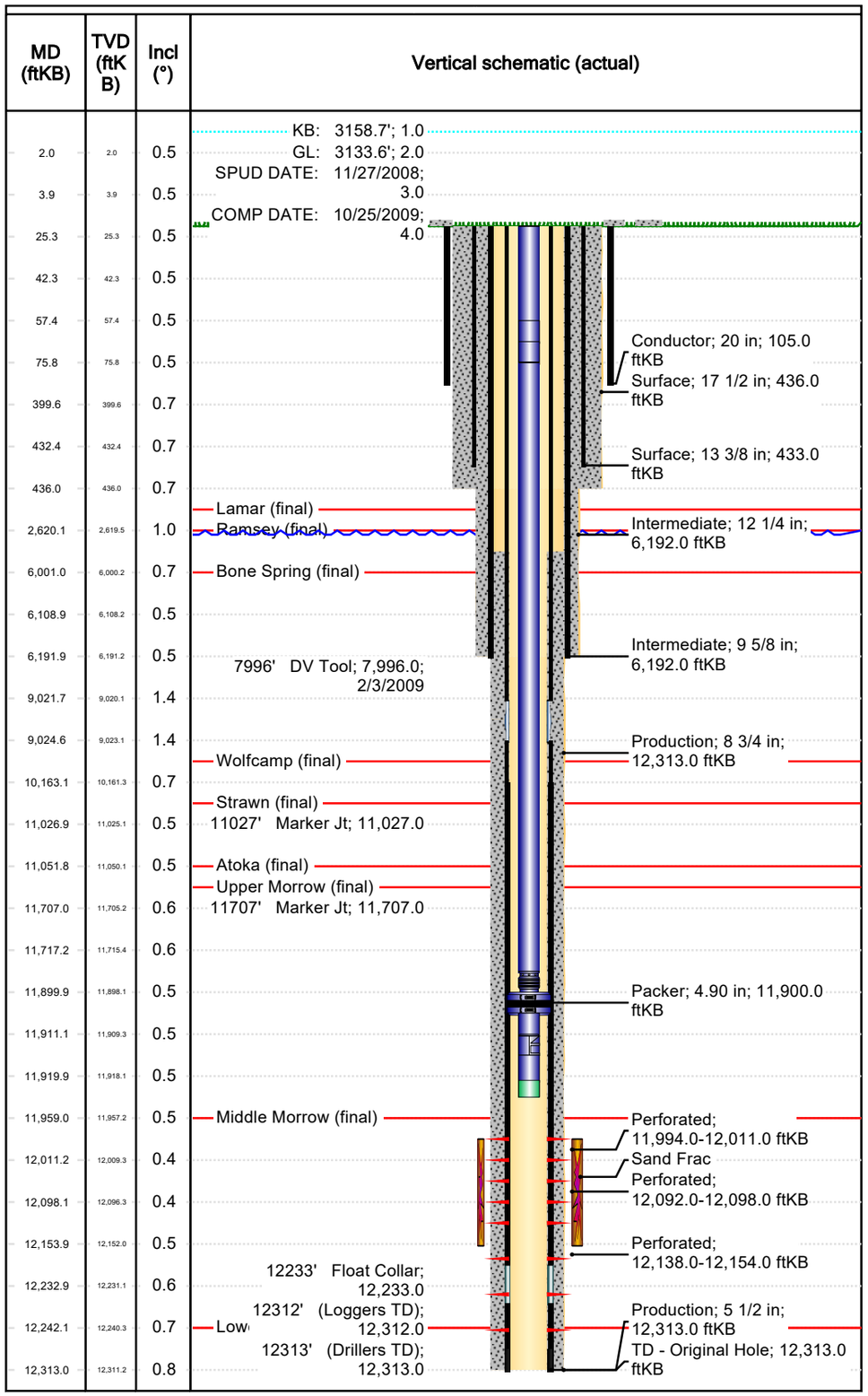
Jaden Johnston
Environmental Protection Asst. (Intern)
575-234-6252

# Downhole Well Profile - with Schematic

## Well Name: Big Eddy Unit 190

| API/UWI | SAP Cost Center ID | Permit Number | State/Province | County |
|---|---|---|---|---|
| 3001536290 | 1138741001 | | New Mexico | Eddy |

| Surface Location | Spud Date | Original KB Elevation (ft) | Ground Elevation (ft) | KB-Ground Distance (ft) | Surface Casing Flange Elevation (ft) |
|---|---|---|---|---|---|
| T22S-R28E-S09 | 11/27/2008 15:00 | 3,158.70 | 3,133.60 | 25.10 | |




### Wellbores

| Wellbore Name | Parent Wellbore | Wellbore API/UWI |
|---|---|---|
| Original Hole | Original Hole | 3001536290 |

| Start Depth (ftKB) | Profile Type |
|---|---|
| 25.1 | Vertical |

| Section Des | Hole Sz (in) | Act Top (ftKB) | Act Btm (ftKB) |
|---|---|---|---|
| Conductor | 26 | 25.1 | 105.0 |
| Surface | 17 1/2 | 25.1 | 436.0 |
| Intermediate | 12 1/4 | 436.0 | 6,192.0 |
| Production | 8 3/4 | 6,192.0 | 12,313.0 |

### Zones

| Zone Name | Top (ftKB) | Btm (ftKB) | Current Status |
|---|---|---|---|
| MIDDLE MORROW | 25.1 | | |

### Casing Strings

| Csg Des | Set Depth (ftKB) | OD (in) | Wt/Len (lb/ft) | Grade |
|---|---|---|---|---|
| Conductor | 105.0 | 20 | 94.00 | J-55 |
| Surface | 433.0 | 13 3/8 | 48.00 | H-40 |
| Intermediate | 6,192.0 | 9 5/8 | 40.00 | HCP-110 |
| Production | 12,313.0 | 5 1/2 | 17.00 | HCP-110 |

### Cement

| Des | Type | Start Date | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|
| Surface Casing Cement | Casing | 11/28/2008 | 25.0 | 436.0 |
| Intermediate Casing Cement | Casing | 12/9/2008 | 25.0 | 6,192.0 |
| Production Casing Cement | Casing | 1/9/2009 | 9,022.0 | 12,313.0 |
| Production Casing Cement | Casing | 1/9/2009 | 5,692.0 | 9,022.0 |

### Tubing Strings

| Tubing Description | Run Date | Set Depth (ftKB) |
|---|---|---|
| Tubing - Production | 10/30/2009 | 11,920.6 |

| Item Des | OD (in) | Wt (lb/ft) | Grade | Jts | Len (ft) | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|---|---|---|
| 2-3/8" EUE 8RD 4.7# L-80 | 2 3/8 | 4.70 | L-80 | 1 | 32.43 | 25.1 | 57.5 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | I-80 | 1 | 12.20 | 57.5 | 69.7 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 6.10 | 69.7 | 75.8 |
| 2-3/8" EUE 8RD 4.7# L-80 | 2 3/8 | 4.70 | L-80 | 363 | 11,820.88 | 75.8 | 11,896.7 |
| Seal Assembly | 2 3/8 | | | | 3.30 | 11,896.7 | 11,900.0 |
| Packer | 4.9 | | | | 3.09 | 11,900.0 | 11,903.1 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 7.98 | 11,903.1 | 11,911.1 |
| Profile Nipple | 2 3/8 | | | | 1.04 | 11,911.1 | 11,912.1 |
| 2-3/8" EUE 8RD 4.7# L-80 SUB | 2 3/8 | 4.70 | L-80 | 1 | 7.99 | 11,912.1 | 11,920.1 |
| 2-3/8" Pump Out Plug | 2 3/8 | | | | 0.45 | 11,920.1 | 11,920.6 |

### Perforations

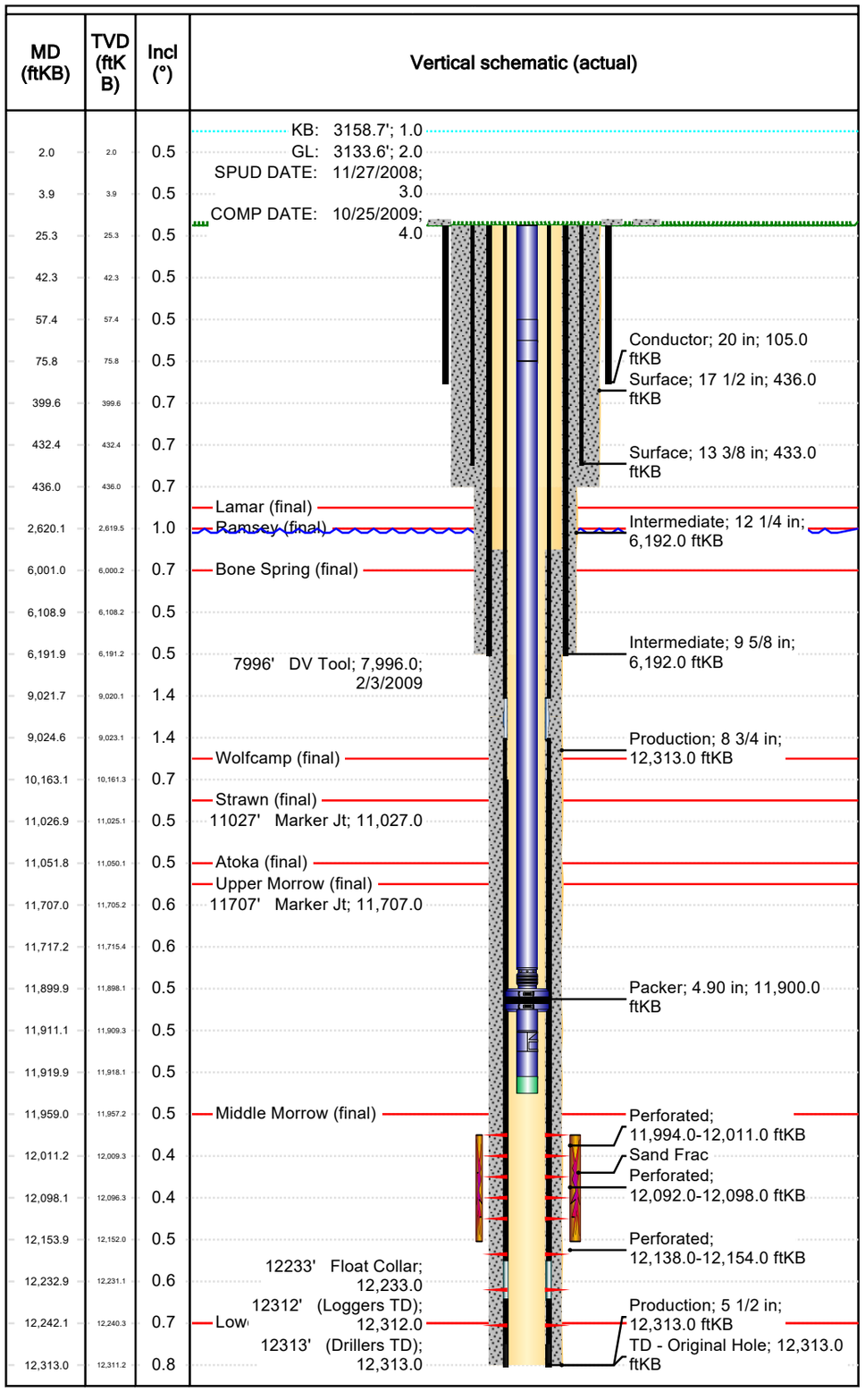
| Date | Top (ftKB) | Btm (ftKB) | Linked Zone |
|---|---|---|---|
| 10/23/2009 | 11,994.0 | 12,011.0 | |
| 10/23/2009 | 12,092.0 | 12,098.0 | |

# Downhole Well Profile - with Schematic

## Well Name: Big Eddy Unit 190

| API/UWI | SAP Cost Center ID | Permit Number | State/Province | County |
|---|---|---|---|---|
| 3001536290 | 1138741001 | | New Mexico | Eddy |

| Surface Location | Spud Date | Original KB Elevation (ft) | Ground Elevation (ft) | KB-Ground Distance (ft) | Surface Casing Flange Elevation (ft) |
|---|---|---|---|---|---|
| T22S-R28E-S09 | 11/27/2008 15:00 | 3,158.70 | 3,133.60 | 25.10 | |




### Perforations

| Date | Top (ftKB) | Btm (ftKB) | Linked Zone |
|---|---|---|---|
| 10/23/2009 | 12,138.0 | 12,154.0 | |

### Stimulation Intervals

| Interval Number | Top (ftKB) | Btm (ftKB) | AIR (bbl/min) | MIR (bbl/min) | Proppant Total (lb) |
|---|---|---|---|---|---|
| 1 | 11,994.0 | 12,154.0 | 1 | 1 | 0.0 |

# BEU 190 - Proposed WBD

803’ Surface Casing Shoe

4112’ T/ Delaware

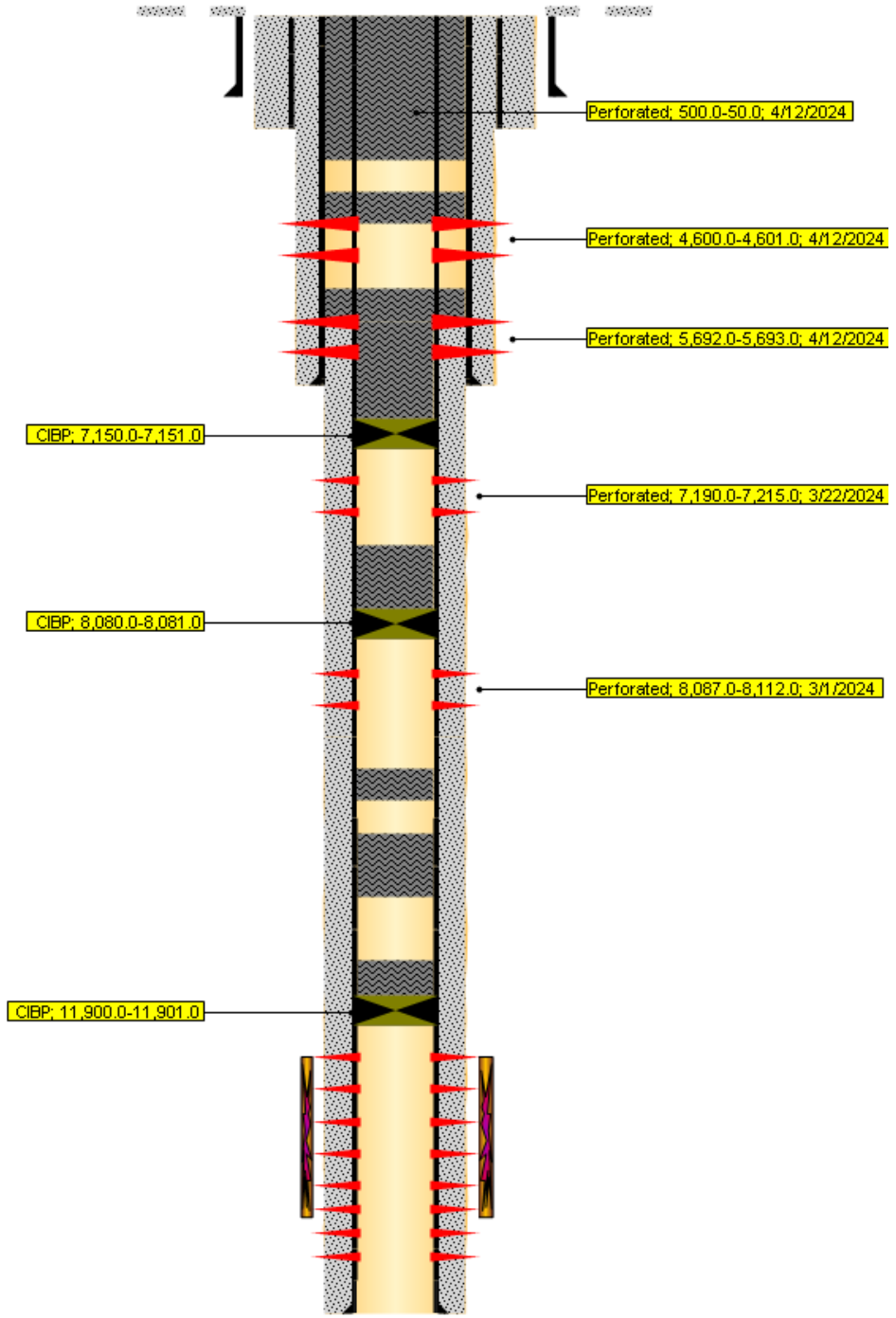
4160’ Intermediate Casing Shoe

5500’ DV Tool

6190’ T/ Perforation

7008’ DV Tool

8015’ T/ Bone spring




Perf and circulate 500’ to surface.

Perf and squeeze 770 SKS Class C from 4,600’ to 2,000’. WOC and Tag.

Perf and squeeze 25SKS Class C from 5,692’ to 5,592’. WOC and Tag.

Spot 154 SKS **Class H** atop CIBP from 7,150’ to TOC estimated at 5,692’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

Spot 23 SKS **Class H** atop CIBP from 8,080' to 7,900’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

Spot 25 SKS **Class H** from 9,450’ to 9,250’. WOC and Tag.

Spot 71 SKS **Class H** from 11,350’ to 10,750’. WOC and Tag.

Dump bail 35’ **Class H** atop CIBP from 11,900’ to 11,865’. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

**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 346104

## CONDITIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>346104 |
| | Action Type:<br>[C-103] NOI Plug & Abandon (C-103F) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| gcordero | Run CBL from 11900' to surface. CBL must be submitted to OCD via OCD permitting before submitting C-103P | 5/24/2024 |