*See attached NOI for approved wellname change, SHL change, BHL change, pool change, and casing changes

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-55833

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory
WC-025 G-08 S253235G; LWR BONE SPRIN

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

22. Approximate date work will start*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature

Name *(Printed/Typed)*

Date

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 12/11/2025

Additional Operator Remarks

Location of Well

0. SHL: SESW / 200 FSL / 1915 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801874 / LONG: -103.6824935 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799205 / LONG: -103.3678945 (TVD: 11910 feet, MD: 12004 feet)

PPP: SWSE / 110 FSL / 2316 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.0944277 / LONG: -103.6789468 (TVD: 12791 feet, MD: 18000 feet)

BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1086183 / LONG: -103.6789567 (TVD: 12763 feet, MD: 23153 feet)

BLM Point of Contact

Name: CANDY VIGIL
Title: LLE
Phone: (575) 234-5982
Email: CVIGIL@BLM.GOV

*See attached NOI for approved wellname change, SHL change, BHL change, pool change, and casing changes

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type:
☒ Initial Submittal
☐ Amended Report
☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	[98203]	WC-025 S253227A;LWR WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	VAN DOO DAH 33-28 FED COM	839H

OGRID No.	Operator Name	Ground Level Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3318.9

Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal
Mineral Owner: ☐State ☐Fee ☐Tribal ☒Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		200 SOUTH	1915 WEST	32.0801874°N	103.6824935°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	25 S	32 E		20 NORTH	2310 EAST	32.1086183°N	103.6789567°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640.00	INFILL	30-025-51618	Y	C

Order Numbers. N/A
Well setbacks are under Common Ownership: ☐Yes ☒No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	33	25 S	32 E		50 SOUTH	2310 EAST	32.0797831°N	103.6789460°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	33	25 S	32 E		100 SOUTH	2310 EAST	32.0799205°N	103.6789458°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	25 S	32 E		100 NORTH	2310 EAST	32.1083985°N	103.6789559°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒Horizontal ☐Vertical	Ground Floor Elevation:
N		N/A

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Amy A. Brown 09/23/2025
Signature Date

Amy A. Brown
Printed Name

amy.brown@dvn.com
Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FILIMON F. JARAMILLO
NEW MEXICO
12797
REGISTERED PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor
FILIMON F. JARAMILLO

CertificateNumber	Dateof Survey
PLS 12797	SEPTEMBER 22, 2025

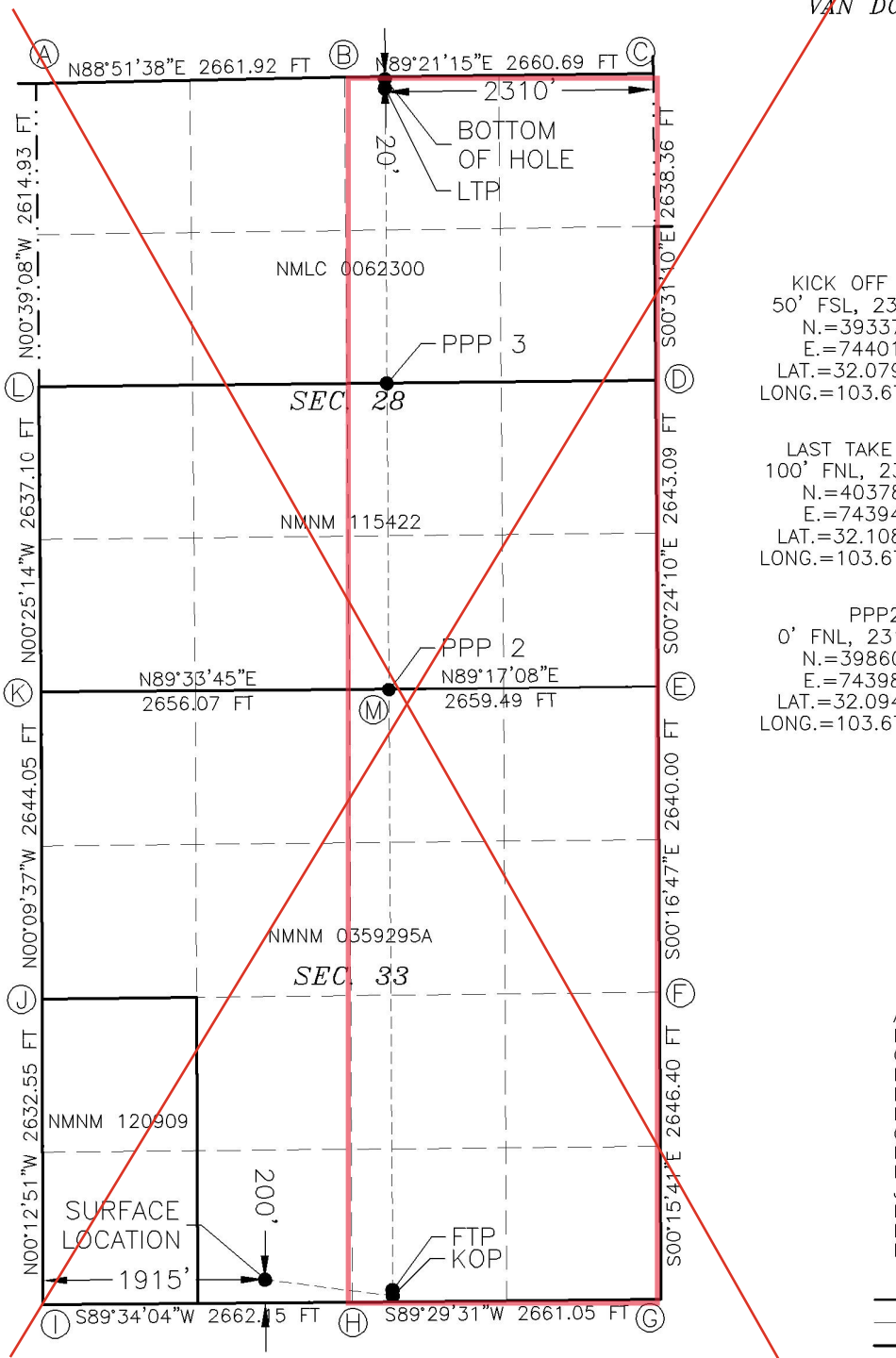
SURVEY NO. 9332

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



VAN DOO DAH 33-28 FED COM 839H
EL. = 3318.9

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
200' FSL, 1915' FEL
N.=393517.41
E.=742916.19
LAT.=32.0801874°N
LONG.=103.6824935°W

KICK OFF POINT
50' FSL, 2310' FEL
N.=393376.97
E.=744015.84
LAT.=32.0797831°N
LONG.=103.6789460°W

FIRST TAKE POINT
100' FSL, 2310' FEL
N.=393426.96
E.=744015.62
LAT.=32.0799205°N
LONG.=103.6789458°W

LAST TAKE POINT
100' FNL, 2310' FEL
N.=403786.77
E.=743949.60
LAT.=32.1083985°N
LONG.=103.6789559°W

BOTTOM OF HOLE
20' FNL, 2310' FEL
N.=403866.75
E.=743948.87
LAT.=32.1086183°N
LONG.=103.6789567°W

PPP2
0' FNL, 2319' FEL
N.=398603.75
E.=743982.63
LAT.=32.0941509°N
LONG.=103.6789509°W

PPP3
2645' FSL, 2316' FEL
N.=401247.72
E.=743965.78
LAT.=32.1014189°N
LONG.=103.6789535°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A –	N.= 403829.87	E.= 740937.30
B –	N.= 403882.79	E.= 743598.11
C –	N.= 403912.78	E.= 746258.05
D –	N.= 401272.46	E.= 746280.66
E –	N.= 398632.65	E.= 746300.54
F –	N.= 395993.26	E.= 746313.42
G –	N.= 393347.47	E.= 746325.50
H –	N.= 393323.87	E.= 743665.13
I –	N.= 393301.16	E.= 741002.34
J –	N.= 395935.76	E.= 740993.81
K –	N.= 398579.22	E.= 740986.41
L –	N.= 401215.68	E.= 740967.06
M –	N.= 398599.50	E.= 743641.83

LEGEND

SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: DEVON ENERGY PRODUCTION COMPANY, LP **OGRID:** 6137 **Date:** 4 / 14 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attachment.						

IV. Central Delivery Point Name: See attachment [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See attachment						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

NATURAL GAS MANAGEMENT PLAN
Section 1 - Plan Description

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	Central Delivery Point Name:	API	ULSTR	FOOTAGES					Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Van Doo Dah 33-28 Fed Com 711H	Van Doo Dah 33 CTB 2		33-25S-32E	615	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 621H	Van Doo Dah 33 CTB 2		33-25S-32E	645	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 731H	Van Doo Dah 33 CTB 2		33-25S-32E	675	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 821H	Van Doo Dah 33 CTB 2		33-25S-32E	795	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 831H	Van Doo Dah 33 CTB 2		33-25S-32E	825	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
								WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 712H	Van Doo Dah 33 CTB 2		33-25S-32E	2065	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 622H	Van Doo Dah 33 CTB 2		33-25S-32E	2095	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 732H	Van Doo Dah 33 CTB 2		33-25S-32E	2125	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 822H	Van Doo Dah 33 CTB 2		33-25S-32E	1855	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 832H	Van Doo Dah 33 CTB 2		33-25S-32E	1885	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com ~~833H~~ 222H	Van Doo Dah 33 CTB 2		33-25S-32E	1915	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
								WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 714H	Van Doo Dah 33 CTB 3		33-25S-32E	2276	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 624H	Van Doo Dah 33 CTB 3		33-25S-32E	2246	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 734H	Van Doo Dah 33 CTB 3		33-25S-32E	2216	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 823H	Van Doo Dah 33 CTB 3		33-25S-32E	2486	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 833H	Van Doo Dah 33 CTB 3		33-25S-32E	2456	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 830H	Van Doo Dah 33 CTB 3		33-25S-32E	2426	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
								WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 716H	Van Doo Dah 33 CTB 3		33-25S-32E	851	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 626H	Van Doo Dah 33 CTB 3		33-25S-32E	821	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 736H	Van Doo Dah 33 CTB 3		33-25S-32E	791	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 824H	Van Doo Dah 33 CTB 3		33-25S-32E	911	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		
Van Doo Dah 33-28 Fed Com 834H	Van Doo Dah 33 CTB 3		33-25S-32E	881	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd		

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name		API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow back Date	First Production Date
Van Doo Dah 33-28 Fed Com 711H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 621H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 731H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 821H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 831H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 712H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 622H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 732H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 822H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 832H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com ~~833H~~ 222H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 714H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 624H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 734H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 823H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 833H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 830H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 716H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 626H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 736H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 824H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024
Van Doo Dah 33-28 Fed Com 834H			11/7/2023	12/7/2023	4/5/2024	4/5/2024	4/5/2024

Dates above are subject to change

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Jeff Walla
Title:	Surface Land and Regulatory Manager
E-mail Address:	
Date:	
Phone:	

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
    - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
    - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
    - Flaring in lieu of venting, where technically feasible
    - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
    - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
    - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
    - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
    - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible

VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

Van Doo Dah 33-28 Fed Com 839H

1. Geologic Formations

TVD of target	12763	Pilot hole depth	N/A
MD at TD:	23157	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	995		
Salt	1380		
Base of Salt	4625		
Delaware	4625		
Cherry Canyon	5580		
Brushy Canyon	7170		
1st Bone Spring Lime	8680		
Bone Spring 1st	9665		
Bone Spring 2nd	10310		
3rd Bone Spring Lime	10805		
Bone Spring 3rd	11415		
Wolfcamp	11910		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

*See attached NOI for approved wellname change, SHL change, BHL change, pool change, and casing changes

Van Doo Dah 33-28 Fed Com 839H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	1065	0	1065
12 1/4	9 5/8	40	J-55	BTC-TS	0	4725	0	4725
7 7/8	5 1/2	20	P110ICY	461	0	23157	0	12763

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	809	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	76	0	9	3.27	Lead: Class C Cement + additives
	1141	725	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	172	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	76	Surf	9	3.27	Lead: Class C Cement + additives
	1141	725	13.2	1.44	Tail: Class H / C + additives
Production	473	4225	9	3.27	Lead: Class H /C + additives
	1432	12339	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

Van Doo Dah 33-28 Fed Com 839H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	10M	Annular (5M)	X	100% of rated working pressure
			Blind Ram	X	10M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested to run a 5 M annular on a 10M system

Van Doo Dah 33-28 Fed Com 839H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6969
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

Casing Assumptions and Load Cases

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Surface Casing Burst Design		
Load Case	**External Pressure**	**Internal Pressure**
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

Surface Casing Collapse Design		
Load Case	**External Pressure**	**Internal Pressure**
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surface Casing Tension Design	
Load Case	**Assumptions**
Overpull	100kips
Runing in hole	3 ft/s
Service Loads	N/A

Casing Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design		
Load Case	**External Pressure**	**Internal Pressure**
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case	**External Pressure**	**Internal Pressure**
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design	
Load Case	**Assumptions**
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A

Casing Assumptions and Load Cases

Production

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Production Casing Burst Design		
Load Case	**External Pressure**	**Internal Pressure**
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid

Production Casing Collapse Design		
Load Case	**External Pressure**	**Internal Pressure**
Full Evacuation	Water gradient in cement, mud above TOC.	None
Cementing	Wet cement weight	Water (8.33ppg)

Production Casing Tension Design	
Load Case	**Assumptions**
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A

Van Doo Dah 33-28 Fed Com 839H

8. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
    a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
    a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
_____ Other, describe

devon

Commitment Runs Deep

Design Plan
Operation and Maintenance Plan
Closure Plan

SENM – Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

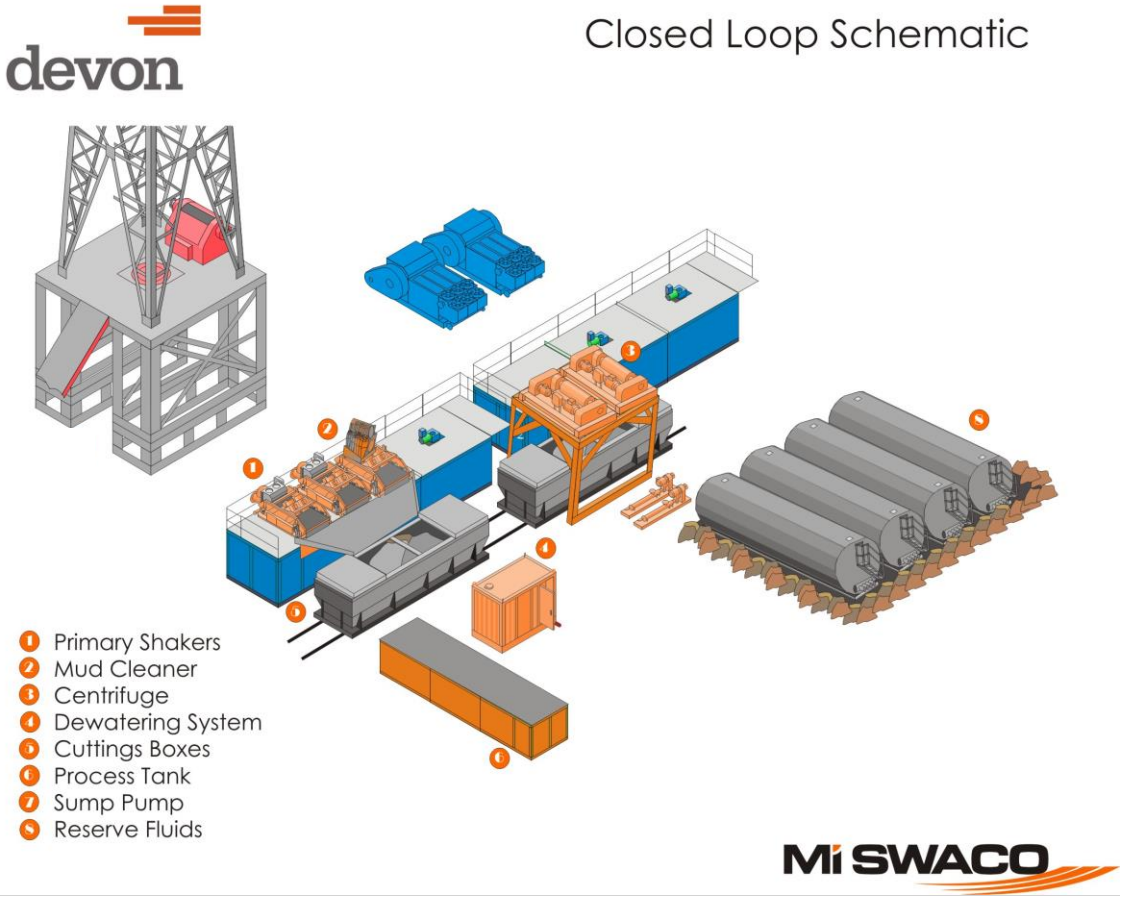
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

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

Drilling Plan Data Report
12/16/2025

APD ID: 10400107330 **Submission Date:** 09/23/2025

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: VAN DOO DAH 33-28 FED COM **Well Number:** 839H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16989174	UNKNOWN	3670	0	0	ALLUVIUM, OTHER : Surface	NONE	N
16989175	RUSTLER	2675	995	995	SANDSTONE	NONE	N
16989179	TOP SALT	2290	1380	1380	SALT	NONE	N
16989183	BELL CANYON	-955	4625	4625	SANDSTONE	NATURAL GAS, OIL	N
16989177	BASE OF SALT	-955	4625	4625	SALT	NONE	N
16989184	CHERRY CANYON	-1910	5580	5580	SANDSTONE	NATURAL GAS, OIL	N
16989185	BRUSHY CANYON	-3500	7170	7170	SANDSTONE	NATURAL GAS, OIL	N
16989186	BONE SPRING LIME	-5010	8680	8680	LIMESTONE	NATURAL GAS, OIL	N
16989176	BONE SPRING	-5995	9665	9665	SANDSTONE	NATURAL GAS, OIL	N
16989173	BONE SPRING 2ND	-6640	10310	10310	SANDSTONE	NATURAL GAS, OIL	N
16989187	BONE SPRING LIME	-7135	10805	10805	LIMESTONE	NATURAL GAS, OIL	N
16989188	BONE SPRING 3RD	-7745	11415	11415	SANDSTONE	NATURAL GAS, OIL	N
16989189	WOLFCAMP	-8240	11910	11910	SANDSTONE	NATURAL GAS, OIL	Y
16989190	STRAWN	-10300	13970	13970	LIMESTONE	NATURAL GAS, OIL	N

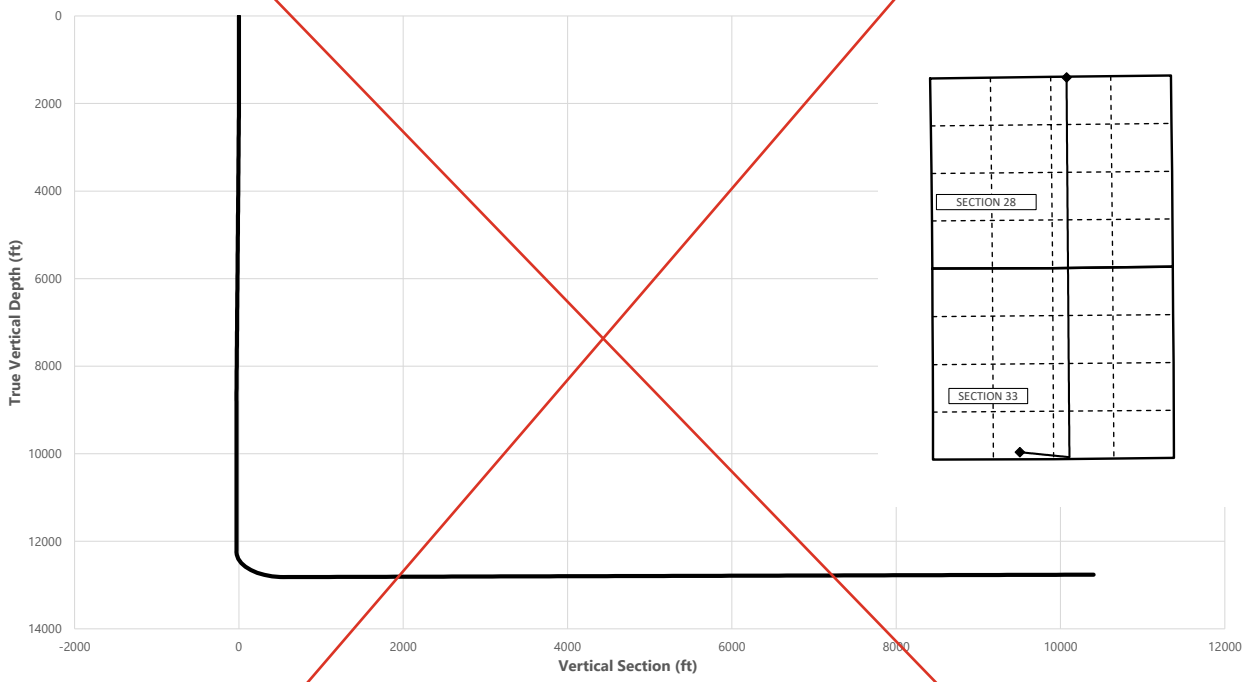
Section 2 - Blowout Prevention

devon

Well: Van Doo Dah 33-28 Fed Com 839H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	97.20	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	97.20	2497.47	-5.45	43.18	-1.14	2.00	Hold Tangent
8366.10	10.00	97.20	8274.45	-133.12	1053.79	-27.83	0.00	Drop to Vertical
8866.10	0.00	97.20	8771.92	-138.58	1096.96	-28.97	2.00	Hold Vertical
12339.24	0.00	359.65	12245.05	-138.58	1096.96	-28.97	0.00	KOP
13242.42	90.32	359.65	12818.00	437.55	1093.45	543.95	10.00	Landing Point
23156.80	90.32	359.65	12763.00	10351.59	1032.88	10402.99	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	995.00	995.00
Salt	1380.00	1380.00
Base of Salt	4660.36	4625.00
Delaware	4660.36	4625.00
Cherry Canyon	5630.09	5580.00
Brushy Canyon	7244.62	7170.00
1st Bone Spring Lime	8774.17	8680.00
Bone Spring 1st	9759.19	9665.00
Bone Spring 2nd	10404.19	10310.00
3rd Bone Spring Lime	10899.19	10805.00
Bone Spring 3rd	11509.19	11415.00
Wolfcamp / Point of Penetration	12004.19	11910.00
exit	23076.80	12763.46

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0801	-103.6826	200' FSL, 1915' FWL of Sec 33 in T25S, R32E
KOP	12339.24	12245.05	32.0797	-103.6789	50' FSL, 2309' FEL of Sec 33 in T25S, R32E
Point of Penetration	12004.19	11910.00	32.0799	-103.6789	100' FSL, 2310' FEL of Sec 33 in T25S, R32E
Exit	23076.80	12763.46	32.1084	-103.6789	100' FNL, 2310' FEL of Sec 28 in T25S, R32E
BHL	23156.80	12763.00	32.1085	-103.6790	20' FNL, 2310' FEL of Sec 28 in T25S, R32E

devon

Well: Van Doo Dah 33-28 Fed Com 839H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	97.20	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	97.20	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	97.20	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	97.20	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	97.20	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	97.20	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	97.20	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	97.20	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	97.20	900.00	0.00	0.00	0.00	0.00	
995.00	0.00	97.20	995.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	97.20	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	97.20	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	97.20	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	97.20	1300.00	0.00	0.00	0.00	0.00	
1380.00	0.00	97.20	1380.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	97.20	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	97.20	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	97.20	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	97.20	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	97.20	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	97.20	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	97.20	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	97.20	2099.98	-0.22	1.73	-0.05	2.00	
2200.00	4.00	97.20	2199.84	-0.87	6.92	-0.18	2.00	
2300.00	6.00	97.20	2299.45	-1.97	15.57	-0.41	2.00	
2400.00	8.00	97.20	2398.70	-3.49	27.66	-0.73	2.00	
2500.00	10.00	97.20	2497.47	-5.45	43.18	-1.14	2.00	Hold Tangent
2600.00	10.00	97.20	2595.95	-7.63	60.41	-1.60	0.00	
2700.00	10.00	97.20	2694.43	-9.81	77.64	-2.05	0.00	
2800.00	10.00	97.20	2792.91	-11.98	94.86	-2.51	0.00	
2900.00	10.00	97.20	2891.39	-14.16	112.09	-2.96	0.00	
3000.00	10.00	97.20	2989.87	-16.34	129.32	-3.42	0.00	
3100.00	10.00	97.20	3088.35	-18.51	146.55	-3.87	0.00	
3200.00	10.00	97.20	3186.83	-20.69	163.77	-4.33	0.00	
3300.00	10.00	97.20	3285.31	-22.87	181.00	-4.78	0.00	
3400.00	10.00	97.20	3383.79	-25.04	198.23	-5.24	0.00	
3500.00	10.00	97.20	3482.27	-27.22	215.46	-5.69	0.00	
3600.00	10.00	97.20	3580.75	-29.39	232.69	-6.15	0.00	
3700.00	10.00	97.20	3679.23	-31.57	249.91	-6.60	0.00	
3800.00	10.00	97.20	3777.72	-33.75	267.14	-7.06	0.00	
3900.00	10.00	97.20	3876.20	-35.92	284.37	-7.51	0.00	
4000.00	10.00	97.20	3974.68	-38.10	301.60	-7.97	0.00	
4100.00	10.00	97.20	4073.16	-40.28	318.83	-8.42	0.00	
4200.00	10.00	97.20	4171.64	-42.45	336.05	-8.88	0.00	
4300.00	10.00	97.20	4270.12	-44.63	353.28	-9.33	0.00	
4400.00	10.00	97.20	4368.60	-46.81	370.51	-9.79	0.00	
4500.00	10.00	97.20	4467.08	-48.98	387.74	-10.24	0.00	
4600.00	10.00	97.20	4565.56	-51.16	404.96	-10.70	0.00	
4660.36	10.00	97.20	4625.00	-52.47	415.36	-10.97	0.00	Base of Salt, Delaware
4700.00	10.00	97.20	4664.04	-53.33	422.19	-11.15	0.00	
4800.00	10.00	97.20	4762.52	-55.51	439.42	-11.61	0.00	
4900.00	10.00	97.20	4861.00	-57.69	456.65	-12.06	0.00	
5000.00	10.00	97.20	4959.48	-59.86	473.88	-12.52	0.00	
5100.00	10.00	97.20	5057.97	-62.04	491.10	-12.97	0.00	
5200.00	10.00	97.20	5156.45	-64.22	508.33	-13.43	0.00	
5300.00	10.00	97.20	5254.93	-66.39	525.56	-13.88	0.00	
5400.00	10.00	97.20	5353.41	-68.57	542.79	-14.34	0.00	
5500.00	10.00	97.20	5451.89	-70.75	560.02	-14.79	0.00	
5600.00	10.00	97.20	5550.37	-72.92	577.24	-15.25	0.00	
5630.09	10.00	97.20	5580.00	-73.58	582.43	-15.39	0.00	Cherry Canyon
5700.00	10.00	97.20	5648.85	-75.10	594.47	-15.70	0.00	
5800.00	10.00	97.20	5747.33	-77.27	611.70	-16.16	0.00	
5900.00	10.00	97.20	5845.81	-79.45	628.93	-16.61	0.00	
6000.00	10.00	97.20	5944.29	-81.63	646.16	-17.07	0.00	
6100.00	10.00	97.20	6042.77	-83.80	663.38	-17.52	0.00	
6200.00	10.00	97.20	6141.25	-85.98	680.61	-17.98	0.00	
6300.00	10.00	97.20	6239.73	-88.16	697.84	-18.43	0.00	
6400.00	10.00	97.20	6338.22	-90.33	715.07	-18.89	0.00	
6500.00	10.00	97.20	6436.70	-92.51	732.29	-19.34	0.00	

devon

Well: Van Doo Dah 33-28 Fed Com 839H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6600.00	10.00	97.20	6535.18	-94.69	749.52	-19.80	0.00	
6700.00	10.00	97.20	6633.66	-96.86	766.75	-20.25	0.00	
6800.00	10.00	97.20	6732.14	-99.04	783.98	-20.71	0.00	
6900.00	10.00	97.20	6830.62	-101.21	801.21	-21.16	0.00	
7000.00	10.00	97.20	6929.10	-103.39	818.43	-21.62	0.00	
7100.00	10.00	97.20	7027.58	-105.57	835.66	-22.07	0.00	
7200.00	10.00	97.20	7126.06	-107.74	852.89	-22.53	0.00	
7244.62	10.00	97.20	7170.00	-108.71	860.58	-22.73	0.00	Brushy Canyon
7300.00	10.00	97.20	7224.54	-109.92	870.12	-22.98	0.00	
7400.00	10.00	97.20	7323.02	-112.10	887.35	-23.44	0.00	
7500.00	10.00	97.20	7421.50	-114.27	904.57	-23.89	0.00	
7600.00	10.00	97.20	7519.99	-116.45	921.80	-24.35	0.00	
7700.00	10.00	97.20	7618.47	-118.63	939.03	-24.80	0.00	
7800.00	10.00	97.20	7716.95	-120.80	956.26	-25.26	0.00	
7900.00	10.00	97.20	7815.43	-122.98	973.48	-25.72	0.00	
8000.00	10.00	97.20	7913.91	-125.15	990.71	-26.17	0.00	
8100.00	10.00	97.20	8012.39	-127.33	1007.94	-26.63	0.00	
8200.00	10.00	97.20	8110.87	-129.51	1025.17	-27.08	0.00	
8300.00	10.00	97.20	8209.35	-131.68	1042.40	-27.54	0.00	
8366.10	10.00	97.20	8274.45	-133.12	1053.79	-27.83	0.00	Drop to Vertical
8400.00	9.32	97.20	8307.87	-133.84	1059.43	-27.99	2.00	
8500.00	7.32	97.20	8406.81	-135.65	1073.79	-28.37	2.00	
8600.00	5.32	97.20	8506.19	-137.03	1084.71	-28.65	2.00	
8700.00	3.32	97.20	8605.90	-137.98	1092.19	-28.85	2.00	
8774.17	1.84	97.20	8680.00	-138.39	1095.50	-28.94	2.00	1st Bone Spring Lime
8800.00	1.32	97.20	8705.82	-138.48	1096.21	-28.96	2.00	
8866.10	0.00	97.20	8771.92	-138.58	1096.96	-28.97	2.00	Hold Vertical
8900.00	0.00	359.65	8805.81	-138.58	1096.96	-28.98	0.00	
9000.00	0.00	359.65	8905.81	-138.58	1096.96	-28.98	0.00	
9100.00	0.00	359.65	9005.81	-138.58	1096.96	-28.98	0.00	
9200.00	0.00	359.65	9105.81	-138.58	1096.96	-28.98	0.00	
9300.00	0.00	359.65	9205.81	-138.58	1096.96	-28.98	0.00	
9400.00	0.00	359.65	9305.81	-138.58	1096.96	-28.98	0.00	
9500.00	0.00	359.65	9405.81	-138.58	1096.96	-28.98	0.00	
9600.00	0.00	359.65	9505.81	-138.58	1096.96	-28.98	0.00	
9700.00	0.00	359.65	9605.81	-138.58	1096.96	-28.98	0.00	
9759.19	0.00	359.65	9665.00	-138.58	1096.96	-28.98	0.00	Bone Spring 1st
9800.00	0.00	359.65	9705.81	-138.58	1096.96	-28.98	0.00	
9900.00	0.00	359.65	9805.81	-138.58	1096.96	-28.98	0.00	
10000.00	0.00	359.65	9905.81	-138.58	1096.96	-28.98	0.00	
10100.00	0.00	359.65	10005.81	-138.58	1096.96	-28.98	0.00	
10200.00	0.00	359.65	10105.81	-138.58	1096.96	-28.98	0.00	
10300.00	0.00	359.65	10205.81	-138.58	1096.96	-28.98	0.00	
10400.00	0.00	359.65	10305.81	-138.58	1096.96	-28.98	0.00	
10404.19	0.00	359.65	10310.00	-138.58	1096.96	-28.98	0.00	Bone Spring 2nd
10500.00	0.00	359.65	10405.81	-138.58	1096.96	-28.98	0.00	
10600.00	0.00	359.65	10505.81	-138.58	1096.96	-28.98	0.00	
10700.00	0.00	359.65	10605.81	-138.58	1096.96	-28.98	0.00	
10800.00	0.00	359.65	10705.81	-138.58	1096.96	-28.98	0.00	
10899.19	0.00	359.65	10805.00	-138.58	1096.96	-28.98	0.00	3rd Bone Spring Lime
10900.00	0.00	359.65	10805.81	-138.58	1096.96	-28.98	0.00	
11000.00	0.00	359.65	10905.81	-138.58	1096.96	-28.98	0.00	
11100.00	0.00	359.65	11005.81	-138.58	1096.96	-28.98	0.00	
11200.00	0.00	359.65	11105.81	-138.58	1096.96	-28.98	0.00	
11300.00	0.00	359.65	11205.81	-138.58	1096.96	-28.98	0.00	
11400.00	0.00	359.65	11305.81	-138.58	1096.96	-28.98	0.00	
11500.00	0.00	359.65	11405.81	-138.58	1096.96	-28.98	0.00	
11509.19	0.00	359.65	11415.00	-138.58	1096.96	-28.98	0.00	Bone Spring 3rd
11600.00	0.00	359.65	11505.81	-138.58	1096.96	-28.98	0.00	
11700.00	0.00	359.65	11605.81	-138.58	1096.96	-28.98	0.00	
11800.00	0.00	359.65	11705.81	-138.58	1096.96	-28.98	0.00	
11900.00	0.00	359.65	11805.81	-138.58	1096.96	-28.98	0.00	
12000.00	0.00	359.65	11905.81	-138.58	1096.96	-28.98	0.00	
12004.19	0.00	359.65	11910.00	-138.58	1096.96	-28.98	0.00	Wolfcamp / Point of Penetration
12100.00	0.00	359.65	12005.81	-138.58	1096.96	-28.98	0.00	
12200.00	0.00	359.65	12105.81	-138.58	1096.96	-28.98	0.00	
12300.00	0.00	359.65	12205.81	-138.58	1096.96	-28.98	0.00	
12339.24	0.00	359.65	12245.05	-138.58	1096.96	-28.97	0.00	KOP
12400.00	6.08	359.65	12305.70	-135.36	1096.95	-25.78	10.00	
12500.00	16.08	359.65	12403.71	-116.17	1096.83	-6.70	10.00	

devon

Well: Van Doo Dah 33-28 Fed Com 839H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12600.00	26.08	359.65	12496.90	-80.26	1096.61	29.02	10.00	
12700.00	36.08	359.65	12582.44	-28.71	1096.29	80.28	10.00	
12800.00	46.08	359.65	12657.73	36.91	1095.89	145.54	10.00	
12900.00	56.08	359.65	12720.48	114.61	1095.42	222.81	10.00	
13000.00	66.08	359.65	12768.78	202.02	1094.88	309.74	10.00	
13100.00	76.08	359.65	12801.17	296.50	1094.30	403.68	10.00	
13200.00	86.08	359.65	12816.67	395.16	1093.70	501.80	10.00	
13242.42	90.32	359.65	12818.00	437.55	1093.45	543.95	10.00	Landing Point
13300.00	90.32	359.65	12817.68	495.13	1093.09	601.21	0.00	
13400.00	90.32	359.65	12817.13	595.12	1092.48	700.65	0.00	
13500.00	90.32	359.65	12816.57	695.12	1091.87	800.10	0.00	
13600.00	90.32	359.65	12816.02	795.12	1091.26	899.54	0.00	
13700.00	90.32	359.65	12815.46	895.11	1090.65	998.98	0.00	
13800.00	90.32	359.65	12814.91	995.11	1090.04	1098.42	0.00	
13900.00	90.32	359.65	12814.35	1095.11	1089.42	1197.86	0.00	
14000.00	90.32	359.65	12813.80	1195.10	1088.81	1297.30	0.00	
14100.00	90.32	359.65	12813.24	1295.10	1088.20	1396.75	0.00	
14200.00	90.32	359.65	12812.69	1395.10	1087.59	1496.19	0.00	
14300.00	90.32	359.65	12812.13	1495.09	1086.98	1595.63	0.00	
14400.00	90.32	359.65	12811.58	1595.09	1086.37	1695.07	0.00	
14500.00	90.32	359.65	12811.03	1695.09	1085.76	1794.51	0.00	
14600.00	90.32	359.65	12810.47	1795.08	1085.15	1893.96	0.00	
14700.00	90.32	359.65	12809.92	1895.08	1084.53	1993.40	0.00	
14800.00	90.32	359.65	12809.36	1995.08	1083.92	2092.84	0.00	
14900.00	90.32	359.65	12808.81	2095.07	1083.31	2192.28	0.00	
15000.00	90.32	359.65	12808.25	2195.07	1082.70	2291.72	0.00	
15100.00	90.32	359.65	12807.70	2295.07	1082.09	2391.16	0.00	
15200.00	90.32	359.65	12807.14	2395.06	1081.48	2490.61	0.00	
15300.00	90.32	359.65	12806.59	2495.06	1080.87	2590.05	0.00	
15400.00	90.32	359.65	12806.03	2595.06	1080.25	2689.49	0.00	
15500.00	90.32	359.65	12805.48	2695.05	1079.64	2788.93	0.00	
15600.00	90.32	359.65	12804.92	2795.05	1079.03	2888.37	0.00	
15700.00	90.32	359.65	12804.37	2895.05	1078.42	2987.81	0.00	
15800.00	90.32	359.65	12803.82	2995.04	1077.81	3087.26	0.00	
15900.00	90.32	359.65	12803.26	3095.04	1077.20	3186.70	0.00	
16000.00	90.32	359.65	12802.71	3195.04	1076.59	3286.14	0.00	
16100.00	90.32	359.65	12802.15	3295.03	1075.97	3385.58	0.00	
16200.00	90.32	359.65	12801.60	3395.03	1075.36	3485.02	0.00	
16300.00	90.32	359.65	12801.04	3495.03	1074.75	3584.47	0.00	
16400.00	90.32	359.65	12800.49	3595.02	1074.14	3683.91	0.00	
16500.00	90.32	359.65	12799.93	3695.02	1073.53	3783.35	0.00	
16600.00	90.32	359.65	12799.38	3795.01	1072.92	3882.79	0.00	
16700.00	90.32	359.65	12798.82	3895.01	1072.31	3982.23	0.00	
16800.00	90.32	359.65	12798.27	3995.01	1071.69	4081.67	0.00	
16900.00	90.32	359.65	12797.71	4095.00	1071.08	4181.12	0.00	
17000.00	90.32	359.65	12797.16	4195.00	1070.47	4280.56	0.00	
17100.00	90.32	359.65	12796.61	4295.00	1069.86	4380.00	0.00	
17200.00	90.32	359.65	12796.05	4394.99	1069.25	4479.44	0.00	
17300.00	90.32	359.65	12795.50	4494.99	1068.64	4578.88	0.00	
17400.00	90.32	359.65	12794.94	4594.99	1068.03	4678.33	0.00	
17500.00	90.32	359.65	12794.39	4694.98	1067.42	4777.77	0.00	
17600.00	90.32	359.65	12793.83	4794.98	1066.80	4877.21	0.00	
17700.00	90.32	359.65	12793.28	4894.98	1066.19	4976.65	0.00	
17800.00	90.32	359.65	12792.72	4994.97	1065.58	5076.09	0.00	
17900.00	90.32	359.65	12792.17	5094.97	1064.97	5175.53	0.00	
18000.00	90.32	359.65	12791.61	5194.97	1064.36	5274.98	0.00	
18100.00	90.32	359.65	12791.06	5294.96	1063.75	5374.42	0.00	
18200.00	90.32	359.65	12790.50	5394.96	1063.14	5473.86	0.00	
18300.00	90.32	359.65	12789.95	5494.96	1062.52	5573.30	0.00	
18400.00	90.32	359.65	12789.39	5594.95	1061.91	5672.74	0.00	
18500.00	90.32	359.65	12788.84	5694.95	1061.30	5772.18	0.00	
18600.00	90.32	359.65	12788.29	5794.95	1060.69	5871.63	0.00	
18700.00	90.32	359.65	12787.73	5894.94	1060.08	5971.07	0.00	
18800.00	90.32	359.65	12787.18	5994.94	1059.47	6070.51	0.00	
18900.00	90.32	359.65	12786.62	6094.94	1058.86	6169.95	0.00	
19000.00	90.32	359.65	12786.07	6194.93	1058.24	6269.39	0.00	
19100.00	90.32	359.65	12785.51	6294.93	1057.63	6368.84	0.00	
19200.00	90.32	359.65	12784.96	6394.93	1057.02	6468.28	0.00	
19300.00	90.32	359.65	12784.40	6494.92	1056.41	6567.72	0.00	
19400.00	90.32	359.65	12783.85	6594.92	1055.80	6667.16	0.00	

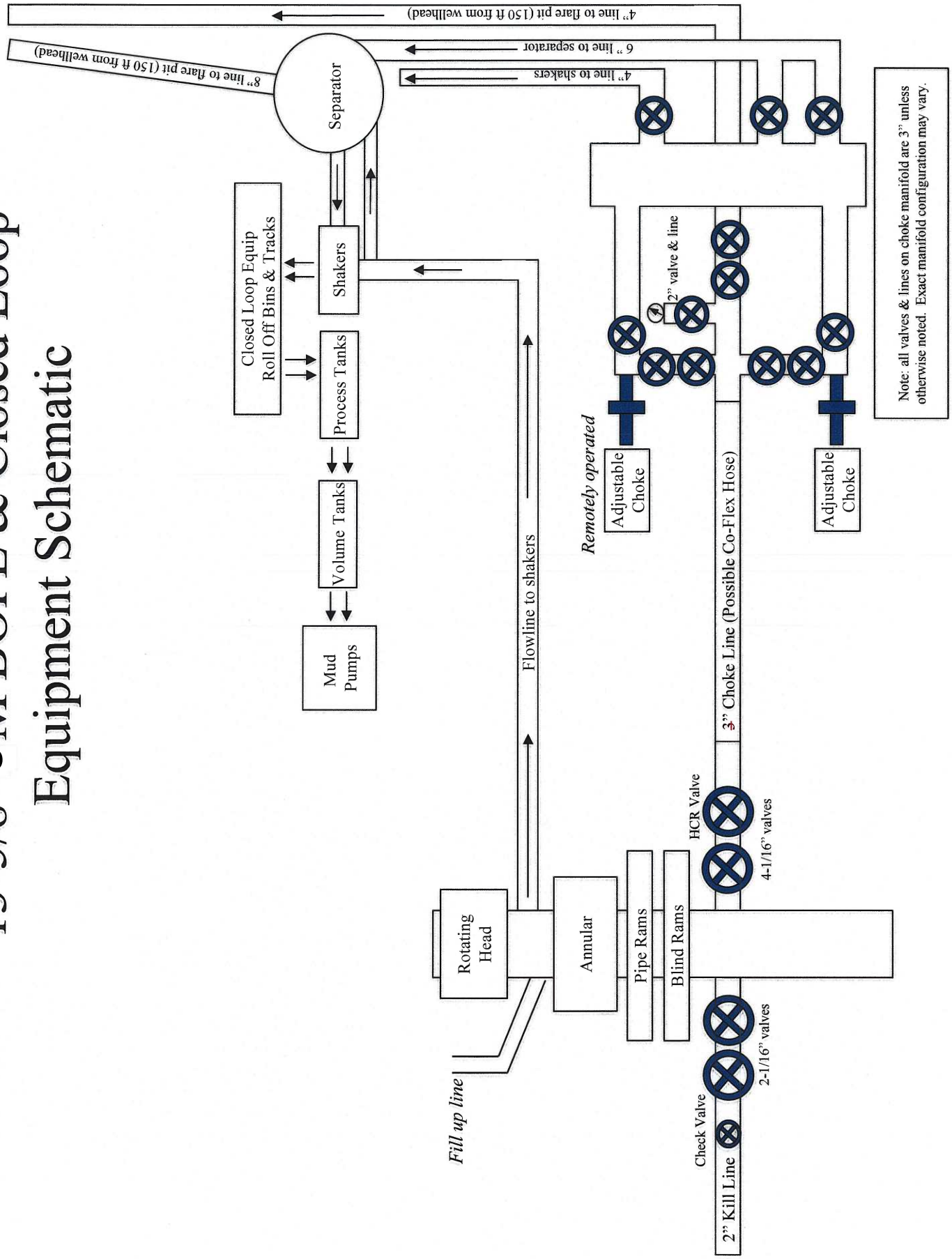
devon

Well: Van Doo Dah 33-28 Fed Com 839H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19500.00	90.32	359.65	12783.29	6694.92	1055.19	6766.60	0.00	
19600.00	90.32	359.65	12782.74	6794.91	1054.58	6866.04	0.00	
19700.00	90.32	359.65	12782.18	6894.91	1053.96	6965.49	0.00	
19800.00	90.32	359.65	12781.63	6994.91	1053.35	7064.93	0.00	
19900.00	90.32	359.65	12781.08	7094.90	1052.74	7164.37	0.00	
20000.00	90.32	359.65	12780.52	7194.90	1052.13	7263.81	0.00	
20100.00	90.32	359.65	12779.97	7294.90	1051.52	7363.25	0.00	
20200.00	90.32	359.65	12779.41	7394.89	1050.91	7462.69	0.00	
20300.00	90.32	359.65	12778.86	7494.89	1050.30	7562.14	0.00	
20400.00	90.32	359.65	12778.30	7594.89	1049.69	7661.58	0.00	
20500.00	90.32	359.65	12777.75	7694.88	1049.07	7761.02	0.00	
20600.00	90.32	359.65	12777.19	7794.88	1048.46	7860.46	0.00	
20700.00	90.32	359.65	12776.64	7894.88	1047.85	7959.90	0.00	
20800.00	90.32	359.65	12776.08	7994.87	1047.24	8059.35	0.00	
20900.00	90.32	359.65	12775.53	8094.87	1046.63	8158.79	0.00	
21000.00	90.32	359.65	12774.97	8194.86	1046.02	8258.23	0.00	
21100.00	90.32	359.65	12774.42	8294.86	1045.41	8357.67	0.00	
21200.00	90.32	359.65	12773.87	8394.86	1044.79	8457.11	0.00	
21300.00	90.32	359.65	12773.31	8494.85	1044.18	8556.55	0.00	
21400.00	90.32	359.65	12772.76	8594.85	1043.57	8656.00	0.00	
21500.00	90.32	359.65	12772.20	8694.85	1042.96	8755.44	0.00	
21600.00	90.32	359.65	12771.65	8794.84	1042.35	8854.88	0.00	
21700.00	90.32	359.65	12771.09	8894.84	1041.74	8954.32	0.00	
21800.00	90.32	359.65	12770.54	8994.84	1041.13	9053.76	0.00	
21900.00	90.32	359.65	12769.98	9094.83	1040.51	9153.20	0.00	
22000.00	90.32	359.65	12769.43	9194.83	1039.90	9252.65	0.00	
22100.00	90.32	359.65	12768.87	9294.83	1039.29	9352.09	0.00	
22200.00	90.32	359.65	12768.32	9394.82	1038.68	9451.53	0.00	
22300.00	90.32	359.65	12767.76	9494.82	1038.07	9550.97	0.00	
22400.00	90.32	359.65	12767.21	9594.82	1037.46	9650.41	0.00	
22500.00	90.32	359.65	12766.66	9694.81	1036.85	9749.86	0.00	
22600.00	90.32	359.65	12766.10	9794.81	1036.23	9849.30	0.00	
22700.00	90.32	359.65	12765.55	9894.81	1035.62	9948.74	0.00	
22800.00	90.32	359.65	12764.99	9994.80	1035.01	10048.18	0.00	
22900.00	90.32	359.65	12764.44	10094.80	1034.40	10147.62	0.00	
23000.00	90.32	359.65	12763.88	10194.80	1033.79	10247.06	0.00	
23076.80	90.32	359.65	12763.46	10271.59	1033.32	10323.44	0.00	exit
23100.00	90.32	359.65	12763.33	10294.79	1033.18	10346.51	0.00	
23156.80	90.32	359.65	12763.00	10351.59	1032.88	10402.99	0.00	BHL

13-5/8" 5M BOPE & Closed Loop Equipment Schematic



A multibowl wellhead may be used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per 43 CFR 3172.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per 43 CFR 3172. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per 43 CFR 3172.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	X
Blind Rams		X		X
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		X	X	X
Inside Choke Valve		X	X	X
HCR		X	X	X
Kill Line	X			X
Annular		X		X
Choke Manifold Valves and Hose	X			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	X			X
Standpipe Valve	X			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular
- Remaining well control equipment components will either be tested offline or online, per BLM approval
- Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing
- Notify the BLM if the online BOPE testing exceeds 72-hours
- All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

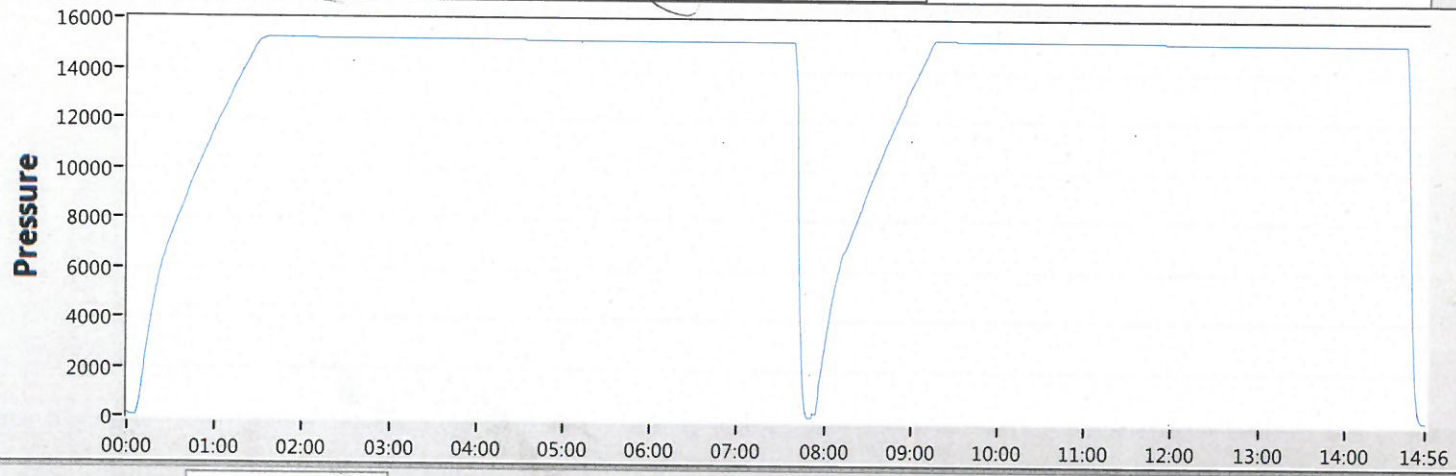
Devon requests Break testing as stated above for 5K tests, not including production hole
- Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test
- Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test
- Full Tests required when entering production hole

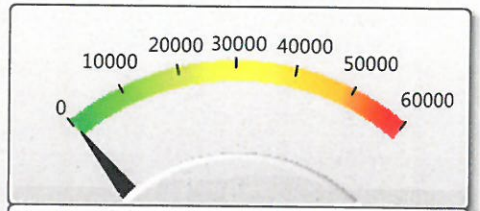
Cactus Wellhead

2-9-17 EBell

80.7 °F

15:49





50

Date 02-09-17

Tested By E.BELL

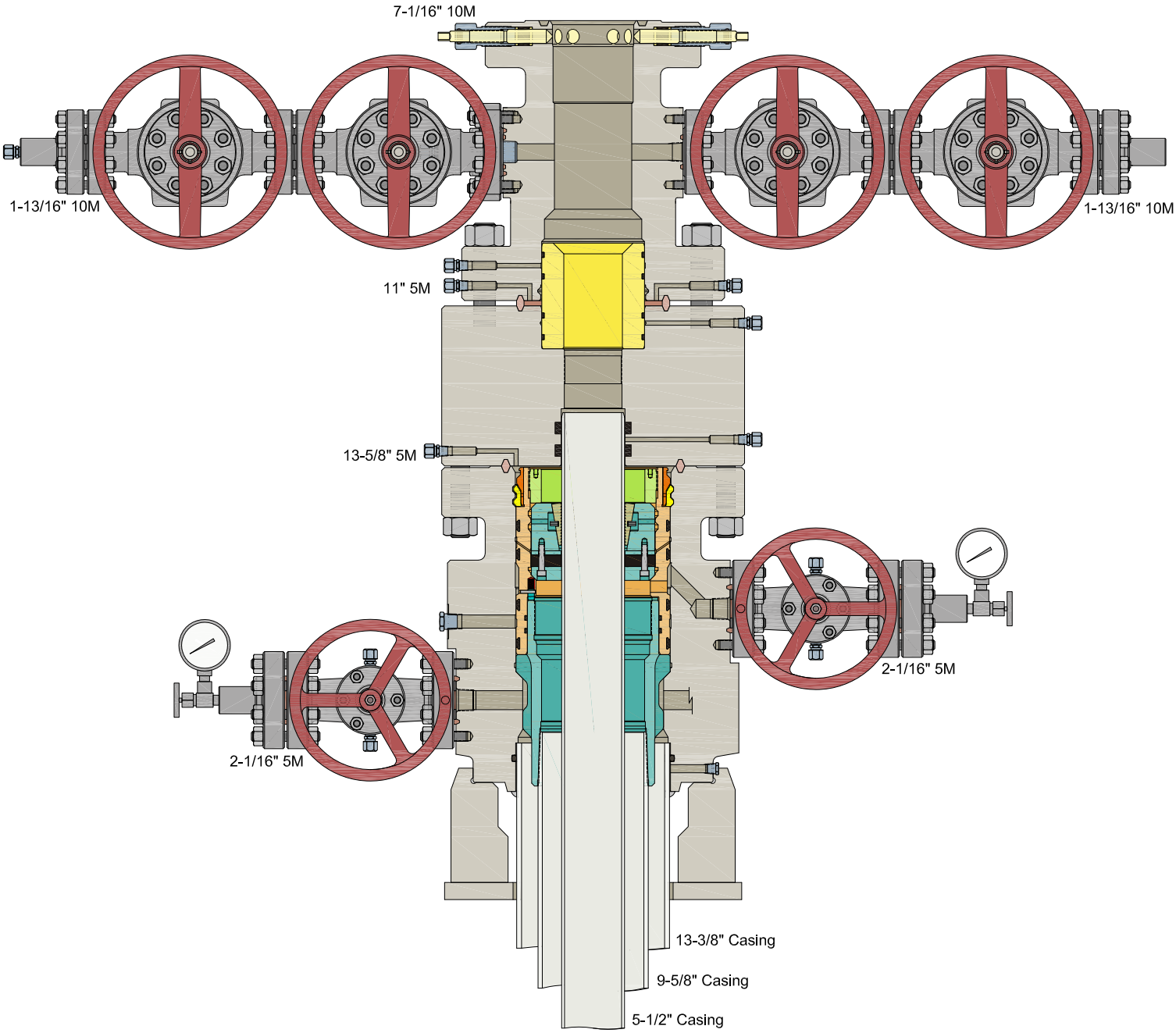
Transducer bay2

Transducer Serial 181504

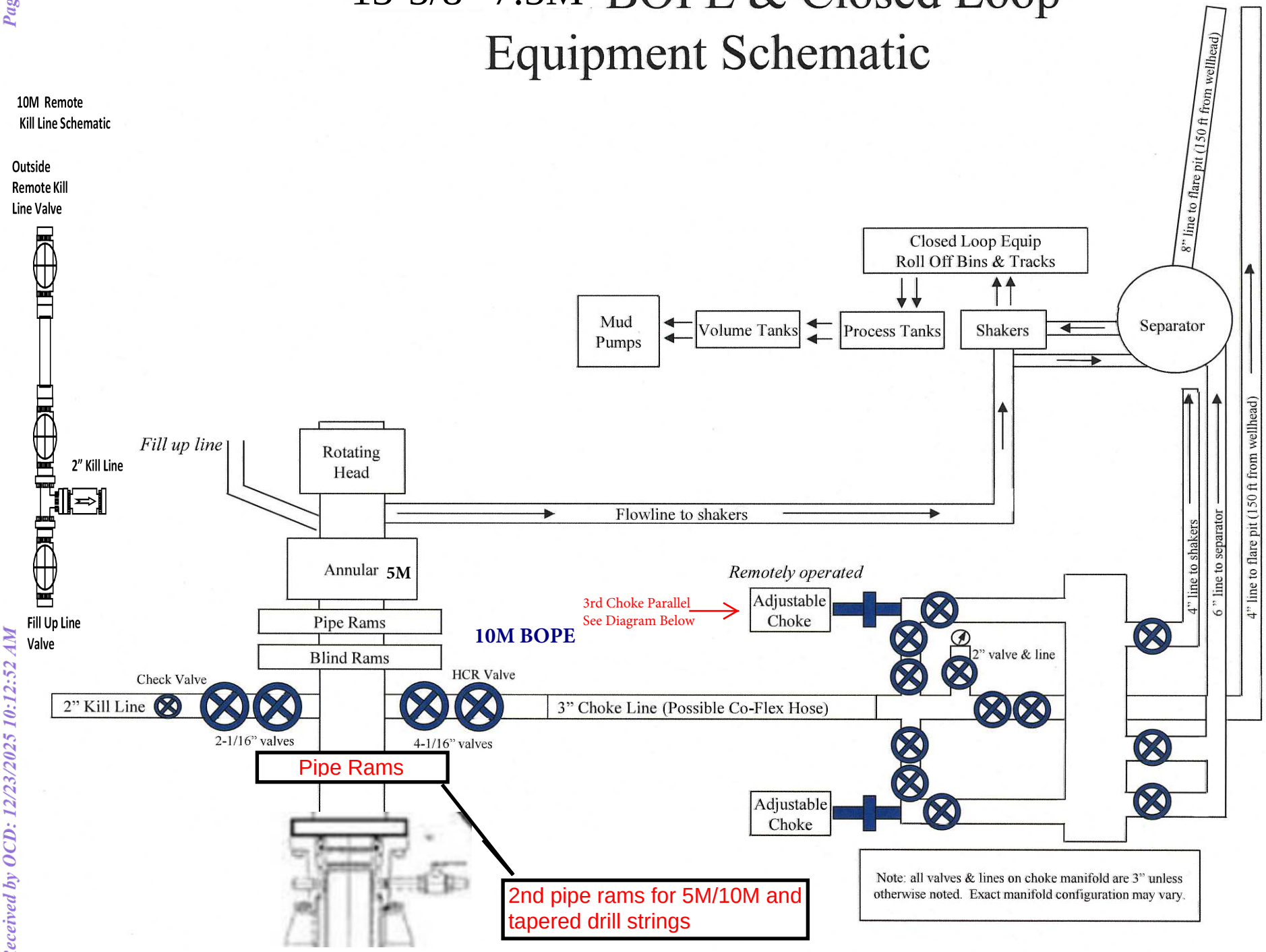
Calibration Date 9/6/15

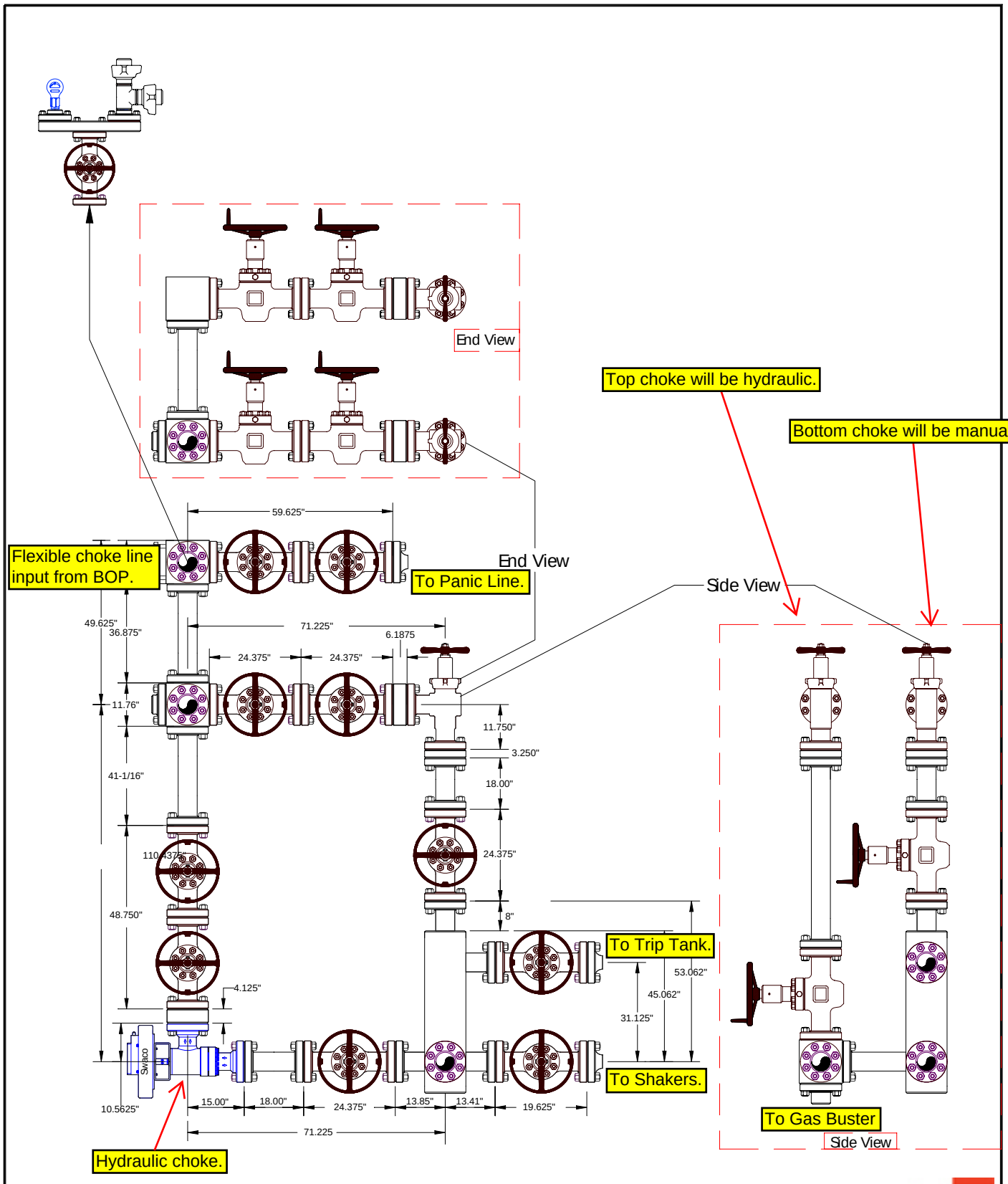
	Job#	Part#	Serial#	Description	Test Pressure
1	TRJ0006341-0007	116966	TRJ6341-7-1	ADPT,DRLG,CW,MBU-3T,13-5/8 10M	15000
2					
3					
4					
5				TRANSDUCER CALIBRATION DUE 03/13/2017	
6					
7					
8					

Start | Stop | Zero | Config | Save | Print | EXIT


7-1/16" 10M
1-13/16" 10M
1-13/16" 10M
11" 5M
13-5/8" 5M
2-1/16" 5M
2-1/16" 5M
13-3/8" Casing
9-5/8" Casing
5-1/2" Casing

13-5/8" 7.5M BOPE & Closed Loop Equipment Schematic




End View
Top choke will be hydraulic.
Bottom choke will be manual.
59.625"
Flexible choke line input from BOP.
End View
To Panic Line.
Side View
49.625"
36.875"
71.225"
6.1875
24.375"
24.375"
11.76"
11.750"
3.250"
18.00"
41-1/16"
24.375"
48.750"
8"
To Trip Tank.
53.062"
45.062"
31.125"
4.125"
To Shakers.
10.5625"
15.00"
18.00"
24.375"
13.85"
13.41"
19.625"
71.225
To Gas Buster
Side View
Hydraulic choke.
Helmerich & Payne
Flex 3 Rig w/ 3 Chokes
devon
Name: Mike Potts
Date: 6-23-2010
Working Pressure: 10M
J-5132-E

Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
HWDP	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper pipe ram.
    e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the compatible pipe ram.
    d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper pipe ram.
    f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LOCATION:	Section 33, T.25 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Van Doo Dah 33-28 Fed Com 839H**
ATS/API ID:	**ATS-25-2526**
APD ID:	**10400107330**
Sundry ID:	**N/a**

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☑ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: Int 1	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☑ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention: None	
Special Requirements Variance	☑ BOPE Break Testing ☑ Offline BOPE Testing	☑ Offline Cementing	☐ Casing Clearance

Approval Date: 12/11/2025

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1065 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

    Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed to pump down **13-3/8"** X **9-5/8"** annulus after primary cementing stage. Operator must run a CBL from TD of the **9-5/8"** casing to surface. Submit results to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

   - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
     Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi. **Annular which shall be tested to 2100 (70% Working Pressure) psi.**

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Commercial Well Determination

- A commercial well determination shall be submitted after production has been established for at least six months if the well penetrate a federal exploratory unit acreage, in addition the unit number and participating area number shall be on the well sign when the well is determined to be a Unit well.
- If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at **Lea County: 575-689-5981**.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Lea County: 575-689-5981**.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☑ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Acceptable Method of Cement Verifications:

    a. Observing cement circulated to surface.
    b. Cement bond log (CBL).
    c. Temperature log within 8-10 hours after completing the cement job.
    d. Echometer (if a second-stage bradenhead squeeze is being used).

5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

8. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

9. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

 Approval Date: 12/11/2025

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 12/9/2025

Approval Date: 12/11/2025

Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015

Hydrogen Sulfide (H_2S) Contingency Plan

For

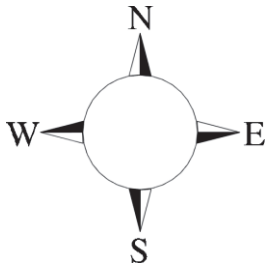
Van Doo Dah 33-28 Fed Com 839H

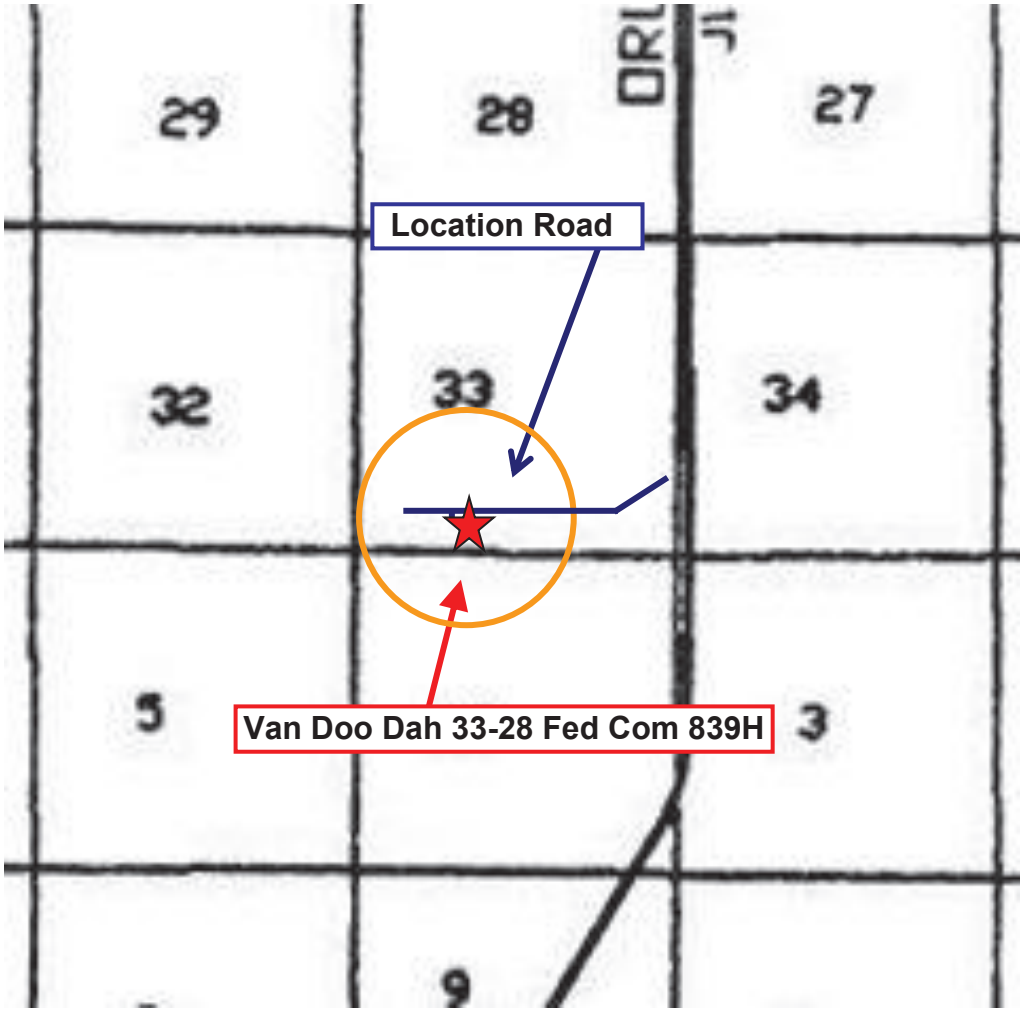
Sec-33 T-25S R-32E
200’ FSL & 1915’ FWL
LAT. = 32.0801874 N (NAD83)
LONG = 103.6824935 W

Lea County NM

Van Doo Dah 33-28 Fed Com 839H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S, including warning signs, wind indicators and H_2S monitor.





Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H_2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, the first responder(s) must

- **Isolate the area and prevent entry by other persons into the 100 ppm ROE.**
- **Evacuate any public places encompassed by the 100 ppm ROE.**
- **Be equipped with H_2S monitors and air packs in order to control the release.**
- **Use the "buddy system" to ensure no injuries occur during the response**
- **Take precautions to avoid personal injury during this operation.**
- **Contact operator and/or local officials to aid in operation. See list of phone numbers attached.**
- **Have received training in the**
  - **Detection of H_2S, and**
  - **Measures for protection against the gas,**
  - **Equipment used for protection and emergency response.**

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H_2S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H_2S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H_2S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H_2S Drilling Operations Plan.

There will be weekly H_2S and well control drills for all personnel in each crew.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S.

1. **Well Control Equipment**

   A. Flare line

   B. Choke manifold – Remotely Operated

   C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit

   D. Auxiliary equipment may include if applicable: annular preventer and rotating head.

   E. Mud/Gas Separator

2. **Protective equipment for essential personnel:**

   30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

   Fire extinguishers are located at various locations around the rig. First Aid supplies are located in the top doghouse and the rig manger's office.

3. **H_2S detection and monitoring equipment:**

   Portable H_2S monitors positioned on location for best coverage and response. These units have warning lights which activate when H_2S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

   - **Bell nipple**
   - **Rig floor**
   - **Cellar**
   - **Possum Belly/Shale shaker**
   - **Choke manifold**

4. **Visual warning systems:**

   A. Wind direction indicators as shown on well site diagram

   B. Caution/Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

5. **Mud program:**

   The mud program has been designed to minimize the volume of H_2S circulated to surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

6. **Metallurgy:**

   All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H_2S trim.

   All elastomers used for packing and seals shall be H_2S trim.

7. **Communication:**

   a. Company personnel have/use cellular telephones in the field.

   b. Land line (telephone) communications at Office

8. **Well testing:**

   a. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H_2S environment will use the closed chamber method of testing.

   b. There will be no drill stem testing.

Devon Energy Corp. Company Call List

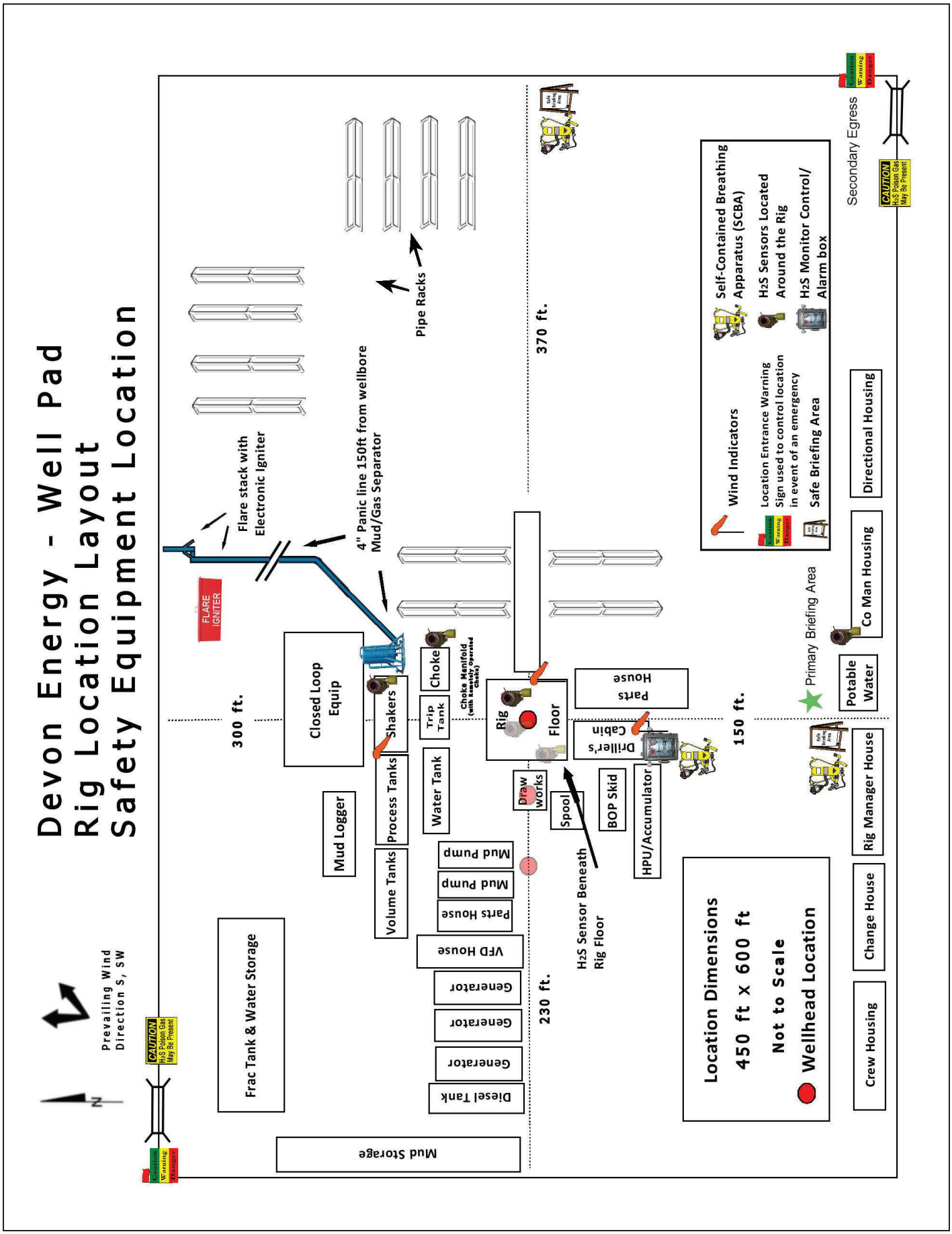
Employee/Company Contact Representative	Position	Phone Number	After Hours Number
Jonathan Fisher (North)	Drilling Manager	832-967-7912	
Jason Hildebrand (South)	Drilling Manager	405-552-6514	
Rich Downey	Drilling VP	405-228-2415	
Josh Harvey	EHS Manger	405-228-2440	918-500-5536
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145
Robert Glover	EHS Professional	575-703-5712	575-703-5712
Lane Frank	Lead EHS	580-579-7052	580-579-7052
Rickey Porter	Lead EHS	903-720-8315	903-720-8315
Brock Vise	Lead EHS	918-413-3291	918-413-3291

Agency Call List

Lea County (575)	**Hobbs**	
	Lea County Communication Authority	397-9265
	State Police	885-3138
	City Police	397-9265
	Sheriff's Office	396-3611
	Ambulance	**911**
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Hobbs Office Closed)	393-0002
Eddy County (575)	**Carlsbad**	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	**911**
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management (Carlsbad)	(575)-706-1920
		(575)-234-5909
	BLM – CFO	(575) 234-5972
	BLM – PET Petroleum Engineering Tech. ON CALL – Cement Notifications or Emergency issues.	**(575) 689-5981**
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699-0139	(915) 563-3356
	Halliburton	(575) 746-2757

	B. J. Services	(575) 746-3569
Give GPS position:	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
	For Air Ambulance - **Eddy County** Dispatch	(575)-616-7155
	For Air Ambulance - **Lea County** (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118
	BNSF Railroad Resource Operations	800-832-5452
	NM OSHA – Santa Fe	505-222-9595
	NM OSHA (Reporting)	877-610-6742 505-476-8700

Prepared in conjunction with
Dave Small SHARP communications and consulting


Devon Energy - Well Pad
Rig Location Layout
Safety Equipment Location
Prevailing Wind Direction S, SW
N
CAUTION H2S Poison Gas May Be Present
Frac Tank & Water Storage
Mud Storage
Diesel Tank
Generator
Generator
Generator
VFD House
Parts House
Mud Pump
Mud Pump
Volume Tanks
Process Tanks
Shakers
Mud Logger
Closed Loop Equip
300 ft.
FLARE IGNITER
Flare stack with Electronic Igniter
4" Panic line 150ft from wellbore Mud/Gas Separator
Choke
Choke Manifold (with assembly Operated choke)
Trip Tank
Water Tank
Rig Floor
Draw works
Spool
BOP Skid
HPU/Accumulator
H2S Sensor Beneath Rig Floor
230 ft.
Pipe Racks
370 ft.
Parts House
Driller's Cabin
150 ft.
Primary Briefing Area
Potable Water
Co Man Housing
Directional Housing
Rig Manager House
Change House
Crew Housing
Secondary Egress
Self-Contained Breathing Apparatus (SCBA)
H2S Sensors Located Around the Rig
H2S Monitor Control/ Alarm box
Wind Indicators
Location Entrance Warning Sign used to control location in event of an emergency
Safe Briefing Area
Location Dimensions
450 ft x 600 ft
Not to Scale
Wellhead Location

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

Sundry Print Report

12/22/2025

Well Name: VAN DOO DAH 33-28 FED COM

Well Location: T25S / R32E / SEC 33 / SESW / 32.0801874 / -103.6824935

County or Parish/State: LEA / NM

Well Number: 839H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0359295A

Unit or CA Name:

Unit or CA Number: NMNM106740953

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2886926

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/15/2025

Time Sundry Submitted: 10:21

Date proposed operation will begin: 12/19/2025

Procedure Description: Devon Energy Production Co., LP respectfully requests a name, BHL, formation, and casing plan change for the subject well. Devon also requests break test and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted Well Name: VAN DOO DAH 33-28 FED COM 839H Proposed Well Name: VAN DOO DAH 33-28 FED COM 222H Permitted BHL: 20 FNL, 2310 FEL, Section 28, Township 25-S, Range 32-E, UL-B Proposed BHL: 20 FNL, 2450 FWL, Section 28, Township 25-S, Range 32-E, UL-C Permitted Formation: LWR WOLFCAMP (POOL CODE: 98203, POOL NAME: WC-025 S253227A; LWR WOLFCAMP (GAS)) Proposed Formation: LOWER BONE SPRING (POOL CODE: 97903, POOL NAME: WC-025 G-08 S253235G; LWR BONE SPRING) Permitted TVD/MD: 12763 / 23157 Proposed TVD/MD: 10200 /20486

NOI Attachments

Procedure Description

Offline_Production_Cement___WFMP___Shallower___BLM_v5_20251215101814.pdf

Production_Break_Testing_Variance___WFMP___Shallower___BLM_v4_20251215101814.pdf

Annular_Variance___Preventer_Summary_20251215101813.pdf

8.625_32lb_J55_GEOCONN_20251215101806.pdf

13.375_54.5lb_J55_20251215101806.pdf

5.5_20lb_P110EC_DWC_C_IS_PLUS_20251215101806.pdf

WA018445299_VAN_DOO_DAH_33_28_FED_COM_222H_WL_R1_SIGNED_20251215101754.pdf

Well Name: VAN DOO DAH 33-28 FED COM

Well Location: T25S / R32E / SEC 33 / SESW / 32.0801874 / -103.6824935

County or Parish/State: LEA / NM

Well Number: 839H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0359295A

Unit or CA Name:

Unit or CA Number: NMNM106740953

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

VAN_DOO_DAH_33_28_FED_COM_222H_Directional_Plan_11_17_25_20251215101753.pdf

VAN_DOO_DAH_33_28_FED_COM_222H_11_17_2025_20251215101753.pdf

Conditions of Approval

Specialist Review

Sundry_ID_2886926_Signed_20251221072035.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: AMY BROWN

Signed on: DEC 15, 2025 10:18 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 12/21/2025

Signature: Long Vo

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

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

2. Name of Operator

3a. Address

3b. Phone No. *(include area code)*

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.
30-025-55833

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 200 FSL / 1915 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801874 / LONG: -103.6824935 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799205 / LONG: -103.3678945 (TVD: 11910 feet, MD: 12004 feet)

PPP: SWSE / 110 FSL / 2316 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.0944277 / LONG: -103.6789468 (TVD: 12791 feet, MD: 18000 feet)

BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1086183 / LONG: -103.6789567 (TVD: 12763 feet, MD: 23153 feet)

Devon Energy
Offline Prodction Cementing

10/2025
REV5

NYSE: DVN
devonenergy.com

devon

Offline Production Cementing Variance

Devon is respectfully pursuing a variance to the minimum standards to allow for the cementing of the Production Casing offline in the Wolfcamp and shallower producing horizons.

To ensure personnel safety and well integrity, strict eligibility requirements will be enforced, and a detailed procedure will be followed.

The following slides outline the eligibility requirements, offline procedure, schematics and pressure ratings.

Offline Production Eligibility

Offline Punch List:

The well must meet all criteria to qualify for offline cementing.

A) Well is in the Wolfcamp or shallower bench.
B) No unusual events were observed during drilling, tripping or casing operations.
C) Casing successfully landed out on casing hanger (fluted or solid).
D) Devon Company Men with Well Control certifications will monitor returns (bbl in / bbl out) to ensure well control is maintained.
E) Rig Manager will oversee the walking of the rig to the next well.
F) All barriers MUST test and at no point will there be less than 2 barriers in place.
G) No offset frac operations occurring within 1.0 mile in the same bench.
H) Once all criteria are met and BLM is notified, Devon may proceed with ND BOP and continue offline operations.

Note: Devon will *NOT* drill out the next deep intermediate until cementing on the offline well is complete.

Offline Procedure

- **Devon's Proposed Production Offline Procedure:**

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10M backpressure valves.
- Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
  - If well is not static, build pressure or acting abnormal in any way - abort offline operations.
- Install 10M packoff and test same. After successful test, engage locking ring and L/D running tool.
- Install 10M backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon Company Man and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.
- Install 10M Gate Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.

Offline Procedure

- **Devon's Proposed Production Offline Procedure (continued):**

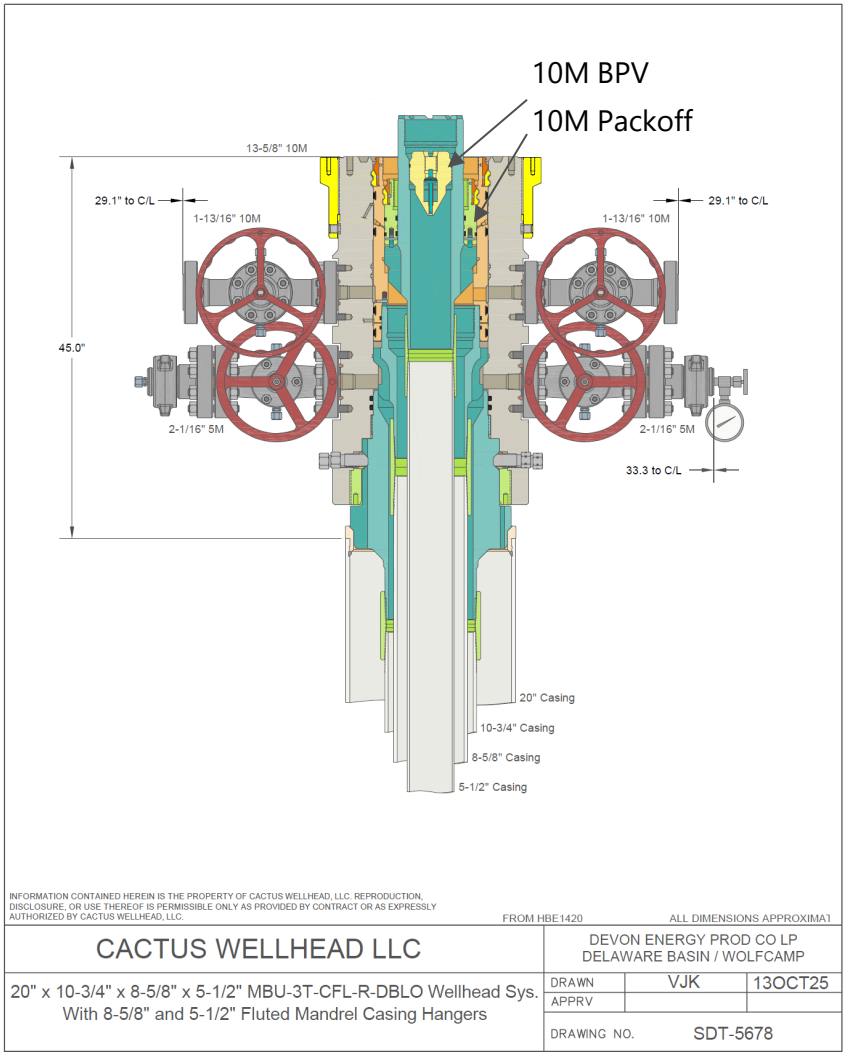
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.*
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.
- ***Note*** - If the well is within the KPLA, and an uncemented annulus between the Production and Intermediate casing has been utilized; then cement shall be squeezed down both casing valves within 180 days of the well's completion and displaced with a treated fresh water to a TOC below the potash interval and marker bed number 126, with a minimum of 500' tie-back inside the Intermediate Casing as per R111Q.

*Note – This hasn't been observed

Offline Procedure – Detailed

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10,000psi backpressure valves.
  - Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
- Install packoff rated to 10,000psi and test same. After successful test, engage locking ring and L/D running tool.
- Install backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon PIC and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.

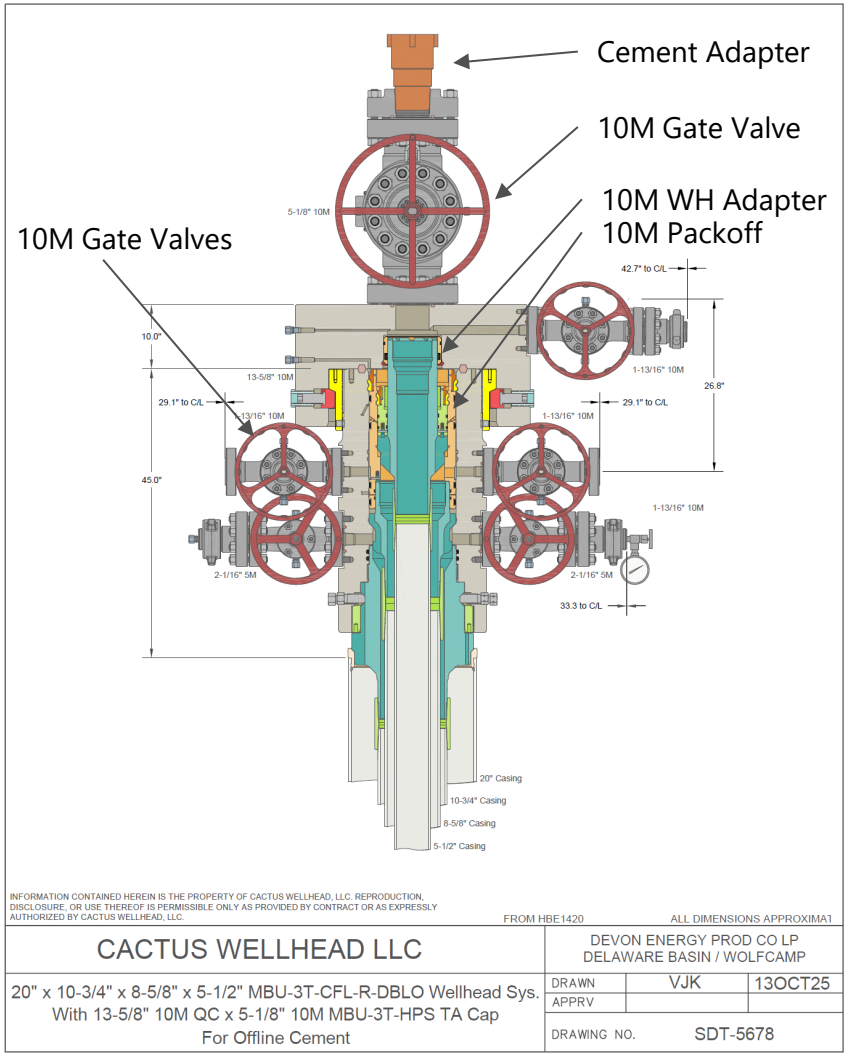
Casing Barrier	Rating	Backside Barrier	Rating
BPV	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi		



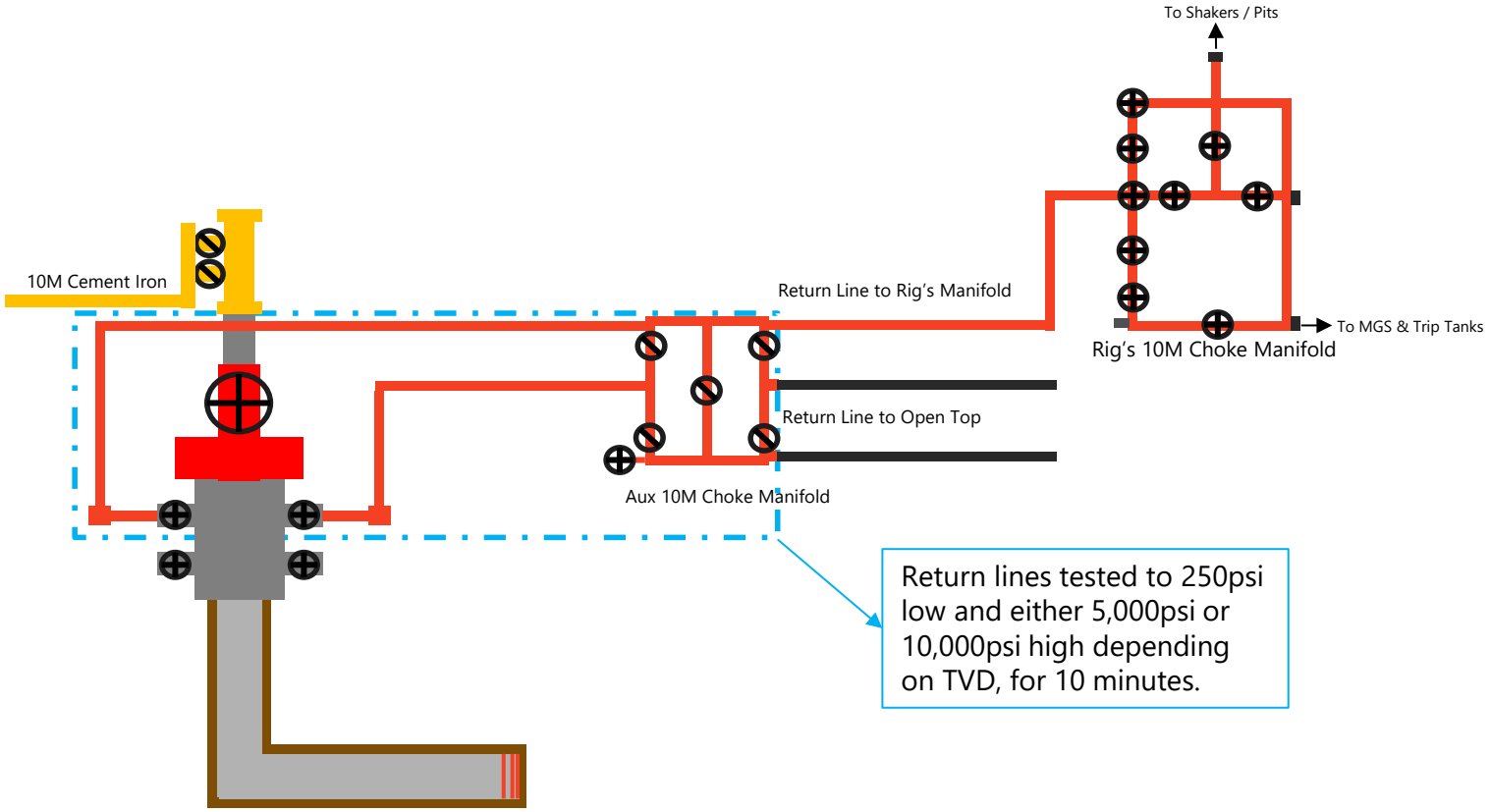
Offline Procedure – Detailed

- Install 10M Frac Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.

Casing Barrier	Rating	Backside Barrier	Rating
Frac Valve	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi	WH Adapter	10,000psi
Cement Head	10,000psi		



Offline Flow Path



10M Valve / Choke

10M Low Torq

Note:
- All lines are 10M rated and tested to **5,000psi for wells less than 12,000' TVD**
- All lines are 10M rated and tested to **10,000psi for wells greater than 12,000' TVD**
- Minimum of 2 barriers in place at ALL times
- Never had to circulate out an influx during an Offline job

Thank you.

BOPE Break Test Variance

10/2025
REV4

NYSE: DVN
devonenergy.com

devon

BOPE Break Test Variance (Less than 12,000' TVD)

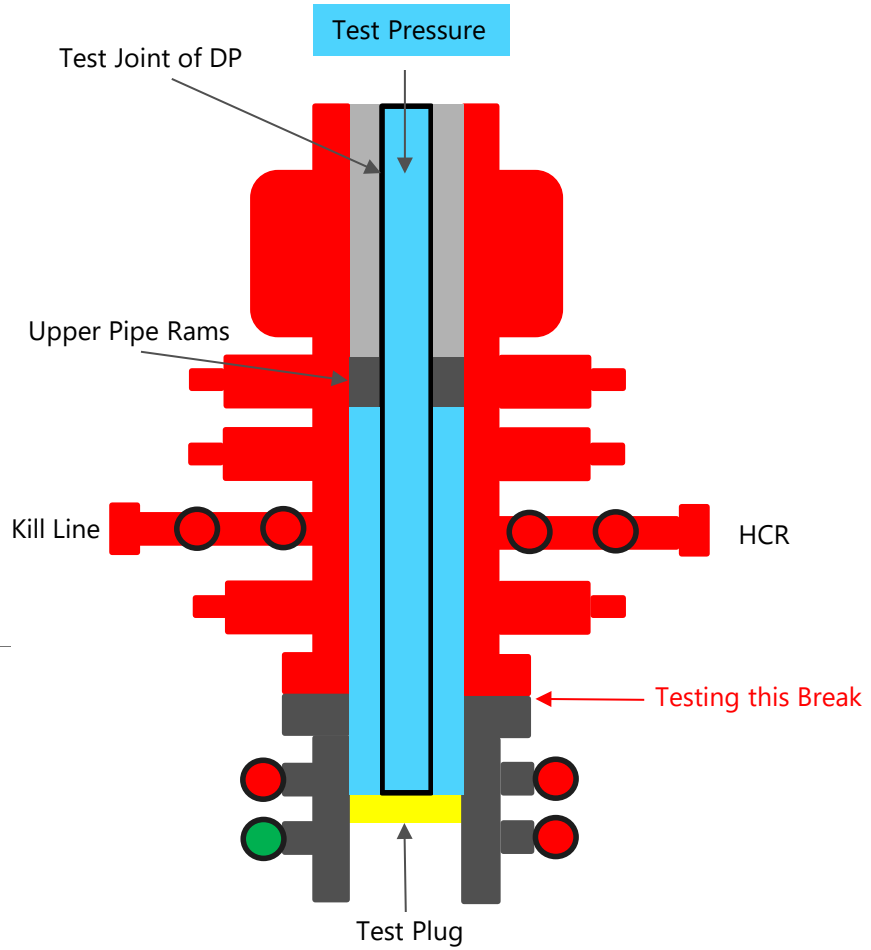
Devon is respectfully pursuing a variance to the minimum standards to allow a testing schedule of the blow out prevention equipment (BOPE) along with Stump Testing, Batch Drilling & Offline Cementing operations to include the following:

- Conduct a full 10k BOPE and 5k Annular test upon initial installation on the pad.
- If the rig has the ability to do a Stump Test, this is permitted for initial installation.
- Perform full BOPE tests every 21 days thereafter.
- Intermediate & Production Break-testing is permitted to the base of the Wolfcamp or shallower (limited to **12,000' TVD)**.
- Once the well is secured and BLM has been notified, disconnect the BOP and walk the rig to the next well on the pad.
    - If any unusual events occur during drilling, tripping, or casing operations, break-testing will not be performed
    - If offset fracturing is observed within 1.0 mile in the same producing horizon, break-testing in the production section will not be performed.
- Each rig requesting a break-test variance must be capable of picking up the BOP without damaging components, using winches and following API Standard 53 (Fifth Edition, December 2018, Annex C, Table C.4), which recognizes break-testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
    - Annular: During each full BOPE test and at least weekly.
    - Pipe Rams: On every trip and on trip-ins where a FIT is required.
    - Blind Rams: On every trip.
- Break-testing the BOP allows for offline cementing and/or remediation (if needed) of any surface, intermediate, or production sections, in accordance with the attached offline cementing support documentation.
- After securing the well section, disconnect the BOP from the wellhead and walk it with the rig to another well on the pad.
- Install a TA cap per Cactus Wellhead procedures and monitor casing pressure via the valve on the TA cap.

BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Kill Line & HCR.
4. Open wellhead valve to ensure if pressure leaks past plug, it won't pressure up wellbore.
5. Tie into top of DP at Rig Floor. Fill with water and test Break + Pipe Rams to 250psi low and 10,000psi high.
6. Bleed off pressure.
7. Open Upper Pipe Rams, close wellhead valve and lay down test plug and DP.



Component Table:

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	X
Blind Rams		X		X
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		X	X	X
Inside Choke Valve		X	X	X
HCR		X	X	X
Kill Line	X			X
Annular		X	X	X
Choke Manifold Valves and Hose	X			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	X			X
Standpipe Valve	X			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular

- Remaining well control equipment components will either be tested offline or online, per BLM approval
- Remaining BOPE will be tested online within 72 hours rom compelting the offline BOPE component testing
- Notify the BLM if the online BOPE testing exceeds 72 hours
- All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online

Thank you.

Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
HWDP	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper pipe ram.
    e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the compatible pipe ram.
    d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

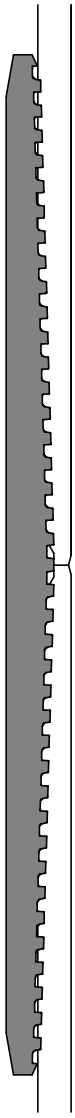
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper pipe ram.
    f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

8.625 " 32.00 lb/ft (0.352 " wall) J55 GEOCONN®

Metal One Tubular Connection

Special Clearance Coupling with Special bevel (20°)
Thread Taper 1 / 16 TAPER (0.750 inch per foot) 5 T.P.I.
Special Drift

Created at: Mon, Sep 29, 2025 13:54:49 CT



GEOMETRY	Pipe		Connection	
	Imperial	SI	Imperial	SI
Outside Diameter	8.625 in.	219.08 mm	9.000 in.	228.60 mm
Weight	32.00 lb/ft	47.62 kg/m	--	--
Wall Thickness	0.352 in.	8.94 mm	--	--
Inside Diameter	7.921 in.	201.19 mm	7.921 in.	201.19 mm
Drift Diameter	7.875 in.	200.03 mm	7.875 in.	200.03 mm
Connection Length	--	--	9.775 in.	248.29 mm
Critical Area	9.149 sq. in.	5,902 sq. mm	7.515 sq. in.	4,848 sq. mm
Tension Efficiency	--	--	82 %	82 %
Compression Efficiency	--	--	100 %	100 %
Make-Up Loss	--	--	4.813 in.	122.24 mm

PERFORMANCE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Yield	55 ksi	379 MPa	55 ksi	379 MPa
Remaining Body Wall (RBW)	87.5 %	87.5 %	--	--
Minimum Body Yield Strength	503 x 1000 lb	2,237 x 1000 N	--	--
Joint Yield Strength	--	--	413 x 1000 lb	1,839 x 1000 N
Compression Strength	--	--	503 x 1000 lb	2,237 x 1000 N
Minimum Internal Yield Pressure	3,930 psi	27.0 MPa	3,930 psi	27.0 MPa
Minimum Collapse Pressure	2,530 psi	17.5 MPa	2,530 psi	17.5 MPa
Maximum Bending Rating	--	--	24 deg/100 ft	24 deg/30 m

TORQUE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Make-Up	--	--	12,900 ft-lb	17,500 N-m
Optimum Make-Up	--	--	14,200 ft-lb	19,300 N-m
Maximum Make-Up	--	--	15,400 ft-lb	20,900 N-m
Operational Maximum	--	--	21,000 ft-lb	28,500 N-m

Notes:
1. Operational Maximum Torque can be applied for high torque application
2. Option of Resiliance Ring is available for GEOCONN
3. Interchangable with API BC

SeAH

13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

Outside Diameter	13.375	**in.**
Wall	0.380	**in.**
Inside Diameter	12.615	**in.**
Drift	12.459	**in.**
Weight, T&C	54.500	**lbs/ft**
Weight, PE	52.790	**lbs/ft**

Performance Ratings, Minimum

Collapse, PE	**1130**	**psi**
Internal Yields Pressure		
PE	**2730**	**psi**
STC	**2730**	**PSI**
BTC	**2730**	**psi**
Yield Strength, Pipe Body	**853**	**1000 lbs**
Joint Strength, STC	**514**	**1000 lbs**
Joint Strength, BTC	**909**	**1000 lbs**

DWC/C-IS PLUS

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES

Yield Strength	729	klb
Parting Load	787	klb
Compression Rating	729	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Ref String Length w 1.4 Design Factor	26,040	ft

FIELD TORQUE VALUES

Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
†Max Operational Torque	24,300	ft.lbs
†Maximum Torsional Value (MTV)	26,730	ft.lbs

†Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

05/23/2023 4:11 PM

VAM USA

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

05/23/2023 4:11 PM

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-025-55833	97903	WC-025 G-08 S253235G; LWR BONE SPRING	
Property Code: 331685	Property Name: VAN DOO DAH 33-28 FED COM		Well Number: 222H
OGRID No.: 6137	Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.		Ground Level Elevation: 3318.8
Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☒Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		200 SOUTH	1915 WEST	32.0801874°N	103.6824935°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	25 S	32 E		20 NORTH	2450 WEST	32.1086052°N	103.6807728°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640.00	INFILL	30-025-54967	Y	C
Order Numbers. N/A			Well setbacks are under Common Ownership: ☐Yes ☒No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		50 SOUTH	2450 WEST	32.0797789°N	103.6807678°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		100 SOUTH	2450 WEST	32.0799163°N	103.6807674°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	25 S	32 E		100 NORTH	2450 WEST	32.1083854°N	103.6807714°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒Horizontal ☐Vertical	Ground Floor Elevation:
N		N/A

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best ofmy knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Amy A. Brown 10/01/2025

Signature Date

Amy A. Brown

Printed Name

amy.brown@dvn.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

CertificateNumber	Dateof Survey
PLS 12797	AUGUST 14, 2025

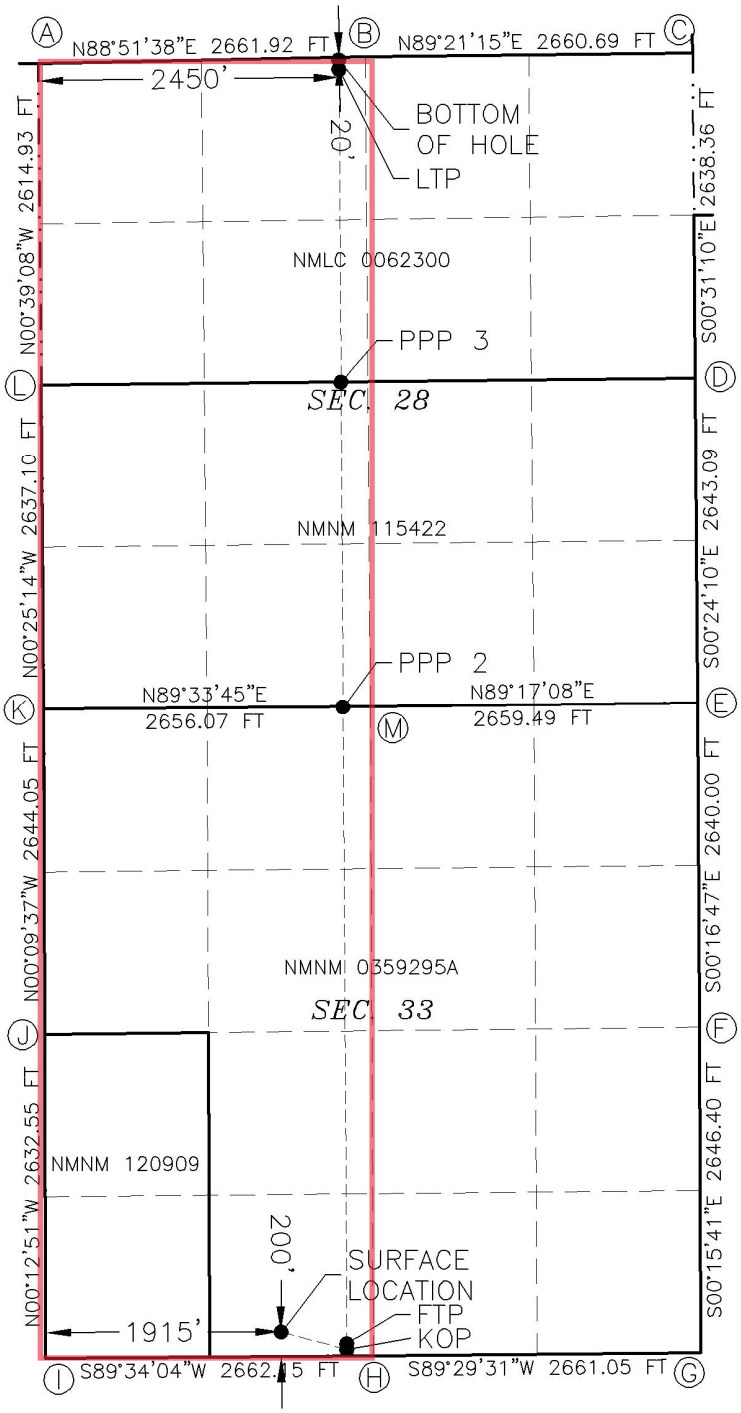
SURVEY NO. 9332A

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



VAN DOO DAH 33-28 FED COM 222H
EL. = 3318.8

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
200' FSL, 1915' FWL
N.=393517.41
E.=742916.20
LAT.=32.0801874°N
LONG.=103.6824935°W

KICK OFF POINT
50' FSL, 2450' FWL
N.=393372.04
E.=743451.59
LAT.=32.0797789°N
LONG.=103.6807678°W

FIRST TAKE POINT
100' FSL, 2450' FWL
N.=393422.03
E.=743451.43
LAT.=32.0799163°N
LONG.=103.6807674°W

LAST TAKE POINT
100' FNL, 2450' FWL
N.=403778.61
E.=743387.50
LAT.=32.1083854°N
LONG.=103.6807714°W

BOTTOM OF HOLE
20' FNL, 2450' FWL
N.=403858.58
E.=743386.59
LAT.=32.1086052°N
LONG.=103.6807728°W

PPP2
0' FNL, 2434' FWL
N.=398597.80
E.=743419.49
LAT.=32.0941440°N
LONG.=103.6807694°W

PPP3
2645' FSL, 2437' FWL
N.=401241.71
E.=743403.17
LAT.=32.1014118°N
LONG.=103.6807704°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A –	N.= 403829.87	E.= 740937.30
B –	N.= 403882.79	E.= 743598.11
C –	N.= 403912.78	E.= 746258.05
D –	N.= 401272.46	E.= 746280.66
E –	N.= 398632.65	E.= 746300.54
F –	N.= 395993.26	E.= 746313.42
G –	N.= 393347.47	E.= 746325.50
H –	N.= 393323.87	E.= 743665.13
I –	N.= 393301.16	E.= 741002.34
J –	N.= 395935.76	E.= 740993.81
K –	N.= 398579.22	E.= 740986.41
L –	N.= 401215.68	E.= 740967.06
M –	N.= 398599.50	E.= 743641.83

LEGEND

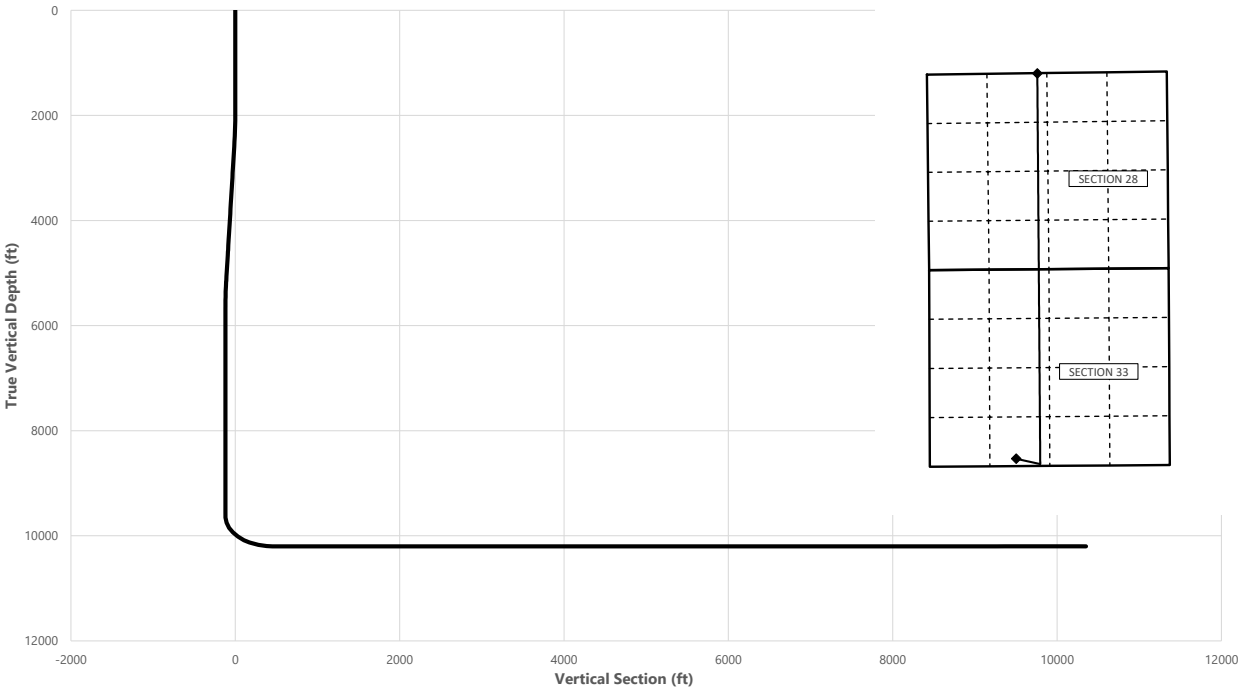
SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	105.10	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	105.10	2497.47	-11.34	42.02	-9.42	2.00	Hold Tangent
5192.60	10.00	105.10	5149.16	-133.14	493.44	-110.58	0.00	Drop to Vertical
5692.60	0.00	105.10	5646.63	-144.48	535.46	-120.00	2.00	Hold Vertical
9673.02	0.00	359.64	9627.04	-144.48	535.46	-120.00	0.00	KOP
10573.02	90.00	359.64	10200.00	428.47	531.91	452.20	10.00	Landing Point
20485.91	90.00	359.64	10200.00	10341.17	470.39	10351.86	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	759.00	759.00
Salt	1135.00	1135.00
Base of Salt	4395.33	4364.00
Delaware	4624.82	4590.00
Cherry Canyon	5555.92	5510.00
Brushy Canyon	6947.98	6902.00
Avalon	8655.98	8610.00
Bone Spring 1st	9565.98	9520.00
Bone Spring 2nd / Point of Penetrati	10276.56	10125.00
exit	20405.91	10200.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0801	-103.6826	200' FSL, 1915' FWL of Sec 33 in T25S, R32E
KOP	9673.02	9627.04	32.0797	-103.6807	50' FSL, 2450' FWL of Sec 33 in T25S, R32E
Point of Penetration	10276.56	10125.00	32.0799	-103.6808	100' FSL, 2450' FWL of Sec 33 in T25S, R32E
Exit	20405.91	10200.01	32.1084	-103.6808	100' FNL , 2450' FWL of Sec 28 in T25S, R32E
BHL	20485.91	10200.00	32.1085	-103.6809	20' FNL, 2450' FWL of Sec 28 in T25S, R32E

	Y	X	MD
KOP	393372.9	743451.7	9673.02

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	105.10	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	105.10	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	105.10	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	105.10	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	105.10	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	105.10	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	105.10	700.00	0.00	0.00	0.00	0.00	
759.00	0.00	105.10	759.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	105.10	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	105.10	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	105.10	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	105.10	1100.00	0.00	0.00	0.00	0.00	
1135.00	0.00	105.10	1135.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	105.10	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	105.10	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	105.10	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	105.10	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	105.10	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	105.10	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	105.10	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	105.10	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	105.10	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	105.10	2099.98	-0.45	1.68	-0.38	2.00	
2200.00	4.00	105.10	2199.84	-1.82	6.74	-1.51	2.00	
2300.00	6.00	105.10	2299.45	-4.09	15.15	-3.40	2.00	
2400.00	8.00	105.10	2398.70	-7.26	26.92	-6.03	2.00	
2500.00	10.00	105.10	2497.47	-11.34	42.02	-9.42	2.00	Hold Tangent
2600.00	10.00	105.10	2595.95	-15.86	58.79	-13.17	0.00	
2700.00	10.00	105.10	2694.43	-20.38	75.55	-16.93	0.00	
2800.00	10.00	105.10	2792.91	-24.91	92.32	-20.69	0.00	
2900.00	10.00	105.10	2891.39	-29.43	109.08	-24.44	0.00	
3000.00	10.00	105.10	2989.87	-33.96	125.85	-28.20	0.00	
3100.00	10.00	105.10	3088.35	-38.48	142.61	-31.96	0.00	
3200.00	10.00	105.10	3186.83	-43.00	159.38	-35.72	0.00	
3300.00	10.00	105.10	3285.31	-47.53	176.14	-39.47	0.00	
3400.00	10.00	105.10	3383.79	-52.05	192.91	-43.23	0.00	
3500.00	10.00	105.10	3482.27	-56.57	209.67	-46.99	0.00	
3600.00	10.00	105.10	3580.75	-61.10	226.44	-50.74	0.00	
3700.00	10.00	105.10	3679.23	-65.62	243.20	-54.50	0.00	
3800.00	10.00	105.10	3777.72	-70.14	259.97	-58.26	0.00	
3900.00	10.00	105.10	3876.20	-74.67	276.73	-62.02	0.00	
4000.00	10.00	105.10	3974.68	-79.19	293.50	-65.77	0.00	
4100.00	10.00	105.10	4073.16	-83.72	310.26	-69.53	0.00	
4200.00	10.00	105.10	4171.64	-88.24	327.03	-73.29	0.00	
4300.00	10.00	105.10	4270.12	-92.76	343.79	-77.04	0.00	
4395.33	10.00	105.10	4364.00	-97.07	359.78	-80.63	0.00	Base of Salt
4400.00	10.00	105.10	4368.60	-97.29	360.56	-80.80	0.00	
4500.00	10.00	105.10	4467.08	-101.81	377.32	-84.56	0.00	
4600.00	10.00	105.10	4565.56	-106.33	394.09	-88.32	0.00	
4624.82	10.00	105.10	4590.00	-107.46	398.25	-89.25	0.00	Delaware
4700.00	10.00	105.10	4664.04	-110.86	410.86	-92.07	0.00	
4800.00	10.00	105.10	4762.52	-115.38	427.62	-95.83	0.00	
4900.00	10.00	105.10	4861.00	-119.90	444.39	-99.59	0.00	
5000.00	10.00	105.10	4959.48	-124.43	461.15	-103.34	0.00	
5100.00	10.00	105.10	5057.97	-128.95	477.92	-107.10	0.00	
5192.60	10.00	105.10	5149.16	-133.14	493.44	-110.58	0.00	Drop to Vertical
5200.00	9.85	105.10	5156.45	-133.47	494.67	-110.86	2.00	
5300.00	7.85	105.10	5255.25	-137.48	509.53	-114.19	2.00	
5400.00	5.85	105.10	5354.53	-140.59	521.05	-116.77	2.00	
5500.00	3.85	105.10	5454.17	-142.79	529.21	-118.60	2.00	
5555.92	2.73	105.10	5510.00	-143.63	532.31	-119.29	2.00	Cherry Canyon
5600.00	1.85	105.10	5554.04	-144.09	534.02	-119.67	2.00	
5692.60	0.00	105.10	5646.63	-144.48	535.46	-120.00	2.00	Hold Vertical
5700.00	0.00	359.64	5654.02	-144.48	535.46	-120.00	0.00	
5800.00	0.00	359.64	5754.02	-144.48	535.46	-120.00	0.00	
5900.00	0.00	359.64	5854.02	-144.48	535.46	-120.00	0.00	
6000.00	0.00	359.64	5954.02	-144.48	535.46	-120.00	0.00	
6100.00	0.00	359.64	6054.02	-144.48	535.46	-120.00	0.00	
6200.00	0.00	359.64	6154.02	-144.48	535.46	-120.00	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.64	6254.02	-144.48	535.46	-120.00	0.00	
6400.00	0.00	359.64	6354.02	-144.48	535.46	-120.00	0.00	
6500.00	0.00	359.64	6454.02	-144.48	535.46	-120.00	0.00	
6600.00	0.00	359.64	6554.02	-144.48	535.46	-120.00	0.00	
6700.00	0.00	359.64	6654.02	-144.48	535.46	-120.00	0.00	
6800.00	0.00	359.64	6754.02	-144.48	535.46	-120.00	0.00	
6900.00	0.00	359.64	6854.02	-144.48	535.46	-120.00	0.00	
6947.98	0.00	359.64	6902.00	-144.48	535.46	-120.00	0.00	Brushy Canyon
7000.00	0.00	359.64	6954.02	-144.48	535.46	-120.00	0.00	
7100.00	0.00	359.64	7054.02	-144.48	535.46	-120.00	0.00	
7200.00	0.00	359.64	7154.02	-144.48	535.46	-120.00	0.00	
7300.00	0.00	359.64	7254.02	-144.48	535.46	-120.00	0.00	
7400.00	0.00	359.64	7354.02	-144.48	535.46	-120.00	0.00	
7500.00	0.00	359.64	7454.02	-144.48	535.46	-120.00	0.00	
7600.00	0.00	359.64	7554.02	-144.48	535.46	-120.00	0.00	
7700.00	0.00	359.64	7654.02	-144.48	535.46	-120.00	0.00	
7800.00	0.00	359.64	7754.02	-144.48	535.46	-120.00	0.00	
7900.00	0.00	359.64	7854.02	-144.48	535.46	-120.00	0.00	
8000.00	0.00	359.64	7954.02	-144.48	535.46	-120.00	0.00	
8100.00	0.00	359.64	8054.02	-144.48	535.46	-120.00	0.00	
8200.00	0.00	359.64	8154.02	-144.48	535.46	-120.00	0.00	
8300.00	0.00	359.64	8254.02	-144.48	535.46	-120.00	0.00	
8400.00	0.00	359.64	8354.02	-144.48	535.46	-120.00	0.00	
8500.00	0.00	359.64	8454.02	-144.48	535.46	-120.00	0.00	
8600.00	0.00	359.64	8554.02	-144.48	535.46	-120.00	0.00	
8655.98	0.00	359.64	8610.00	-144.48	535.46	-120.00	0.00	Avalon
8700.00	0.00	359.64	8654.02	-144.48	535.46	-120.00	0.00	
8800.00	0.00	359.64	8754.02	-144.48	535.46	-120.00	0.00	
8900.00	0.00	359.64	8854.02	-144.48	535.46	-120.00	0.00	
9000.00	0.00	359.64	8954.02	-144.48	535.46	-120.00	0.00	
9100.00	0.00	359.64	9054.02	-144.48	535.46	-120.00	0.00	
9200.00	0.00	359.64	9154.02	-144.48	535.46	-120.00	0.00	
9300.00	0.00	359.64	9254.02	-144.48	535.46	-120.00	0.00	
9400.00	0.00	359.64	9354.02	-144.48	535.46	-120.00	0.00	
9500.00	0.00	359.64	9454.02	-144.48	535.46	-120.00	0.00	
9565.98	0.00	359.64	9520.00	-144.48	535.46	-120.00	0.00	Bone Spring 1st
9600.00	0.00	359.64	9554.02	-144.48	535.46	-120.00	0.00	
9673.02	0.00	359.64	9627.04	-144.48	535.46	-120.00	0.00	KOP
9700.00	2.70	359.64	9654.01	-143.84	535.46	-119.36	10.00	
9800.00	12.70	359.64	9752.99	-130.47	535.37	-106.00	10.00	
9900.00	22.70	359.64	9848.13	-100.10	535.19	-75.68	10.00	
10000.00	32.70	359.64	9936.56	-53.68	534.90	-29.32	10.00	
10100.00	42.70	359.64	10015.59	7.39	534.52	31.67	10.00	
10200.00	52.70	359.64	10082.80	81.26	534.06	105.44	10.00	
10276.56	60.35	359.64	10125.00	145.07	533.66	169.17	10.00	Bone Spring 2nd / Point of Penetration
10300.00	62.70	359.64	10136.17	165.67	533.54	189.74	10.00	
10400.00	72.70	359.64	10174.07	258.07	532.96	282.02	10.00	
10500.00	82.70	359.64	10195.35	355.65	532.36	379.47	10.00	
10573.02	90.00	359.64	10200.00	428.47	531.91	452.20	10.00	Landing Point
10600.00	90.00	359.64	10200.00	455.45	531.74	479.14	0.00	
10700.00	90.00	359.64	10200.00	555.45	531.12	579.01	0.00	
10800.00	90.00	359.64	10200.00	655.45	530.50	678.88	0.00	
10900.00	90.00	359.64	10200.00	755.44	529.88	778.74	0.00	
11000.00	90.00	359.64	10200.00	855.44	529.25	878.61	0.00	
11100.00	90.00	359.64	10200.00	955.44	528.63	978.48	0.00	
11200.00	90.00	359.64	10200.00	1055.44	528.01	1078.34	0.00	
11300.00	90.00	359.64	10200.00	1155.44	527.39	1178.21	0.00	
11400.00	90.00	359.64	10200.00	1255.44	526.77	1278.08	0.00	
11500.00	90.00	359.64	10200.00	1355.43	526.15	1377.94	0.00	
11600.00	90.00	359.64	10200.00	1455.43	525.53	1477.81	0.00	
11700.00	90.00	359.64	10200.00	1555.43	524.91	1577.68	0.00	
11800.00	90.00	359.64	10200.00	1655.43	524.29	1677.54	0.00	
11900.00	90.00	359.64	10200.00	1755.43	523.66	1777.41	0.00	
12000.00	90.00	359.64	10200.00	1855.42	523.04	1877.27	0.00	
12100.00	90.00	359.64	10200.00	1955.42	522.42	1977.14	0.00	
12200.00	90.00	359.64	10200.00	2055.42	521.80	2077.01	0.00	
12300.00	90.00	359.64	10200.00	2155.42	521.18	2176.87	0.00	
12400.00	90.00	359.64	10200.00	2255.42	520.56	2276.74	0.00	
12500.00	90.00	359.64	10200.00	2355.41	519.94	2376.61	0.00	
12600.00	90.00	359.64	10200.00	2455.41	519.32	2476.47	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12700.00	90.00	359.64	10200.00	2555.41	518.70	2576.34	0.00	
12800.00	90.00	359.64	10200.00	2655.41	518.07	2676.21	0.00	
12900.00	90.00	359.64	10200.00	2755.41	517.45	2776.07	0.00	
13000.00	90.00	359.64	10200.00	2855.40	516.83	2875.94	0.00	
13100.00	90.00	359.64	10200.00	2955.40	516.21	2975.81	0.00	
13200.00	90.00	359.64	10200.00	3055.40	515.59	3075.67	0.00	
13300.00	90.00	359.64	10200.00	3155.40	514.97	3175.54	0.00	
13400.00	90.00	359.64	10200.00	3255.40	514.35	3275.41	0.00	
13500.00	90.00	359.64	10200.00	3355.39	513.73	3375.27	0.00	
13600.00	90.00	359.64	10200.00	3455.39	513.11	3475.14	0.00	
13700.00	90.00	359.64	10200.00	3555.39	512.48	3575.01	0.00	
13800.00	90.00	359.64	10200.00	3655.39	511.86	3674.87	0.00	
13900.00	90.00	359.64	10200.00	3755.39	511.24	3774.74	0.00	
14000.00	90.00	359.64	10200.00	3855.38	510.62	3874.61	0.00	
14100.00	90.00	359.64	10200.00	3955.38	510.00	3974.47	0.00	
14200.00	90.00	359.64	10200.00	4055.38	509.38	4074.34	0.00	
14300.00	90.00	359.64	10200.00	4155.38	508.76	4174.21	0.00	
14400.00	90.00	359.64	10200.00	4255.38	508.14	4274.07	0.00	
14500.00	90.00	359.64	10200.00	4355.38	507.52	4373.94	0.00	
14600.00	90.00	359.64	10200.00	4455.37	506.89	4473.80	0.00	
14700.00	90.00	359.64	10200.00	4555.37	506.27	4573.67	0.00	
14800.00	90.00	359.64	10200.01	4655.37	505.65	4673.54	0.00	
14900.00	90.00	359.64	10200.01	4755.37	505.03	4773.40	0.00	
15000.00	90.00	359.64	10200.01	4855.37	504.41	4873.27	0.00	
15100.00	90.00	359.64	10200.01	4955.36	503.79	4973.14	0.00	
15200.00	90.00	359.64	10200.01	5055.36	503.17	5073.00	0.00	
15300.00	90.00	359.64	10200.01	5155.36	502.55	5172.87	0.00	
15400.00	90.00	359.64	10200.01	5255.36	501.93	5272.74	0.00	
15500.00	90.00	359.64	10200.01	5355.36	501.30	5372.60	0.00	
15600.00	90.00	359.64	10200.01	5455.35	500.68	5472.47	0.00	
15700.00	90.00	359.64	10200.01	5555.35	500.06	5572.34	0.00	
15800.00	90.00	359.64	10200.01	5655.35	499.44	5672.20	0.00	
15900.00	90.00	359.64	10200.01	5755.35	498.82	5772.07	0.00	
16000.00	90.00	359.64	10200.01	5855.35	498.20	5871.94	0.00	
16100.00	90.00	359.64	10200.01	5955.34	497.58	5971.80	0.00	
16200.00	90.00	359.64	10200.01	6055.34	496.96	6071.67	0.00	
16300.00	90.00	359.64	10200.01	6155.34	496.34	6171.54	0.00	
16400.00	90.00	359.64	10200.01	6255.34	495.71	6271.40	0.00	
16500.00	90.00	359.64	10200.01	6355.34	495.09	6371.27	0.00	
16600.00	90.00	359.64	10200.01	6455.33	494.47	6471.14	0.00	
16700.00	90.00	359.64	10200.01	6555.33	493.85	6571.00	0.00	
16800.00	90.00	359.64	10200.01	6655.33	493.23	6670.87	0.00	
16900.00	90.00	359.64	10200.01	6755.33	492.61	6770.74	0.00	
17000.00	90.00	359.64	10200.01	6855.33	491.99	6870.60	0.00	
17100.00	90.00	359.64	10200.01	6955.33	491.37	6970.47	0.00	
17200.00	90.00	359.64	10200.01	7055.32	490.75	7070.34	0.00	
17300.00	90.00	359.64	10200.01	7155.32	490.12	7170.20	0.00	
17400.00	90.00	359.64	10200.01	7255.32	489.50	7270.07	0.00	
17500.00	90.00	359.64	10200.01	7355.32	488.88	7369.93	0.00	
17600.00	90.00	359.64	10200.01	7455.32	488.26	7469.80	0.00	
17700.00	90.00	359.64	10200.01	7555.31	487.64	7569.67	0.00	
17800.00	90.00	359.64	10200.01	7655.31	487.02	7669.53	0.00	
17900.00	90.00	359.64	10200.01	7755.31	486.40	7769.40	0.00	
18000.00	90.00	359.64	10200.01	7855.31	485.78	7869.27	0.00	
18100.00	90.00	359.64	10200.01	7955.31	485.16	7969.13	0.00	
18200.00	90.00	359.64	10200.01	8055.30	484.54	8069.00	0.00	
18300.00	90.00	359.64	10200.01	8155.30	483.91	8168.87	0.00	
18400.00	90.00	359.64	10200.01	8255.30	483.29	8268.73	0.00	
18500.00	90.00	359.64	10200.01	8355.30	482.67	8368.60	0.00	
18600.00	90.00	359.64	10200.01	8455.30	482.05	8468.47	0.00	
18700.00	90.00	359.64	10200.01	8555.29	481.43	8568.33	0.00	
18800.00	90.00	359.64	10200.01	8655.29	480.81	8668.20	0.00	
18900.00	90.00	359.64	10200.01	8755.29	480.19	8768.07	0.00	
19000.00	90.00	359.64	10200.01	8855.29	479.57	8867.93	0.00	
19100.00	90.00	359.64	10200.01	8955.29	478.95	8967.80	0.00	
19200.00	90.00	359.64	10200.01	9055.28	478.32	9067.67	0.00	
19300.00	90.00	359.64	10200.01	9155.28	477.70	9167.53	0.00	
19400.00	90.00	359.64	10200.01	9255.28	477.08	9267.40	0.00	
19500.00	90.00	359.64	10200.01	9355.28	476.46	9367.27	0.00	
19600.00	90.00	359.64	10200.01	9455.28	475.84	9467.13	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19700.00	90.00	359.64	10200.01	9555.27	475.22	9567.00	0.00	
19800.00	90.00	359.64	10200.01	9655.27	474.60	9666.87	0.00	
19900.00	90.00	359.64	10200.01	9755.27	473.98	9766.73	0.00	
20000.00	90.00	359.64	10200.01	9855.27	473.36	9866.60	0.00	
20100.00	90.00	359.64	10200.01	9955.27	472.73	9966.47	0.00	
20200.00	90.00	359.64	10200.01	10055.27	472.11	10066.33	0.00	
20300.00	90.00	359.64	10200.01	10155.26	471.49	10166.20	0.00	
20400.00	90.00	359.64	10200.01	10255.26	470.87	10266.06	0.00	
20405.91	90.00	359.64	10200.01	10261.17	470.83	10271.97	0.00	exit
20485.91	90.00	359.64	10200.00	10341.17	470.39	10351.86	0.00	BHL

VAN DOO DAH 33-28 FED COM 222H

1. Geologic Formations

TVD of target	10200	Pilot hole depth	N/A
MD at TD:	20486	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	759		
Salt	1135		
Base of Salt	4364		
Delaware	4590		
Cherry Canyon	5510		
Brushy Canyon	6902		
Avalon	8610		
Bone Spring 1st	9520		
Bone Spring 2nd	10125		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

VAN DOO DAH 33-28 FED COM 222H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	829	0	829
9 7/8	8 5/8	32	J-55	GEOCONN	0	4464	0	4464
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	20486	0	10200

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	638	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	278	Surf	9.0	3.3	Lead: Class C Cement + additives
	67	3964	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	361	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	278	Surf	9.0	3.3	Lead: Class C Cement + additives
	67	3964	13.2	1.4	Tail: Class H / C + additives
Production	333	3964	9.0	3.3	Lead: Class H /C + additives
	1431	9673	13.2	1.4	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

VAN DOO DAH 33-28 FED COM 222H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

VAN DOO DAH 33-28 FED COM 222H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing
	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4774
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
    a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
    a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
_____ Other, describe

Well Name: VAN DOO DAH 33-28 FED COM

Well Location: T25S / R32E / SEC 33 / SESW / 32.0801874 / -103.6824935

County or Parish/State: LEA / NM

Well Number: 839H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0359295A

Unit or CA Name:

Unit or CA Number: NMNM106740953

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2886926

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/15/2025

Time Sundry Submitted: 10:21

Date proposed operation will begin: 12/19/2025

Procedure Description: Devon Energy Production Co., LP respectfully requests a name, BHL, formation, and casing plan change for the subject well. Devon also requests break test and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted Well Name: VAN DOO DAH 33-28 FED COM 839H Proposed Well Name: VAN DOO DAH 33-28 FED COM 222H Permitted BHL: 20 FNL, 2310 FEL, Section 28, Township 25-S, Range 32-E, UL-B Proposed BHL: 20 FNL, 2450 FWL, Section 28, Township 25-S, Range 32-E, UL-C Permitted Formation: LWR WOLFCAMP (POOL CODE: 98203, POOL NAME: WC-025 S253227A; LWR WOLFCAMP (GAS)) Proposed Formation: LOWER BONE SPRING (POOL CODE: 97903, POOL NAME: WC-025 G-08 S253235G; LWR BONE SPRING) Permitted TVD/MD: 12763 / 23157 Proposed TVD/MD: 10200 /20486

NOI Attachments

Procedure Description

Offline_Production_Cement___WFMP___Shallower___BLM_v5_20251215101814.pdf

Production_Break_Testing_Variance___WFMP___Shallower___BLM_v4_20251215101814.pdf

Annular_Variance___Preventer_Summary_20251215101813.pdf

8.625_32lb_J55_GEOCONN_20251215101806.pdf

13.375_54.5lb_J55_20251215101806.pdf

5.5_20lb_P110EC_DWC_C_IS_PLUS_20251215101806.pdf

WA018445299_VAN_DOO_DAH_33_28_FED_COM_222H_WL_R1_SIGNED_20251215101754.pdf

Well Name: VAN DOO DAH 33-28 FED COM	**Well Location:** T25S / R32E / SEC 33 / SESW / 32.0801874 / -103.6824935	**County or Parish/State:** LEA / NM
Well Number: 839H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM0359295A	**Unit or CA Name:**	**Unit or CA Number:** NMNM106740953
US Well Number:	**Operator:** DEVON ENERGY PRODUCTION COMPANY LP	

VAN_DOO_DAH_33_28_FED_COM_222H_Directional_Plan_11_17_25_20251215101753.pdf

VAN_DOO_DAH_33_28_FED_COM_222H_11_17_2025_20251215101753.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: AMY BROWN

Signed on: DEC 15, 2025 10:18 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: In-Reviews

Disposition Date: 12/16/2025

Signature: Long Vo

APPROVED by Long Vo
Petroleum Engineer
Carlsbad Field Office
575-988-50402
LVO@BLM.GOV

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LOCATION:	Section 33, T.25 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Van Doo Dah 33-28 Fed Com 839H**
ATS/API ID:	**ATS-25-2526**
APD ID:	**10400107330**
Sundry ID:	**2886926**

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☐ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: Int 1	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☑ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention: None	
Special Requirements Variance	☑ BOPE Break Testing ☑ Offline BOPE Testing	☑ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1065 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed to pump down **13-3/8"** X **8-5/8"** annulus after primary cementing stage. Operator must run a CBL from TD of the **8-5/8"** casing to surface. Submit results to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Commercial Well Determination

- A commercial well determination shall be submitted after production has been established for at least six months if the well penetrate a federal exploratory unit acreage, in addition the unit number and participating area number shall be on the well sign when the well is determined to be a Unit well.
- If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

(Note: For a minimum 5M MASP or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must tested to 100% working pressure and BOPE shall be tested to full Rated Pressure)**
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections shallower than the deepest drilled intermediate on the well pad above 12,000 feet.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200’ TVD tolerance between intermediate shoes is allowable).

Production Break Testing Section: **permitted**

- Variance only pertains to the production hole-section shallower than the deepest drilled production on the well pad above 12,000 feet.
- A full BOPE test is required prior to drilling the first deep production hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200’ TVD tolerance between production lateral is allowable).

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at **Lea County: 575-689-5981**.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval and Production intervals**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Lea County: 575-689-5981**.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☑ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Acceptable Method of Cement Verifications:

    a. Observing cement circulated to surface.
    b. Cement bond log (CBL).
    c. Temperature log within 8-10 hours after completing the cement job.
    d. Echometer (if a second-stage bradenhead squeeze is being used).

5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

8. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

9. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 12/21/2025

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 200 FSL / 1915 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801874 / LONG: -103.6824935 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799205 / LONG: -103.3678945 (TVD: 11910 feet, MD: 12004 feet)

PPP: SWSE / 110 FSL / 2316 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.0944277 / LONG: -103.6789468 (TVD: 12791 feet, MD: 18000 feet)

BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1086183 / LONG: -103.6789567 (TVD: 12763 feet, MD: 23153 feet)

Devon Energy
Offline Prodction Cementing

10/2025
REV5

NYSE: DVN
devonenergy.com

devon

Offline Production Cementing Variance

Devon is respectfully pursuing a variance to the minimum standards to allow for the cementing of the Production Casing offline in the Wolfcamp and shallower producing horizons.

To ensure personnel safety and well integrity, strict eligibility requirements will be enforced, and a detailed procedure will be followed.

The following slides outline the eligibility requirements, offline procedure, schematics and pressure ratings.

Offline Production Eligibility

Offline Punch List:

The well must meet all criteria to qualify for offline cementing.

A) Well is in the Wolfcamp or shallower bench.
B) No unusual events were observed during drilling, tripping or casing operations.
C) Casing successfully landed out on casing hanger (fluted or solid).
D) Devon Company Men with Well Control certifications will monitor returns (bbl in / bbl out) to ensure well control is maintained.
E) Rig Manager will oversee the walking of the rig to the next well.
F) All barriers MUST test and at no point will there be less than 2 barriers in place.
G) No offset frac operations occurring within 1.0 mile in the same bench.
H) Once all criteria are met and BLM is notified, Devon may proceed with ND BOP and continue offline operations.

Note: Devon will *NOT* drill out the next deep intermediate until cementing on the offline well is complete.

Offline Procedure

- **Devon's Proposed Production Offline Procedure:**

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10M backpressure valves.
- Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
  - If well is not static, build pressure or acting abnormal in any way - abort offline operations.
- Install 10M packoff and test same. After successful test, engage locking ring and L/D running tool.
- Install 10M backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon Company Man and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.
- Install 10M Gate Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.

Offline Procedure

- **Devon's Proposed Production Offline Procedure (continued):**

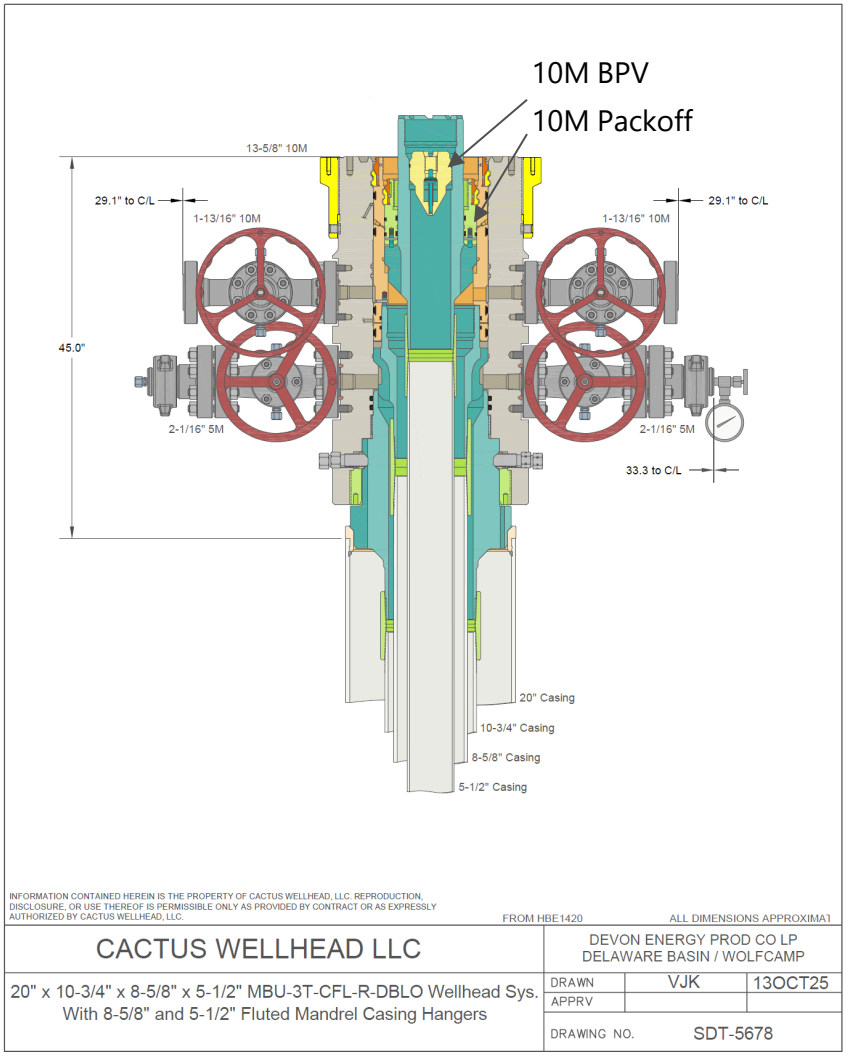
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.*
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.
- ***Note*** - If the well is within the KPLA, and an uncemented annulus between the Production and Intermediate casing has been utilized; then cement shall be squeezed down both casing valves within 180 days of the well's completion and displaced with a treated fresh water to a TOC below the potash interval and marker bed number 126, with a minimum of 500' tie-back inside the Intermediate Casing as per R111Q.

*Note – This hasn't been observed

Offline Procedure – Detailed

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10,000psi backpressure valves.
  - Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
- Install packoff rated to 10,000psi and test same. After successful test, engage locking ring and L/D running tool.
- Install backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon PIC and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.

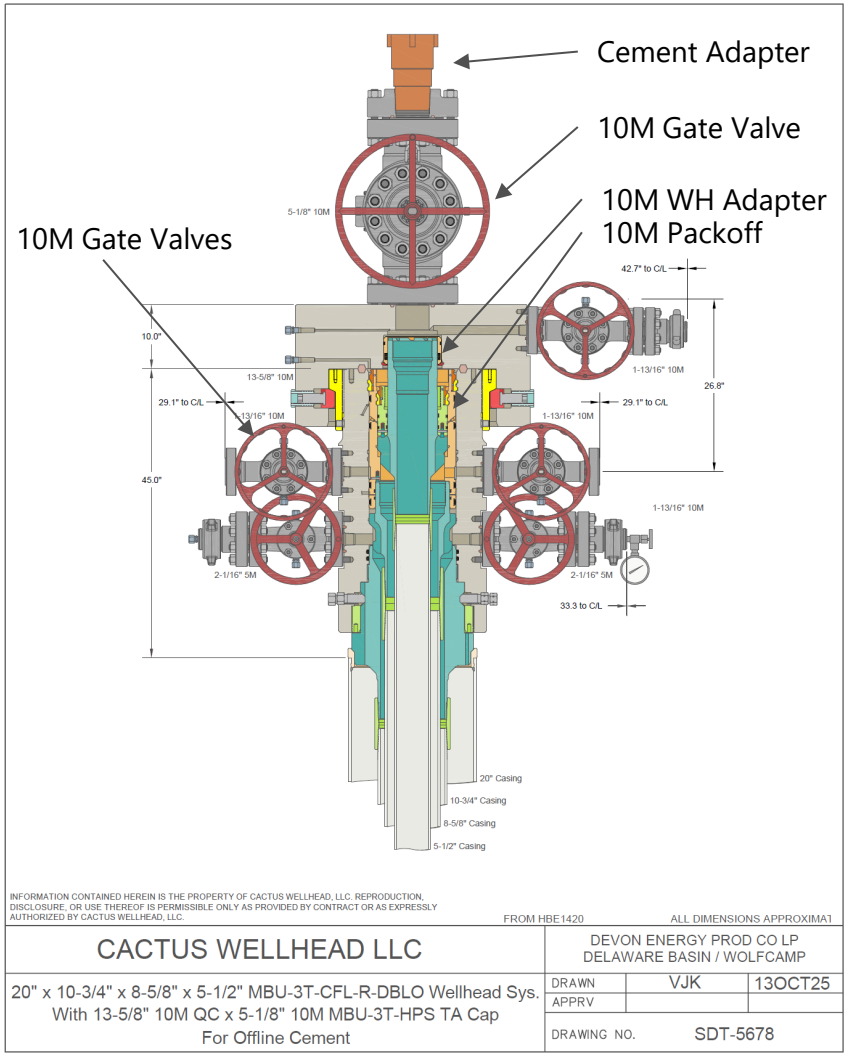
Casing Barrier	Rating	Backside Barrier	Rating
BPV	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi		



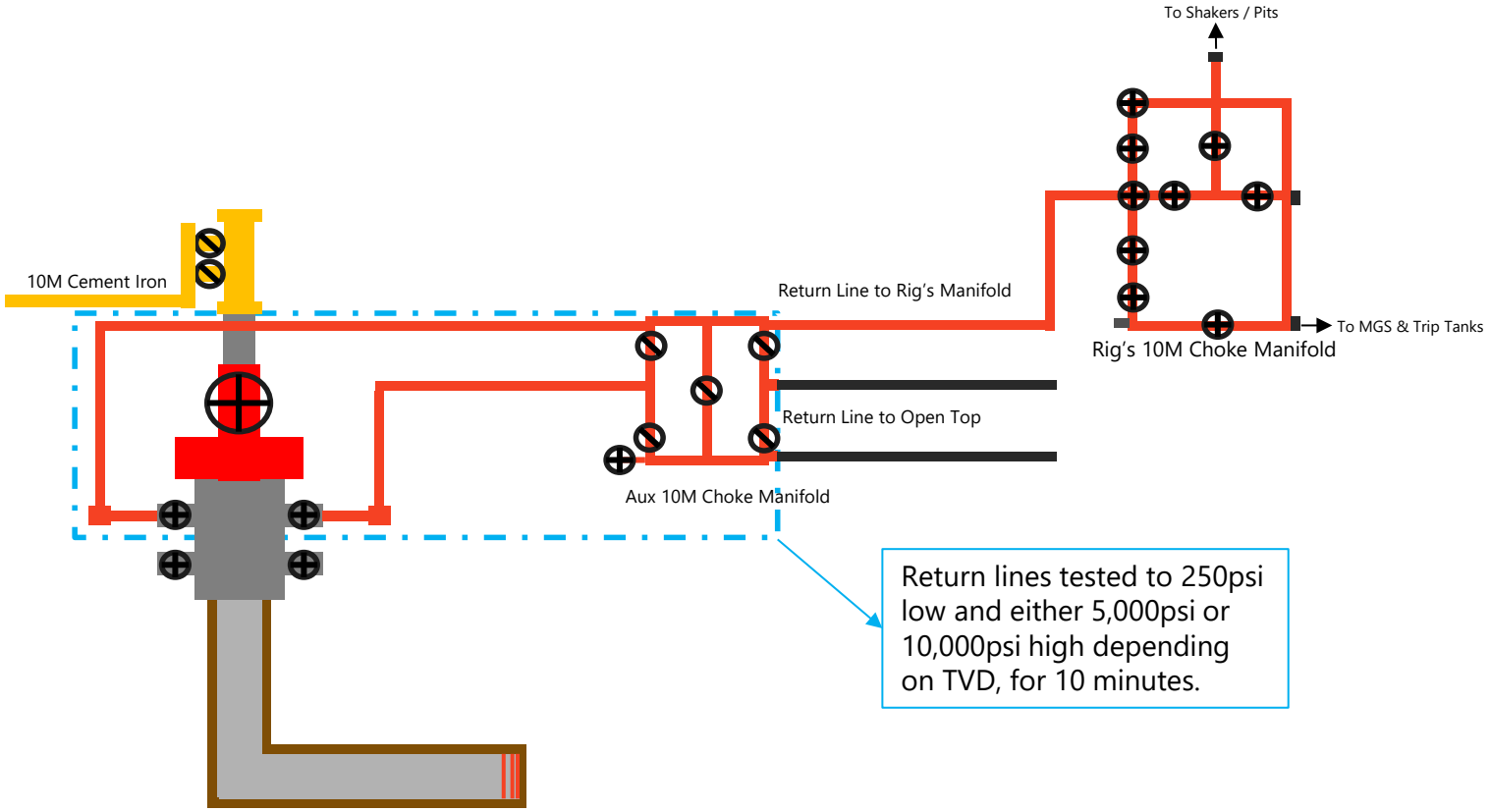
Offline Procedure – Detailed

- Install 10M Frac Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.

Casing Barrier	Rating	Backside Barrier	Rating
Frac Valve	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi	WH Adapter	10,000psi
Cement Head	10,000psi		



Offline Flow Path



10M Valve / Choke

10M Low Torq

Note:
- All lines are 10M rated and tested to **5,000psi for wells less than 12,000' TVD**
- All lines are 10M rated and tested to **10,000psi for wells greater than 12,000' TVD**
- Minimum of 2 barriers in place at ALL times
- Never had to circulate out an influx during an Offline job

Thank you.

BOPE Break Test Variance

10/2025
REV4

NYSE: DVN
devonenergy.com

devon

BOPE Break Test Variance (Less than 12,000' TVD)

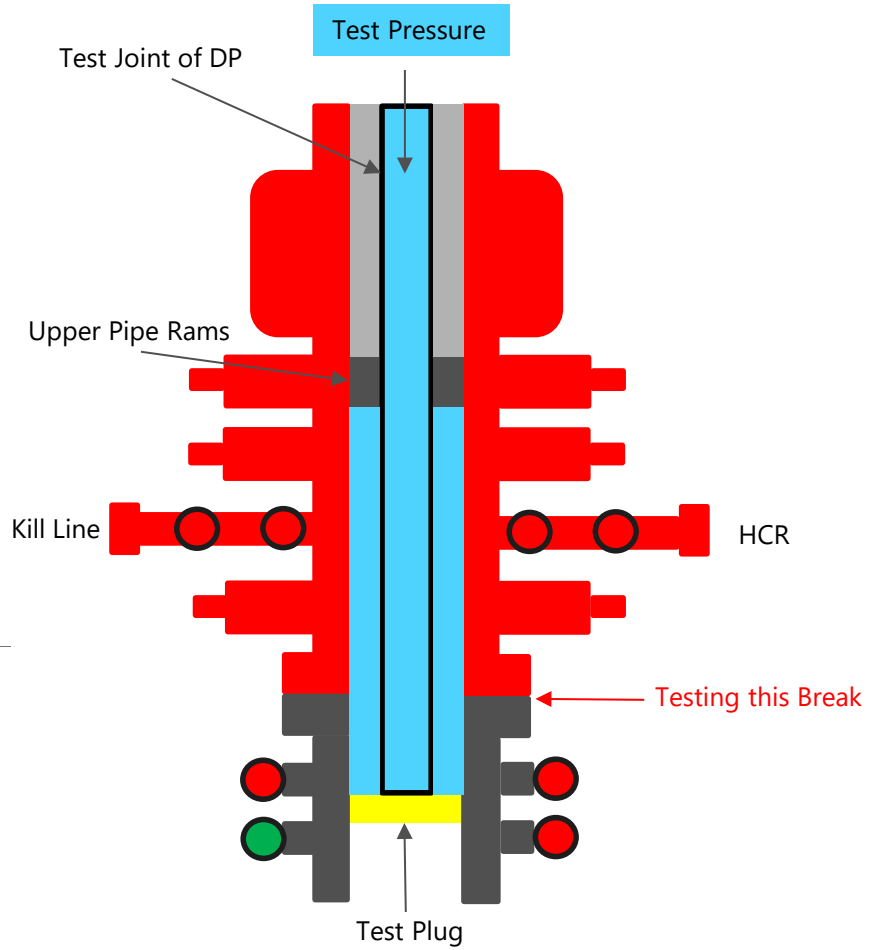
Devon is respectfully pursuing a variance to the minimum standards to allow a testing schedule of the blow out prevention equipment (BOPE) along with Stump Testing, Batch Drilling & Offline Cementing operations to include the following:

- Conduct a full 10k BOPE and 5k Annular test upon initial installation on the pad.
- If the rig has the ability to do a Stump Test, this is permitted for initial installation.
- Perform full BOPE tests every 21 days thereafter.
- Intermediate & Production Break-testing is permitted to the base of the Wolfcamp or shallower (limited to **12,000' TVD)**.
- Once the well is secured and BLM has been notified, disconnect the BOP and walk the rig to the next well on the pad.
    - If any unusual events occur during drilling, tripping, or casing operations, break-testing will not be performed
    - If offset fracturing is observed within 1.0 mile in the same producing horizon, break-testing in the production section will not be performed.
- Each rig requesting a break-test variance must be capable of picking up the BOP without damaging components, using winches and following API Standard 53 (Fifth Edition, December 2018, Annex C, Table C.4), which recognizes break-testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
    - Annular: During each full BOPE test and at least weekly.
    - Pipe Rams: On every trip and on trip-ins where a FIT is required.
    - Blind Rams: On every trip.
- Break-testing the BOP allows for offline cementing and/or remediation (if needed) of any surface, intermediate, or production sections, in accordance with the attached offline cementing support documentation.
- After securing the well section, disconnect the BOP from the wellhead and walk it with the rig to another well on the pad.
- Install a TA cap per Cactus Wellhead procedures and monitor casing pressure via the valve on the TA cap.

BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Kill Line & HCR.
4. Open wellhead valve to ensure if pressure leaks past plug, it won't pressure up wellbore.
5. Tie into top of DP at Rig Floor. Fill with water and test Break + Pipe Rams to 250psi low and 10,000psi high.
6. Bleed off pressure.
7. Open Upper Pipe Rams, close wellhead valve and lay down test plug and DP.



Component Table:

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	X
Blind Rams		X		X
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		X	X	X
Inside Choke Valve		X	X	X
HCR		X	X	X
Kill Line	X			X
Annular		X	X	X
Choke Manifold Valves and Hose	X			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	X			X
Standpipe Valve	X			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular
- Remaining well control equipment components will either be tested offline or online, per BLM approval
- Remaining BOPE will be tested online within 72 hours rom completing the offline BOPE component testing
- Notify the BLM if the online BOPE testing exceeds 72 hours
- All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online

Thank you.

Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
HWDP	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper pipe ram.
    e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the compatible pipe ram.
    d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

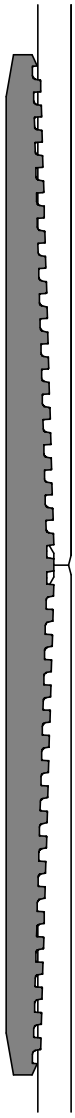
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper pipe ram.
    f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

8.625 ″ 32.00 lb/ft (0.352 ″ wall) J55 GEOCONN®

Metal One Tubular Connection

Special Clearance Coupling with Special bevel (20°)
Thread Taper 1 / 16 TAPER (0.750 inch per foot) 5 T.P.I.
Special Drift

Created at: Mon, Sep 29, 2025 13:54:49 CT



GEOMETRY	Pipe		Connection	
	Imperial	SI	Imperial	SI
Outside Diameter	8.625 in.	219.08 mm	9.000 in.	228.60 mm
Weight	32.00 lb/ft	47.62 kg/m	--	--
Wall Thickness	0.352 in.	8.94 mm	--	--
Inside Diameter	7.921 in.	201.19 mm	7.921 in.	201.19 mm
Drift Diameter	7.875 in.	200.03 mm	7.875 in.	200.03 mm
Connection Length	--	--	9.775 in.	248.29 mm
Critical Area	9.149 sq. in.	5,902 sq. mm	7.515 sq. in.	4,848 sq. mm
Tension Efficiency	--	--	82 %	82 %
Compression Efficiency	--	--	100 %	100 %
Make-Up Loss	--	--	4.813 in.	122.24 mm

PERFORMANCE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Yield	55 ksi	379 MPa	55 ksi	379 MPa
Remaining Body Wall (RBW)	87.5 %	87.5 %	--	--
Minimum Body Yield Strength	503 x 1000 lb	2,237 x 1000 N	--	--
Joint Yield Strength	--	--	413 x 1000 lb	1,839 x 1000 N
Compression Strength	--	--	503 x 1000 lb	2,237 x 1000 N
Minimum Internal Yield Pressure	3,930 psi	27.0 MPa	3,930 psi	27.0 MPa
Minimum Collapse Pressure	2,530 psi	17.5 MPa	2,530 psi	17.5 MPa
Maximum Bending Rating	--	--	24 deg/100 ft	24 deg/30 m

TORQUE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Make-Up	--	--	12,900 ft-lb	17,500 N-m
Optimum Make-Up	--	--	14,200 ft-lb	19,300 N-m
Maximum Make-Up	--	--	15,400 ft-lb	20,900 N-m
Operational Maximum	--	--	21,000 ft-lb	28,500 N-m

Notes:
1. Operational Maximum Torque can be applied for high torque application
2. Option of Resiliance Ring is available for GEOCONN
3. Interchangable with API BC

SeAH

13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

Outside Diameter	13.375	**in.**
Wall	0.380	**in.**
Inside Diameter	12.615	**in.**
Drift	12.459	**in.**
Weight, T&C	54.500	**lbs/ft**
Weight, PE	52.790	**lbs/ft**

Performance Ratings, Minimum

Collapse, PE	**1130**	**psi**
Internal Yields Pressure		
PE	**2730**	**psi**
STC	**2730**	**PSI**
BTC	**2730**	**psi**
Yield Strength, Pipe Body	**853**	**1000 lbs**
Joint Strength, STC	**514**	**1000 lbs**
Joint Strength, BTC	**909**	**1000 lbs**

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

DWC/C-IS PLUS

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES

Yield Strength	729	klb
Parting Load	787	klb
Compression Rating	729	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Ref String Length w 1.4 Design Factor	26,040	ft

FIELD TORQUE VALUES

Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
†Max Operational Torque	24,300	ft.lbs
†Maximum Torsional Value (MTV)	26,730	ft.lbs

†Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

05/23/2023 4:11 PM

VAM USA

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

05/23/2023 4:11 PM

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
	97903	WC-025 G-08 S253235G; LWR BONE SPRING	
Property Code 331685	Property Name VAN DOO DAH 33-28 FED COM		Well Number 222H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		Ground Level Elevation 3318.8
Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☒Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		200 SOUTH	1915 WEST	32.0801874°N	103.6824935°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	25 S	32 E		20 NORTH	2450 WEST	32.1086052°N	103.6807728°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640.00	INFILL	30-025-54967	Y	C
Order Numbers. N/A			Well setbacks are under Common Ownership: ☐Yes ☒No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		50 SOUTH	2450 WEST	32.0797789°N	103.6807678°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	33	25 S	32 E		100 SOUTH	2450 WEST	32.0799163°N	103.6807674°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	25 S	32 E		100 NORTH	2450 WEST	32.1083854°N	103.6807714°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒Horizontal ☐Vertical	Ground Floor Elevation:
N		N/A

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best ofmy knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Amy A. Brown 10/01/2025

Signature Date

Amy A. Brown

Printed Name

amy.brown@dvn.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

CertificateNumber	Dateof Survey
PLS 12797	AUGUST 14, 2025

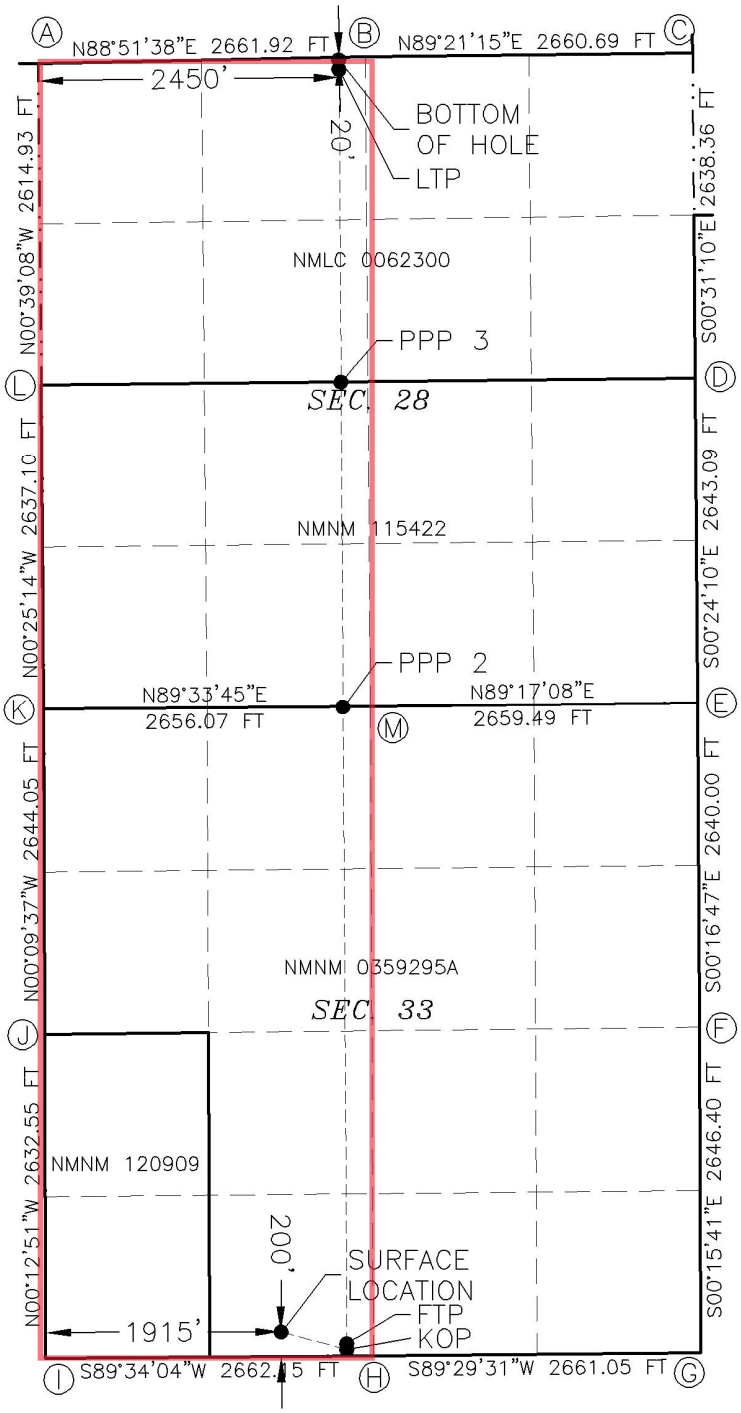
SURVEY NO. 9332A

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



VAN DOO DAH 33-28 FED COM 222H
EL. = 3318.8

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
200' FSL, 1915' FWL
N.=393517.41
E.=742916.20
LAT.=32.0801874°N
LONG.=103.6824935°W

KICK OFF POINT
50' FSL, 2450' FWL
N.=393372.04
E.=743451.59
LAT.=32.0797789°N
LONG.=103.6807678°W

FIRST TAKE POINT
100' FSL, 2450' FWL
N.=393422.03
E.=743451.43
LAT.=32.0799163°N
LONG.=103.6807674°W

LAST TAKE POINT
100' FNL, 2450' FWL
N.=403778.61
E.=743387.50
LAT.=32.1083854°N
LONG.=103.6807714°W

BOTTOM OF HOLE
20' FNL, 2450' FWL
N.=403858.58
E.=743386.59
LAT.=32.1086052°N
LONG.=103.6807728°W

PPP2
0' FNL, 2434' FWL
N.=398597.80
E.=743419.49
LAT.=32.0941440°N
LONG.=103.6807694°W

PPP3
2645' FSL, 2437' FWL
N.=401241.71
E.=743403.17
LAT.=32.1014118°N
LONG.=103.6807704°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A	N.= 403829.87	E.= 740937.30
B	N.= 403882.79	E.= 743598.11
C	N.= 403912.78	E.= 746258.05
D	N.= 401272.46	E.= 746280.66
E	N.= 398632.65	E.= 746300.54
F	N.= 395993.26	E.= 746313.42
G	N.= 393347.47	E.= 746325.50
H	N.= 393323.87	E.= 743665.13
I	N.= 393301.16	E.= 741002.34
J	N.= 395935.76	E.= 740993.81
K	N.= 398579.22	E.= 740986.41
L	N.= 401215.68	E.= 740967.06
M	N.= 398599.50	E.= 743641.83

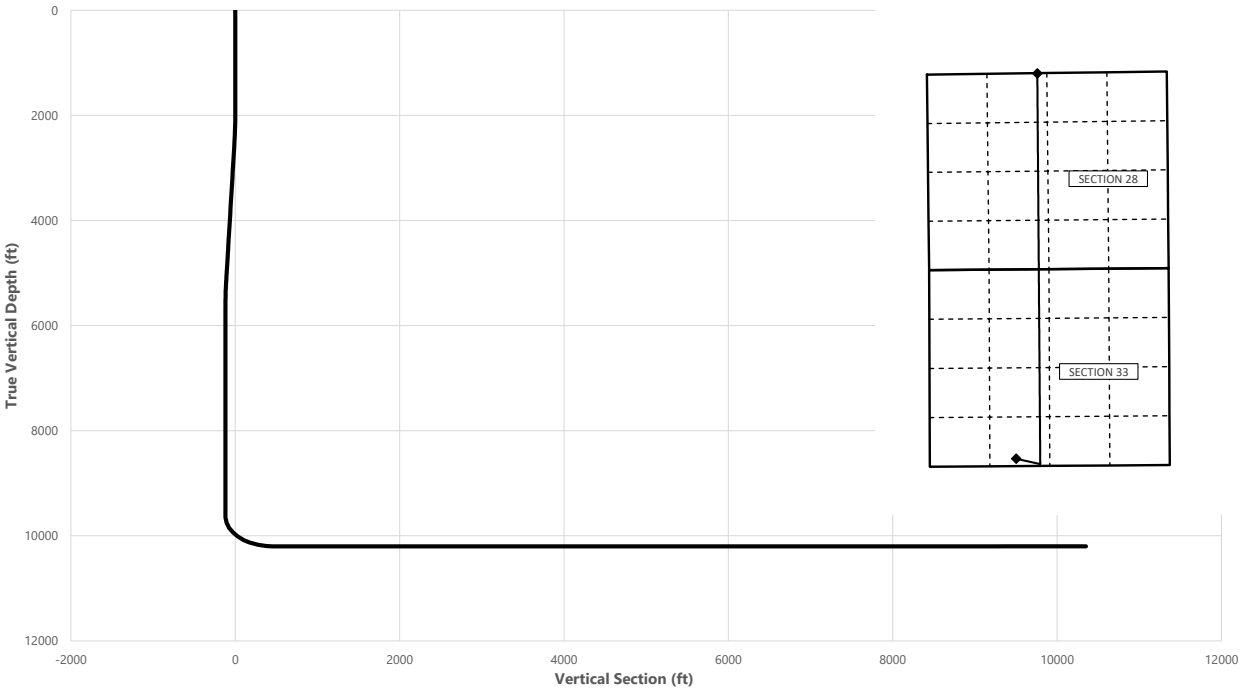
LEGEND
SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	105.10	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	105.10	2497.47	-11.34	42.02	-9.42	2.00	Hold Tangent
5192.60	10.00	105.10	5149.16	-133.14	493.44	-110.58	0.00	Drop to Vertical
5692.60	0.00	105.10	5646.63	-144.48	535.46	-120.00	2.00	Hold Vertical
9673.02	0.00	359.64	9627.04	-144.48	535.46	-120.00	0.00	KOP
10573.02	90.00	359.64	10200.00	428.47	531.91	452.20	10.00	Landing Point
20485.91	90.00	359.64	10200.00	10341.17	470.39	10351.86	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	759.00	759.00
Salt	1135.00	1135.00
Base of Salt	4395.33	4364.00
Delaware	4624.82	4590.00
Cherry Canyon	5555.92	5510.00
Brushy Canyon	6947.98	6902.00
Avalon	8655.98	8610.00
Bone Spring 1st	9565.98	9520.00
Bone Spring 2nd / Point of Penetrati	10276.56	10125.00
exit	20405.91	10200.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0801	-103.6826	200' FSL, 1915' FWL of Sec 33 in T25S, R32E
KOP	9673.02	9627.04	32.0797	-103.6807	50' FSL, 2450' FWL of Sec 33 in T25S, R32E
Point of Penetration	10276.56	10125.00	32.0799	-103.6808	100' FSL, 2450' FWL of Sec 33 in T25S, R32E
Exit	20405.91	10200.01	32.1084	-103.6808	100' FNL , 2450' FWL of Sec 28 in T25S, R32E
BHL	20485.91	10200.00	32.1085	-103.6809	20' FNL, 2450' FWL of Sec 28 in T25S, R32E

	Y	X	MD
KOP	393372.9	743451.7	9673.02

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	105.10	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	105.10	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	105.10	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	105.10	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	105.10	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	105.10	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	105.10	700.00	0.00	0.00	0.00	0.00	
759.00	0.00	105.10	759.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	105.10	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	105.10	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	105.10	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	105.10	1100.00	0.00	0.00	0.00	0.00	
1135.00	0.00	105.10	1135.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	105.10	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	105.10	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	105.10	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	105.10	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	105.10	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	105.10	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	105.10	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	105.10	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	105.10	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	105.10	2099.98	-0.45	1.68	-0.38	2.00	
2200.00	4.00	105.10	2199.84	-1.82	6.74	-1.51	2.00	
2300.00	6.00	105.10	2299.45	-4.09	15.15	-3.40	2.00	
2400.00	8.00	105.10	2398.70	-7.26	26.92	-6.03	2.00	
2500.00	10.00	105.10	2497.47	-11.34	42.02	-9.42	2.00	Hold Tangent
2600.00	10.00	105.10	2595.95	-15.86	58.79	-13.17	0.00	
2700.00	10.00	105.10	2694.43	-20.38	75.55	-16.93	0.00	
2800.00	10.00	105.10	2792.91	-24.91	92.32	-20.69	0.00	
2900.00	10.00	105.10	2891.39	-29.43	109.08	-24.44	0.00	
3000.00	10.00	105.10	2989.87	-33.96	125.85	-28.20	0.00	
3100.00	10.00	105.10	3088.35	-38.48	142.61	-31.96	0.00	
3200.00	10.00	105.10	3186.83	-43.00	159.38	-35.72	0.00	
3300.00	10.00	105.10	3285.31	-47.53	176.14	-39.47	0.00	
3400.00	10.00	105.10	3383.79	-52.05	192.91	-43.23	0.00	
3500.00	10.00	105.10	3482.27	-56.57	209.67	-46.99	0.00	
3600.00	10.00	105.10	3580.75	-61.10	226.44	-50.74	0.00	
3700.00	10.00	105.10	3679.23	-65.62	243.20	-54.50	0.00	
3800.00	10.00	105.10	3777.72	-70.14	259.97	-58.26	0.00	
3900.00	10.00	105.10	3876.20	-74.67	276.73	-62.02	0.00	
4000.00	10.00	105.10	3974.68	-79.19	293.50	-65.77	0.00	
4100.00	10.00	105.10	4073.16	-83.72	310.26	-69.53	0.00	
4200.00	10.00	105.10	4171.64	-88.24	327.03	-73.29	0.00	
4300.00	10.00	105.10	4270.12	-92.76	343.79	-77.04	0.00	
4395.33	10.00	105.10	4364.00	-97.07	359.78	-80.63	0.00	Base of Salt
4400.00	10.00	105.10	4368.60	-97.29	360.56	-80.80	0.00	
4500.00	10.00	105.10	4467.08	-101.81	377.32	-84.56	0.00	
4600.00	10.00	105.10	4565.56	-106.33	394.09	-88.32	0.00	
4624.82	10.00	105.10	4590.00	-107.46	398.25	-89.25	0.00	Delaware
4700.00	10.00	105.10	4664.04	-110.86	410.86	-92.07	0.00	
4800.00	10.00	105.10	4762.52	-115.38	427.62	-95.83	0.00	
4900.00	10.00	105.10	4861.00	-119.90	444.39	-99.59	0.00	
5000.00	10.00	105.10	4959.48	-124.43	461.15	-103.34	0.00	
5100.00	10.00	105.10	5057.97	-128.95	477.92	-107.10	0.00	
5192.60	10.00	105.10	5149.16	-133.14	493.44	-110.58	0.00	Drop to Vertical
5200.00	9.85	105.10	5156.45	-133.47	494.67	-110.86	2.00	
5300.00	7.85	105.10	5255.25	-137.48	509.53	-114.19	2.00	
5400.00	5.85	105.10	5354.53	-140.59	521.05	-116.77	2.00	
5500.00	3.85	105.10	5454.17	-142.79	529.21	-118.60	2.00	
5555.92	2.73	105.10	5510.00	-143.63	532.31	-119.29	2.00	Cherry Canyon
5600.00	1.85	105.10	5554.04	-144.09	534.02	-119.67	2.00	
5692.60	0.00	105.10	5646.63	-144.48	535.46	-120.00	2.00	Hold Vertical
5700.00	0.00	359.64	5654.02	-144.48	535.46	-120.00	0.00	
5800.00	0.00	359.64	5754.02	-144.48	535.46	-120.00	0.00	
5900.00	0.00	359.64	5854.02	-144.48	535.46	-120.00	0.00	
6000.00	0.00	359.64	5954.02	-144.48	535.46	-120.00	0.00	
6100.00	0.00	359.64	6054.02	-144.48	535.46	-120.00	0.00	
6200.00	0.00	359.64	6154.02	-144.48	535.46	-120.00	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.64	6254.02	-144.48	535.46	-120.00	0.00	
6400.00	0.00	359.64	6354.02	-144.48	535.46	-120.00	0.00	
6500.00	0.00	359.64	6454.02	-144.48	535.46	-120.00	0.00	
6600.00	0.00	359.64	6554.02	-144.48	535.46	-120.00	0.00	
6700.00	0.00	359.64	6654.02	-144.48	535.46	-120.00	0.00	
6800.00	0.00	359.64	6754.02	-144.48	535.46	-120.00	0.00	
6900.00	0.00	359.64	6854.02	-144.48	535.46	-120.00	0.00	
6947.98	0.00	359.64	6902.00	-144.48	535.46	-120.00	0.00	Brushy Canyon
7000.00	0.00	359.64	6954.02	-144.48	535.46	-120.00	0.00	
7100.00	0.00	359.64	7054.02	-144.48	535.46	-120.00	0.00	
7200.00	0.00	359.64	7154.02	-144.48	535.46	-120.00	0.00	
7300.00	0.00	359.64	7254.02	-144.48	535.46	-120.00	0.00	
7400.00	0.00	359.64	7354.02	-144.48	535.46	-120.00	0.00	
7500.00	0.00	359.64	7454.02	-144.48	535.46	-120.00	0.00	
7600.00	0.00	359.64	7554.02	-144.48	535.46	-120.00	0.00	
7700.00	0.00	359.64	7654.02	-144.48	535.46	-120.00	0.00	
7800.00	0.00	359.64	7754.02	-144.48	535.46	-120.00	0.00	
7900.00	0.00	359.64	7854.02	-144.48	535.46	-120.00	0.00	
8000.00	0.00	359.64	7954.02	-144.48	535.46	-120.00	0.00	
8100.00	0.00	359.64	8054.02	-144.48	535.46	-120.00	0.00	
8200.00	0.00	359.64	8154.02	-144.48	535.46	-120.00	0.00	
8300.00	0.00	359.64	8254.02	-144.48	535.46	-120.00	0.00	
8400.00	0.00	359.64	8354.02	-144.48	535.46	-120.00	0.00	
8500.00	0.00	359.64	8454.02	-144.48	535.46	-120.00	0.00	
8600.00	0.00	359.64	8554.02	-144.48	535.46	-120.00	0.00	
8655.98	0.00	359.64	8610.00	-144.48	535.46	-120.00	0.00	Avalon
8700.00	0.00	359.64	8654.02	-144.48	535.46	-120.00	0.00	
8800.00	0.00	359.64	8754.02	-144.48	535.46	-120.00	0.00	
8900.00	0.00	359.64	8854.02	-144.48	535.46	-120.00	0.00	
9000.00	0.00	359.64	8954.02	-144.48	535.46	-120.00	0.00	
9100.00	0.00	359.64	9054.02	-144.48	535.46	-120.00	0.00	
9200.00	0.00	359.64	9154.02	-144.48	535.46	-120.00	0.00	
9300.00	0.00	359.64	9254.02	-144.48	535.46	-120.00	0.00	
9400.00	0.00	359.64	9354.02	-144.48	535.46	-120.00	0.00	
9500.00	0.00	359.64	9454.02	-144.48	535.46	-120.00	0.00	
9565.98	0.00	359.64	9520.00	-144.48	535.46	-120.00	0.00	Bone Spring 1st
9600.00	0.00	359.64	9554.02	-144.48	535.46	-120.00	0.00	
9673.02	0.00	359.64	9627.04	-144.48	535.46	-120.00	0.00	KOP
9700.00	2.70	359.64	9654.01	-143.84	535.46	-119.36	10.00	
9800.00	12.70	359.64	9752.99	-130.47	535.37	-106.00	10.00	
9900.00	22.70	359.64	9848.13	-100.10	535.19	-75.68	10.00	
10000.00	32.70	359.64	9936.56	-53.68	534.90	-29.32	10.00	
10100.00	42.70	359.64	10015.59	7.39	534.52	31.67	10.00	
10200.00	52.70	359.64	10082.80	81.26	534.06	105.44	10.00	
10276.56	60.35	359.64	10125.00	145.07	533.66	169.17	10.00	Bone Spring 2nd / Point of Penetration
10300.00	62.70	359.64	10136.17	165.67	533.54	189.74	10.00	
10400.00	72.70	359.64	10174.07	258.07	532.96	282.02	10.00	
10500.00	82.70	359.64	10195.35	355.65	532.36	379.47	10.00	
10573.02	90.00	359.64	10200.00	428.47	531.91	452.20	10.00	Landing Point
10600.00	90.00	359.64	10200.00	455.45	531.74	479.14	0.00	
10700.00	90.00	359.64	10200.00	555.45	531.12	579.01	0.00	
10800.00	90.00	359.64	10200.00	655.45	530.50	678.88	0.00	
10900.00	90.00	359.64	10200.00	755.44	529.88	778.74	0.00	
11000.00	90.00	359.64	10200.00	855.44	529.25	878.61	0.00	
11100.00	90.00	359.64	10200.00	955.44	528.63	978.48	0.00	
11200.00	90.00	359.64	10200.00	1055.44	528.01	1078.34	0.00	
11300.00	90.00	359.64	10200.00	1155.44	527.39	1178.21	0.00	
11400.00	90.00	359.64	10200.00	1255.44	526.77	1278.08	0.00	
11500.00	90.00	359.64	10200.00	1355.43	526.15	1377.94	0.00	
11600.00	90.00	359.64	10200.00	1455.43	525.53	1477.81	0.00	
11700.00	90.00	359.64	10200.00	1555.43	524.91	1577.68	0.00	
11800.00	90.00	359.64	10200.00	1655.43	524.29	1677.54	0.00	
11900.00	90.00	359.64	10200.00	1755.43	523.66	1777.41	0.00	
12000.00	90.00	359.64	10200.00	1855.42	523.04	1877.27	0.00	
12100.00	90.00	359.64	10200.00	1955.42	522.42	1977.14	0.00	
12200.00	90.00	359.64	10200.00	2055.42	521.80	2077.01	0.00	
12300.00	90.00	359.64	10200.00	2155.42	521.18	2176.87	0.00	
12400.00	90.00	359.64	10200.00	2255.42	520.56	2276.74	0.00	
12500.00	90.00	359.64	10200.00	2355.41	519.94	2376.61	0.00	
12600.00	90.00	359.64	10200.00	2455.41	519.32	2476.47	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12700.00	90.00	359.64	10200.00	2555.41	518.70	2576.34	0.00	
12800.00	90.00	359.64	10200.00	2655.41	518.07	2676.21	0.00	
12900.00	90.00	359.64	10200.00	2755.41	517.45	2776.07	0.00	
13000.00	90.00	359.64	10200.00	2855.40	516.83	2875.94	0.00	
13100.00	90.00	359.64	10200.00	2955.40	516.21	2975.81	0.00	
13200.00	90.00	359.64	10200.00	3055.40	515.59	3075.67	0.00	
13300.00	90.00	359.64	10200.00	3155.40	514.97	3175.54	0.00	
13400.00	90.00	359.64	10200.00	3255.40	514.35	3275.41	0.00	
13500.00	90.00	359.64	10200.00	3355.39	513.73	3375.27	0.00	
13600.00	90.00	359.64	10200.00	3455.39	513.11	3475.14	0.00	
13700.00	90.00	359.64	10200.00	3555.39	512.48	3575.01	0.00	
13800.00	90.00	359.64	10200.00	3655.39	511.86	3674.87	0.00	
13900.00	90.00	359.64	10200.00	3755.39	511.24	3774.74	0.00	
14000.00	90.00	359.64	10200.00	3855.38	510.62	3874.61	0.00	
14100.00	90.00	359.64	10200.00	3955.38	510.00	3974.47	0.00	
14200.00	90.00	359.64	10200.00	4055.38	509.38	4074.34	0.00	
14300.00	90.00	359.64	10200.00	4155.38	508.76	4174.21	0.00	
14400.00	90.00	359.64	10200.00	4255.38	508.14	4274.07	0.00	
14500.00	90.00	359.64	10200.00	4355.38	507.52	4373.94	0.00	
14600.00	90.00	359.64	10200.00	4455.37	506.89	4473.80	0.00	
14700.00	90.00	359.64	10200.00	4555.37	506.27	4573.67	0.00	
14800.00	90.00	359.64	10200.01	4655.37	505.65	4673.54	0.00	
14900.00	90.00	359.64	10200.01	4755.37	505.03	4773.40	0.00	
15000.00	90.00	359.64	10200.01	4855.37	504.41	4873.27	0.00	
15100.00	90.00	359.64	10200.01	4955.36	503.79	4973.14	0.00	
15200.00	90.00	359.64	10200.01	5055.36	503.17	5073.00	0.00	
15300.00	90.00	359.64	10200.01	5155.36	502.55	5172.87	0.00	
15400.00	90.00	359.64	10200.01	5255.36	501.93	5272.74	0.00	
15500.00	90.00	359.64	10200.01	5355.36	501.30	5372.60	0.00	
15600.00	90.00	359.64	10200.01	5455.35	500.68	5472.47	0.00	
15700.00	90.00	359.64	10200.01	5555.35	500.06	5572.34	0.00	
15800.00	90.00	359.64	10200.01	5655.35	499.44	5672.20	0.00	
15900.00	90.00	359.64	10200.01	5755.35	498.82	5772.07	0.00	
16000.00	90.00	359.64	10200.01	5855.35	498.20	5871.94	0.00	
16100.00	90.00	359.64	10200.01	5955.34	497.58	5971.80	0.00	
16200.00	90.00	359.64	10200.01	6055.34	496.96	6071.67	0.00	
16300.00	90.00	359.64	10200.01	6155.34	496.34	6171.54	0.00	
16400.00	90.00	359.64	10200.01	6255.34	495.71	6271.40	0.00	
16500.00	90.00	359.64	10200.01	6355.34	495.09	6371.27	0.00	
16600.00	90.00	359.64	10200.01	6455.33	494.47	6471.14	0.00	
16700.00	90.00	359.64	10200.01	6555.33	493.85	6571.00	0.00	
16800.00	90.00	359.64	10200.01	6655.33	493.23	6670.87	0.00	
16900.00	90.00	359.64	10200.01	6755.33	492.61	6770.74	0.00	
17000.00	90.00	359.64	10200.01	6855.33	491.99	6870.60	0.00	
17100.00	90.00	359.64	10200.01	6955.33	491.37	6970.47	0.00	
17200.00	90.00	359.64	10200.01	7055.32	490.75	7070.34	0.00	
17300.00	90.00	359.64	10200.01	7155.32	490.12	7170.20	0.00	
17400.00	90.00	359.64	10200.01	7255.32	489.50	7270.07	0.00	
17500.00	90.00	359.64	10200.01	7355.32	488.88	7369.93	0.00	
17600.00	90.00	359.64	10200.01	7455.32	488.26	7469.80	0.00	
17700.00	90.00	359.64	10200.01	7555.31	487.64	7569.67	0.00	
17800.00	90.00	359.64	10200.01	7655.31	487.02	7669.53	0.00	
17900.00	90.00	359.64	10200.01	7755.31	486.40	7769.40	0.00	
18000.00	90.00	359.64	10200.01	7855.31	485.78	7869.27	0.00	
18100.00	90.00	359.64	10200.01	7955.31	485.16	7969.13	0.00	
18200.00	90.00	359.64	10200.01	8055.30	484.54	8069.00	0.00	
18300.00	90.00	359.64	10200.01	8155.30	483.91	8168.87	0.00	
18400.00	90.00	359.64	10200.01	8255.30	483.29	8268.73	0.00	
18500.00	90.00	359.64	10200.01	8355.30	482.67	8368.60	0.00	
18600.00	90.00	359.64	10200.01	8455.30	482.05	8468.47	0.00	
18700.00	90.00	359.64	10200.01	8555.29	481.43	8568.33	0.00	
18800.00	90.00	359.64	10200.01	8655.29	480.81	8668.20	0.00	
18900.00	90.00	359.64	10200.01	8755.29	480.19	8768.07	0.00	
19000.00	90.00	359.64	10200.01	8855.29	479.57	8867.93	0.00	
19100.00	90.00	359.64	10200.01	8955.29	478.95	8967.80	0.00	
19200.00	90.00	359.64	10200.01	9055.28	478.32	9067.67	0.00	
19300.00	90.00	359.64	10200.01	9155.28	477.70	9167.53	0.00	
19400.00	90.00	359.64	10200.01	9255.28	477.08	9267.40	0.00	
19500.00	90.00	359.64	10200.01	9355.28	476.46	9367.27	0.00	
19600.00	90.00	359.64	10200.01	9455.28	475.84	9467.13	0.00	

devon

Well: VAN DOO DAH 33-28 FED COM 222H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19700.00	90.00	359.64	10200.01	9555.27	475.22	9567.00	0.00	
19800.00	90.00	359.64	10200.01	9655.27	474.60	9666.87	0.00	
19900.00	90.00	359.64	10200.01	9755.27	473.98	9766.73	0.00	
20000.00	90.00	359.64	10200.01	9855.27	473.36	9866.60	0.00	
20100.00	90.00	359.64	10200.01	9955.27	472.73	9966.47	0.00	
20200.00	90.00	359.64	10200.01	10055.27	472.11	10066.33	0.00	
20300.00	90.00	359.64	10200.01	10155.26	471.49	10166.20	0.00	
20400.00	90.00	359.64	10200.01	10255.26	470.87	10266.06	0.00	
20405.91	90.00	359.64	10200.01	10261.17	470.83	10271.97	0.00	exit
20485.91	90.00	359.64	10200.00	10341.17	470.39	10351.86	0.00	BHL

VAN DOO DAH 33-28 FED COM 222H

1. Geologic Formations

TVD of target	10200	Pilot hole depth	N/A
MD at TD:	20486	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	759		
Salt	1135		
Base of Salt	4364		
Delaware	4590		
Cherry Canyon	5510		
Brushy Canyon	6902		
Avalon	8610		
Bone Spring 1st	9520		
Bone Spring 2nd	10125		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

VAN DOO DAH 33-28 FED COM 222H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	829	0	829
9 7/8	8 5/8	32	J-55	GEOCONN	0	4464	0	4464
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	20486	0	10200

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	638	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	278	Surf	9.0	3.3	Lead: Class C Cement + additives
	67	3964	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	361	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	278	Surf	9.0	3.3	Lead: Class C Cement + additives
	67	3964	13.2	1.4	Tail: Class H / C + additives
Production	333	3964	9.0	3.3	Lead: Class H /C + additives
	1431	9673	13.2	1.4	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

VAN DOO DAH 33-28 FED COM 222H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

VAN DOO DAH 33-28 FED COM 222H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing
	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4774
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
    a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
    a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
_____ Other, describe

Van Doo Dah 33-28 Fed Com 839H

13 3/8		surface csg in a	17 1/2	inch hole.		Design Factors				Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50		j 55	btc	14.70	2.27	1.12	1,065	6	1.88	4.29	58,043
"B"				btc				0				0
		w/8.4#/g mud, 30min Sfc Csg Test psig: 1,446		Tail Cmt	does not	circ to sfc.	Totals:	1,065				58,043

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	638	893	740	21	9.00	1453	2M	1.56

8 5/8		casing inside the	13 3/8			Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		j 55	geoconn	2.89	1.04	0.82	4,464	2	1.56	1.74	142,848
"B"								0				0
		w/8.4#/g mud, 30min Sfc Csg Test psig: 803					Totals:	4,464				142,848
		The cement volume(s) are intended to achieve a top of			0	ft from surface or a		1065				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	345	1011	921	10	10.50	2525	3M	0.44
D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
by stage % :		#VALUE!	#VALUE!				345	1011	10

Class 'C' tail cmt yld > 1.35

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.88, b, c, d All > 0.70, OK.

5 1/2		casing inside the	8 5/8			Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	dwc/c is+	3.57	2.54	3.01	20,486	3	5.69	4.79	409,720
"B"								0				0
"C"								0				0
"D"								0				0
		w/8.4#/g mud, 30min Sfc Csg Test psig: 2,244					Totals:	20,486				409,720
		The cement volume(s) are intended to achieve a top of			4264	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	1764	3102	2811	10	9.00			0.79

Class 'C' tail cmt yld > 1.35

#N/A

0			5 1/2			Design Factors				<Choose Casing>		
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
		w/8.4#/g mud, 30min Sfc Csg Test psig:					Totals:	0				0
		Cmt vol calc below includes this csg, TOC intended			#N/A	ft from surface or a		#N/A				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A				

#N/A Capitan Reef est top XXXX.

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

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 537188
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

COMMENTS

Action 537188

COMMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 537188
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-025-54967	1/21/2026

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

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 537188
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
bamy	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/23/2025
bamy	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/23/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/21/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	1/21/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/21/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/21/2026
jeffrey.harrison	Cement must be in place for at least 8 hours and achieve a minimum compressive strength of 500 psi before performing further operations on the well.	1/21/2026
jeffrey.harrison	Administrative order required for non-standard location prior to production.	1/21/2026