

Well Name: BIG EDDY UNIT	Well Location: T21S / R29E / SEC 17 / SESW / 32.474 / -104.008964	County or Parish/State: EDDY / NM
Well Number: 191	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM02918	Unit or CA Name: BIG EDDY	Unit or CA Number: NMNM68294X
US Well Number: 3001536291	Well Status: Producing Gas Well	Operator: XTO PERMIAN OPERATING LLC

Accepted for record –NMOCD gc10/12/2023

Notice of Intent

Sundry ID: 2751398

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 09/14/2023	Time Sundry Submitted: 02:51
Date proposed operation will begin: 10/14/2023	

**Procedure Description:** 1. ND WH and NU 3K manual BOP. Function test BOP. 2. Release 2-3/8" 4.7# N-80 tubing w/ 2-3/8" x 2-7/8" X-over from 5-1/2" x 3.0 Bore Weatherford Arrow Drill Permanent packer at 12,278', POOH tubing. 3. RIH and mill out permanent packer. Push Packer/tailpipe to PBTD or as deep as possible. Notify Engineering. 4. MIRU WLU, RIH GR sized for 5-1/2" 17# casing to 13,370', RIH CIBP and set at 12,350'. Pressure test CIBP to 500 psig for 30 min. Notify BLM. 5. Spot 60 SKS Class H cement from 12,350' to 11,870'. WOC, tag and notify BLM. (T/Lower Perf, T/Morrow) 6. Spot 30 SKS Class H cement from 10,150 to 9,910'. (T/ Wolfcamp) 7. Spot 25 SKS Class H cement from 7,575 to 7,373'. WOC, Tag, Notify BLM. (DV Tool) 8. Spot 25 SKS Class C Cement from 6,700 to 6,447' (T/Bone Spring) 9. Spot 25 SKS Class C Cement from 3,000, 2,747'. WOC, Tag, Notify BLM. (Intermediate Casing Shoe, T/Delaware) 10. Spot 25 SKS Class C Cement from 1,840' to 1,587'. 11. MIRU Wireline and perforate 650'. Establish circulation down casing and up annulus to surface. 12. Circulate 225 SKS Class C cement down casing and up annulus. WOC and verify. (T/Salt, Surface) 13. ND BOP and cut off wellhead 5' below surface. RDMO PU and trucks. 14. Set P&A marker.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- BEU\_191\_DHWP\_20230914144802.pdf
- BEU\_191\_Proposed\_WBD\_20230914144803.pdf

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Conditions of Approval

Specialist Review

BIG\_EDDY\_UNIT\_191\_\_\_2751398\_\_\_COA\_AND\_PROCEDURE\_20231002175200.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

<b>Operator Electronic Signature:</b> KRISTEN HOUSTON	<b>Signed on:</b> SEP 14, 2023 02:49 PM
<b>Name:</b> XTO PERMIAN OPERATING LLC	
<b>Title:</b> Regulatory Analyst	
<b>Street Address:</b> 6401 HOLIDAY HILL ROAD BLDG 5	
<b>City:</b> MIDLAND	<b>State:</b> TX
<b>Phone:</b> (432) 620-6700	
<b>Email address:</b> KRISTEN.HOUSTON@EXXONMOBIL.COM	

Field

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> KEITH P IMMATTY	<b>BLM POC Title:</b> ENGINEER
<b>BLM POC Phone:</b> 5759884722	<b>BLM POC Email Address:</b> KIMMATTY@BLM.GOV
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 10/02/2023
<b>Signature:</b> KEITH IMMATTY	

1. ND WH and NU 3K manual BOP. Function test BOP.
2. Release 2-3/8" 4.7# N-80 tubing w/ 2-3/8" x 2-7/8" X-over from 5-1/2" x 3.0 Bore Weatherford Arrow Drill Permanent packer at 12,278', POOH tubing.
3. RIH and mill out permanent packer. Push Packer/tailpipe to PBTD or as deep as possible. Notify Engineering.
4. MIRU WLU, RIH GR sized for 5-1/2" 17# casing to 13,370', RIH CIBP and set at 12,330'. Pressure test CIBP to 500 psig for 30 min. Notify BLM.
5. Spot 60 SKS Class H cement from 12,350' to 11,870'. WOC, tag and notify BLM. (T/Lower Perf, T/Morrow)
6. Spot 30 SKS Class H cement from 10,150 to 9,910'. (T/ Wolfcamp)
7. Spot 25 SKS Class H cement from 7,575 to 7,373'. WOC, Tag, Notify BLM. (DV Tool)
8. Spot 25 SKS Class C Cement from 6,700 to 6,447' (T/Bone Spring)
9. Spot 25 SKS Class C Cement from 3,000, 2,747'. WOC, Tag, Notify BLM. (Intermediate Casing Shoe, T/ Delaware)
10. Spot 25 SKS Class C Cement from 1,840' to 1,587'. **WOC and Tag**
11. MIRU Wireline and perforate 650'. Establish circulation down casing and up annulus to surface.
12. Circulate 225 SKS Class C cement down casing and up annulus. WOC and verify. (T/Salt, Surface)
13. ND BOP and cut off wellhead 5' below surface. RDMO PU and trucks.
14. Set P&A marker.

# Big Eddy Unit 191 - Proposed WBD

13-3/8" shoe 445'

T/Delaware 2870'

9-5/8" shoe 2933'

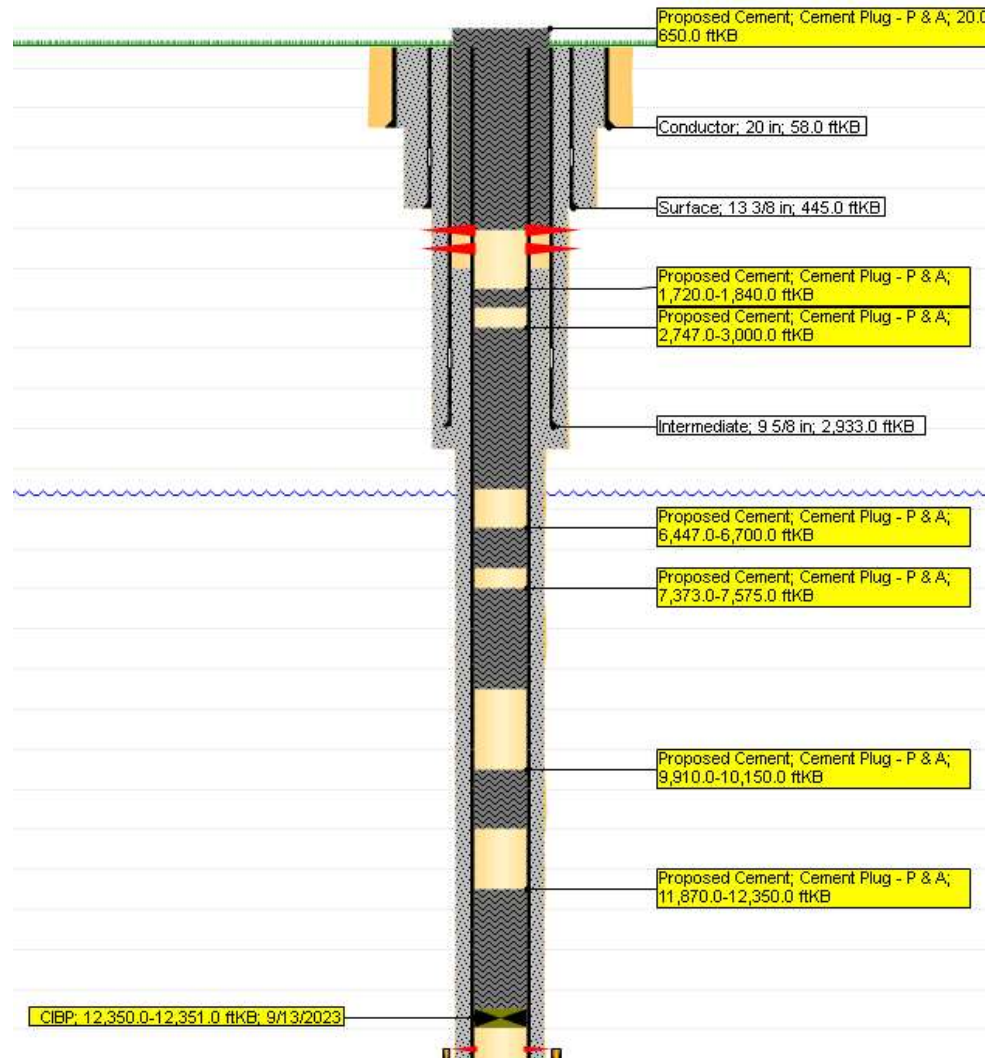
T/Bone Spring 6627'

Lower DV Tool 7512'

T/Wolfcamp 10100'

T/Morrow 12076'

T/Perf 12380'



Squeeze ~225 SKS Class C: 650' to surface.

Spot 25 sacks from 1840' to 1587'  
WOC and Tag

Spot 25 SKS Class C: 3000' - 2747'.  
WOC and tag.

Spot 25 SKS Class C: 6700' - 6447'.

Spot 25 SKS Class H: 7575' - 7373'.  
WOC and tag.

Spot 30 SKS Class H: 10150' - 9910'.

Spot 60 SKS Class H atop CIBP:  
12330' - 11870'. Pressure test CIBP  
to 500 psig for 30 min.

Sundry ID		2751398				
Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	650.00	650.00	Verify circulated to surface	~150sx	Perf and sqz to surface. Salt, Shoe, Surface
Shoe Plug	390.55	495.00	104.45	WOC and Tag		
Top of Salt @ 600	544.00	650.00	106.00	WOC and Tag		
TOC 1418'. Perf and sqz above plugs						
Base of Salt @ 1790	1722.10	1840.00	117.90	WOC and Tag	25.00	
Delaware @ 2870	2791.30	2920.00	128.70	WOC and Tag	25.00	
Shoe Plug	2853.67	2983.00	129.33	WOC and Tag		
Bonesprings @ 6627	6510.73	6677.00	166.27		25.00	
DV tool plug	7390.84	7566.00	175.16	WOC and Tag	25.00	
Wolfcamp @ 10100	9949.00	10150.00	201.00		25.00	
Morrow @ 12076	11905.24	12126.00	220.76		60.00	Same as below plug
CIBP Plug	12295.00	12330.00	35.00	WOC and Tag		Leak test 500psi, 30mins

**No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.**

**Class H >7500'**

**Class C <7500'**

**Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.**

**Critical, High Cave Karst: Cave Karst depth to surface**

**R111P: Solid plug in all annuli - 50' from bottom of salt to surface.**

**Class C: 1.32 ft<sup>3</sup>/sx**

**Class H: 1.06 ft<sup>3</sup>/sx**

**Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected."**

<b>Cave Karst/Potash Cement</b>	<b>Low</b>	500.00
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Shoe @ 445.00

Shoe @ 2933.00

Shoe @ 12725.00

Perforatons Top @	12380.00	Perforations	12501.00
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DV Tool @	7516.00	CIBP @	12330.00
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**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 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> 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 brine 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. 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.

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 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 10<sup>th</sup> 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

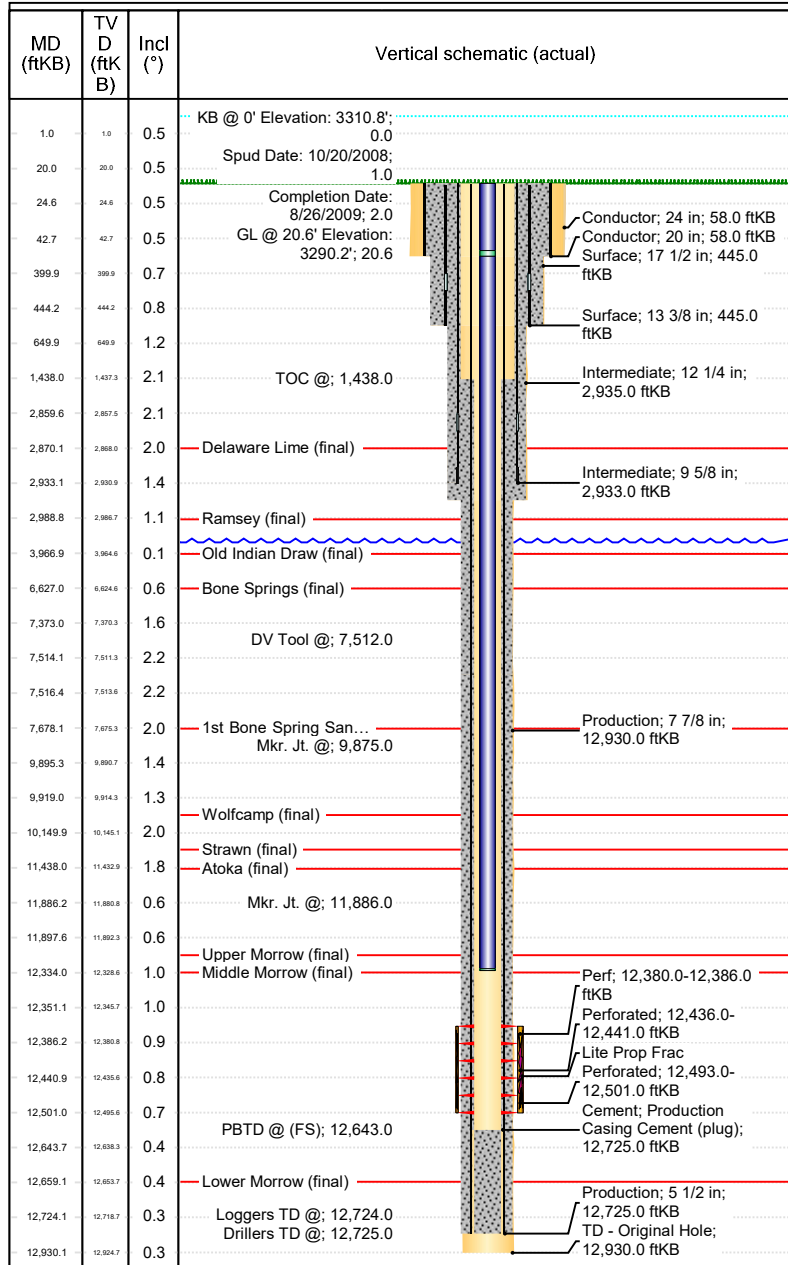
Jaden Johnston  
Environmental Protection Asst. (Intern)  
575-234-6252



## Downhole Well Profile - with Schematic

Well Name: Big Eddy Unit 191

API/UWI 3001536291	SAP Cost Center ID 1138751001	Permit Number	State/Province New Mexico	County Eddy	Ground Elevation (ft) 3,290.20	KB-Ground Distance (ft) 20.60	Surface Casing Flange Elevatio...
Surface Location T21S-R29E-S17	Spud Date 10/20/2008 01:45	Original KB Elevation (ft) 3,310.80	Ground Elevation (ft) 3,290.20	KB-Ground Distance (ft) 20.60	Surface Casing Flange Elevatio...		



Wellbores				
Wellbore Name Original Hole		Parent Wellbore Original Hole		Wellbore API/UWI
Start Depth (ftKB)		Profile Type		
Section Des	Hole Sz (in)	Act Top (ftKB)	Act Btm (ftKB)	
Conductor	24	20.6	58.0	
Surface	17 1/2	58.0	445.0	
Intermediate	12 1/4	445.0	2,935.0	
Production	7 7/8	2,935.0	12,930.0	
Zones				
Zone Name	Top (ftKB)	Btm (ftKB)	Current Status	
Middle Morrow				
Casing Strings				
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Conductor	58.0	20	94.00	J-55
Surface	445.0	13 3/8	48.00	H-40
Intermediate	2,933.0	9 5/8	36.00	J-55
Production	12,725.0	5 1/2	17.00	HCP-110
Cement				
Des	Type	Start Date	Top (ftKB)	Btm (ftKB)
Surface Casing Cement	Casing	10/21/2008	20.6	445.0
Intermediate Casing Cement	Casing	10/28/2008	20.6	2,933.0
Production Casing Cement	Casing	12/5/2008	7,516.0	12,725.0
Production Casing Cement	Casing	12/5/2008	1,438.0	7,516.0
Perforations				
Date	Top (ftKB)	Btm (ftKB)	Linked Zone	
8/26/2009	12,380.0	12,386.0		
8/26/2009	12,436.0	12,441.0		
8/26/2009	12,493.0	12,501.0		
Stimulation Intervals				
Interval Number	Top (ftKB)	Btm (ftKB)	AIR (bbl/min)	MIR (bbl/min)
1	12,380.0	12,501.0		
				Proppant Total (lb)
				0.0

**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 271665

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 271665
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	10/12/2023