

Form 3160-3  
(October 2024)

**\*Please refer to approved NOI appended to this application for the most current well design**

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**

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

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

**613H**  
9. API Well No.  
**30-015-58087**

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

10. Field and Pool, or Exploratory

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.



(Continued on page 2)

\*(Instructions on page 2)

C-102  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July, 2024  Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
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**WELL LOCATION INFORMATION**

API Number	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP
Property Code <del>246289</del>	Property Name FRONTIER 33-32 FED COM	Well Number 604H
OGRID No.	Operator Name WPX PERMIAN ENERGY, LLC	Ground Level Elevation 3360.9'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	33	23-S	26-E		1360' S	259' E	32.257192	104.290425	EDDY

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	23-S	26-E		900' S	20' W	32.255793	104.323897	EDDY

Dedicated Acres 640	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) NO	Consolidation Code C; PENDING NSL
Order Numbers			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	33	23-S	26-E		900' S	50' E	32.255930	104.289741	EDDY

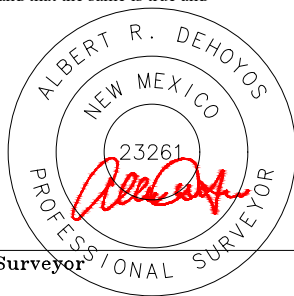
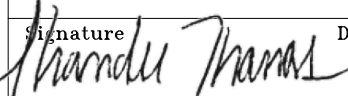
**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	33	23-S	26-E		900' S	100' E	32.255930	104.289902	EDDY

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	23-S	26-E		900' S	100' W	32.255794	104.323638	EDDY

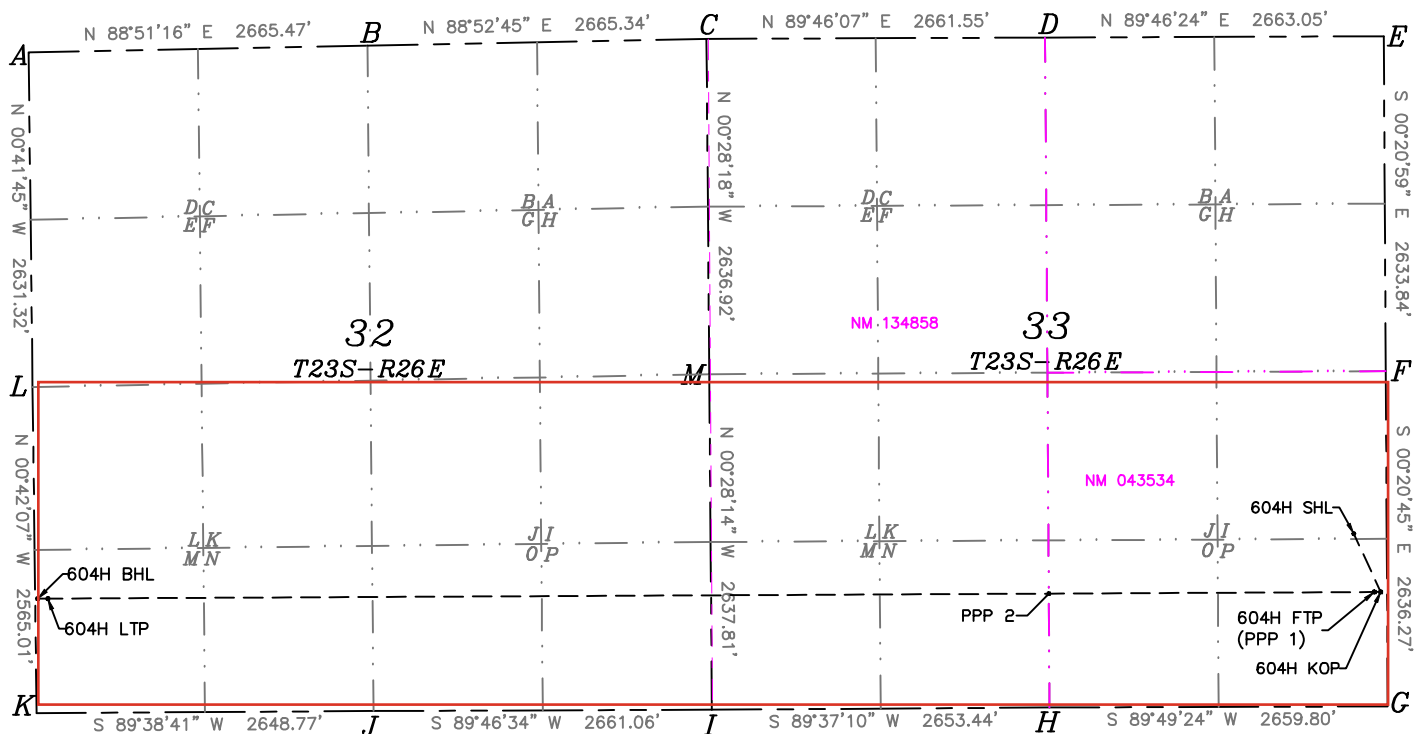
Spacing Unit Type Horizontal Vertical <b>HORIZONTAL</b>	Ground Floor Elevation:
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<p><b>OPERATOR CERTIFICATIONS</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>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.</p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief.</p> <div style="text-align: center;">  </div>
Signature  Date 2/3/25	Signature and Seal of Professional Surveyor
Printed Name SHANDEE THOMAS  Email Address SHANDEE.THOMAS@DVN.COM	Certificate Number 23261  Date of Survey 01/2025

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.



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A=N:461086.75/E:544182.17
B=N:461140.04/E:544684.7.10
C=N:461192.18/E:549511.93
D=N:461202.92/E:552173.46
E=N:461213.46/E:554836.49
F=N:458579.67/E:554852.57
G=N:455943.44/E:554868.48
H=N:455935.25/E:552208.69
I=N:455917.63/E:549555.30
J=N:455907.23/E:546894.26
K=N:455890.81/E:544245.55
L=N:458455.63/E:544214.13
M=N:458555.34/E:549533.64

<p><b>SURFACE HOLE LOCATION</b>                  GEODETIC COORDINATES NAD 83                  NMSP EAST SURFACE LOCATION                  1360' FSL 259' FEL SECTION 33                  EL: 3360.9                  N:457302.19/E:554601.46                  LAT:32.257192/LON:104.290425</p>	<p><b>KICK OFF POINT</b>                  900' FSL 50' FEL SECTION 33                  N:456843.28/E:554813.05                  LAT:32.255930/LON:104.289741</p>	<p><b>FIRST TAKE POINT</b>                  900' FSL 100' FEL SECTION 33                  N:456843.13/E:554763.05                  LAT:32.255930/LON:104.289902</p>	<p><b>LAST TAKE POINT</b>                  900' FSL 100' FWL SECTION 32                  N:456791.38/E:544334.53                  LAT:32.255794/LON:104.323638</p>	<p><b>BOTTOM HOLE LOCATION</b>                  900' FSL 20' FWL SECTION 32                  N:456790.89/E:544254.53                  LAT:32.255793/LON:104.323897</p>
<p><b>PPP 2</b>                  895' FSL 2660' FEL SECTION 33                  N:456830.43/E:552203.39                  LAT:32.255897/LON:104.298183</p>				

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:** 1 / 22 / 2025

**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	API	ULSTR & FOOTAGE	Anticipated Gas/Oil/Water	Central Delivery Point Name:
FRONTIER 33-32 FED COM 223H	n/a	33-23S-26E, 1540 FSL & 259 FEL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	FRONTIER 33 CTB 2
FRONTIER 33-32 FED COM 224H	n/a	33-23S-26E, 1480 FSL & 259 FEL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	FRONTIER 33 CTB 2
FRONTIER 33-32 FED COM 603H	n/a	33-23S-26E, 1570 FSL & 259 FEL	(+/-)2995mcf/(+/-)1245bopd/(+/-)3115bwpd	FRONTIER 33 CTB 2
FRONTIER 33-32 FED COM 604H	n/a	33-23S-26E, 1510 FSL & 259 FEL	(+/-)2995mcf/(+/-)1245bopd/(+/-)3115bwpd	FRONTIER 33 CTB 2
FRONTIER 33-32 STATE FED COM 221H	n/a	33-23S-26E, 472 FNL & 1160 FEL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	FRONTIER 33 CTB 1
FRONTIER 33-32 STATE FED COM 222H	n/a	33-23S-26E, 532 FNL & 1160 FEL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	FRONTIER 33 CTB 1
FRONTIER 33-32 STATE FED COM 601H	n/a	33-23S-26E, 441 FNL & 1160 FEL	(+/-)2995mcf/(+/-)1245bopd/(+/-)3115bwpd	FRONTIER 33 CTB 1
FRONTIER 33-32 STATE FED COM 602H	n/a	33-23S-26E, 502 FNL & 1160 FEL	(+/-)2995mcf/(+/-)1245bopd/(+/-)3115bwpd	FRONTIER 33 CTB 1

**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
FRONTIER 33-32 FED COM 223H	n/a	01/23/27	2/22/2027	6/22/2027	6/22/2027	6/22/2027
FRONTIER 33-32 FED COM 224H	n/a	01/23/27	2/22/2027	6/22/2027	6/22/2027	6/22/2027
FRONTIER 33-32 FED COM 603H	n/a	09/25/25	10/25/2025	2/22/2026	2/22/2026	2/22/2026
FRONTIER 33-32 FED COM 604H	n/a	09/10/25	10/10/2025	2/7/2026	2/7/2026	2/7/2026
FRONTIER 33-32 STATE FED COM 221H	n/a	01/23/27	2/22/2027	6/22/2027	6/22/2027	6/22/2027
FRONTIER 33-32 STATE FED COM 222H	n/a	01/23/27	2/22/2027	6/22/2027	6/22/2027	6/22/2027
FRONTIER 33-32 STATE FED COM 601H	n/a	09/07/25	10/7/2025	2/4/2026	2/4/2026	2/4/2026
FRONTIER 33-32 STATE FED COM 602H	n/a	09/22/25	10/22/2025	2/19/2026	2/19/2026	2/19/2026

\* Dates 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

D 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:	Jeffrey Walla
Title:	Surface Land & Regulatory Manager
E-mail Address:	jeff.walla@dvn.com
Date:	
Phone:	(405) 552-8154
<b>OIL CONSERVATION DIVISION</b> (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.



Devon Energy Production Company, L.P.  
 333 W. Sheridan Avenue  
 Oklahoma City, Oklahoma  
 73102  
 Phone: (405) 228-4800

### WASTE MINIMIZATION PLAN

Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

- (1) initial oil production estimates and decline,
- (2) initial gas production estimates and decline,
- (3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas, and
- (4) any other information demonstrating the operator's plans to avoid the waste of gas.

(1), (2) 3 year Oil and Gas decline curves: Bone Spring and Wolfcamp formation decline curves below supply Year 1, 2, 3 cumulative values for oil and gas, in range format; based on peak IP rates for oil and gas based on Devon Energy Production Company, L.P. operated wells ID post 1/2019, 10K LL norm, P90-10 ranges, annualized rates. Please refer to NGMP for table of initial oil and gas volumes.

Bone Spring

Formation	BONE SPRING		
Row Labels	Average of Oil Lease Volumes [bbl]	Average of Raw Gas Lease Volumes [McF]	
1	19,395	42,532	
2	25,235	96,620	
3	27,075	67,525	
4	21,078	57,655	
5	18,900	51,655	
6	15,820	46,275	
7	13,959	42,295	
8	12,424	38,696	
9	11,573	37,367	
10	10,659	35,824	
11	9,741	33,980	
12	9,337	33,094	
13	8,588	30,966	
14	8,233	30,638	
15	7,655	29,293	
16	7,196	27,837	
17	6,769	25,691	
18	6,391	24,902	
19	6,288	24,863	
20	6,089	23,769	
21	5,776	23,100	
22	5,411	22,178	
23	5,101	21,196	
24	5,029	20,988	
25	4,740	20,122	
26	4,539	19,322	
27	4,478	18,623	
28	4,424	18,634	
29	4,241	18,585	
30	4,194	18,114	
31	4,105	17,870	
32	3,536	17,440	
33	3,782	16,732	
34	3,649	16,145	
35	3,576	15,571	
36	3,596	15,727	
<b>Grand Total</b>	<b>9,261</b>	<b>30,347</b>	



Wolfcamp

Formation	WOLF CAMP		
Row Labels	Average of Oil Lease Volumes [bbl]	Average of Raw Gas Lease Volumes [McF]	
1	20,900	68,190	
2	28,696	125,577	
3	29,291	97,071	
4	23,540	81,026	
5	19,277	67,504	
6	16,103	57,289	
7	14,454	51,967	
8	13,083	47,226	
9	11,979	43,012	
10	10,994	40,270	
11	10,469	40,336	
12	9,779	37,823	
13	9,240	36,371	
14	8,824	34,874	
15	7,883	31,771	
16	7,462	29,739	
17	7,007	29,445	
18	6,847	27,480	
19	6,696	27,791	
20	6,399	26,302	
21	6,154	26,419	
22	5,996	25,044	
23	5,670	24,154	
24	5,393	23,334	
25	5,160	22,102	
26	5,074	22,069	
27	4,986	21,678	
28	4,824	21,024	
29	4,637	19,807	
30	4,480	19,172	
31	4,273	18,370	
32	4,218	18,642	
33	4,201	18,901	
34	3,995	17,966	
35	3,830	17,586	
36	3,815	16,957	
<b>Grand Total</b>	<b>9,895</b>	<b>37,606</b>	



(3) Certification (NGMP Section 3 – Certification): Operator (Devon Energy Production Company, L.P.) 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;

(4) Addl waste avoidance information: Refer to NGMP Sec. VII. Operational Practices & VIII. Best Management Practices during Maintenance



FRONTIER 33-32 FED COM 604H

**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)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	150	0	150
9 7/8	8 5/8	32	P110HSCY	MOFXL	0	1850	0	1850
7 7/8	5 1/2	20	P110EC	DWC/IS-C+	0	19076	0	8722

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

**3. Cementing Program (Primary Design)**

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	111	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	236	0	13.2	1.44	Tail: Class H / C + additives
Production	564	0	9	3.27	Lead: Class H / C + additives
	1703	8191	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

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.

**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 (5M)	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*			
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					

**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 Report and submitted 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
X	Mud log	Intermediate shoe to TD
	PEX	

**7. Drilling Conditions**

Condition	Specify what type and where?
BH pressure at deepest TVD	4762
Abnormal temperature	No

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

Hydrogen 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 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 nipped 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

**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

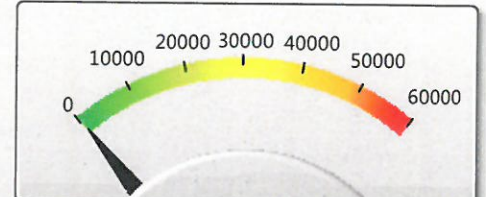
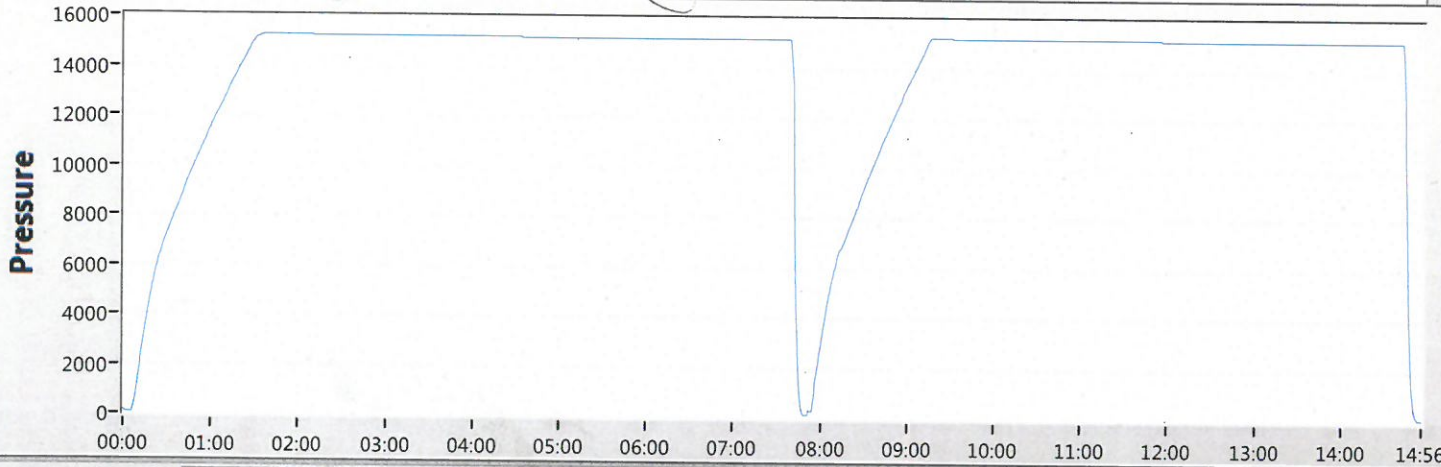
Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular  
 Remaining well control equipment components will either be tested offline or online, per BLM approval  
 Remaining BOPE will be tested online within 72-hours form completing 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  
E Bell

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

## **Offline Cementing**

### Variance Request

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 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.

<b>Intermediate Casing Burst Design</b>		
<b>Load Case</b>	<b>External Pressure</b>	<b>Internal Pressure</b>
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

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

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



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Devon Energy Production Company, L.P.  
333 W. Sheridan Avenue  
Oklahoma City, Oklahoma  
73102  
Phone: (405) 228-4800

### PFAS Certification Statement

Per 19.15.7.16 NMAC , Order R-23824, Devon Energy Production Company, L.P./WPX certifies no addition of PFAS chemicals to fluids used in the completion or recompletion of the subject well.

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.

<b>Production Casing Burst Design</b>		
<b>Load Case</b>	<b>External Pressure</b>	<b>Internal Pressure</b>
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

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

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

## **Devon Energy** **APD VARIANCE DATA**

**OPERATOR NAME:** Devon Energy

### **1. SUMMARY OF Variance:**

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

### **2. Description of Operations**

1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
  - a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - b. Rig will utilize fresh water based mud to drill surface hole to TD.
2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
6. Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

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.

<b>Surface Casing Burst Design</b>		
<b>Load Case</b>	<b>External Pressure</b>	<b>Internal Pressure</b>
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

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

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



# Drilling Plan Data Report

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

01/29/2026

APD ID: 10400103689

Submission Date: 02/11/2025

Highlighted data reflects the most recent changes

Operator Name: WPX ENERGY PERMIAN LLC

Well Name: FRONTIER 33-32 FED COM

Well Number: 604H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

**\*Please refer to approved NOI appended to this application for the most current well design**

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17286965	UNKNOWN	3114	0	0	OTHER : Surface	NONE	N
17286967	RUSTLER	3064	50	50	SANDSTONE	NONE	N
17286947	TOP OF SALT	2614	500	500	SALT	NONE	N
17286948	BASE OF SALT	1441	1673	1673	ANHYDRITE	NONE	N
17286950	LAMAR	1400	1714	1714	SANDSTONE	NATURAL GAS, OIL	N
17286951	DELAWARE	1214	1900	1900	SHALE	NATURAL GAS, OIL	N
17286964	CHERRY CANYON	514	2600	2600	SANDSTONE	NATURAL GAS, OIL	N
17286945	BRUSHY CANYON	-601	3715	3715	SANDSTONE	NATURAL GAS, OIL	N
17286943	BONE SPRING LIME	-2167	5281	5281	LIMESTONE	NATURAL GAS, OIL	N
17286946	BONE SPRING 1ST	-3092	6206	6206	SANDSTONE	NATURAL GAS, OIL	N
17286956	BONE SPRING LIME	-3300	6414	6414	LIMESTONE	NATURAL GAS, OIL	N
17286957	BONE SPRING 2ND	-3418	6532	6532	SANDSTONE	NATURAL GAS, OIL	N
17286958	BONE SPRING LIME	-3684	6798	6798	LIMESTONE	NATURAL GAS, OIL	N
17286959	BONE SPRING 3RD	-5154	8268	8268	SANDSTONE	NATURAL GAS, OIL	N
17286960	WOLFCAMP	-5524	8638	8638	SHALE	NATURAL GAS, OIL	Y
17286961	STRAWN	-7284	10398	10398	LIMESTONE	NATURAL GAS, OIL	N

## Section 2 - Blowout Prevention



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.

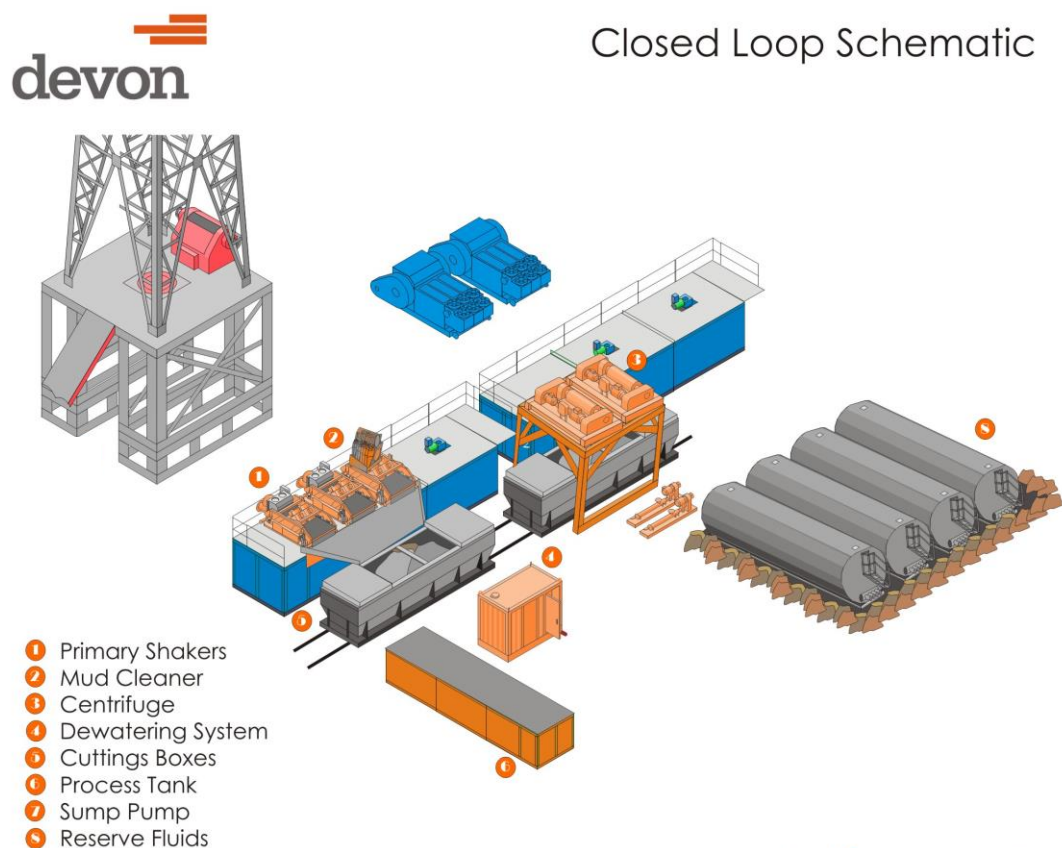
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.



**Mi SWACO**

**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.

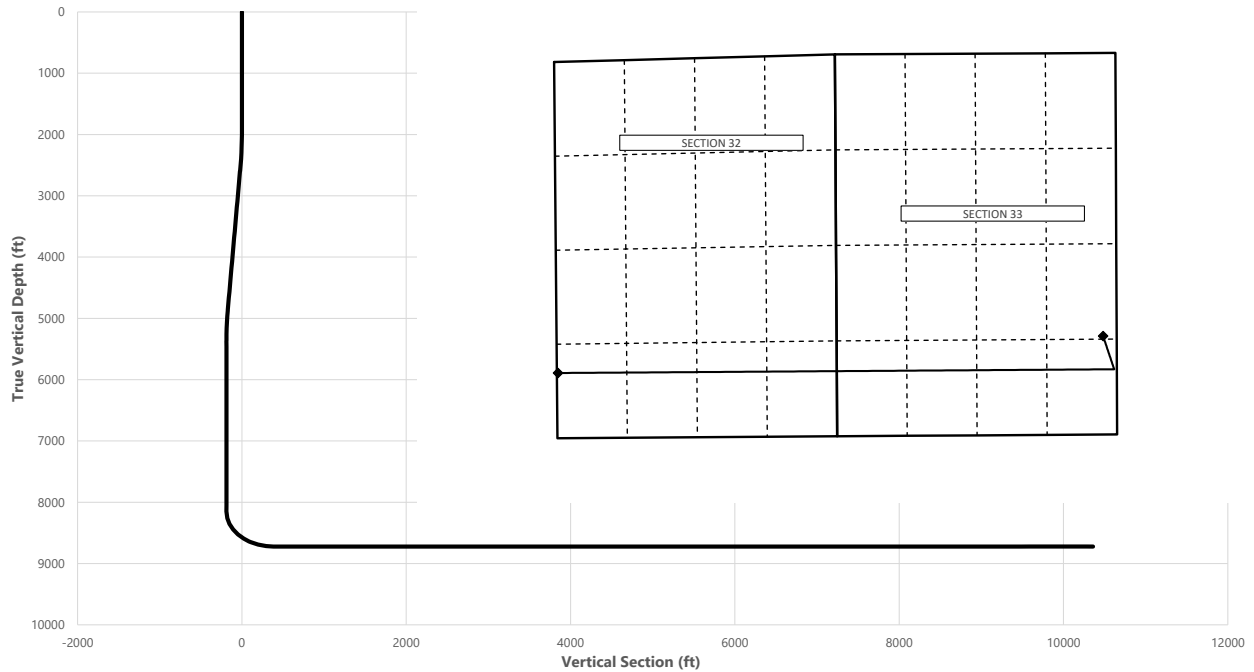


Well: FRONTIER 33-32 FED COM 604H  
 County: Eddy  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

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	155.30	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	155.30	2497.47	-39.54	18.19	-16.21	2.00	Hold Tangent
4912.64	10.00	155.30	4873.45	-420.16	193.25	-172.28	0.00	Drop to Vertical
5412.64	0.00	155.30	5370.92	-459.70	211.44	-188.49	2.00	Hold Vertical
8190.76	0.00	269.72	8149.04	-459.70	211.44	-188.49	0.00	KOP
9090.76	90.00	269.72	8722.00	-462.50	-361.51	383.90	10.00	Landing Point
19076.30	90.00	269.72	8722.00	-511.30	-10346.93	10359.56	0.00	BHL

**\*Please refer to approved NOI appended to this application for the most current well design**



Key Depths	MD (ft)	TVD (ft)
Rustler	50.00	50.00
Salt	500.00	500.00
Base of Salt	1673.00	1673.00
Delaware	1900.00	1900.00
Cherry Canyon	2604.12	2600.00
Brushy Canyon	3736.32	3715.00
1st Bone Spring Lime	5322.71	5281.00
Bone Spring 1st	6247.72	6206.00
2BSLM	6455.72	6414.00
Bone Spring 2nd	6573.72	6532.00
3BSLM	6839.72	6798.00
Bone Spring 3rd	8310.59	8268.00
Wolfcamp / Point of Penetration	8776.59	8638.00
exit	18996.30	8722.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.2571	-104.2905	1360' FSL, 259' FEL of Sec 33 in T23S, R26E
KOP	8190.76	8149.04	32.2558	-104.2898	900' FSL, 50' FEL of Sec 33 in T23S, R26E
Point of Penetration	8776.59	8638.00	32.2559	-104.2899	900' FSL, 100' FEL of Sec 33 in T23S, R26E
Exit	18996.30	8722.01	32.2558	-104.3236	900' FSL, 100' FWL of Sec 32 in T23S, R26E
BHL	19076.30	8722.00	32.2557	-104.3240	900' FSL, 20' FWL of Sec 32 in T23S, R26E

	Y	X	MD
KOP	456842	554813	8190.76



Well: FRONTIER 33-32 FED COM 604H  
 County: Eddy  
 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
50.00	0.00	155.30	50.00	0.00	0.00	0.00	0.00	Rustler
100.00	0.00	155.30	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	155.30	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	155.30	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	155.30	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	155.30	500.00	0.00	0.00	0.00	0.00	Salt,
600.00	0.00	155.30	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	155.30	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	155.30	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	155.30	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	155.30	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	155.30	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	155.30	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	155.30	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	155.30	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	155.30	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	155.30	1600.00	0.00	0.00	0.00	0.00	
1673.00	0.00	155.30	1673.00	0.00	0.00	0.00	0.00	Base of Salt
1700.00	0.00	155.30	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	155.30	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	155.30	1900.00	0.00	0.00	0.00	0.00	Delaware,
2000.00	0.00	155.30	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	155.30	2099.98	-1.59	0.73	-0.65	2.00	
2200.00	4.00	155.30	2199.84	-6.34	2.92	-2.60	2.00	
2300.00	6.00	155.30	2299.45	-14.26	6.56	-5.85	2.00	
2400.00	8.00	155.30	2398.70	-25.33	11.65	-10.39	2.00	
2500.00	10.00	155.30	2497.47	-39.54	18.19	-16.21	2.00	Hold Tangent
2600.00	10.00	155.30	2595.95	-55.32	25.44	-22.68	0.00	
2604.12	10.00	155.30	2600.00	-55.97	25.74	-22.95	0.00	Cherry Canyon
2700.00	10.00	155.30	2694.43	-71.09	32.70	-29.15	0.00	
2800.00	10.00	155.30	2792.91	-86.87	39.96	-35.62	0.00	
2900.00	10.00	155.30	2891.39	-102.64	47.21	-42.09	0.00	
3000.00	10.00	155.30	2989.87	-118.42	54.47	-48.56	0.00	
3100.00	10.00	155.30	3088.35	-134.20	61.72	-55.03	0.00	
3200.00	10.00	155.30	3186.83	-149.97	68.98	-61.49	0.00	
3300.00	10.00	155.30	3285.31	-165.75	76.24	-67.96	0.00	
3400.00	10.00	155.30	3383.79	-181.53	83.49	-74.43	0.00	
3500.00	10.00	155.30	3482.27	-197.30	90.75	-80.90	0.00	
3600.00	10.00	155.30	3580.75	-213.08	98.01	-87.37	0.00	
3700.00	10.00	155.30	3679.23	-228.85	105.26	-93.84	0.00	
3736.32	10.00	155.30	3715.00	-234.58	107.90	-96.19	0.00	Brushy Canyon
3800.00	10.00	155.30	3777.72	-244.63	112.52	-100.31	0.00	
3900.00	10.00	155.30	3876.20	-260.41	119.77	-106.77	0.00	
4000.00	10.00	155.30	3974.68	-276.18	127.03	-113.24	0.00	
4100.00	10.00	155.30	4073.16	-291.96	134.29	-119.71	0.00	
4200.00	10.00	155.30	4171.64	-307.73	141.54	-126.18	0.00	
4300.00	10.00	155.30	4270.12	-323.51	148.80	-132.65	0.00	
4400.00	10.00	155.30	4368.60	-339.29	156.05	-139.12	0.00	
4500.00	10.00	155.30	4467.08	-355.06	163.31	-145.59	0.00	
4600.00	10.00	155.30	4565.56	-370.84	170.57	-152.06	0.00	
4700.00	10.00	155.30	4664.04	-386.61	177.82	-158.52	0.00	
4800.00	10.00	155.30	4762.52	-402.39	185.08	-164.99	0.00	
4900.00	10.00	155.30	4861.00	-418.17	192.34	-171.46	0.00	
4912.64	10.00	155.30	4873.45	-420.16	193.25	-172.28	0.00	Drop to Vertical
5000.00	8.25	155.30	4959.70	-432.75	199.04	-177.44	2.00	
5100.00	6.25	155.30	5058.90	-444.22	204.32	-182.14	2.00	
5200.00	4.25	155.30	5158.47	-452.54	208.14	-185.55	2.00	
5300.00	2.25	155.30	5258.31	-457.69	210.51	-187.67	2.00	
5322.71	1.80	155.30	5281.00	-458.42	210.85	-187.97	2.00	1st Bone Spring Lime
5400.00	0.25	155.30	5358.28	-459.68	211.43	-188.48	2.00	
5412.64	0.00	155.30	5370.92	-459.70	211.44	-188.49	2.00	Hold Vertical
5500.00	0.00	269.72	5458.28	-459.70	211.44	-188.49	0.00	
5600.00	0.00	269.72	5558.28	-459.70	211.44	-188.49	0.00	
5700.00	0.00	269.72	5658.28	-459.70	211.44	-188.49	0.00	
5800.00	0.00	269.72	5758.28	-459.70	211.44	-188.49	0.00	
5900.00	0.00	269.72	5858.28	-459.70	211.44	-188.49	0.00	
6000.00	0.00	269.72	5958.28	-459.70	211.44	-188.49	0.00	
6100.00	0.00	269.72	6058.28	-459.70	211.44	-188.49	0.00	
6200.00	0.00	269.72	6158.28	-459.70	211.44	-188.49	0.00	



**Well:** FRONTIER 33-32 FED COM 604H  
**County:** Eddy  
**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
6247.72	0.00	269.72	6206.00	-459.70	211.44	-188.49	0.00	Bone Spring 1st
6300.00	0.00	269.72	6258.28	-459.70	211.44	-188.49	0.00	
6400.00	0.00	269.72	6358.28	-459.70	211.44	-188.49	0.00	
6455.72	0.00	269.72	6414.00	-459.70	211.44	-188.49	0.00	2BLSM
6500.00	0.00	269.72	6458.28	-459.70	211.44	-188.49	0.00	
6573.72	0.00	269.72	6532.00	-459.70	211.44	-188.49	0.00	Bone Spring 2nd
6600.00	0.00	269.72	6558.28	-459.70	211.44	-188.49	0.00	
6700.00	0.00	269.72	6658.28	-459.70	211.44	-188.49	0.00	
6800.00	0.00	269.72	6758.28	-459.70	211.44	-188.49	0.00	
6839.72	0.00	269.72	6798.00	-459.70	211.44	-188.49	0.00	3BLSM
6900.00	0.00	269.72	6858.28	-459.70	211.44	-188.49	0.00	
7000.00	0.00	269.72	6958.28	-459.70	211.44	-188.49	0.00	
7100.00	0.00	269.72	7058.28	-459.70	211.44	-188.49	0.00	
7200.00	0.00	269.72	7158.28	-459.70	211.44	-188.49	0.00	
7300.00	0.00	269.72	7258.28	-459.70	211.44	-188.49	0.00	
7400.00	0.00	269.72	7358.28	-459.70	211.44	-188.49	0.00	
7500.00	0.00	269.72	7458.28	-459.70	211.44	-188.49	0.00	
7600.00	0.00	269.72	7558.28	-459.70	211.44	-188.49	0.00	
7700.00	0.00	269.72	7658.28	-459.70	211.44	-188.49	0.00	
7800.00	0.00	269.72	7758.28	-459.70	211.44	-188.49	0.00	
7900.00	0.00	269.72	7858.28	-459.70	211.44	-188.49	0.00	
8000.00	0.00	269.72	7958.28	-459.70	211.44	-188.49	0.00	
8100.00	0.00	269.72	8058.28	-459.70	211.44	-188.49	0.00	
8190.76	0.00	269.72	8149.04	-459.70	211.44	-188.49	0.00	KOP
8200.00	0.92	269.72	8158.28	-459.70	211.36	-188.42	10.00	
8300.00	10.92	269.72	8257.62	-459.75	201.06	-178.12	10.00	
8310.59	11.98	269.72	8268.00	-459.76	198.95	-176.02	10.00	Bone Spring 3rd
8400.00	20.92	269.72	8353.66	-459.89	173.66	-150.75	10.00	
8500.00	30.92	269.72	8443.48	-460.10	130.00	-107.13	10.00	
8600.00	40.92	269.72	8524.36	-460.39	71.40	-48.59	10.00	
8700.00	50.92	269.72	8593.83	-460.74	-0.35	23.09	10.00	
8776.59	58.58	269.72	8638.00	-461.04	-62.85	85.53	10.00	Wolfcamp / Point of Penetration
8800.00	60.92	269.72	8649.79	-461.14	-83.07	105.73	10.00	
8900.00	70.92	269.72	8690.54	-461.59	-174.25	196.82	10.00	
9000.00	80.92	269.72	8714.83	-462.06	-271.13	293.60	10.00	
9090.76	90.00	269.72	8722.00	-462.50	-361.51	383.90	10.00	Landing Point
9100.00	90.00	269.72	8722.00	-462.55	-370.75	393.12	0.00	
9200.00	90.00	269.72	8722.00	-463.04	-470.75	493.03	0.00	
9300.00	90.00	269.72	8722.00	-463.53	-570.74	592.93	0.00	
9400.00	90.00	269.72	8722.00	-464.01	-670.74	692.83	0.00	
9500.00	90.00	269.72	8722.00	-464.50	-770.74	792.73	0.00	
9600.00	90.00	269.72	8722.00	-464.99	-870.74	892.63	0.00	
9700.00	90.00	269.72	8722.00	-465.48	-970.74	992.53	0.00	
9800.00	90.00	269.72	8722.00	-465.97	-1070.74	1092.43	0.00	
9900.00	90.00	269.72	8722.00	-466.46	-1170.74	1192.33	0.00	
10000.00	90.00	269.72	8722.00	-466.95	-1270.74	1292.23	0.00	
10100.00	90.00	269.72	8722.00	-467.44	-1370.74	1392.14	0.00	
10200.00	90.00	269.72	8722.00	-467.93	-1470.73	1492.04	0.00	
10300.00	90.00	269.72	8722.00	-468.42	-1570.73	1591.94	0.00	
10400.00	90.00	269.72	8722.00	-468.90	-1670.73	1691.84	0.00	
10500.00	90.00	269.72	8722.00	-469.39	-1770.73	1791.74	0.00	
10600.00	90.00	269.72	8722.00	-469.88	-1870.73	1891.64	0.00	
10700.00	90.00	269.72	8722.00	-470.37	-1970.73	1991.54	0.00	
10800.00	90.00	269.72	8722.00	-470.86	-2070.73	2091.44	0.00	
10900.00	90.00	269.72	8722.00	-471.35	-2170.73	2191.34	0.00	
11000.00	90.00	269.72	8722.00	-471.84	-2270.72	2291.24	0.00	
11100.00	90.00	269.72	8722.00	-472.33	-2370.72	2391.15	0.00	
11200.00	90.00	269.72	8722.00	-472.82	-2470.72	2491.05	0.00	
11300.00	90.00	269.72	8722.00	-473.31	-2570.72	2590.95	0.00	
11400.00	90.00	269.72	8722.00	-473.80	-2670.72	2690.85	0.00	
11500.00	90.00	269.72	8722.00	-474.28	-2770.72	2790.75	0.00	
11600.00	90.00	269.72	8722.00	-474.77	-2870.72	2890.65	0.00	
11700.00	90.00	269.72	8722.00	-475.26	-2970.72	2990.55	0.00	
11800.00	90.00	269.72	8722.00	-475.75	-3070.71	3090.45	0.00	
11900.00	90.00	269.72	8722.00	-476.24	-3170.71	3190.35	0.00	
12000.00	90.00	269.72	8722.00	-476.73	-3270.71	3290.26	0.00	
12100.00	90.00	269.72	8722.00	-477.22	-3370.71	3390.16	0.00	
12200.00	90.00	269.72	8722.00	-477.71	-3470.71	3490.06	0.00	
12300.00	90.00	269.72	8722.00	-478.20	-3570.71	3589.96	0.00	
12400.00	90.00	269.72	8722.00	-478.69	-3670.71	3689.86	0.00	



**Well:** FRONTIER 33-32 FED COM 604H  
**County:** Eddy  
**Wellbore:** Permit Plan  
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**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12500.00	90.00	269.72	8722.00	-479.18	-3770.71	3789.76	0.00	
12600.00	90.00	269.72	8722.00	-479.66	-3870.71	3889.66	0.00	
12700.00	90.00	269.72	8722.00	-480.15	-3970.70	3989.56	0.00	
12800.00	90.00	269.72	8722.00	-480.64	-4070.70	4089.46	0.00	
12900.00	90.00	269.72	8722.00	-481.13	-4170.70	4189.37	0.00	
13000.00	90.00	269.72	8722.01	-481.62	-4270.70	4289.27	0.00	
13100.00	90.00	269.72	8722.01	-482.11	-4370.70	4389.17	0.00	
13200.00	90.00	269.72	8722.01	-482.60	-4470.70	4489.07	0.00	
13300.00	90.00	269.72	8722.01	-483.09	-4570.70	4588.97	0.00	
13400.00	90.00	269.72	8722.01	-483.58	-4670.70	4688.87	0.00	
13500.00	90.00	269.72	8722.01	-484.07	-4770.69	4788.77	0.00	
13600.00	90.00	269.72	8722.01	-484.56	-4870.69	4888.67	0.00	
13700.00	90.00	269.72	8722.01	-485.04	-4970.69	4988.57	0.00	
13800.00	90.00	269.72	8722.01	-485.53	-5070.69	5088.47	0.00	
13900.00	90.00	269.72	8722.01	-486.02	-5170.69	5188.38	0.00	
14000.00	90.00	269.72	8722.01	-486.51	-5270.69	5288.28	0.00	
14100.00	90.00	269.72	8722.01	-487.00	-5370.69	5388.18	0.00	
14200.00	90.00	269.72	8722.01	-487.49	-5470.69	5488.08	0.00	
14300.00	90.00	269.72	8722.01	-487.98	-5570.69	5587.98	0.00	
14400.00	90.00	269.72	8722.01	-488.47	-5670.68	5687.88	0.00	
14500.00	90.00	269.72	8722.01	-488.96	-5770.68	5787.78	0.00	
14600.00	90.00	269.72	8722.01	-489.45	-5870.68	5887.68	0.00	
14700.00	90.00	269.72	8722.01	-489.94	-5970.68	5987.58	0.00	
14800.00	90.00	269.72	8722.01	-490.42	-6070.68	6087.49	0.00	
14900.00	90.00	269.72	8722.01	-490.91	-6170.68	6187.39	0.00	
15000.00	90.00	269.72	8722.01	-491.40	-6270.68	6287.29	0.00	
15100.00	90.00	269.72	8722.01	-491.89	-6370.68	6387.19	0.00	
15200.00	90.00	269.72	8722.01	-492.38	-6470.67	6487.09	0.00	
15300.00	90.00	269.72	8722.01	-492.87	-6570.67	6586.99	0.00	
15400.00	90.00	269.72	8722.01	-493.36	-6670.67	6686.89	0.00	
15500.00	90.00	269.72	8722.01	-493.85	-6770.67	6786.79	0.00	
15600.00	90.00	269.72	8722.01	-494.34	-6870.67	6886.69	0.00	
15700.00	90.00	269.72	8722.01	-494.83	-6970.67	6986.60	0.00	
15800.00	90.00	269.72	8722.01	-495.32	-7070.67	7086.50	0.00	
15900.00	90.00	269.72	8722.01	-495.80	-7170.67	7186.40	0.00	
16000.00	90.00	269.72	8722.01	-496.29	-7270.66	7286.30	0.00	
16100.00	90.00	269.72	8722.01	-496.78	-7370.66	7386.20	0.00	
16200.00	90.00	269.72	8722.01	-497.27	-7470.66	7486.10	0.00	
16300.00	90.00	269.72	8722.01	-497.76	-7570.66	7586.00	0.00	
16400.00	90.00	269.72	8722.01	-498.25	-7670.66	7685.90	0.00	
16500.00	90.00	269.72	8722.01	-498.74	-7770.66	7785.80	0.00	
16600.00	90.00	269.72	8722.01	-499.23	-7870.66	7885.71	0.00	
16700.00	90.00	269.72	8722.01	-499.72	-7970.66	7985.61	0.00	
16800.00	90.00	269.72	8722.01	-500.21	-8070.66	8085.51	0.00	
16900.00	90.00	269.72	8722.01	-500.70	-8170.65	8185.41	0.00	
17000.00	90.00	269.72	8722.01	-501.18	-8270.65	8285.31	0.00	
17100.00	90.00	269.72	8722.01	-501.67	-8370.65	8385.21	0.00	
17200.00	90.00	269.72	8722.01	-502.16	-8470.65	8485.11	0.00	
17300.00	90.00	269.72	8722.01	-502.65	-8570.65	8585.01	0.00	
17400.00	90.00	269.72	8722.01	-503.14	-8670.65	8684.91	0.00	
17500.00	90.00	269.72	8722.01	-503.63	-8770.65	8784.81	0.00	
17600.00	90.00	269.72	8722.01	-504.12	-8870.65	8884.72	0.00	
17700.00	90.00	269.72	8722.01	-504.61	-8970.64	8984.62	0.00	
17800.00	90.00	269.72	8722.01	-505.10	-9070.64	9084.52	0.00	
17900.00	90.00	269.72	8722.01	-505.59	-9170.64	9184.42	0.00	
18000.00	90.00	269.72	8722.01	-506.08	-9270.64	9284.32	0.00	
18100.00	90.00	269.72	8722.01	-506.56	-9370.64	9384.22	0.00	
18200.00	90.00	269.72	8722.01	-507.05	-9470.64	9484.12	0.00	
18300.00	90.00	269.72	8722.01	-507.54	-9570.64	9584.02	0.00	
18400.00	90.00	269.72	8722.01	-508.03	-9670.64	9683.92	0.00	
18500.00	90.00	269.72	8722.01	-508.52	-9770.63	9783.83	0.00	
18600.00	90.00	269.72	8722.01	-509.01	-9870.63	9883.73	0.00	
18700.00	90.00	269.72	8722.01	-509.50	-9970.63	9983.63	0.00	
18800.00	90.00	269.72	8722.01	-509.99	-10070.63	10083.53	0.00	
18900.00	90.00	269.72	8722.01	-510.48	-10170.63	10183.43	0.00	
18996.30	90.00	269.72	8722.01	-510.95	-10266.93	10279.64	0.00	exit
19000.00	90.00	269.72	8722.01	-510.97	-10270.63	10283.33	0.00	
19076.30	90.00	269.72	8722.00	-511.30	-10346.93	10359.56	0.00	BHL

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.

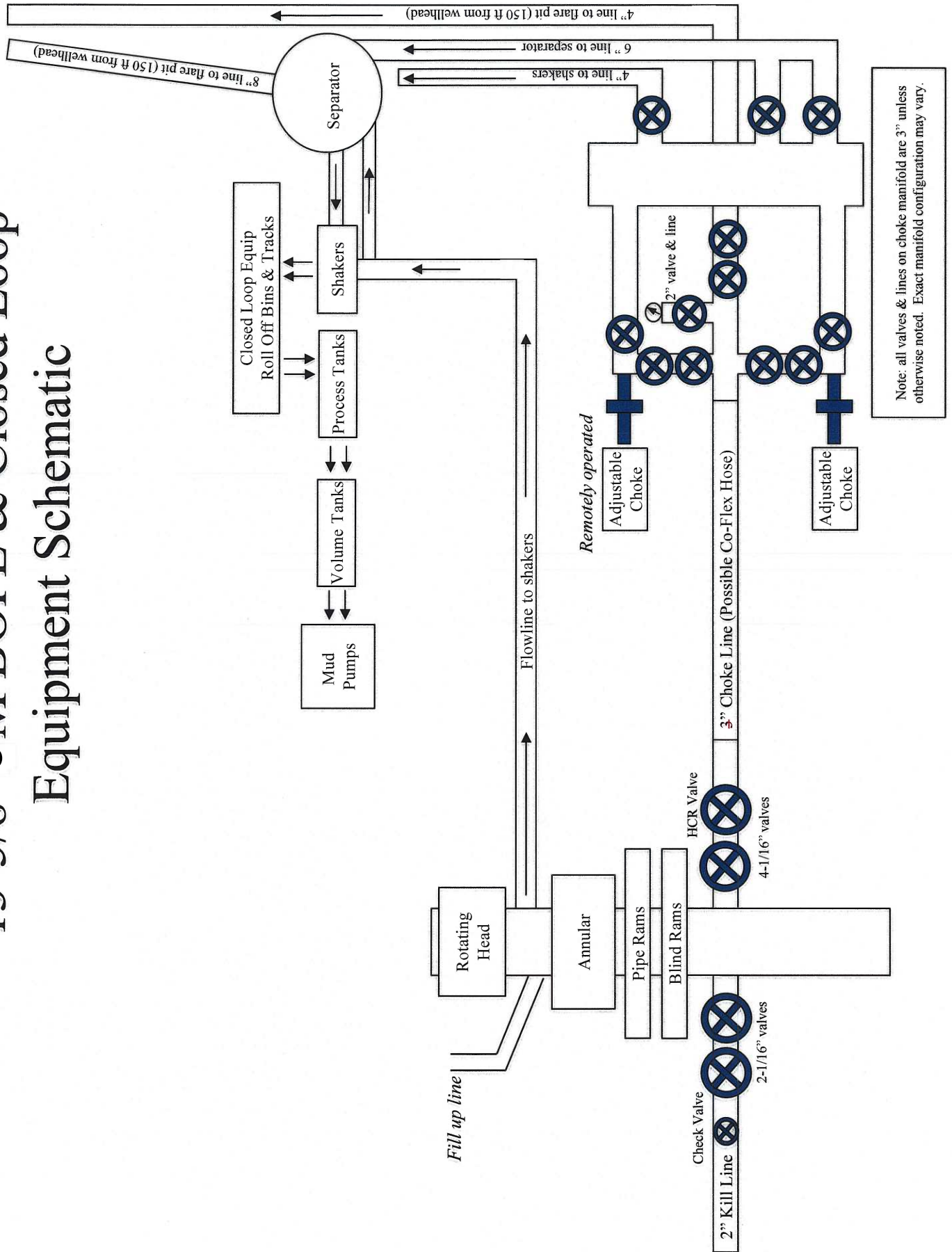
After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 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.

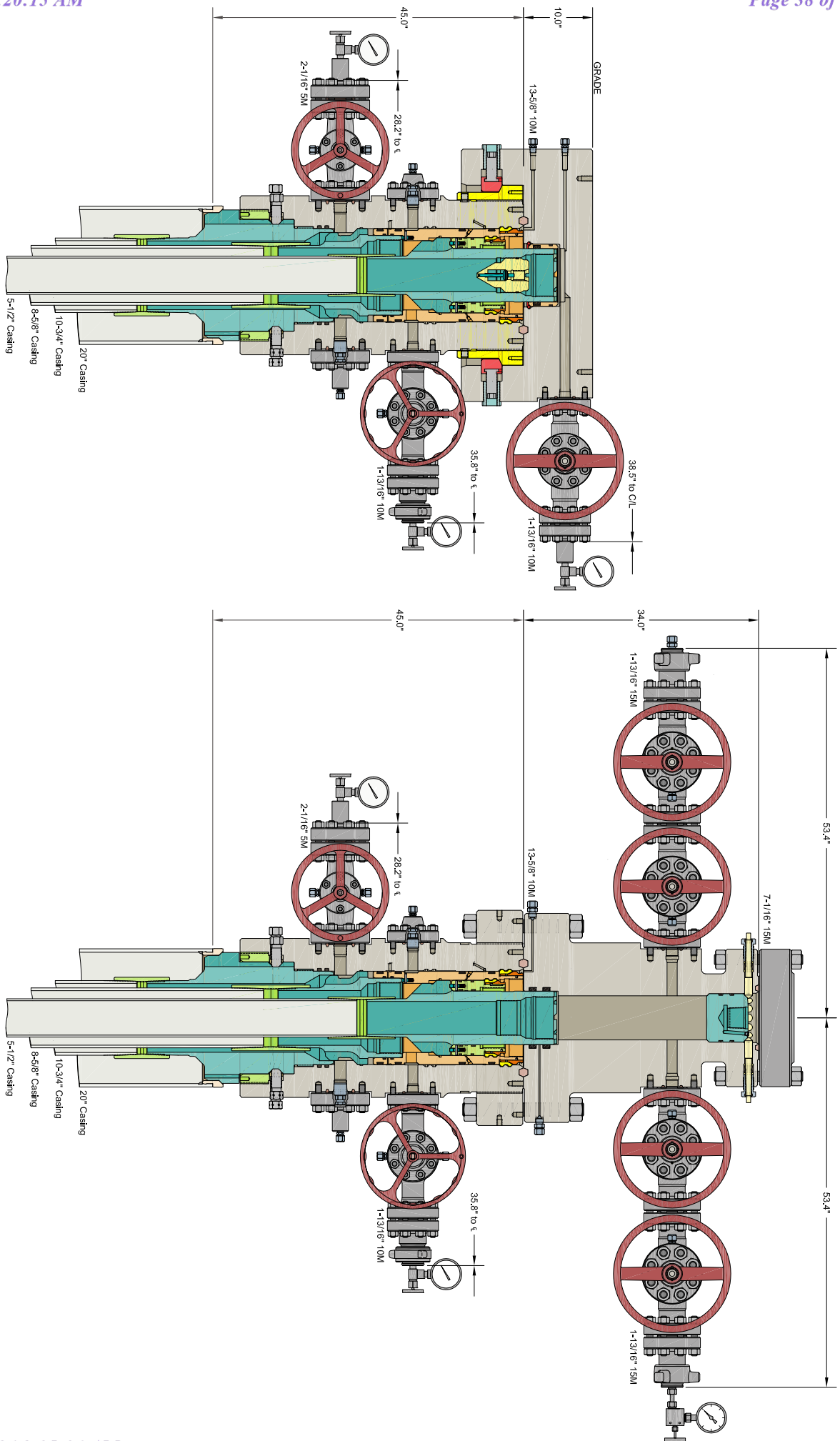
After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

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.

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





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ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION  
DELAWARE BASIN

10-3/4" x 8-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO Wellhead Sys.  
With 8-5/8" And 5-1/2" Mandrel Casing Hangers  
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN	DLE	16SEP21
APPRV		
DRAWING NO.	HBE0000595	

**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

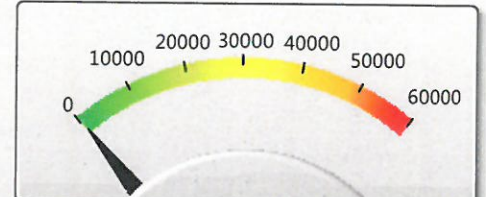
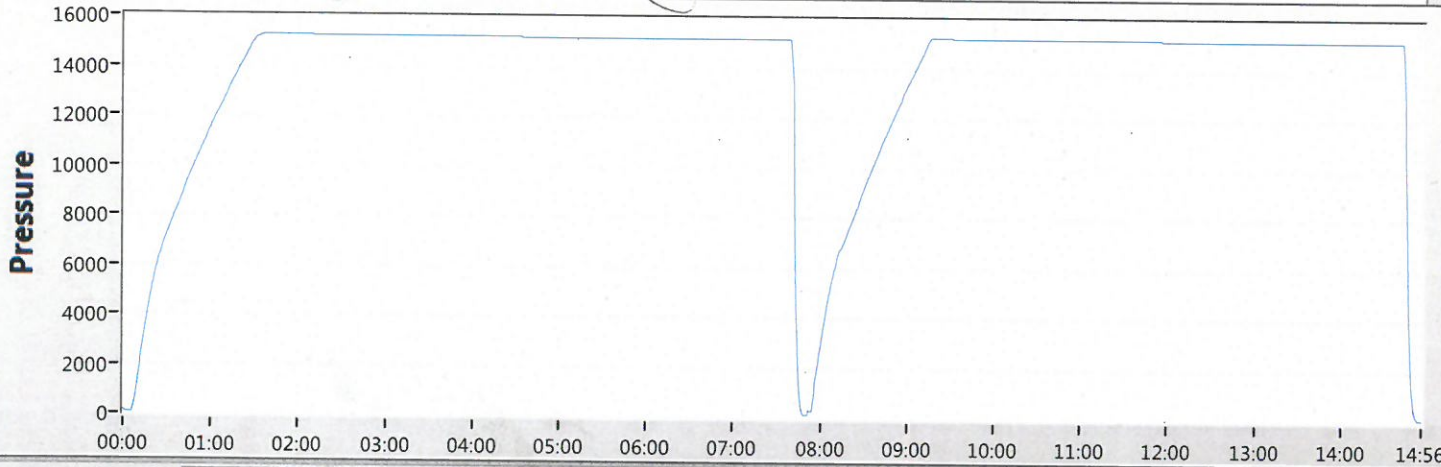
Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular  
 Remaining well control equipment components will either be tested offline or online, per BLM approval  
 Remaining BOPE will be tested online within 72-hours form completing 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  
E Bell

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

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	WPX Energy Permian LLC
<b>LOCATION:</b>	Section 33, T.23 S., R.26 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Frontier 33-32 Fed Com 603H
<b>ATS/API ID:</b>	ATS-25-1108
<b>APD ID:</b>	104000103686
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Frontier 33-32 Fed Com 604H
<b>ATS/API ID:</b>	ATS-25-1112
<b>APD ID:</b>	104000103689
<b>Sundry ID:</b>	N/a

COA

**\*Please refer to approved NOI appended to this application for the most current well design**

H2S	No		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	<input checked="" type="checkbox"/> Critical		
Variance	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention None	
Special Requirements Variance	<input checked="" type="checkbox"/> BOPE Break Testing <input checked="" type="checkbox"/> Offline BOPE Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 **10-3/4** inch surface casing shall be set at approximately **417 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 **14 3/4** 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.**

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.**
- ❖ In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. 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.**

### 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 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 10-3/4 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.

### BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- 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.
- 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).
- The BLM is to be contacted **(575-361-2822 Eddy 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.

**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 **Eddy County: 575-361-2822.**

**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 **Eddy County: 575-361-2822.**

## 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)

Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV)

(575) 361-2822

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 2<sup>nd</sup> 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. 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.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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.
7. 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.
8. 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) 5/20/2025



# **WPX Energy Permian, LLC**

**3500 One Williams Center  
Tulsa, Oklahoma 74172**

## **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan**

**For**

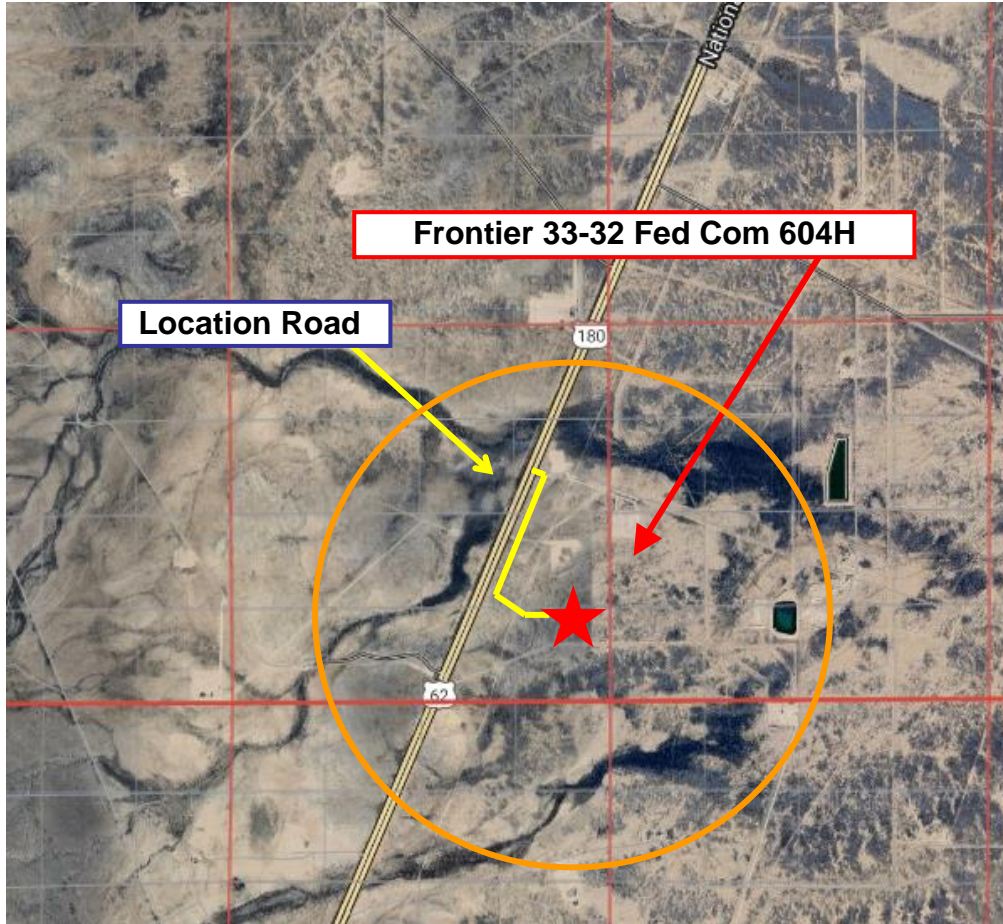
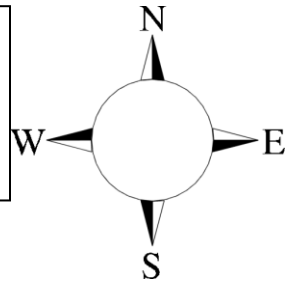
**Frontier 33-32 Fed Com 604H**

**Sec-33 T-23S R-26E  
1360' FSL & 259' FEL  
LAT. = 32.257192° N (NAD83)  
LONG = 104.290425° W**

**Eddy County NM**

## Frontier 33-32 Fed Com 604H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.



**Assumed 100 ppm ROE = 3000' (Radius of Exposure)**  
**100 ppm H<sub>2</sub>S 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<sub>2</sub>S concentration shall trigger activation of this plan.**

**Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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<sub>2</sub>S 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<sub>2</sub>S, 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<sub>2</sub>). Intentional ignition must be coordinated with the NMOCED 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<sub>2</sub>S and SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

**Contacting Authorities**

WPX Energy Permian 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. WPX Energy Permian 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<sub>2</sub>S) 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<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S 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<sub>2</sub>S 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<sub>2</sub>S Drilling Operations Plan.

There will be weekly H<sub>2</sub>S and well control drills for all personnel in each crew.

### II. HYDROGEN SULFIDE TRAINING

Note: All H<sub>2</sub>S 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<sub>2</sub>S.

#### 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.

## 3. H<sub>2</sub>S detection and monitoring equipment:

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 10 ppm. Sensor locations:

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

### 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.

## 4. Mud program:

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

## 5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

**6. Communication:**

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

**7. 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<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<b>WPX Energy Permian Company Call List</b>			
<b>Employee/Company Contact Representative</b>	<b>Position</b>	<b>Phone Number</b>	<b>After Hours Number</b>
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 Manager	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
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046
Brock Vise	Lead EHS	918-413-3291	918-413-3291

<b>Agency Call List</b>			
<b>Lea County (575)</b>	<b>Hobbs</b>		
	Lea County Communication Authority	397-9265	
	State Police	885-3138	
	City Police	397-9265	
	Sheriff's Office	396-3611	
	<b>Ambulance</b>	<b>911</b>	
	Fire Department	397-9308	
	LEPC (Local Emergency Planning Committee)	393-2870	
	NMOCD	393-6161	
	US Bureau of Land Management (Closed)	393-0002	
<b>Eddy County (575)</b>	<b>Carlsbad</b>		
	State Police	885-3137	
	City Police	885-2111	
	Sheriff's Office	887-7551	
	<b>Ambulance</b>	<b>911</b>	
	Fire Department	885-3125	
	LEPC (Local Emergency Planning Committee)	887-3798	
	US Bureau of Land Management	234-5972	
	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	
	<b>Emergency Services</b>		
	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	
	<b>Give GPS position:</b>	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
		For Air Ambulance - <b>Eddy County</b> Dispatch	(575)-616-7155
For Air Ambulance - <b>Lea County</b> (LCCA)		(575)-397-9265	
Poison Control (24/7)		(800) 222-1222	
Oil & Gas Pipeline 24 Hour Service		(800) 364-4366	
NOAA – Website - <a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>			
	National Pollution Control Center	202-795-6958	
	NPCC – Oil Spills	800-280-7118	

Prepared in conjunction with  
 Dave Small  SHARP  
 communications and consulting



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

<b>Well Name:</b> FRONTIER 33-32 FED COM	<b>Well Location:</b> T23S / R26E / SEC 33 / NESE / 32.257192 / -104.290425	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 604H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM43534	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b>	<b>Operator:</b> WPX ENERGY PERMIAN LLC	

**Notice of Intent**

**Sundry ID:** 2894531

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 02/05/2026

**Time Sundry Submitted:** 09:39

**Date proposed operation will begin:** 02/05/2026

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests the following changes to the approved APD (AFMSS ID: 10400103689): BHL change from 900 FSL & 20 FWL to 2310 FSL & 20 FWL, both 32-23S-26E. Casing program change: Surface and Intermediate casing changes. Cement volume changes to accommodate casing change. Name Change: Permitted well name: FRONTIER 33-32 FED COM 604H Proposed well name: FRONTIER 33-32 FED COM 613H. TVD/MD change from 8722' / 19076' to 8722'/19126'. Devon would also like to request a variance for break test and offline cementing in regards to intermediate and production casing. Please see attached revised C-102, Drill plan, directional, spec sheets, break test, and offline cementing.

**NOI Attachments**

**Procedure Description**

- WA022623691\_FRONTIER\_33\_32\_FED\_COM\_613H\_WL\_R3\_SIGNED\_20260223092106.pdf
- Production\_Break\_Testing\_Variance\_\_WFMP\_\_Shallower\_\_BLM\_v5\_20260223075307.pdf
- FRONTIER\_33\_32\_FED\_COM\_613H\_\_Directional\_Plan\_02\_20\_26\_20260223073947.pdf
- FRONTIER\_33\_32\_FED\_COM\_613H\_\_02\_20\_2026\_20260223073947.pdf
- Wellhead\_Diverter\_Drawing\_20260205093755.pdf
- Offline\_Production\_Cement\_\_WFMP\_\_Shallower\_\_BLM\_v5\_20260205093755.pdf
- 8.625\_32lb\_J55\_GEOCONN\_20260205093754.pdf

**Well Name:** FRONTIER 33-32 FED COM

**Well Location:** T23S / R26E / SEC 33 / NESE / 32.257192 / -104.290425

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

**Well Number:** 604H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM43534

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:**

**Operator:** WPX ENERGY PERMIAN LLC

MB\_Wellhd\_5M\_13.375\_8.625\_5.5\_20260205093754.pdf

13.375\_54.5lb\_J55\_20260205093754.pdf

Annular\_Variance\_\_\_Preventer\_Summary\_20260205093754.pdf

**Conditions of Approval**

**Specialist Review**

33\_23\_26\_I\_Sundry\_ID\_2894531\_Frontier\_33\_32\_Fed\_Com\_613H\_20260305142221.pdf

COA\_20260305142221.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:** SHANDEE THOMAS

**Signed on:** FEB 23, 2026 07:43 AM

**Name:** WPX ENERGY PERMIAN LLC

**Title:** Regulatory Professional

**Street Address:** 333 W SHERDIAN AVE

**City:** OKLAHOMA CITY **State:** OK

**Phone:** (405) 552-7853

**Email address:** SHANDEE.THOMAS@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:** 03/05/2026

**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.**

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

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

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.

— **New # 613H**

2. Name of Operator

9. API Well No. **30-015-58087**

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			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 performed 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 recompleat 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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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: NESE / 1360 FSL / 259 FEL / TWSP: 23S / RANGE: 26E / SECTION: 33 / LAT: 32.257192 / LONG: -104.290425 ( TVD: 0 feet, MD: 0 feet )

PPP: SESE / 900 FSL / 100 FEL / TWSP: 23S / RANGE: 26E / SECTION: 33 / LAT: 32.25593 / LONG: -104.289902 ( TVD: 8638 feet, MD: 8777 feet )

PPP: SESW / 895 FSL / 2660 FEL / TWSP: 23S / RANGE: 26E / SECTION: 33 / LAT: 32.255897 / LONG: -104.298183 ( TVD: 8722 feet, MD: 11300 feet )

BHL: SWSW / 900 FSL / 20 FWL / TWSP: 23S / RANGE: 26E / SECTION: 32 / LAT: 32.255793 / LONG: -104.323897 ( TVD: 8722 feet, MD: 19076 feet )

CONFIDENTIAL

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico <b>Energy, Minerals &amp; Natural Resources Department</b> <b>OIL CONSERVATION DIVISION</b>	Revised July, 2024  Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
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**WELL LOCATION INFORMATION**

API Number <b>30-015-58087</b>	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP
Property Code <b>339083</b>	Property Name FRONTIER 33-32 FED COM	Well Number 613H
OGRID No. 246289	Operator Name WPX ENERGY PERMIAN, LLC.	Ground Level Elevation 3360.9'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	33	23-S	26-E		1360' S	259' E	32.257192	104.290425	EDDY

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	32	23-S	26-E		2310' S	20' W	32.259669	104.323952	EDDY

Dedicated Acres 640	Infill or Defining Well DEFINING	Defining Well API N/A	Overlapping Spacing Unit (Y/N) YES	Consolidation Code C
Order Numbers PENDING NSL			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	33	23-S	26-E		2310' S	50' E	32.259806	104.289766	EDDY


**First Take Point (FTP)**

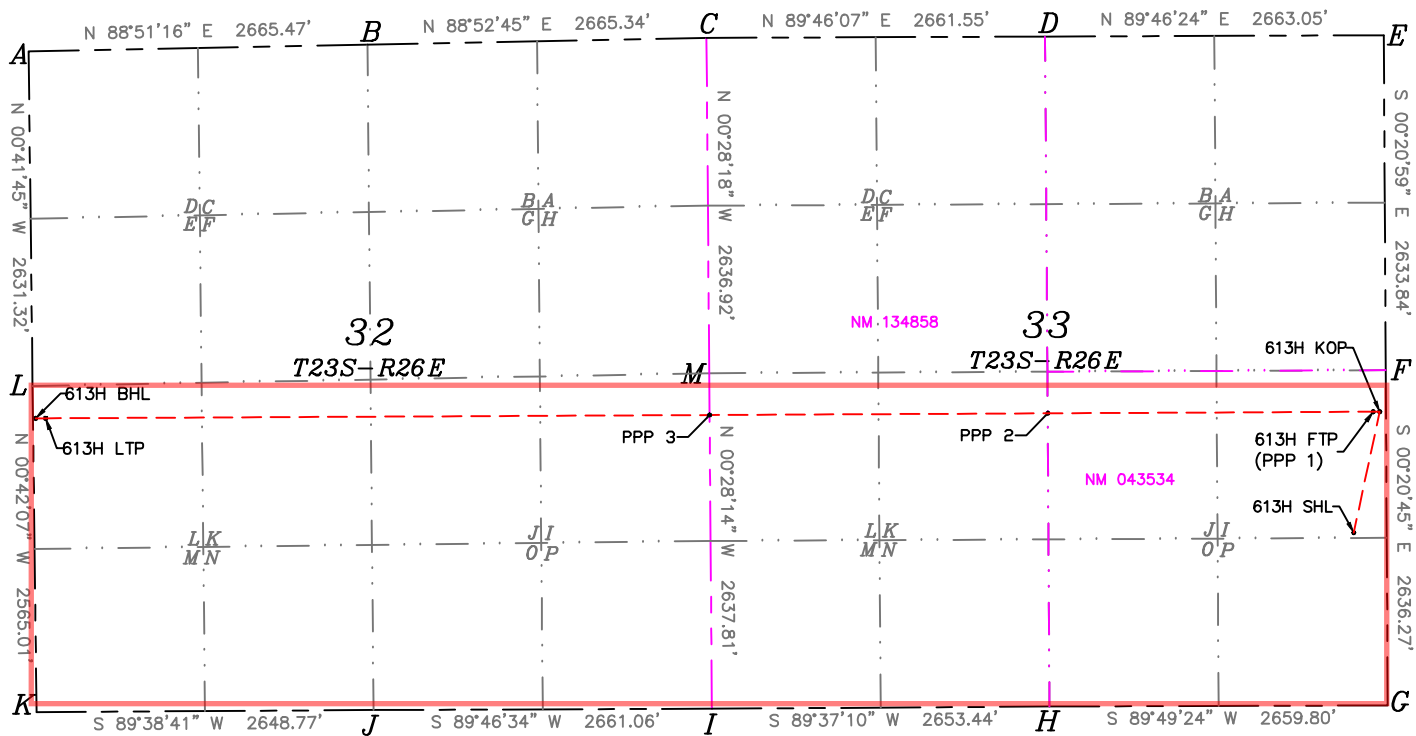
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	33	23-S	26-E		2310' S	100' E	32.259805	104.289928	EDDY

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	32	23-S	26-E		2310' S	100' W	32.259670	104.323694	EDDY

	Spacing Unit Type Horizontal Vertical HORIZONTAL	Ground Floor Elevation:
--	---	-------------------------

<b>OPERATOR CERTIFICATIONS</b> 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore 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.	<b>SURVEYOR CERTIFICATIONS</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief. <div style="text-align: right; margin-top: 20px;">   <i>B.S. J.</i>                      02/18/2026                 </div>
Signature <i>Shandee Thomas</i> Date 2/23/26	Signature and Seal of Professional Surveyor
Printed Name SHANDEE THOMAS	Certificate Number 22404
Email Address SHANDEE.THOMAS@DVN.COM	Date of Survey 02/15/2026



A=N:461086.75/E:544182.17 B=N:461140.04/E:544684.10 C=N:461192.18/E:549511.93 D=N:461202.92/E:552173.46 E=N:461213.46/E:554836.49 F=N:458579.67/E:554852.57 G=N:455943.44/E:554868.48 H=N:455935.25/E:552208.69 I=N:455917.63/E:549555.30 J=N:455907.23/E:546894.26 K=N:455890.81/E:544245.55 L=N:458455.63/E:544214.13 M=N:458555.34/E:549533.64	SURFACE HOLE LOCATION GEODETIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION 1360' FSL 259' FEL SECTION 33 EL: 3360.9 N:457302.19/E:554601.46 LAT:32.257192/LON:104.290425	KICK OFF POINT 2310' FSL 50' FEL SECTION 33 N:458253.26/E:554804.54 LAT:32.259806/LON:104.289766	FIRST TAKE POINT(PPP 1) 2310' FSL 100' FEL SECTION 33 N:458253.11/E:554754.54 LAT:32.259805/LON:104.289928	LAST TAKE POINT 2310' FSL 100' FWL SECTION 32 N:458201.30/E:544317.25 LAT:32.259670/LON:104.323694	BOTTOM HOLE LOCATION 2310' FSL 20' FWL SECTION 32 N:458200.81/E:544237.25 LAT:32.259669/LON:104.323952
	PPP 2 2305' FSL 2660' FEL SECTION 33 N:458240.40/E:552195.04 LAT:32.259773/LON:104.298208	PPP 3 2310' FSL 0' FWL SECTION 33 N:458227.21/E:549536.34 LAT:32.259739/LON:104.306809			

# BOPE Break Test Variance

2/2026  
REV5



NYSE: DVN  
devonenergy.com



# 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.

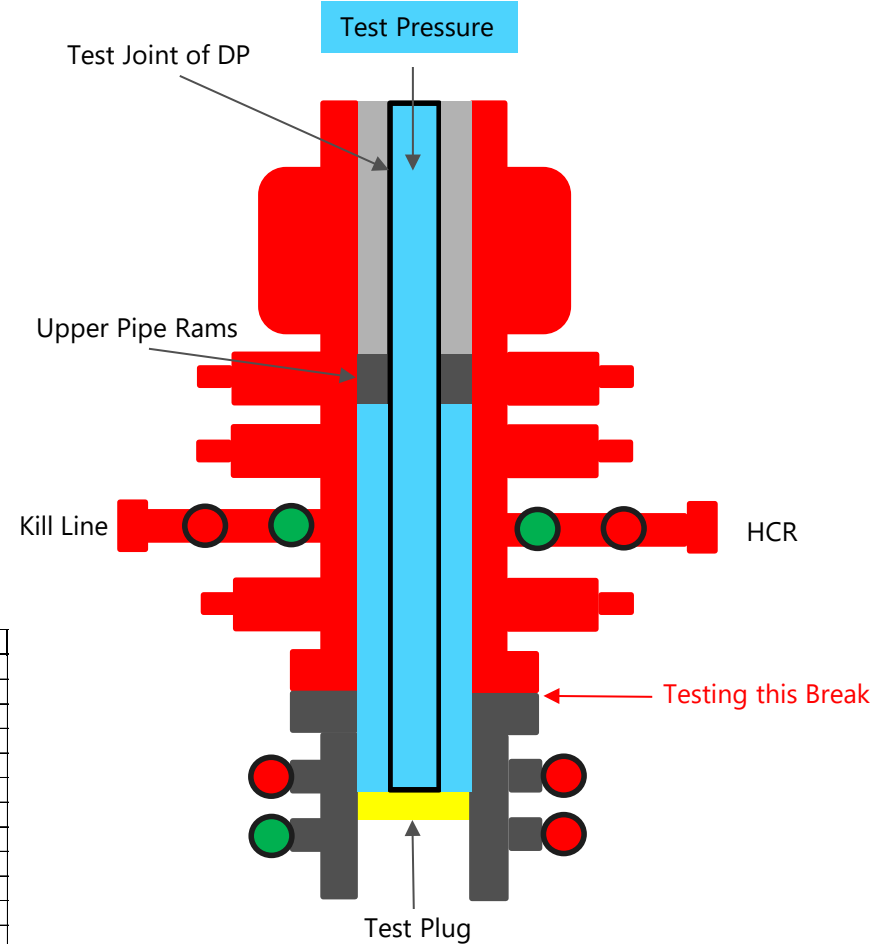
# BOPE Break Test Variance (Less than 12,000' TVD)

## Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Outside 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
Kill Line Check Valve		X		X
Inside Choke Valve		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 of 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 BOPE tests not completed within 72-hours remaining BOPE are required to be completed Online

If a flex line is removed/broken, HCR will be left open and test against choke manifold valve to ensure break is tested.

Thank you.

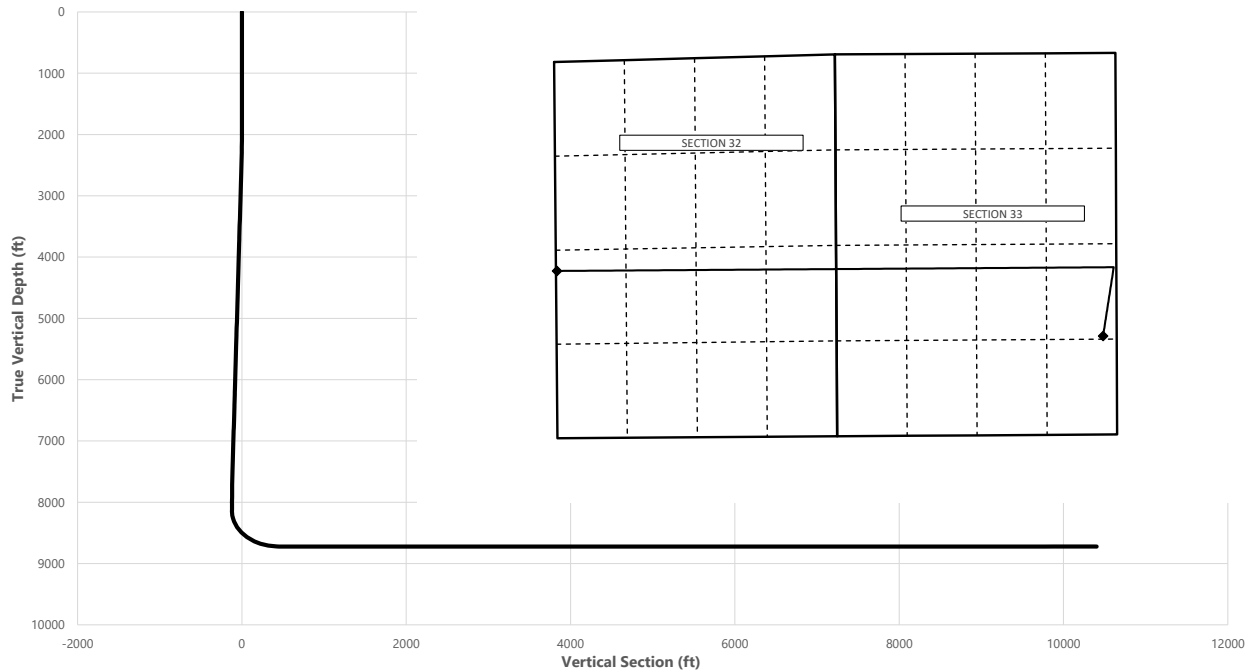




Well: FRONTIER 33-32 FED COM 613H  
 County: Eddy  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

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	12.05	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	12.05	2497.47	42.56	9.09	-5.38	2.00	Hold Tangent
7594.36	10.00	12.05	7514.43	907.70	193.77	-114.63	0.00	Drop to Vertical
8094.36	0.00	12.05	8011.89	950.26	202.85	-120.01	2.00	Hold Vertical
8231.51	0.00	269.72	8149.04	950.26	202.85	-120.01	0.00	KOP
9131.51	90.00	269.72	8722.00	947.46	-370.10	450.56	10.00	Landing Point
19125.73	90.00	269.72	8722.00	898.62	-10364.21	10403.09	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	50.00	50.00
Salt	500.00	500.00
Base of Salt	1673.00	1673.00
Delaware	1900.00	1900.00
Cherry Canyon	2604.12	2600.00
Brushy Canyon	3736.32	3715.00
1st Bone Spring Lime	5326.48	5281.00
Bone Spring 1st	6265.74	6206.00
2BLSM	6476.95	6414.00
Bone Spring 2nd	6596.77	6532.00
3BLSM	6866.88	6798.00
Bone Spring 3rd	8351.34	8268.00
Wolfcamp / Point of Penetration	8817.33	8638.00
exit	19045.73	8722.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.2571	-104.2905	1360' FSL, 259' FEL of Sec 33 in T23S, R26E
KOP	8231.51	8149.04	32.2598	-104.2897	2310' FSL, 50' FEL of Sec 33 in T23S, R26E
Point of Penetration	8817.33	8638.00	32.2598	-104.2899	2310' FSL, 100' FEL of Sec 33 in T23S, R26E
Exit	19045.73	8722.01	32.2597	-104.3237	2310' FSL, 100' FWL of Sec 32 in T23S, R26E
BHL	19125.73	8722.00	32.2596	-104.3240	230' FSL, 20' FWL of Sec 32 in T23S, R26E

	Y	X	MD
KOP	458252	554804	8231.51



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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
50.00	0.00	12.05	50.00	0.00	0.00	0.00	0.00	Rustler
100.00	0.00	12.05	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	12.05	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	12.05	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	12.05	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	12.05	500.00	0.00	0.00	0.00	0.00	Salt,
600.00	0.00	12.05	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	12.05	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	12.05	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	12.05	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	12.05	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	12.05	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	12.05	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	12.05	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	12.05	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	12.05	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	12.05	1600.00	0.00	0.00	0.00	0.00	
1673.00	0.00	12.05	1673.00	0.00	0.00	0.00	0.00	Base of Salt
1700.00	0.00	12.05	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	12.05	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	12.05	1900.00	0.00	0.00	0.00	0.00	Delaware,
2000.00	0.00	12.05	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	12.05	2099.98	1.71	0.36	-0.22	2.00	
2200.00	4.00	12.05	2199.84	6.82	1.46	-0.86	2.00	
2300.00	6.00	12.05	2299.45	15.35	3.28	-1.94	2.00	
2400.00	8.00	12.05	2398.70	27.27	5.82	-3.44	2.00	
2500.00	10.00	12.05	2497.47	42.56	9.09	-5.38	2.00	Hold Tangent
2600.00	10.00	12.05	2595.95	59.55	12.71	-7.52	0.00	
2604.12	10.00	12.05	2600.00	60.24	12.86	-7.61	0.00	Cherry Canyon
2700.00	10.00	12.05	2694.43	76.53	16.34	-9.66	0.00	
2800.00	10.00	12.05	2792.91	93.51	19.96	-11.81	0.00	
2900.00	10.00	12.05	2891.39	110.49	23.59	-13.95	0.00	
3000.00	10.00	12.05	2989.87	127.47	27.21	-16.10	0.00	
3100.00	10.00	12.05	3088.35	144.46	30.84	-18.24	0.00	
3200.00	10.00	12.05	3186.83	161.44	34.46	-20.39	0.00	
3300.00	10.00	12.05	3285.31	178.42	38.09	-22.53	0.00	
3400.00	10.00	12.05	3383.79	195.40	41.71	-24.68	0.00	
3500.00	10.00	12.05	3482.27	212.39	45.34	-26.82	0.00	
3600.00	10.00	12.05	3580.75	229.37	48.96	-28.97	0.00	
3700.00	10.00	12.05	3679.23	246.35	52.59	-31.11	0.00	
3736.32	10.00	12.05	3715.00	252.52	53.90	-31.89	0.00	Brushy Canyon
3800.00	10.00	12.05	3777.72	263.33	56.21	-33.26	0.00	
3900.00	10.00	12.05	3876.20	280.31	59.84	-35.40	0.00	
4000.00	10.00	12.05	3974.68	297.30	63.46	-37.55	0.00	
4100.00	10.00	12.05	4073.16	314.28	67.09	-39.69	0.00	
4200.00	10.00	12.05	4171.64	331.26	70.71	-41.84	0.00	
4300.00	10.00	12.05	4270.12	348.24	74.34	-43.98	0.00	
4400.00	10.00	12.05	4368.60	365.23	77.96	-46.13	0.00	
4500.00	10.00	12.05	4467.08	382.21	81.59	-48.27	0.00	
4600.00	10.00	12.05	4565.56	399.19	85.21	-50.42	0.00	
4700.00	10.00	12.05	4664.04	416.17	88.84	-52.56	0.00	
4800.00	10.00	12.05	4762.52	433.15	92.46	-54.70	0.00	
4900.00	10.00	12.05	4861.00	450.14	96.09	-56.85	0.00	
5000.00	10.00	12.05	4959.48	467.12	99.72	-58.99	0.00	
5100.00	10.00	12.05	5057.97	484.10	103.34	-61.14	0.00	
5200.00	10.00	12.05	5156.45	501.08	106.97	-63.28	0.00	
5300.00	10.00	12.05	5254.93	518.06	110.59	-65.43	0.00	
5326.48	10.00	12.05	5281.00	522.56	111.55	-66.00	0.00	1st Bone Spring Lime
5400.00	10.00	12.05	5353.41	535.05	114.22	-67.57	0.00	
5500.00	10.00	12.05	5451.89	552.03	117.84	-69.72	0.00	
5600.00	10.00	12.05	5550.37	569.01	121.47	-71.86	0.00	
5700.00	10.00	12.05	5648.85	585.99	125.09	-74.01	0.00	
5800.00	10.00	12.05	5747.33	602.98	128.72	-76.15	0.00	
5900.00	10.00	12.05	5845.81	619.96	132.34	-78.30	0.00	
6000.00	10.00	12.05	5944.29	636.94	135.97	-80.44	0.00	
6100.00	10.00	12.05	6042.77	653.92	139.59	-82.59	0.00	
6200.00	10.00	12.05	6141.25	670.90	143.22	-84.73	0.00	
6265.74	10.00	12.05	6206.00	682.07	145.60	-86.14	0.00	Bone Spring 1st
6300.00	10.00	12.05	6239.73	687.89	146.84	-86.88	0.00	



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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	10.00	12.05	6338.22	704.87	150.47	-89.02	0.00	
6476.95	10.00	12.05	6414.00	717.94	153.26	-90.67	0.00	2BSLM
6500.00	10.00	12.05	6436.70	721.85	154.09	-91.17	0.00	
6596.77	10.00	12.05	6532.00	738.29	157.60	-93.24	0.00	Bone Spring 2nd
6600.00	10.00	12.05	6535.18	738.83	157.72	-93.31	0.00	
6700.00	10.00	12.05	6633.66	755.82	161.34	-95.45	0.00	
6800.00	10.00	12.05	6732.14	772.80	164.97	-97.60	0.00	
6866.88	10.00	12.05	6798.00	784.15	167.39	-99.03	0.00	3BSLM
6900.00	10.00	12.05	6830.62	789.78	168.59	-99.74	0.00	
7000.00	10.00	12.05	6929.10	806.76	172.22	-101.89	0.00	
7100.00	10.00	12.05	7027.58	823.74	175.84	-104.03	0.00	
7200.00	10.00	12.05	7126.06	840.73	179.47	-106.18	0.00	
7300.00	10.00	12.05	7224.54	857.71	183.09	-108.32	0.00	
7400.00	10.00	12.05	7323.02	874.69	186.72	-110.47	0.00	
7500.00	10.00	12.05	7421.50	891.67	190.34	-112.61	0.00	
7594.36	10.00	12.05	7514.43	907.70	193.77	-114.63	0.00	Drop to Vertical
7600.00	9.89	12.05	7519.99	908.65	193.97	-114.76	2.00	
7700.00	7.89	12.05	7618.78	923.76	197.19	-116.66	2.00	
7800.00	5.89	12.05	7718.05	935.48	199.70	-118.15	2.00	
7900.00	3.89	12.05	7817.69	943.82	201.48	-119.20	2.00	
8000.00	1.89	12.05	7917.55	948.74	202.53	-119.82	2.00	
8094.36	0.00	12.05	8011.89	950.26	202.85	-120.01	2.00	Hold Vertical
8100.00	0.00	269.72	8017.54	950.26	202.85	-120.01	0.00	
8200.00	0.00	269.72	8117.54	950.26	202.85	-120.01	0.00	
8231.51	0.00	269.72	8149.04	950.26	202.85	-120.01	0.00	KOP
8300.00	6.85	269.72	8217.37	950.24	198.76	-115.94	10.00	
8351.34	11.98	269.72	8268.00	950.20	190.37	-107.58	10.00	Bone Spring 3rd
8400.00	16.85	269.72	8315.12	950.14	178.25	-95.52	10.00	
8500.00	26.85	269.72	8407.82	949.96	141.08	-58.50	10.00	
8600.00	36.85	269.72	8492.65	949.70	88.38	-6.02	10.00	
8700.00	46.85	269.72	8567.05	949.38	21.75	60.33	10.00	
8800.00	56.85	269.72	8628.74	948.99	-56.79	138.55	10.00	
8817.33	58.58	269.72	8638.00	948.92	-71.44	153.14	10.00	Wolfcamp / Point of Penetration
8900.00	66.85	269.72	8675.86	948.56	-144.84	226.24	10.00	
9000.00	76.85	269.72	8706.97	948.10	-239.75	320.75	10.00	
9100.00	86.85	269.72	8721.13	947.61	-338.61	419.20	10.00	
9131.51	90.00	269.72	8722.00	947.46	-370.10	450.56	10.00	Landing Point
9200.00	90.00	269.72	8722.00	947.13	-438.59	518.77	0.00	
9300.00	90.00	269.72	8722.00	946.64	-538.59	618.35	0.00	
9400.00	90.00	269.72	8722.00	946.15	-638.59	717.93	0.00	
9500.00	90.00	269.72	8722.00	945.66	-738.59	817.52	0.00	
9600.00	90.00	269.72	8722.00	945.17	-838.59	917.10	0.00	
9700.00	90.00	269.72	8722.00	944.68	-938.59	1016.68	0.00	
9800.00	90.00	269.72	8722.00	944.19	-1038.59	1116.26	0.00	
9900.00	90.00	269.72	8722.00	943.70	-1138.59	1215.85	0.00	
10000.00	90.00	269.72	8722.00	943.21	-1238.58	1315.43	0.00	
10100.00	90.00	269.72	8722.00	942.72	-1338.58	1415.01	0.00	
10200.00	90.00	269.72	8722.00	942.23	-1438.58	1514.60	0.00	
10300.00	90.00	269.72	8722.00	941.75	-1538.58	1614.18	0.00	
10400.00	90.00	269.72	8722.00	941.26	-1638.58	1713.76	0.00	
10500.00	90.00	269.72	8722.00	940.77	-1738.58	1813.34	0.00	
10600.00	90.00	269.72	8722.00	940.28	-1838.58	1912.93	0.00	
10700.00	90.00	269.72	8722.00	939.79	-1938.58	2012.51	0.00	
10800.00	90.00	269.72	8722.00	939.30	-2038.57	2112.09	0.00	
10900.00	90.00	269.72	8722.00	938.81	-2138.57	2211.67	0.00	
11000.00	90.00	269.72	8722.00	938.32	-2238.57	2311.26	0.00	
11100.00	90.00	269.72	8722.00	937.83	-2338.57	2410.84	0.00	
11200.00	90.00	269.72	8722.00	937.34	-2438.57	2510.42	0.00	
11300.00	90.00	269.72	8722.00	936.85	-2538.57	2610.01	0.00	
11400.00	90.00	269.72	8722.00	936.37	-2638.57	2709.59	0.00	
11500.00	90.00	269.72	8722.00	935.88	-2738.57	2809.17	0.00	
11600.00	90.00	269.72	8722.00	935.39	-2838.57	2908.75	0.00	
11700.00	90.00	269.72	8722.00	934.90	-2938.56	3008.34	0.00	
11800.00	90.00	269.72	8722.00	934.41	-3038.56	3107.92	0.00	
11900.00	90.00	269.72	8722.00	933.92	-3138.56	3207.50	0.00	
12000.00	90.00	269.72	8722.00	933.43	-3238.56	3307.09	0.00	
12100.00	90.00	269.72	8722.00	932.94	-3338.56	3406.67	0.00	
12200.00	90.00	269.72	8722.00	932.45	-3438.56	3506.25	0.00	
12300.00	90.00	269.72	8722.00	931.96	-3538.56	3605.83	0.00	
12400.00	90.00	269.72	8722.00	931.48	-3638.56	3705.42	0.00	



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12500.00	90.00	269.72	8722.00	930.99	-3738.55	3805.00	0.00	
12600.00	90.00	269.72	8722.00	930.50	-3838.55	3904.58	0.00	
12700.00	90.00	269.72	8722.00	930.01	-3938.55	4004.16	0.00	
12800.00	90.00	269.72	8722.00	929.52	-4038.55	4103.75	0.00	
12900.00	90.00	269.72	8722.00	929.03	-4138.55	4203.33	0.00	
13000.00	90.00	269.72	8722.00	928.54	-4238.55	4302.91	0.00	
13100.00	90.00	269.72	8722.00	928.05	-4338.55	4402.50	0.00	
13200.00	90.00	269.72	8722.00	927.56	-4438.55	4502.08	0.00	
13300.00	90.00	269.72	8722.01	927.07	-4538.54	4601.66	0.00	
13400.00	90.00	269.72	8722.01	926.58	-4638.54	4701.24	0.00	
13500.00	90.00	269.72	8722.01	926.10	-4738.54	4800.83	0.00	
13600.00	90.00	269.72	8722.01	925.61	-4838.54	4900.41	0.00	
13700.00	90.00	269.72	8722.01	925.12	-4938.54	4999.99	0.00	
13800.00	90.00	269.72	8722.01	924.63	-5038.54	5099.58	0.00	
13900.00	90.00	269.72	8722.01	924.14	-5138.54	5199.16	0.00	
14000.00	90.00	269.72	8722.01	923.65	-5238.54	5298.74	0.00	
14100.00	90.00	269.72	8722.01	923.16	-5338.54	5398.32	0.00	
14200.00	90.00	269.72	8722.01	922.67	-5438.53	5497.91	0.00	
14300.00	90.00	269.72	8722.01	922.18	-5538.53	5597.49	0.00	
14400.00	90.00	269.72	8722.01	921.69	-5638.53	5697.07	0.00	
14500.00	90.00	269.72	8722.01	921.20	-5738.53	5796.65	0.00	
14600.00	90.00	269.72	8722.01	920.72	-5838.53	5896.24	0.00	
14700.00	90.00	269.72	8722.01	920.23	-5938.53	5995.82	0.00	
14800.00	90.00	269.72	8722.01	919.74	-6038.53	6095.40	0.00	
14900.00	90.00	269.72	8722.01	919.25	-6138.53	6194.99	0.00	
15000.00	90.00	269.72	8722.01	918.76	-6238.52	6294.57	0.00	
15100.00	90.00	269.72	8722.01	918.27	-6338.52	6394.15	0.00	
15200.00	90.00	269.72	8722.01	917.78	-6438.52	6493.73	0.00	
15300.00	90.00	269.72	8722.01	917.29	-6538.52	6593.32	0.00	
15400.00	90.00	269.72	8722.01	916.80	-6638.52	6692.90	0.00	
15500.00	90.00	269.72	8722.01	916.31	-6738.52	6792.48	0.00	
15600.00	90.00	269.72	8722.01	915.82	-6838.52	6892.07	0.00	
15700.00	90.00	269.72	8722.01	915.34	-6938.52	6991.65	0.00	
15800.00	90.00	269.72	8722.01	914.85	-7038.51	7091.23	0.00	
15900.00	90.00	269.72	8722.01	914.36	-7138.51	7190.81	0.00	
16000.00	90.00	269.72	8722.01	913.87	-7238.51	7290.40	0.00	
16100.00	90.00	269.72	8722.01	913.38	-7338.51	7389.98	0.00	
16200.00	90.00	269.72	8722.01	912.89	-7438.51	7489.56	0.00	
16300.00	90.00	269.72	8722.01	912.40	-7538.51	7589.15	0.00	
16400.00	90.00	269.72	8722.01	911.91	-7638.51	7688.73	0.00	
16500.00	90.00	269.72	8722.01	911.42	-7738.51	7788.31	0.00	
16600.00	90.00	269.72	8722.01	910.93	-7838.51	7887.89	0.00	
16700.00	90.00	269.72	8722.01	910.44	-7938.50	7987.48	0.00	
16800.00	90.00	269.72	8722.01	909.96	-8038.50	8087.06	0.00	
16900.00	90.00	269.72	8722.01	909.47	-8138.50	8186.64	0.00	
17000.00	90.00	269.72	8722.01	908.98	-8238.50	8286.22	0.00	
17100.00	90.00	269.72	8722.01	908.49	-8338.50	8385.81	0.00	
17200.00	90.00	269.72	8722.01	908.00	-8438.50	8485.39	0.00	
17300.00	90.00	269.72	8722.01	907.51	-8538.50	8584.97	0.00	
17400.00	90.00	269.72	8722.01	907.02	-8638.50	8684.56	0.00	
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17900.00	90.00	269.72	8722.01	904.58	-9138.49	9182.47	0.00	
18000.00	90.00	269.72	8722.01	904.09	-9238.49	9282.05	0.00	
18100.00	90.00	269.72	8722.01	903.60	-9338.49	9381.64	0.00	
18200.00	90.00	269.72	8722.01	903.11	-9438.49	9481.22	0.00	
18300.00	90.00	269.72	8722.01	902.62	-9538.48	9580.80	0.00	
18400.00	90.00	269.72	8722.01	902.13	-9638.48	9680.38	0.00	
18500.00	90.00	269.72	8722.01	901.64	-9738.48	9779.97	0.00	
18600.00	90.00	269.72	8722.01	901.15	-9838.48	9879.55	0.00	
18700.00	90.00	269.72	8722.01	900.66	-9938.48	9979.13	0.00	
18800.00	90.00	269.72	8722.01	900.17	-10038.48	10078.71	0.00	
18900.00	90.00	269.72	8722.01	899.68	-10138.48	10178.30	0.00	
19000.00	90.00	269.72	8722.01	899.20	-10238.48	10277.88	0.00	
19045.73	90.00	269.72	8722.01	898.97	-10284.21	10323.42	0.00	exit
19100.00	90.00	269.72	8722.01	898.71	-10338.48	10377.46	0.00	
19125.73	90.00	269.72	8722.00	898.62	-10364.21	10403.09	0.00	BHL



FRONTIER 33-32 FED COM 613H

**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	150	0	150
9 7/8	8 5/8	32	J-55	GeoConn SCC	0	1850	0	1850
7 7/8	5 1/2	20	P110EC	DWC/IS-C+	0	19126	0	8722

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

**3. Cementing Program (Primary Design)**

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	146	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	266	0	13.2	1.44	Tail: Class H / C + additives
Production	567	0	9	3.27	Lead: Class H / C + additives
	1704	8232	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

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.

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**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"	2M	Annular		800psi
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*   Diverter	x	
Production	13-5/8"	5M	Annular (5M)	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*		
Y	A variance is requested for the use of a diverter on intermediate cs, Diverter will be used for 9.875" section. See attached for representative diverter diagram				
	Rental diverter will comply with API S64 and schematic available for inspection prior to field testing and install on wellhead				
Y	A variance is requested to run a 5 M annular on a 10M system				

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**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 Report and submitted 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	Specify what type and where?
BH pressure at deepest TVD	4762
Abnormal temperature	No

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

Hydrogen 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.

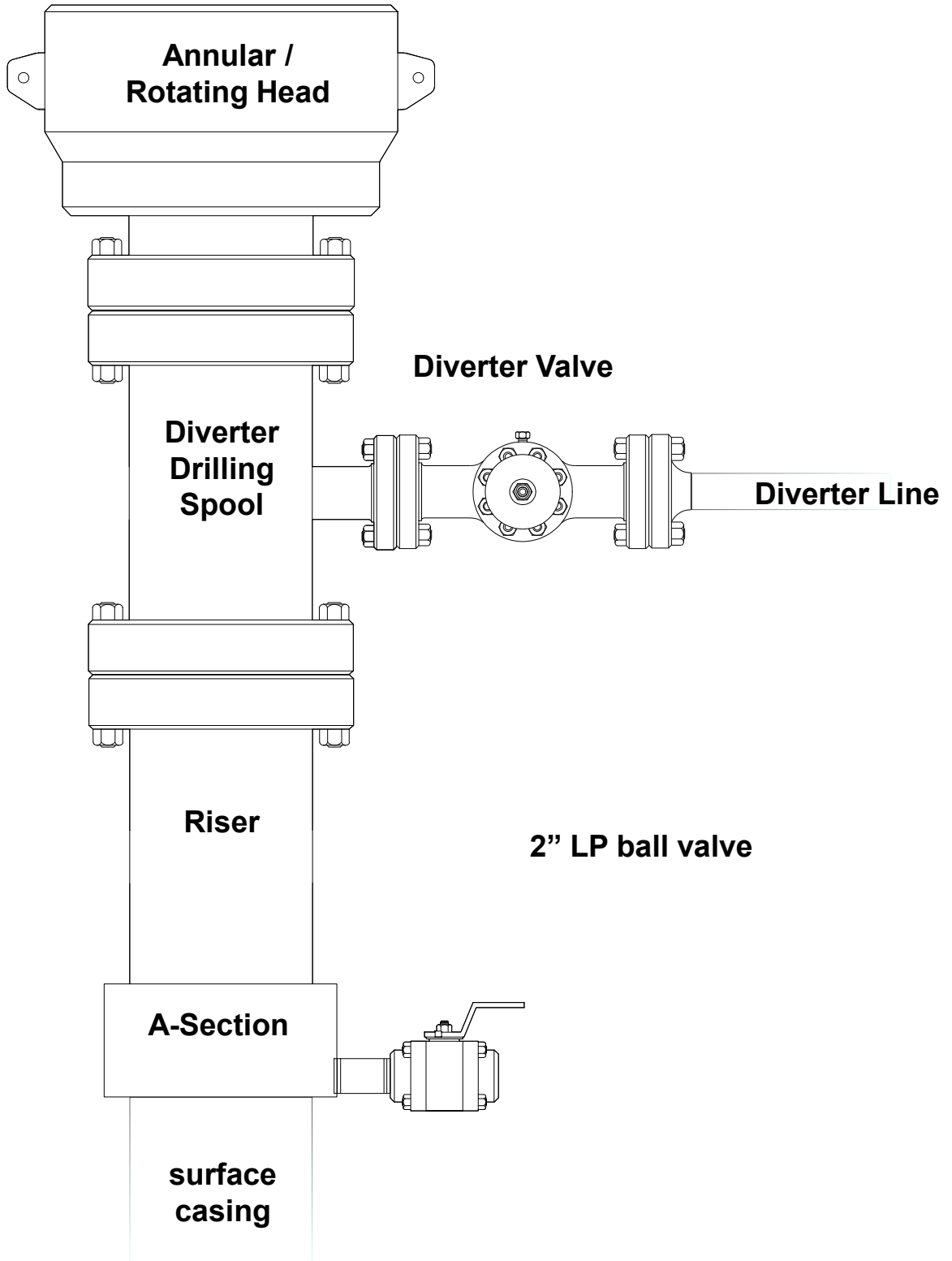
NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface and intermediate 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 After drilling the intermediate 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).
- 4 Diverter will comply with API S64 and field pressure tested to 800psi at rig up.
- 5 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 6 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.
- 7 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 8 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 9 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped 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 Energy Offline Production Cementing

10/2025

REV5



NYSE: DVN  
devonenergy.com



# 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

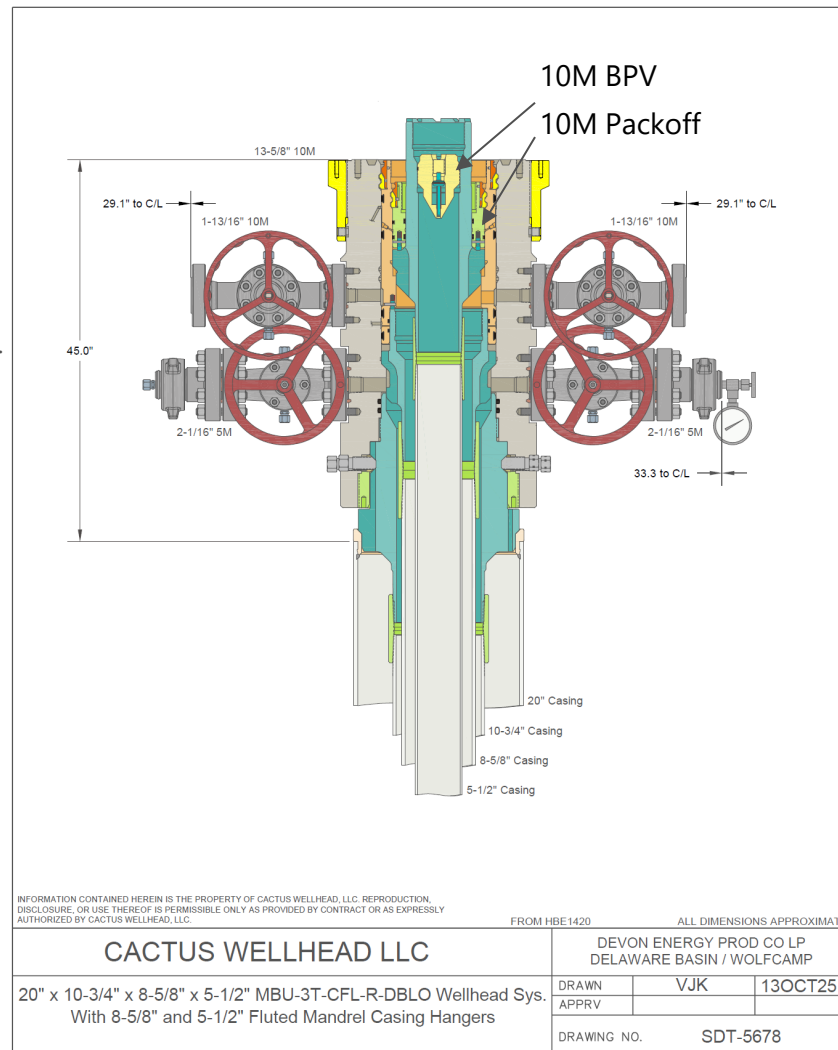
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- **Devon's Proposed Production Offline Procedure (continued):**
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold 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

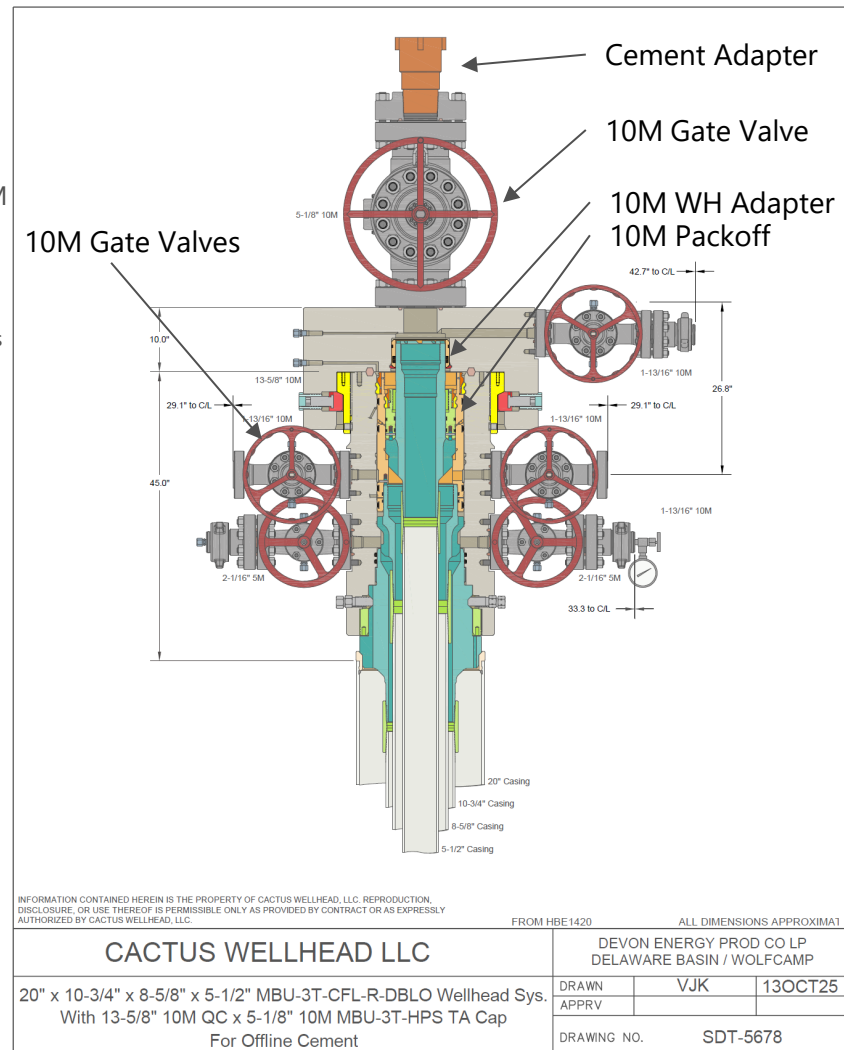
- Run casing and perform negative pressure test during casing run to verify integrity of float equipment’s 10,000psi backpressure valves.
  - Review Devon’s “Punch List” to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with 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.



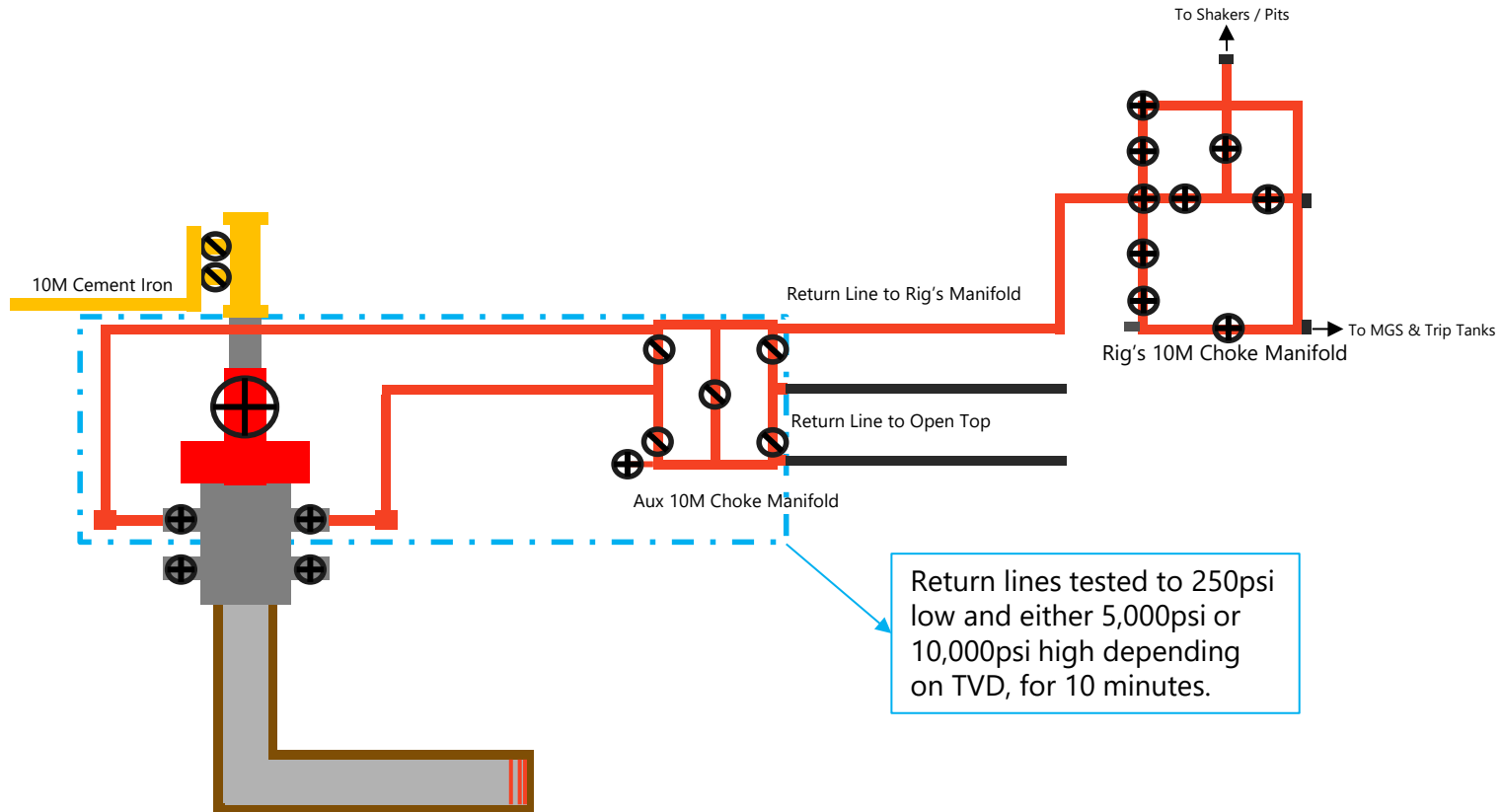
Casing Barrier	Rating	Backside Barrier	Rating
BPV	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi		

# 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.



# Offline Flow Path



Return lines tested to 250psi low and either 5,000psi or 10,000psi high depending on TVD, for 10 minutes.

- ⊕ 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.



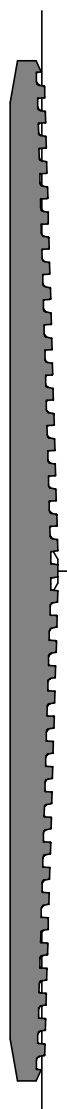
**8.625 " 32.00 lb/ft ( 0.352 " wall ) J55 GEOCONN®**



**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

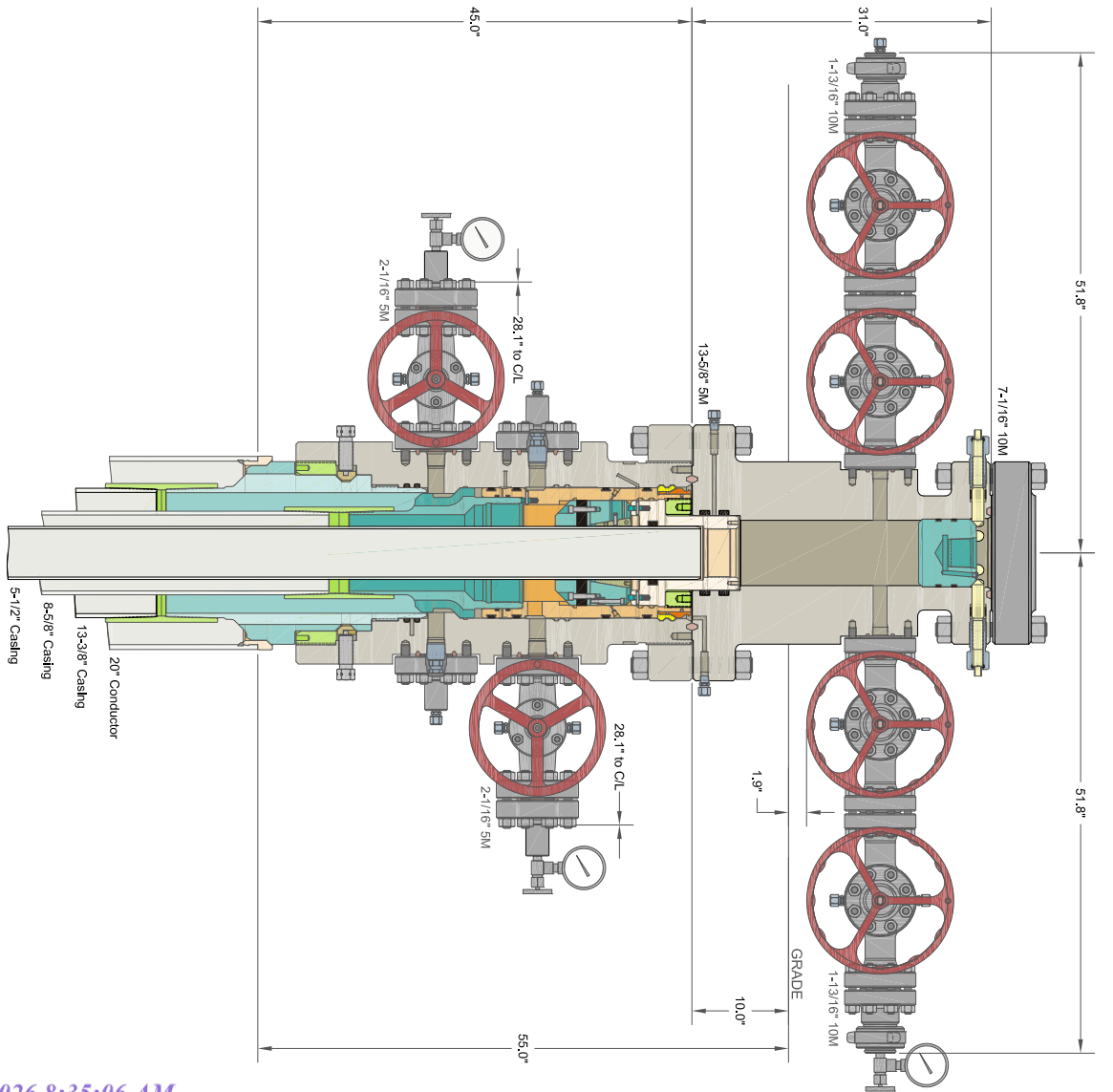
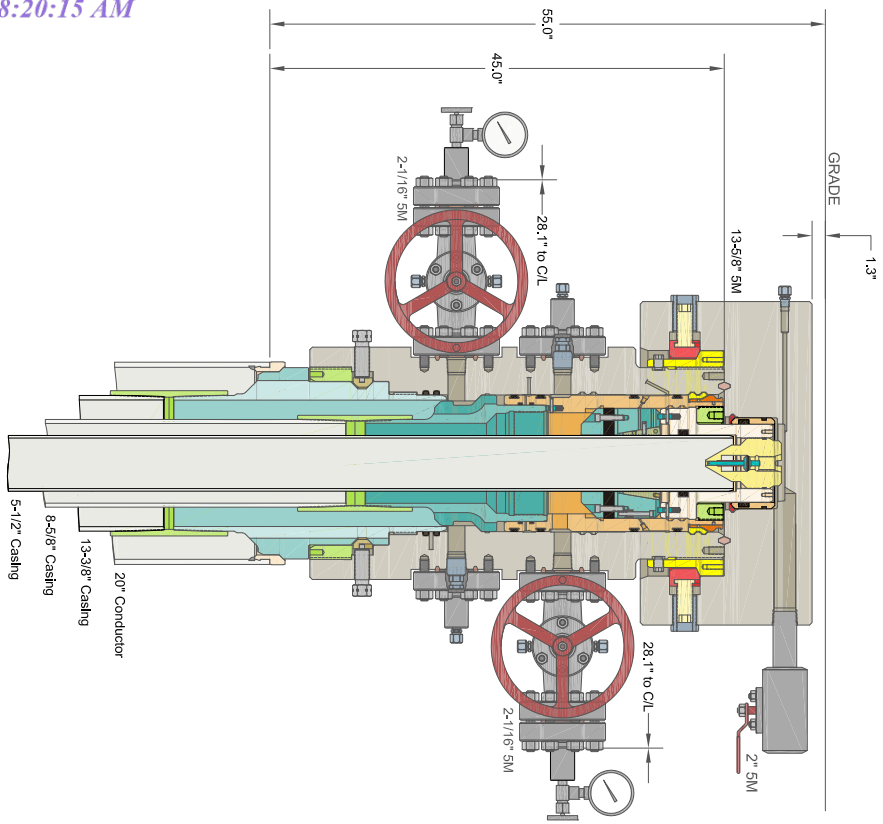
Notes:

1. Operational Maximum Torque can be applied for high torque application
2. Option of Resilience Ring is available for GEOCONN
3. Interchangeable with API BC

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# CACTUS WELLHEAD LLC

20" x 13-3/8" x 8-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO Wellhead Sys.  
With Quick Connect Top TA Cap, 5-1/2" Emergency Slip Hanger  
And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

ALL DIMENSIONS APPROXIMATE

DEVON ENERGY CORPORATION  
DELAWARE BASIN

DRAWN DLE 25FEB19  
APPRV

DRAWING NO. SDT-1929



**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.

## 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

Frontier 33-32 Fed Com 613H

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	37.54	5.8	2.71	417	15	4.53	10.95	22,727	
"B"				btc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	417			22,727	
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	146	210	290	-27	9.00	602	2M				1.56	
Site plan (pipe racks for F) as per D.D.1.11 D.4.1 not found													

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	6.98	2.51	0.83	1,850	4	1.38	4.20	59,200
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	1,850			59,200
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 417 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	266	383	373	3	10.50	2839	3M				0.44
D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage %:								266	383			3
Class 'H' tail cmt yld > 1.20												
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 2.12, 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+	4.18	2.54	3.02	19,126	3	5.06	4.26	382,520
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,919								Totals:	19,126			382,520
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1850 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	2271	4308	3321	30	10.50						0.79
Class 'C' tail cmt yld > 1.35												

#N/A				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.												

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	WPX Energy Permian LLC
<b>LOCATION:</b>	Section 33, T.23 S., R.26 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Frontier 33-32 Fed Com 611H
<b>ATS/API ID:</b>	ATS-25-1108
<b>APD ID:</b>	104000103686
<b>Sundry ID:</b>	2894528

<b>WELL NAME &amp; NO.:</b>	Frontier 33-32 Fed Com 613H
<b>ATS/API ID:</b>	ATS-25-1112
<b>APD ID:</b>	104000103689
<b>Sundry ID:</b>	2894531

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	<input checked="" type="checkbox"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	Diverter		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention None	
Special Requirements Variance	<input checked="" type="checkbox"/> BOPE Break Testing <input checked="" type="checkbox"/> Offline BOPE Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 **417 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.**

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing shall be set at approximately **1850 feet** 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.**

❖ In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.

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

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. 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.**

### 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 tested to **800** psi. A Diverter system is approved as a variance to drill the **8 5/8** inch intermediate casing section in a **9 7/8** inch hole.
- 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:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be tested to **800** psi. A Diverter system is approved as a variance to drill the **8 5/8** inch intermediate casing section in a **9 7/8** inch hole.
- b. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **8-5/8** 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.

**(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 Choose an item. 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 **Eddy County: 575-361-2822**.

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 **Eddy County: 575-361-2822**.

## 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)

Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV)

(575) 361-2822

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 2<sup>nd</sup> 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) 3/5/2026

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**

ACKNOWLEDGMENTS

Action 560875

**ACKNOWLEDGMENTS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 560875
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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CONDITIONS

Action 560875

**CONDITIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
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	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
tshandee	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/9/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/21/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/21/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	4/21/2026
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.	4/21/2026
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.	4/21/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	4/21/2026
jeffrey.harrison	Administrative order required for non-standard location prior to production.	4/21/2026