Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-57027

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.

APPROVED WITH CONDITIONS

Approval Date: 06/10/2025

(Continued on page 2)

*(Instructions on page 2)

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name		
30-015-57027	39350	LIVINGSTON RIDGE; BONE SPRING		
Property Code	**Property Name**		**Well Number**	
322487	BELLOQ 11 2 FED STATE COM		534H	
OGRID No.	**Operator Name**		**Ground Level Elevation**	
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.		3,467'	
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal		Mineral Owner: ☑ State ☐ Fee ☐ Tribal ☑ Federal		

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	11	23S	31E		306' FSL	2,258' FWL	32.312571°	-103.749815°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	2	23S	31E		20' FNL	2,310' FWL	32.340676°	-103.749681°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
319.64	Defining	Pending	Y	CF
Order Numbers.	Pending		Well setbacks are under Common Ownership: ☐Yes ☒No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	11	23S	31E		41' FSL	2,308 FWL	32.31174646	-103.74973464	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	11	23S	31E		100' FSL	2,310' FWL	32.312004°	-103.749645°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	2	23S	31E		100' FNL	2,310' FWL	32.340456°	-103.749680°	EDDY

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

OPERATOR CERTIFICATIONS		SURVEYOR CERTIFICATIONS	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest 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.		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR Date: 2/21/2025	
Signature: Shandee Thomas	Date: 2/25/25	Signature and Seal of Professional Surveyor	
Printed Name: SHANDEE THOMAS		Certificate Number: 12177	Date of Survey: 2/21/2025
Email Address: SHANDEE.THOMAS@DVN.COM			

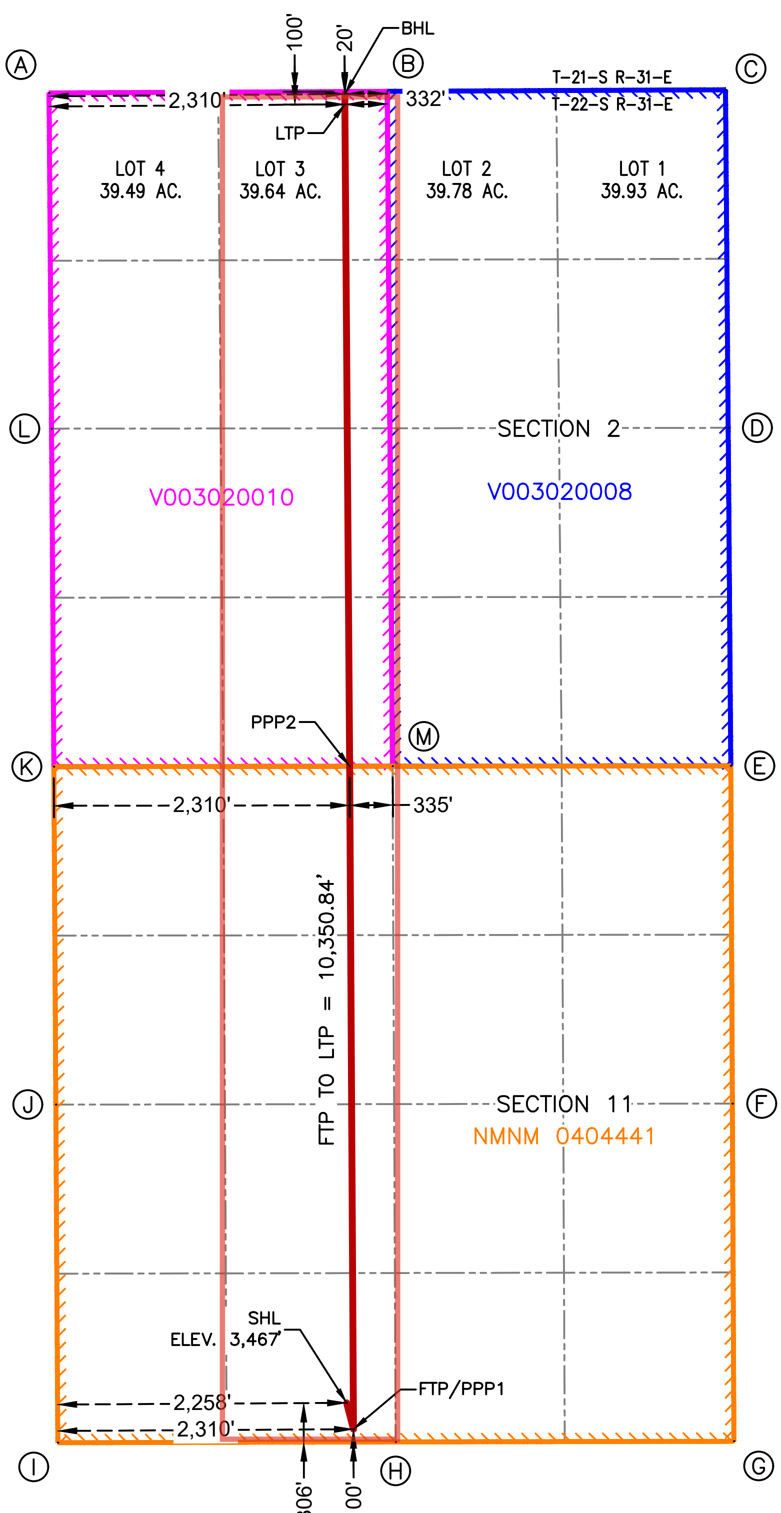
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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

BELLOQ 11 2 FED STATE COM 534H



SURFACE HOLE LOCATION
306' FSL & 2,258' FWL
ELEV. = 3,467'

NAD 83 X = 721,606.33'
NAD 83 Y = 477,936.34'
NAD 83 LAT = 32.312571°
NAD 83 LONG = -103.749815°

KICK-OFF POINT
41' FSL & 2,308' FWL

NAD 83 X = 721658'
NAD 83 Y = 477671'
NAD 83 LAT = 32.31174646°
NAD 83 LONG = -103.74973464°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FSL & 2,310' FWL

NAD 83 X = 721,660.00'
NAD 83 Y = 477,730.34'
NAD 83 LAT = 32.312004°
NAD 83 LONG = -103.749645°

PENETRATION POINT 2
0' FNL & 2,310' FWL

NAD 83 X = 721,629.63'
NAD 83 Y = 482,909.87'
NAD 83 LAT = 32.326241°
NAD 83 LONG = -103.749652°

LAST TAKE POINT
100' FNL & 2,310' FWL

NAD 83 X = 721,592.64'
NAD 83 Y = 488,080.96'
NAD 83 LAT = 32.340456°
NAD 83 LONG = -103.749680°

BOTTOM HOLE LOCATION
20' FNL & 2,310' FWL

NAD 83 X = 721,592.04'
NAD 83 Y = 488,160.95'
NAD 83 LAT = 32.340676°
NAD 83 LONG = -103.749681°

CORNER COORDINATES
NEW MEXICO EAST - NAD 83

POINT	NORTHING/EASTING
A	IRON PIPE W/ BRASS CAP N:488,170.14' E:719,281.91'
B	CALCULATED CORNER N:488,182.51' E:721,923.94'
C	IRON PIPE W/ BRASS CAP N:488,194.88' E:724,565.97'
D	IRON PIPE W/ BRASS CAP N:485,553.70' E:724,586.82'
E	IRON PIPE W/ BRASS CAP N:482,913.36' E:724,607.28'
F	IRON PIPE W/ BRASS CAP N:480,274.46' E:724,619.43'
G	IRON PIPE W/ BRASS CAP N:477,636.02' E:724,631.58'
H	IRON PIPE W/ BRASS CAP N:477,631.12' E:721,989.07'
I	IRON PIPE W/ BRASS CAP N:477,624.81' E:719,350.58'
J	IRON PIPE W/ BRASS CAP N:480,266.04' E:719,334.92'
K	IRON PIPE W/ BRASS CAP N:482,906.14' E:719,319.63'
L	IRON PIPE W/ BRASS CAP N:485,547.22' E:719,301.45'
M	IRON PIPE W/ BRASS CAP N:482,910.41' E:721,965.14'

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, L.P. **OGRID:** 6137 **Date:** 6 / 12 / 2024

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 Attached						

IV. Central Delivery Point Name: SEE ATTACHMENTS [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 Attached						

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.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

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

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

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	FOOTAGES				Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Belloq 11-2 Fed State Com 121H		11-23S-31E	888	FWL	306	FSL	(+/-)1997bopd/(+/-)2796mcfd/(+/-)5763bwpd		
Belloq 11-2 Fed State Com 122H		11-23S-31E	2228	FWL	306	FSL	(+/-)1997bopd/(+/-)2796mcfd/(+/-)5763bwpd		
Belloq 11-2 Fed State Com 123H		11-23S-31E	2288	FWL	306	FSL	(+/-)1997bopd/(+/-)2796mcfd/(+/-)5763bwpd		
Belloq 11-2 Fed State Com 301H		11-23S-31E	827	FWL	156	FSL	(+/-)1130bopd/(+/-)2839mcfd/(+/-)6074bwpd		
Belloq 11-2 Fed State Com 302H		11-23S-31E	917	FWL	156	FSL	(+/-)1130bopd/(+/-)2839mcfd/(+/-)6074bwpd		
Belloq 11-2 Fed State Com 303H		11-23S-31E	2257	FWL	156	FSL	(+/-)1130bopd/(+/-)2839mcfd/(+/-)6074bwpd		
Belloq 11-2 Fed State Com 531H		11-23S-31E	858	FWL	306	FSL	(+/-)1344bopd/(+/-)3270mcfd/(+/-)2353bwpd		
Belloq 11-2 Fed State Com 532H		11-23S-31E	918	FWL	306	FSL	(+/-)1344bopd/(+/-)3270mcfd/(+/-)2353bwpd		
Belloq 11-2 Fed State Com 533H		11-23S-31E	2198	FWL	306	FSL	(+/-)1344bopd/(+/-)3270mcfd/(+/-)2353bwpd		
Belloq 11-2 Fed State Com 534H		11-23S-31E	2258	FWL	306	FSL	(+/-)1344bopd/(+/-)3270mcfd/(+/-)2353bwpd		
Belloq 11-2 Fed State Com 821H		11-23S-31E	857	FWL	156	FSL	(+/-)695bopd/(+/-)7600mcfd/(+/-)4370bwpd		
Belloq 11-2 Fed State Com 822H		11-23S-31E	887	FWL	156	FSL	(+/-)913bopd/(+/-)4641mcfd/(+/-)3197bwpd		
Belloq 11-2 Fed State Com 823H		11-23S-31E	2227	FWL	156	FSL	(+/-)695bopd/(+/-)7600mcfd/(+/-)4370bwpd		
Belloq 11-2 Fed State Com 824H		11-23S-31E	2287	FWL	156	FSL	(+/-)913bopd/(+/-)4641mcfd/(+/-)3197bwpd		

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
Belloq 11-2 Fed State Com 121H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 122H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 123H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 301H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 302H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 303H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 531H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 532H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 533H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 534H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 821H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 822H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 823H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025
Belloq 11-2 Fed State Com 824H		4/1/2025	5/1/2025	8/29/2025	8/29/2025	8/29/2025

*dates above are subject to change

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

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

WASTE MINIMIZATION PLAN

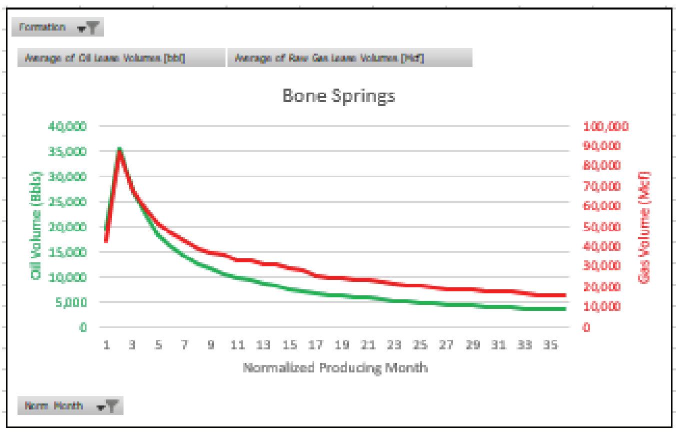
Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

(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.

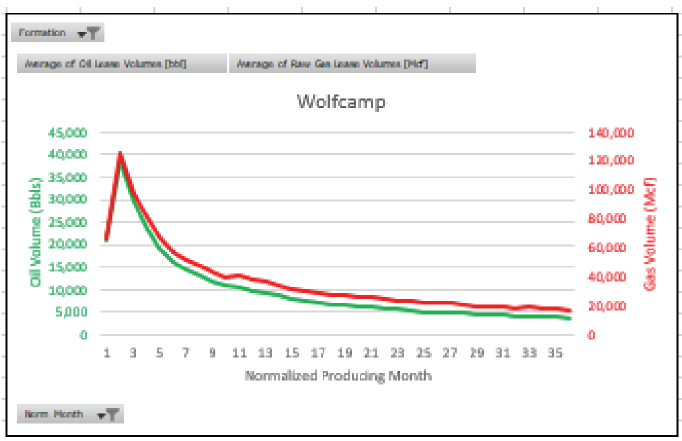
Bone Spring

Formation	BONE SPRING	
Row Labels	**Average of Oil Lease Volumes [bbl]**	**Average of Raw Gas Lease Volumes [Mcf]**
1	19,315	42,932
2	35,635	86,628
3	27,075	67,925
4	21,878	57,655
5	18,060	51,155
6	15,820	46,275
7	13,959	42,395
8	12,424	38,696
9	11,573	37,367
10	10,659	35,824
11	9,741	33,508
12	9,337	33,054
13	8,588	30,966
14	8,233	30,838
15	7,655	29,293
16	7,196	27,837
17	6,769	25,681
18	6,391	24,902
19	6,288	24,863
20	6,018	23,768
21	5,776	23,100
22	5,411	22,178
23	5,101	21,196
24	5,029	20,968
25	4,740	20,122
26	4,639	19,322
27	4,478	19,023
28	4,424	18,634
29	4,341	18,585
30	4,184	18,114
31	4,105	17,970
32	3,938	17,446
33	3,782	16,732
34	3,649	16,145
35	3,576	15,671
36	3,596	15,727
Grand Total	**9,261**	**30,347**



Wolfcamp

Formation	WOLFCAMP	
Row Labels	**Average of Oil Lease Volumes [bbl]**	**Average of Raw Gas Lease Volumes [Mcf]**
1	20,900	66,190
2	38,616	125,577
3	29,391	97,071
4	23,540	81,028
5	19,277	67,504
6	16,133	57,289
7	14,454	51,967
8	13,013	47,238
9	11,879	43,012
10	10,914	40,210
11	10,409	40,318
12	9,779	37,823
13	9,240	36,371
14	8,634	34,674
15	7,883	31,771
16	7,462	29,739
17	7,017	28,445
18	6,647	27,460
19	6,616	27,761
20	6,199	26,312
21	6,154	26,419
22	5,816	25,044
23	5,670	24,134
24	5,393	23,334
25	5,150	22,182
26	5,074	22,068
27	4,986	21,678
28	4,824	21,024
29	4,637	19,807
30	4,480	19,172
31	4,373	19,370
32	4,218	18,642
33	4,251	18,901
34	3,995	17,906
35	3,930	17,596
36	3,815	16,957
Grand Total	**9,855**	**37,000**



(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, takng 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

1. Geologic Formations

TVD of target	8950	Pilot hole depth	N/A
MD at TD:	19216	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	700		
Salt	1075		
Base of Salt	4200		
Delaware	4200		
Cherry Canyon	5350		
Brushy Canyon	6600		
1st Bone Spring Lime	8275		
Avalon	8472		
Salado, #126	1968		

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

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J-55	BTC	0	725 MD	0	725 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0	4300 MD	0	4300 TVD
9 7/8	8 5/8	32.0	P110	MOFXL	0	8298	0	8298
7 7/8	5 1/2	20.0	P110HP	CDC-HTQ	0	19216 MD	0	8950 TVD

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.
• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	563	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	280	Surf	9.0	3.3	Lead: Class C Cement + additives
	114	3720	13.2	1.4	Tail: Class H / C + additives
Int 2					
	48	7700	13.2	1.4	Tail: Class H / C + additives
Int 2 Intermediate Squeeze, post completion	419	3000	9.0	1.4	Squeeze Lead: Class C Cement + additives
Production	117	6398	9.0	3.3	Lead: Class H /C + additives
	1432	8398	13.2	1.4	Tail: Class H / C + additives

- Devon will design around R111-Q: 4 String, Open 1st Int and 2nd Int Annulus, Figure D
- Int 2 TOC will be, prior to completion, brought up to the 500ft above 1st Bone Spring Lime, leaving an open annulus for pressure monitoring
- Following completion, a cement top out will be performed to bring TOC 500ft into Int 1, but below the POTASH interval
- Int 2 cement will adhere to R111-Q requirements

Casing String	% Excess
Surface	50%
Intermediate	30%
Intermediate 2	0%
Production	10%

4. Pressure Control Equipment (Four String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:
Int	13-5/8"	5M	Annular		X	50% of rated working pressure
			Blind Ram		X	5M
			Pipe Ram			
			Double Ram		X	
			Other*			
Int 2	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*			

5. Mud Program (Four String Design)

Section	Type	Weight (ppg)
Surface	WBM	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Intermediate 2	WBM	8.5-9
Production	WBM	8.5-9

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4189
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments

X________ Directional Plan

__________ Other, describe

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 nippled 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.

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

Drilling Plan Data Report

06/11/2025

APD ID: 10400099456 **Submission Date:** 07/03/2024

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11 2 FED STATE COM **Well Number:** 534H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15804522	UNKNOWN	3467	0	0	ALLUVIUM	NONE	N
15804528	RUSTLER	2767	700	700	SANDSTONE	NONE	N
15804523	TOP SALT	2392	1075	1075	SALT	NONE	N
15804524	BASE OF SALT	-733	4200	4200	SALT	NONE	N
15804541	BELL CANYON	-983	4450	4450	SANDSTONE	NATURAL GAS, OIL	N
15804542	CHERRY CANYON	-1883	5350	5350	SANDSTONE	NATURAL GAS, OIL	N
15804543	BRUSHY CANYON	-3133	6600	6600	SANDSTONE	NATURAL GAS, OIL	N
15804545	BONE SPRING 1ST	-5883	9350	9350	SANDSTONE	NATURAL GAS, OIL	N
15804546	BONE SPRING 2ND	-6433	9900	9900	SANDSTONE	NATURAL GAS, OIL	N
15804555	BONE SPRING 3RD	-6983	10450	10450	LIMESTONE	NATURAL GAS, OIL	N
15804552	BONE SPRING 3RD	-7683	11150	11150	SANDSTONE	NATURAL GAS, OIL	N
15804553	WOLFCAMP	-8133	11600	11600	SHALE	NATURAL GAS, OIL	N
15804554	STRAWN	-9833	13300	13300	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

devon

Commitment Runs Deep

Design Plan
Operation and Maintenance Plan
Closure Plan

SENM – Closed Loop Systems
June 2010

I. Design Plan

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

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

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

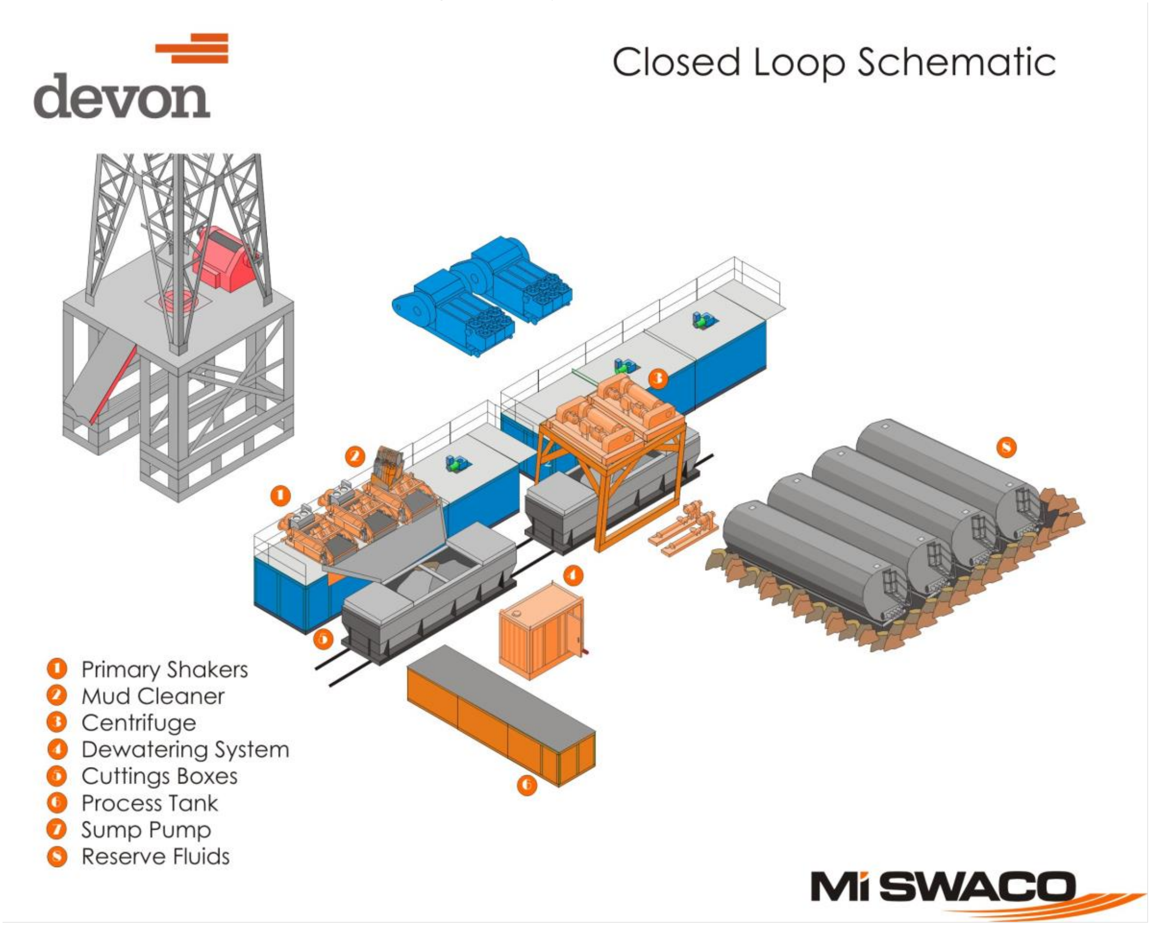
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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

II. Operations and Maintenance Plan

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

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



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

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

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

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

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

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

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

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

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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

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

III. Closure Plan

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

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)
Sec 11-T23S-R31E
BELLOQ 11-2 FED STATE COM 534H
WA022466013
Wellbore #1
Plat R0 (2310FWL) Avln

Anticollision Summary Report

20 November, 2024

Anticollision Summary Report

Company:	WCDSC Permian NM	**Local Co-ordinate Reference:**	Well BELLOQ 11-2 FED STATE COM 534H
Project:	Eddy County (NAD 83 NM Eastern)	**TVD Reference:**	GL:3467+26ft @ 3493.00ft
Reference Site:	Sec 11-T23S-R31E	**MD Reference:**	GL:3467+26ft @ 3493.00ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	BELLOQ 11-2 FED STATE COM 534H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM_5000.17
Reference Design:	Plat R0 (2310FWL) Avln	**Offset TVD Reference:**	Offset Datum

Reference	Plat R0 (2310FWL) Avln		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00ft	**Error Model:**	ISCWSA
Depth Range:	0.00 to 18,677.80ft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00ft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 11/20/2024

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	18,679.80	Plat R0 (2310FWL) Avln (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Sec 01-T23S-R31E						
Belloq 2 State 5H - Wellbore #1 - Actual	18,366.28	8,904.56	643.14	463.69	3.584	Alert, CC, ES
Belloq 2 State 5H - Wellbore #1 - Actual	18,400.00	8,903.92	644.03	464.31	3.584	Alert, SF
Sec 02-T23S-R31E						
Barclay State #002 (P&A) - Wellbore #1 - Wellbore #1	15,443.99	8,570.00	1,037.62	812.65	4.612	Alert, CC, ES
Barclay State #002 (P&A) - Wellbore #1 - Wellbore #1	15,500.00	8,570.00	1,039.13	813.52	4.606	Alert, SF
Barclay State #004 SWD (Active) - Wellbore #1 - Wellbo	14,122.80	8,550.00	1,045.53	791.77	4.120	Alert, CC, ES
Barclay State #004 SWD (Active) - Wellbore #1 - Wellbo	14,200.00	8,550.00	1,048.38	793.75	4.117	Alert, SF
Barclay State #009 (Active) - Wellbore #1 - Wellbore #1	18,073.85	8,600.00	1,027.88	713.87	3.273	Alert, CC, ES
Barclay State #009 (Active) - Wellbore #1 - Wellbore #1	18,100.00	8,600.00	1,028.22	713.87	3.271	Alert, SF
Belloq 2 State 2H - Original Hole - Final Surveys	18,582.03	8,899.36	559.87	379.97	3.112	Alert, CC, ES
Belloq 2 State 2H - Original Hole - Final Surveys	18,600.00	8,899.56	560.16	380.09	3.111	Alert, SF
Belloq 2 State 5H - Wellbore #1 - Wellbore #1	18,325.51	8,904.17	643.54	464.78	3.600	Alert, CC, ES, SF
Belloq 2 State 6H - Original Hole - Actual	18,675.45	8,901.16	429.78	248.53	2.371	Minor Risk, CC
Belloq 2 State 6H - Original Hole - Actual	18,677.80	8,901.15	429.78	248.50	2.371	Minor Risk, ES, SF
State 2 #001 (P&A) - Wellbore #1 - Wellbore #1	16,754.04	8,455.00	1,076.17	842.40	4.604	Alert, CC, ES
State 2 #001 (P&A) - Wellbore #1 - Wellbore #1	16,800.00	8,455.00	1,077.16	842.85	4.597	Alert, SF
State 2 #002 (Temp Abandoned) - Wellbore #1 - Wellbor	18,078.03	8,515.00	510.24	312.67	2.583	Alert, CC, ES
State 2 #002 (Temp Abandoned) - Wellbore #1 - Wellbor	18,100.00	8,515.00	510.71	312.92	2.582	Alert, SF
State 2 #003 (Temp Abandoned) - Wellbore #1 - Wellbor	16,756.85	8,500.00	510.35	327.85	2.796	Alert, CC, ES, SF
State 2 #004 (P&A) - Wellbore #1 - Wellbore #1	15,450.91	8,468.00	528.79	365.34	3.235	Alert, CC, ES, SF
State 2 #005 (Temp Abandoned) - Wellbore #1 - Wellbor	14,131.10	8,550.00	469.05	304.83	2.856	Alert, CC, ES, SF
State 2 #007C - Wellbore #1 - Wellbore #1	16,761.23	8,700.00	1,663.69	1,409.48	6.545	CC
State 2 #007C - Wellbore #1 - Wellbore #1	16,800.00	8,700.00	1,664.14	1,409.42	6.533	ES
State 2 #007C - Wellbore #1 - Wellbore #1	16,900.00	8,700.00	1,669.46	1,413.73	6.528	SF
Sweet Pea SWD #001 (Active) - Wellbore #1 - Wellbore	15,459.29	8,510.00	1,694.69	1,464.95	7.376	CC
Sweet Pea SWD #001 (Active) - Wellbore #1 - Wellbore	15,500.00	8,510.00	1,695.18	1,464.91	7.362	ES
Sweet Pea SWD #001 (Active) - Wellbore #1 - Wellbore	15,600.00	8,510.00	1,700.52	1,469.19	7.351	SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	WCDSC Permian NM	**Local Co-ordinate Reference:**	Well BELLOQ 11-2 FED STATE COM 534H
Project:	Eddy County (NAD 83 NM Eastern)	**TVD Reference:**	GL:3467+26ft @ 3493.00ft
Reference Site:	Sec 11-T23S-R31E	**MD Reference:**	GL:3467+26ft @ 3493.00ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	BELLOQ 11-2 FED STATE COM 534H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM_5000.17
Reference Design:	Plat R0 (2310FWL) Avln	**Offset TVD Reference:**	Offset Datum

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Sec 11-T23S-R31E						
Barclay 11 G Federal #007 (P&A) - Wellbore #1 - Wellbo	11,483.21	8,500.00	1,069.32	900.37	6.329	CC
Barclay 11 G Federal #007 (P&A) - Wellbore #1 - Wellbo	11,500.00	8,500.00	1,069.45	900.32	6.323	ES
Barclay 11 G Federal #007 (P&A) - Wellbore #1 - Wellbo	11,600.00	8,500.00	1,075.68	905.51	6.321	SF
Barclay 11 K Federal #011 (Active) - Wellbore #1 - Wellb	10,125.90	8,580.00	461.27	292.37	2.731	Alert, CC, ES, SF
Barclay 11 N Federal #014 - Wellbore #1 - Wellbore #1	8,778.75	8,589.29	335.51	110.69	1.492	Major Risk, CC, ES, SF
Belloq 11 Fed 222H - Wellbore #1 - Wellbore #1	8,237.40	8,302.70	604.08	544.98	10.220	CC, ES
Belloq 11 Fed 222H - Wellbore #1 - Wellbore #1	8,400.00	8,430.85	612.03	551.72	10.148	SF
BELLOQ 11-2 FED STATE COM 121H - Wellbore #1 - P	1,500.00	1,469.00	1,369.94	1,359.43	130.416	CC, ES
BELLOQ 11-2 FED STATE COM 121H - Wellbore #1 - P	18,677.80	19,956.20	1,898.49	1,621.95	6.865	SF
BELLOQ 11-2 FED STATE COM 122H - Wellbore #1 - P	1,500.00	1,498.00	30.00	19.39	2.828	Alert, CC, ES
BELLOQ 11-2 FED STATE COM 122H - Wellbore #1 - P	1,600.00	1,597.27	31.48	20.20	2.789	Alert, SF
BELLOQ 11-2 FED STATE COM 123H - Wellbore #1 - P	1,466.33	1,467.33	30.00	19.62	2.891	Alert, CC
BELLOQ 11-2 FED STATE COM 123H - Wellbore #1 - P	1,500.00	1,500.99	30.00	19.38	2.825	Alert, ES
BELLOQ 11-2 FED STATE COM 123H - Wellbore #1 - P	1,600.00	1,600.00	30.90	19.61	2.736	Alert, SF
BELLOQ 11-2 FED STATE COM 124H - Wellbore #1 - P	7,503.85	7,541.09	1,716.13	1,662.69	32.116	CC
BELLOQ 11-2 FED STATE COM 124H - Wellbore #1 - P	18,677.80	19,972.72	1,931.28	1,649.85	6.862	ES, SF
Belloq 11-2 Fed State Com 223H - Wellbore #1 - Wellbor	8,079.89	8,159.15	1,317.85	1,259.82	22.711	CC
Belloq 11-2 Fed State Com 223H - Wellbore #1 - Wellbor	8,100.00	8,178.52	1,317.86	1,259.70	22.658	ES
Belloq 11-2 Fed State Com 223H - Wellbore #1 - Wellbor	18,677.80	20,526.00	1,911.02	1,676.53	8.150	SF
BELLOQ 11-2 FED STATE COM 303H - Wellbore #1 - P	6,583.66	6,578.31	55.42	9.10	1.197	Major Risk, CC
BELLOQ 11-2 FED STATE COM 303H - Wellbore #1 - P	7,600.00	7,594.35	60.07	6.53	1.122	Major Risk, ES, SF
BELLOQ 11-2 FED STATE COM 304H - Wellbore #1 - P	7,503.85	7,521.94	661.12	608.04	12.454	CC
BELLOQ 11-2 FED STATE COM 304H - Wellbore #1 - P	7,800.00	7,816.01	661.95	606.91	12.027	ES
BELLOQ 11-2 FED STATE COM 304H - Wellbore #1 - P	18,677.80	20,948.57	1,991.97	1,806.96	10.767	SF
BELLOQ 11-2 FED STATE COM 531H - Wellbore #1 - P	1,500.00	1,469.00	1,399.94	1,389.43	133.272	CC, ES
BELLOQ 11-2 FED STATE COM 531H - Wellbore #1 - P	18,677.80	18,840.60	1,980.25	1,677.56	6.542	SF
BELLOQ 11-2 FED STATE COM 532H - Wellbore #1 - P	7,629.03	7,598.08	1,320.01	1,266.19	24.529	CC
BELLOQ 11-2 FED STATE COM 532H - Wellbore #1 - P	18,677.80	19,043.57	1,320.32	1,015.93	4.338	Alert, ES, SF
BELLOQ 11-2 FED STATE COM 533H - Wellbore #1 - P	1,500.00	1,498.00	60.00	49.39	5.656	CC, ES
BELLOQ 11-2 FED STATE COM 533H - Wellbore #1 - P	18,677.80	19,072.28	660.01	356.12	2.172	Minor Risk, SF
BELLOQ 11-2 FED STATE COM 535H - Wellbore #1 - P	7,503.85	7,646.42	881.12	826.61	16.164	CC
BELLOQ 11-2 FED STATE COM 535H - Wellbore #1 - P	18,677.80	19,167.67	884.58	581.54	2.919	Alert, ES, SF
BELLOQ 11-2 FED STATE COM 536H - Wellbore #1 - P	7,503.85	7,539.92	1,761.13	1,707.76	33.001	CC
BELLOQ 11-2 FED STATE COM 536H - Wellbore #1 - P	18,677.80	19,064.66	1,764.35	1,460.70	5.811	ES, SF
BELLOQ 11-2 FED STATE COM 538H - Wellbore #1 - P	7,503.85	7,586.46	1,321.13	1,267.14	24.474	CC
BELLOQ 11-2 FED STATE COM 538H - Wellbore #1 - P	18,677.80	19,110.96	1,324.40	1,021.10	4.367	Alert, ES, SF
Belloq 11-2 Fed State Com 613H - Wellbore #1 - Final su	7,540.29	7,580.53	325.82	271.13	5.958	CC
Belloq 11-2 Fed State Com 613H - Wellbore #1 - Final su	7,600.00	7,639.02	326.07	270.97	5.918	ES
Belloq 11-2 Fed State Com 613H - Wellbore #1 - Final su	7,800.00	7,836.51	330.61	274.07	5.847	SF
Belloq 11-2 Fed State Com 701H - Wellbore #1 - Final S	1,438.99	1,429.72	355.66	347.16	41.877	CC, ES
Belloq 11-2 Fed State Com 701H - Wellbore #1 - Final S	18,677.80	22,016.00	3,213.65	3,018.91	16.502	SF
Belloq 11-2 Fed State Com 702H - Wellbore #1 - Final S	7,400.00	7,402.05	89.38	45.93	2.057	Minor Risk, CC
Belloq 11-2 Fed State Com 702H - Wellbore #1 - Final S	7,404.45	7,406.49	89.38	45.91	2.056	Minor Risk, ES
Belloq 11-2 Fed State Com 702H - Wellbore #1 - Final S	7,500.00	7,501.93	89.97	45.98	2.045	Minor Risk, SF
Belloq 11-2 Fed State Com 812H - Wellbore #1 - Final S	100.00	91.51	336.76	335.68	310.363	CC
Belloq 11-2 Fed State Com 812H - Wellbore #1 - Final S	1,700.00	1,686.10	343.47	333.46	34.305	ES
Belloq 11-2 Fed State Com 812H - Wellbore #1 - Final S	8,000.00	7,983.07	645.11	598.65	13.885	SF
BELLOQ 11-2 FED STATE COM 813H - Wellbore #1 - P	7,503.85	7,522.35	571.12	517.99	10.748	CC
BELLOQ 11-2 FED STATE COM 813H - Wellbore #1 - P	7,700.00	7,717.90	571.34	516.89	10.494	ES
BELLOQ 11-2 FED STATE COM 813H - Wellbore #1 - P	8,000.00	8,008.77	577.71	521.32	10.246	SF
BELLOQ 11-2 FED STATE COM 823H - Wellbore #1 - P	1,811.94	1,805.48	149.43	136.73	11.772	CC, ES
BELLOQ 11-2 FED STATE COM 823H - Wellbore #1 - P	2,700.00	2,686.08	187.51	168.72	9.981	SF
BELLOQ 11-2 FED STATE COM 824H - Wellbore #1 - P	1,810.09	1,805.63	149.49	136.80	11.782	CC, ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	WCDSC Permian NM	**Local Co-ordinate Reference:**	Well BELLOQ 11-2 FED STATE COM 534H
Project:	Eddy County (NAD 83 NM Eastern)	**TVD Reference:**	GL:3467+26ft @ 3493.00ft
Reference Site:	Sec 11-T23S-R31E	**MD Reference:**	GL:3467+26ft @ 3493.00ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	BELLOQ 11-2 FED STATE COM 534H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM_5000.17
Reference Design:	Plat R0 (2310FWL) Avln	**Offset TVD Reference:**	Offset Datum

Summary

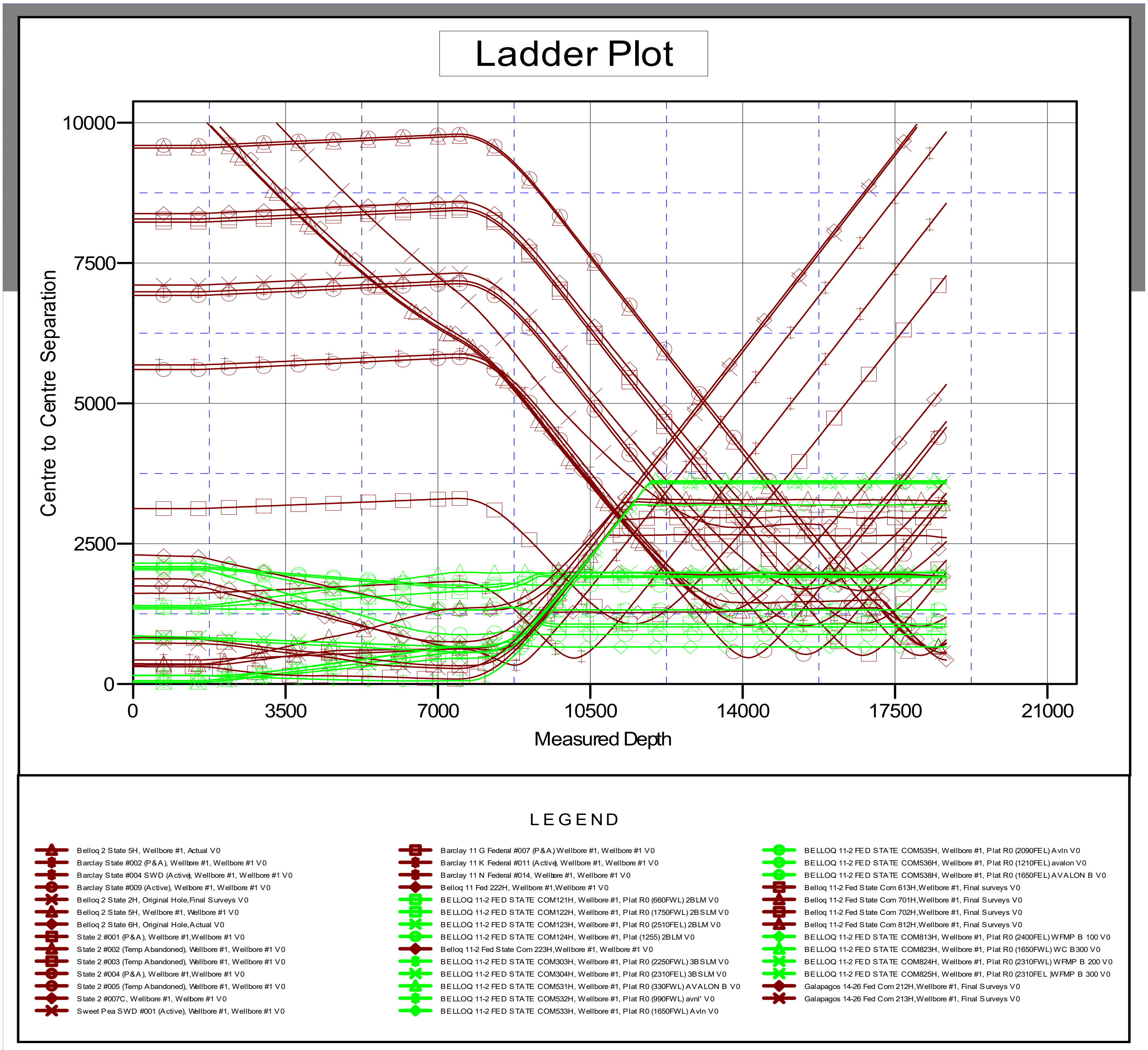
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Sec 11-T23S-R31E						
BELLOQ 11-2 FED STATE COM 824H - Wellbore #1 - P	2,700.00	2,688.07	187.68	168.89	9.987 SF	
BELLOQ 11-2 FED STATE COM 825H - Wellbore #1 - P	7,503.85	7,523.04	661.12	607.75	12.387 CC	
BELLOQ 11-2 FED STATE COM 825H - Wellbore #1 - P	7,800.00	7,817.12	661.95	606.65	11.971 ES	
BELLOQ 11-2 FED STATE COM 825H - Wellbore #1 - P	8,100.00	8,102.36	672.72	615.54	11.765 SF	
Sec 14-T23S-R31E						
Galapagos 14-26 Fed Com 212H - Wellbore #1 - Final S	7,510.58	7,589.56	752.42	698.47	13.947 CC, ES	
Galapagos 14-26 Fed Com 212H - Wellbore #1 - Final S	7,800.00	7,875.77	762.94	707.06	13.654 SF	
Galapagos 14-26 Fed Com 213H - Wellbore #1 - Final S	7,449.16	7,465.65	277.29	224.90	5.293 CC	
Galapagos 14-26 Fed Com 213H - Wellbore #1 - Final S	7,500.00	7,516.61	277.49	224.76	5.263 ES	
Galapagos 14-26 Fed Com 213H - Wellbore #1 - Final S	7,503.85	7,520.47	277.52	224.77	5.261 SF	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	WCDSC Permian NM	**Local Co-ordinate Reference:**	Well BELLOQ 11-2 FED STATE COM 534H
Project:	Eddy County (NAD 83 NM Eastern)	**TVD Reference:**	GL:3467+26ft @ 3493.00ft
Reference Site:	Sec 11-T23S-R31E	**MD Reference:**	GL:3467+26ft @ 3493.00ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	BELLOQ 11-2 FED STATE COM 534H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM_5000.17
Reference Design:	Plat R0 (2310FWL) Avln	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL:3467+26ft @ 3493.00ft	Coordinates are relative to: BELLOQ 11-2 FED STATE COM 534H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.3333333	Grid Convergence at Surface is: 0.31°

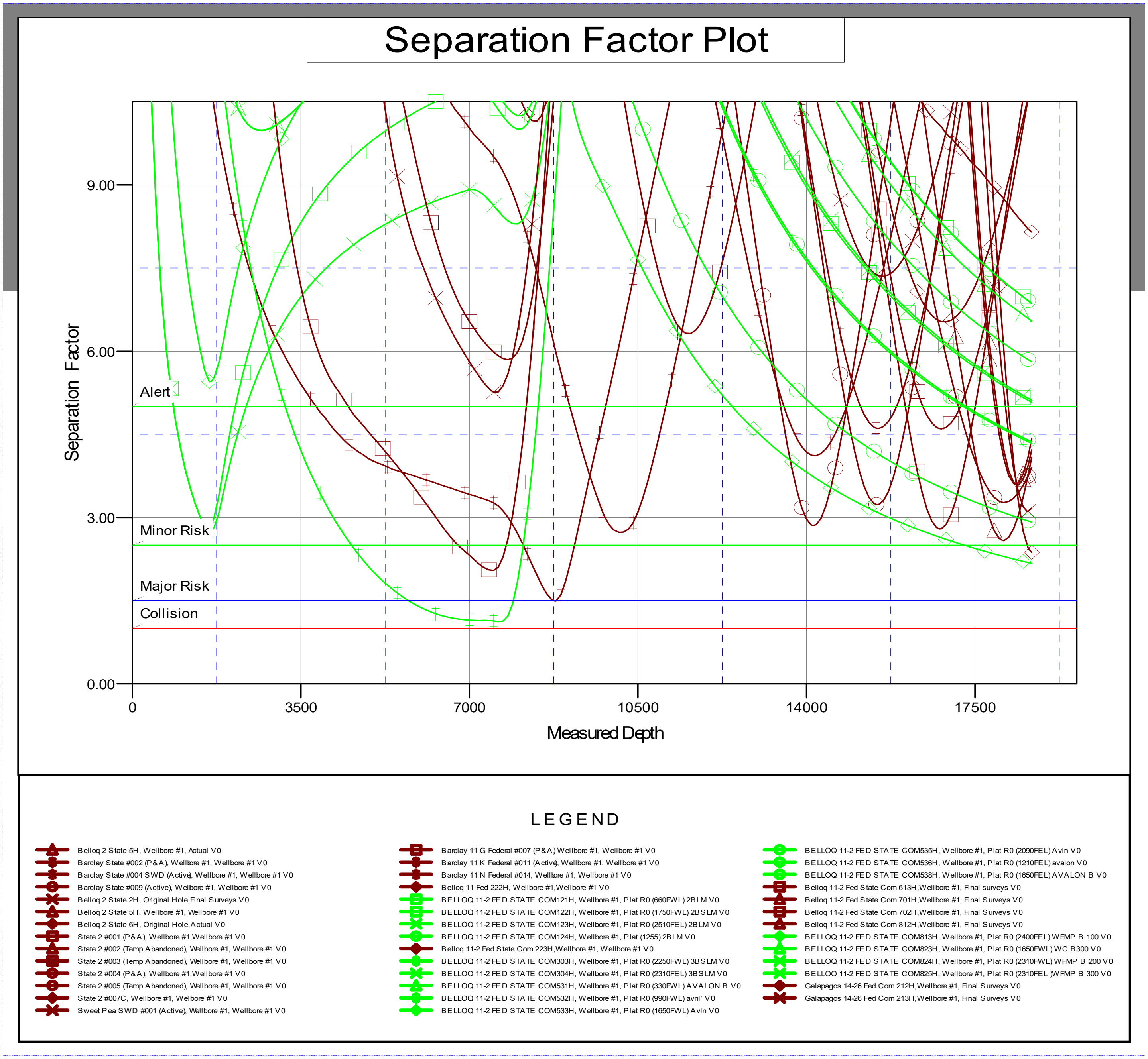


CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	WCDSC Permian NM	**Local Co-ordinate Reference:**	Well BELLOQ 11-2 FED STATE COM 534H
Project:	Eddy County (NAD 83 NM Eastern)	**TVD Reference:**	GL:3467+26ft @ 3493.00ft
Reference Site:	Sec 11-T23S-R31E	**MD Reference:**	GL:3467+26ft @ 3493.00ft
Site Error:	0.00 ft	**North Reference:**	Grid
Reference Well:	BELLOQ 11-2 FED STATE COM 534H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM_5000.17
Reference Design:	Plat R0 (2310FWL) Avln	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL:3467+26ft @ 3493.00ft	Coordinates are relative to: BELLOQ 11-2 FED STATE COM 534H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.3333333	Grid Convergence at Surface is: 0.31°



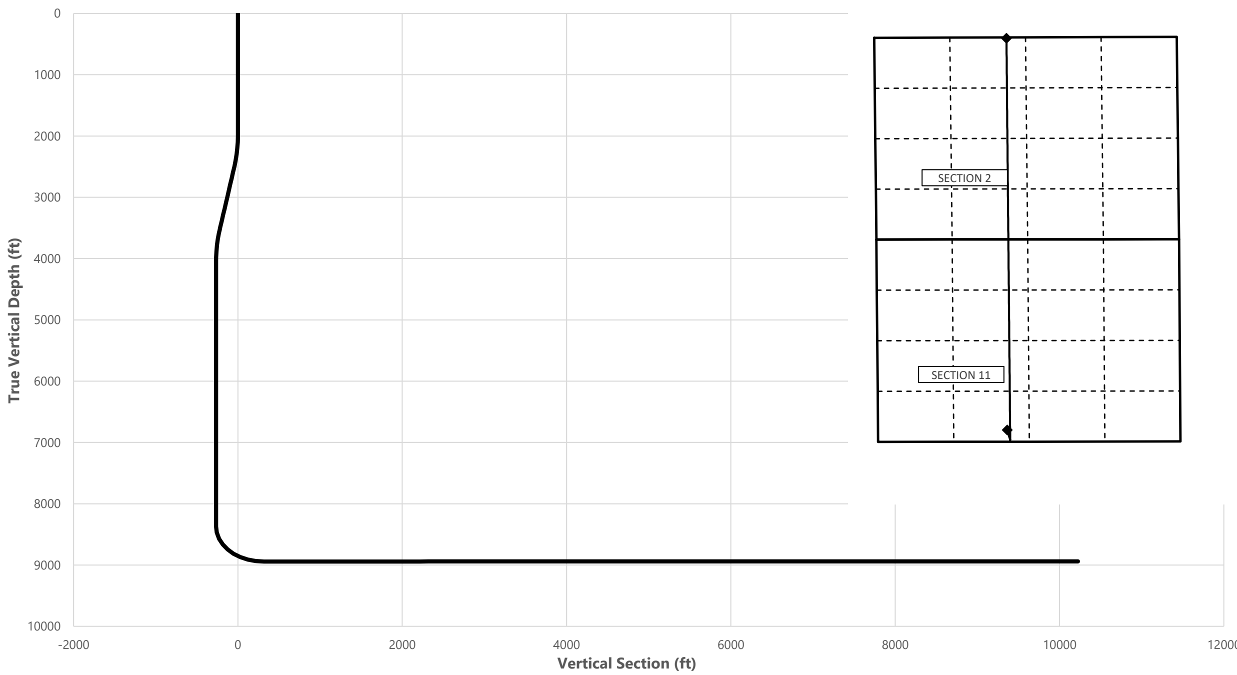
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

devon

Well: BELLOQ 11-2 FED STATE COM 534H
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	169.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	169.00	2497.47	-42.72	8.30	-42.73	2.00	Hold Tangent
3556.73	10.00	169.00	3538.14	-222.85	43.32	-222.91	0.00	Drop to Vertical
4056.73	0.00	169.00	4035.60	-265.57	51.62	-265.64	2.00	Hold Vertical
8390.17	0.00	359.64	8369.04	-265.57	51.62	-265.64	0.00	KOP
9290.28	90.01	359.64	8942.00	307.49	48.02	307.42	10.00	Landing Point
19207.60	90.01	359.64	8940.00	10224.61	-14.29	10224.62	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	700.00	700.00
Salt	1075.00	1075.00
Base of Salt	4221.12	4200.00
Delaware	4221.12	4200.00
Cherry Canyon	5371.12	5350.00
Brushy Canyon	6621.12	6600.00
1st Bone Spring Lime	8296.12	8275.00
Avalon / Point of Penetration	8493.69	8472.00
exit	19127.60	8940.03

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.3125	-103.7499	306' FSL, 2258' FWL of Sec 11 in T23S, R31E
KOP	8390.17	8369.04	32.3117	-103.7497	41' FSL, 2308' FWL of Sec 11 in T23S, R31E
Point of Penetration	8493.69	8472.00	32.3120	-103.7496	100' FSL, 2310' FWL of Sec 11 in T23S, R31E
Exit	19127.60	8940.03	32.3405	-103.7497	100' FNL , 2310' FWL of Sec 2 in T23S, R31E
BHL	19207.60	8940.00	32.3406	-103.7498	20' FNL, 2310' FWL of Sec 2 in T23S, R31E

	Y	X	MD
KOP	**477671**	**721658**	8390.17

devon

Well: BELLOQ 11-2 FED STATE COM 534H
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
100.00	0.00	169.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	169.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	169.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	169.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	169.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	169.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	169.00	700.00	0.00	0.00	0.00	0.00	Rustler,
800.00	0.00	169.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	169.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	169.00	1000.00	0.00	0.00	0.00	0.00	
1075.00	0.00	169.00	1075.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	169.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	169.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	169.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	169.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	169.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	169.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	169.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	169.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	169.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	169.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	169.00	2099.98	-1.71	0.33	-1.71	2.00	
2200.00	4.00	169.00	2199.84	-6.85	1.33	-6.85	2.00	
2300.00	6.00	169.00	2299.45	-15.41	2.99	-15.41	2.00	
2400.00	8.00	169.00	2398.70	-27.37	5.32	-27.38	2.00	
2500.00	10.00	169.00	2497.47	-42.72	8.30	-42.73	2.00	Hold Tangent
2600.00	10.00	169.00	2595.95	-59.77	11.62	-59.78	0.00	
2700.00	10.00	169.00	2694.43	-76.81	14.93	-76.84	0.00	
2800.00	10.00	169.00	2792.91	-93.86	18.24	-93.89	0.00	
2900.00	10.00	169.00	2891.39	-110.91	21.56	-110.94	0.00	
3000.00	10.00	169.00	2989.87	-127.95	24.87	-127.99	0.00	
3100.00	10.00	169.00	3088.35	-145.00	28.18	-145.04	0.00	
3200.00	10.00	169.00	3186.83	-162.04	31.50	-162.09	0.00	
3300.00	10.00	169.00	3285.31	-179.09	34.81	-179.14	0.00	
3400.00	10.00	169.00	3383.79	-196.13	38.13	-196.19	0.00	
3500.00	10.00	169.00	3482.27	-213.18	41.44	-213.24	0.00	
3556.73	10.00	169.00	3538.14	-222.85	43.32	-222.91	0.00	Drop to Vertical
3600.00	9.13	169.00	3580.81	-229.91	44.69	-229.97	2.00	
3700.00	7.13	169.00	3679.80	-243.80	47.39	-243.87	2.00	
3800.00	5.13	169.00	3779.22	-254.29	49.43	-254.36	2.00	
3900.00	3.13	169.00	3878.95	-261.37	50.80	-261.44	2.00	
4000.00	1.13	169.00	3978.88	-265.02	51.52	-265.09	2.00	
4056.73	0.00	169.00	4035.60	-265.57	51.62	-265.64	2.00	Hold Vertical
4100.00	0.00	359.64	4078.88	-265.57	51.62	-265.65	0.00	
4200.00	0.00	359.64	4178.88	-265.57	51.62	-265.65	0.00	
4221.12	0.00	359.64	4200.00	-265.57	51.62	-265.65	0.00	Base of Salt, Delaware
4300.00	0.00	359.64	4278.88	-265.57	51.62	-265.65	0.00	
4400.00	0.00	359.64	4378.88	-265.57	51.62	-265.65	0.00	
4500.00	0.00	359.64	4478.88	-265.57	51.62	-265.65	0.00	
4600.00	0.00	359.64	4578.88	-265.57	51.62	-265.65	0.00	
4700.00	0.00	359.64	4678.88	-265.57	51.62	-265.65	0.00	
4800.00	0.00	359.64	4778.88	-265.57	51.62	-265.65	0.00	
4900.00	0.00	359.64	4878.88	-265.57	51.62	-265.65	0.00	
5000.00	0.00	359.64	4978.88	-265.57	51.62	-265.65	0.00	
5100.00	0.00	359.64	5078.88	-265.57	51.62	-265.65	0.00	
5200.00	0.00	359.64	5178.88	-265.57	51.62	-265.65	0.00	
5300.00	0.00	359.64	5278.88	-265.57	51.62	-265.65	0.00	
5371.12	0.00	359.64	5350.00	-265.57	51.62	-265.65	0.00	Cherry Canyon
5400.00	0.00	359.64	5378.88	-265.57	51.62	-265.65	0.00	
5500.00	0.00	359.64	5478.88	-265.57	51.62	-265.65	0.00	
5600.00	0.00	359.64	5578.88	-265.57	51.62	-265.65	0.00	
5700.00	0.00	359.64	5678.88	-265.57	51.62	-265.65	0.00	
5800.00	0.00	359.64	5778.88	-265.57	51.62	-265.65	0.00	
5900.00	0.00	359.64	5878.88	-265.57	51.62	-265.65	0.00	
6000.00	0.00	359.64	5978.88	-265.57	51.62	-265.65	0.00	
6100.00	0.00	359.64	6078.88	-265.57	51.62	-265.65	0.00	
6200.00	0.00	359.64	6178.88	-265.57	51.62	-265.65	0.00	
6300.00	0.00	359.64	6278.88	-265.57	51.62	-265.65	0.00	
6400.00	0.00	359.64	6378.88	-265.57	51.62	-265.65	0.00	

devon

Well: BELLOQ 11-2 FED STATE COM 534H
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
6500.00	0.00	359.64	6478.88	-265.57	51.62	-265.65	0.00	
6600.00	0.00	359.64	6578.88	-265.57	51.62	-265.65	0.00	
6621.12	0.00	359.64	6600.00	-265.57	51.62	-265.65	0.00	Brushy Canyon
6700.00	0.00	359.64	6678.88	-265.57	51.62	-265.65	0.00	
6800.00	0.00	359.64	6778.88	-265.57	51.62	-265.65	0.00	
6900.00	0.00	359.64	6878.88	-265.57	51.62	-265.65	0.00	
7000.00	0.00	359.64	6978.88	-265.57	51.62	-265.65	0.00	
7100.00	0.00	359.64	7078.88	-265.57	51.62	-265.65	0.00	
7200.00	0.00	359.64	7178.88	-265.57	51.62	-265.65	0.00	
7300.00	0.00	359.64	7278.88	-265.57	51.62	-265.65	0.00	
7400.00	0.00	359.64	7378.88	-265.57	51.62	-265.65	0.00	
7500.00	0.00	359.64	7478.88	-265.57	51.62	-265.65	0.00	
7600.00	0.00	359.64	7578.88	-265.57	51.62	-265.65	0.00	
7700.00	0.00	359.64	7678.88	-265.57	51.62	-265.65	0.00	
7800.00	0.00	359.64	7778.88	-265.57	51.62	-265.65	0.00	
7900.00	0.00	359.64	7878.88	-265.57	51.62	-265.65	0.00	
8000.00	0.00	359.64	7978.88	-265.57	51.62	-265.65	0.00	
8100.00	0.00	359.64	8078.88	-265.57	51.62	-265.65	0.00	
8200.00	0.00	359.64	8178.88	-265.57	51.62	-265.65	0.00	
8296.12	0.00	359.64	8275.00	-265.57	51.62	-265.65	0.00	1st Bone Spring Lime
8300.00	0.00	359.64	8278.88	-265.57	51.62	-265.65	0.00	
8390.17	0.00	359.64	8369.04	-265.57	51.62	-265.64	0.00	KOP
8400.00	0.98	359.64	8378.88	-265.49	51.62	-265.56	10.00	
8493.69	10.35	359.64	8472.00	-256.25	51.56	-256.32	10.00	Avalon / Point of Penetration
8500.00	10.98	359.64	8478.21	-255.08	51.56	-255.15	10.00	
8600.00	20.98	359.64	8574.22	-227.58	51.38	-227.65	10.00	
8700.00	30.98	359.64	8664.00	-183.82	51.11	-183.89	10.00	
8800.00	40.98	359.64	8744.81	-125.14	50.74	-125.21	10.00	
8900.00	50.98	359.64	8814.21	-53.32	50.29	-53.39	10.00	
9000.00	60.98	359.64	8870.08	29.46	49.77	29.39	10.00	
9100.00	70.98	359.64	8910.73	120.68	49.19	120.61	10.00	
9200.00	80.98	359.64	8934.92	217.58	48.58	217.51	10.00	
9290.28	90.01	359.64	8942.00	307.49	48.02	307.42	10.00	Landing Point
9300.00	90.01	359.64	8942.00	317.21	47.96	317.14	0.00	
9400.00	90.01	359.64	8941.98	417.21	47.33	417.14	0.00	
9500.00	90.01	359.64	8941.96	517.20	46.70	517.14	0.00	
9600.00	90.01	359.64	8941.94	617.20	46.07	617.14	0.00	
9700.00	90.01	359.64	8941.92	717.20	45.44	717.14	0.00	
9800.00	90.01	359.64	8941.90	817.20	44.82	817.13	0.00	
9900.00	90.01	359.64	8941.88	917.20	44.19	917.13	0.00	
10000.00	90.01	359.64	8941.86	1017.19	43.56	1017.13	0.00	
10100.00	90.01	359.64	8941.84	1117.19	42.93	1117.13	0.00	
10200.00	90.01	359.64	8941.82	1217.19	42.30	1217.13	0.00	
10300.00	90.01	359.64	8941.80	1317.19	41.67	1317.13	0.00	
10400.00	90.01	359.64	8941.78	1417.19	41.04	1417.13	0.00	
10500.00	90.01	359.64	8941.76	1517.18	40.41	1517.13	0.00	
10600.00	90.01	359.64	8941.74	1617.18	39.79	1617.13	0.00	
10700.00	90.01	359.64	8941.72	1717.18	39.16	1717.12	0.00	
10800.00	90.01	359.64	8941.70	1817.18	38.53	1817.12	0.00	
10900.00	90.01	359.64	8941.68	1917.18	37.90	1917.12	0.00	
11000.00	90.01	359.64	8941.66	2017.17	37.27	2017.12	0.00	
11100.00	90.01	359.64	8941.64	2117.17	36.64	2117.12	0.00	
11200.00	90.01	359.64	8941.62	2217.17	36.01	2217.12	0.00	
11300.00	90.01	359.64	8941.60	2317.17	35.38	2317.12	0.00	
11400.00	90.01	359.64	8941.58	2417.17	34.75	2417.12	0.00	
11500.00	90.01	359.64	8941.56	2517.16	34.13	2517.11	0.00	
11600.00	90.01	359.64	8941.54	2617.16	33.50	2617.11	0.00	
11700.00	90.01	359.64	8941.52	2717.16	32.87	2717.11	0.00	
11800.00	90.01	359.64	8941.50	2817.16	32.24	2817.11	0.00	
11900.00	90.01	359.64	8941.48	2917.16	31.61	2917.11	0.00	
12000.00	90.01	359.64	8941.46	3017.15	30.98	3017.11	0.00	
12100.00	90.01	359.64	8941.44	3117.15	30.35	3117.11	0.00	
12200.00	90.01	359.64	8941.42	3217.15	29.72	3217.11	0.00	
12300.00	90.01	359.64	8941.40	3317.15	29.09	3317.10	0.00	
12400.00	90.01	359.64	8941.38	3417.15	28.47	3417.10	0.00	
12500.00	90.01	359.64	8941.36	3517.14	27.84	3517.10	0.00	
12600.00	90.01	359.64	8941.34	3617.14	27.21	3617.10	0.00	
12700.00	90.01	359.64	8941.32	3717.14	26.58	3717.10	0.00	
12800.00	90.01	359.64	8941.30	3817.14	25.95	3817.10	0.00	
12900.00	90.01	359.64	8941.28	3917.14	25.32	3917.10	0.00	

devon

Well: BELLOQ 11-2 FED STATE COM 534H
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
13000.00	90.01	359.64	8941.26	4017.14	24.69	4017.10	0.00	
13100.00	90.01	359.64	8941.24	4117.13	24.06	4117.10	0.00	
13200.00	90.01	359.64	8941.22	4217.13	23.44	4217.09	0.00	
13300.00	90.01	359.64	8941.20	4317.13	22.81	4317.09	0.00	
13400.00	90.01	359.64	8941.18	4417.13	22.18	4417.09	0.00	
13500.00	90.01	359.64	8941.16	4517.13	21.55	4517.09	0.00	
13600.00	90.01	359.64	8941.14	4617.12	20.92	4617.09	0.00	
13700.00	90.01	359.64	8941.12	4717.12	20.29	4717.09	0.00	
13800.00	90.01	359.64	8941.10	4817.12	19.66	4817.09	0.00	
13900.00	90.01	359.64	8941.08	4917.12	19.03	4917.09	0.00	
14000.00	90.01	359.64	8941.06	5017.12	18.40	5017.08	0.00	
14100.00	90.01	359.64	8941.04	5117.11	17.78	5117.08	0.00	
14200.00	90.01	359.64	8941.02	5217.11	17.15	5217.08	0.00	
14300.00	90.01	359.64	8941.00	5317.11	16.52	5317.08	0.00	
14400.00	90.01	359.64	8940.98	5417.11	15.89	5417.08	0.00	
14500.00	90.01	359.64	8940.96	5517.11	15.26	5517.08	0.00	
14600.00	90.01	359.64	8940.94	5617.10	14.63	5617.08	0.00	
14700.00	90.01	359.64	8940.92	5717.10	14.00	5717.08	0.00	
14800.00	90.01	359.64	8940.90	5817.10	13.37	5817.07	0.00	
14900.00	90.01	359.64	8940.88	5917.10	12.75	5917.07	0.00	
15000.00	90.01	359.64	8940.86	6017.10	12.12	6017.07	0.00	
15100.00	90.01	359.64	8940.84	6117.09	11.49	6117.07	0.00	
15200.00	90.01	359.64	8940.82	6217.09	10.86	6217.07	0.00	
15300.00	90.01	359.64	8940.80	6317.09	10.23	6317.07	0.00	
15400.00	90.01	359.64	8940.78	6417.09	9.60	6417.07	0.00	
15500.00	90.01	359.64	8940.76	6517.09	8.97	6517.07	0.00	
15600.00	90.01	359.64	8940.74	6617.08	8.34	6617.07	0.00	
15700.00	90.01	359.64	8940.72	6717.08	7.71	6717.06	0.00	
15800.00	90.01	359.64	8940.70	6817.08	7.09	6817.06	0.00	
15900.00	90.01	359.64	8940.68	6917.08	6.46	6917.06	0.00	
16000.00	90.01	359.64	8940.66	7017.08	5.83	7017.06	0.00	
16100.00	90.01	359.64	8940.64	7117.07	5.20	7117.06	0.00	
16200.00	90.01	359.64	8940.62	7217.07	4.57	7217.06	0.00	
16300.00	90.01	359.64	8940.60	7317.07	3.94	7317.06	0.00	
16400.00	90.01	359.64	8940.58	7417.07	3.31	7417.06	0.00	
16500.00	90.01	359.64	8940.56	7517.07	2.68	7517.05	0.00	
16600.00	90.01	359.64	8940.54	7617.06	2.05	7617.05	0.00	
16700.00	90.01	359.64	8940.52	7717.06	1.43	7717.05	0.00	
16800.00	90.01	359.64	8940.50	7817.06	0.80	7817.05	0.00	
16900.00	90.01	359.64	8940.48	7917.06	0.17	7917.05	0.00	
17000.00	90.01	359.64	8940.46	8017.06	-0.46	8017.05	0.00	
17100.00	90.01	359.64	8940.44	8117.05	-1.09	8117.05	0.00	
17200.00	90.01	359.64	8940.41	8217.05	-1.72	8217.05	0.00	
17300.00	90.01	359.64	8940.39	8317.05	-2.35	8317.05	0.00	
17400.00	90.01	359.64	8940.37	8417.05	-2.98	8417.04	0.00	
17500.00	90.01	359.64	8940.35	8517.05	-3.60	8517.04	0.00	
17600.00	90.01	359.64	8940.33	8617.04	-4.23	8617.04	0.00	
17700.00	90.01	359.64	8940.31	8717.04	-4.86	8717.04	0.00	
17800.00	90.01	359.64	8940.29	8817.04	-5.49	8817.04	0.00	
17900.00	90.01	359.64	8940.27	8917.04	-6.12	8917.04	0.00	
18000.00	90.01	359.64	8940.25	9017.04	-6.75	9017.04	0.00	
18100.00	90.01	359.64	8940.23	9117.03	-7.38	9117.04	0.00	
18200.00	90.01	359.64	8940.21	9217.03	-8.01	9217.03	0.00	
18300.00	90.01	359.64	8940.19	9317.03	-8.64	9317.03	0.00	
18400.00	90.01	359.64	8940.17	9417.03	-9.26	9417.03	0.00	
18500.00	90.01	359.64	8940.15	9517.03	-9.89	9517.03	0.00	
18600.00	90.01	359.64	8940.13	9617.02	-10.52	9617.03	0.00	
18700.00	90.01	359.64	8940.11	9717.02	-11.15	9717.03	0.00	
18800.00	90.01	359.64	8940.09	9817.02	-11.78	9817.03	0.00	
18900.00	90.01	359.64	8940.07	9917.02	-12.41	9917.03	0.00	
19000.00	90.01	359.64	8940.05	10017.02	-13.04	10017.02	0.00	
19100.00	90.01	359.64	8940.03	10117.01	-13.67	10117.02	0.00	
19127.60	90.01	359.64	8940.03	10144.61	-13.84	10144.62	0.00	exit
19200.00	90.01	359.64	8940.01	10217.01	-14.30	10217.02	0.00	
19207.60	90.01	359.64	8940.00	10224.61	-14.29	10224.62	0.00	BHL

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.

<u>General Procedure While Drilling</u>

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

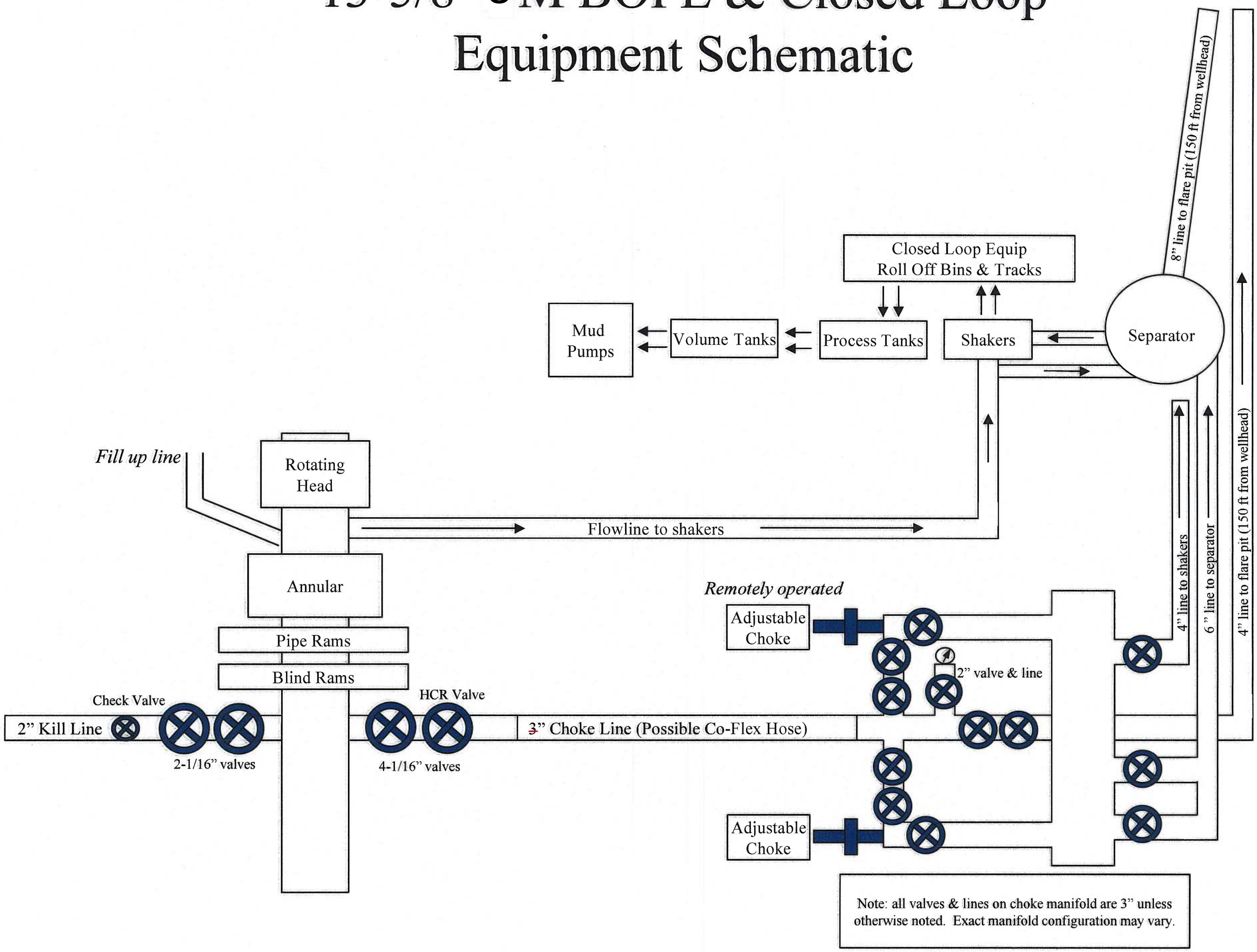
General Procedures While Pulling BHA thru Stack

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

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



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

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

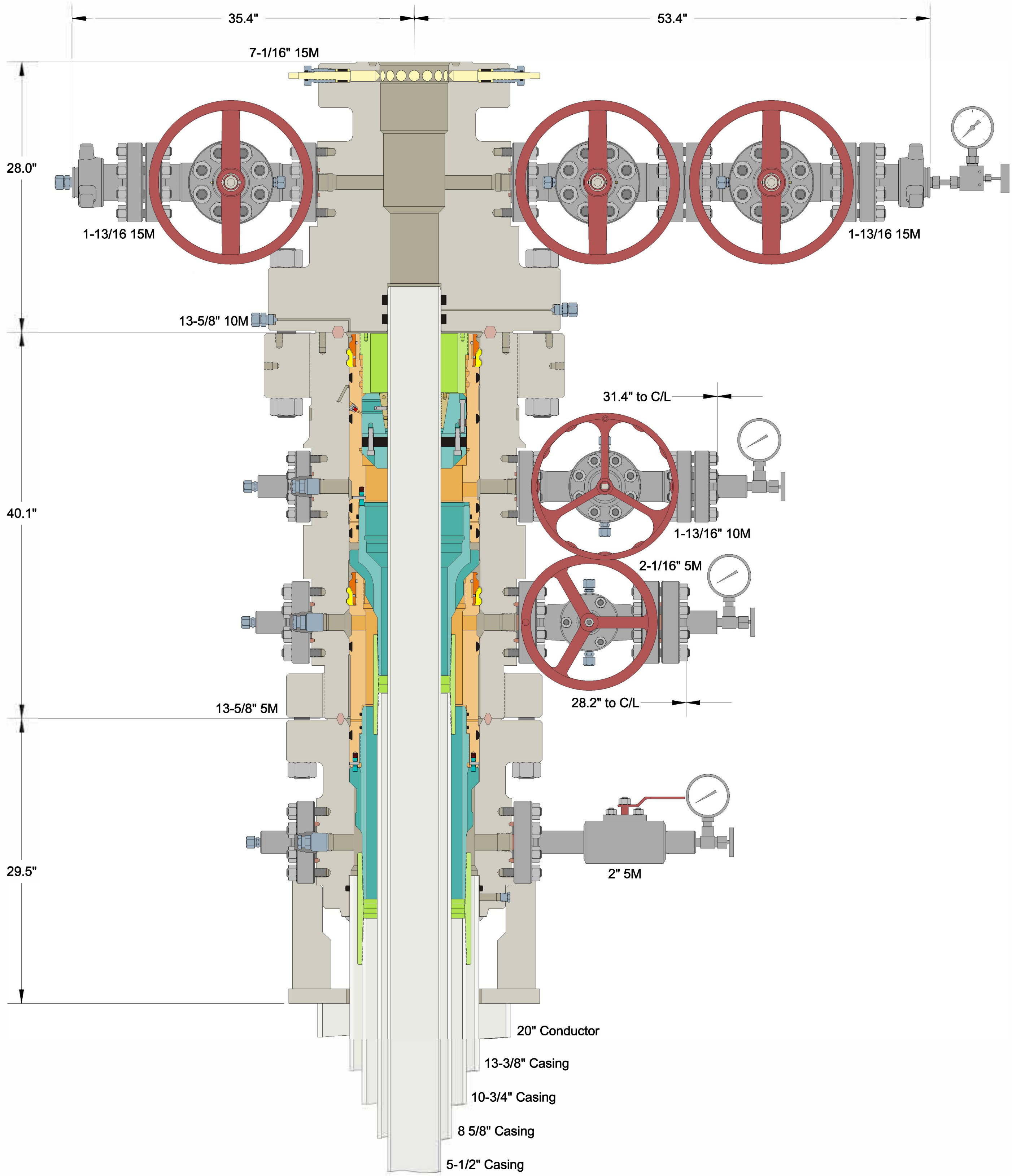
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial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

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

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

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

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



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	MATADOR RESOURCES WOLFCAMP A WELLS (TEXAS)		
20" x 13-3/8" x 10-3/4" x 8-5/8" x 5-1/2" MBU-4T-SOW Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head, 10-3/4" & 8-5/8" Mandrel Hangers And 5-1/2" Slip Casing Hanger	DRAWN	DLE	09AUG19
	APPRV		
	DRAWING NO.	HBE0000156	

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. <u>In the event break testing is not utilized, then a full BOPE test would be conducted.</u>

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. <u>In the event stump testing is not utilized, then a full BOPE test would be conducted.</u>

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

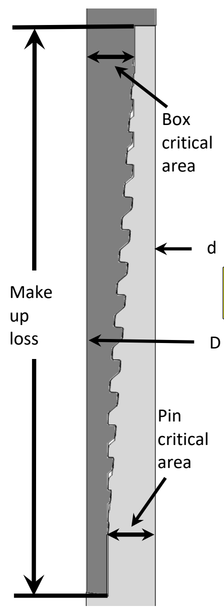
Metal One Corp. Metal One	**MO-FXL** ***1 Pipe Body: BMP P110HSCY MinYS125ksi** **Special Drift 7.875"** **Connection Data Sheet**	CDS#	MO-FXL 8-5/8 32.0 P110HSCY MinYS125ksi SD7.875
		Date	27-Nov-23

Geometry

MO-FXL

Pipe Body

	Imperial		S.I.	
Grade *1	P110HSCY		P110HSCY	
MinYS *1	125	ksi	125	ksi
Pipe OD (D)	8 5/8	in	219.08	mm
Weight	32.00	lb/ft	47.68	kg/m
Actual weight	31.10		46.34	kg/m
Wall Thickness (t)	0.352	in	8.94	mm
Pipe ID (d)	7.921	in	201.19	mm
Pipe body cross section	9.149	in^2	5,902	mm^2
Special Drift Dia. *1	7.875	in	200.03	mm
-	-	-	-	-



Connection

Box OD (W)	8.625	in	219.08	mm
PIN ID	7.921	in	201.19	mm
Make up Loss	3.847	in	97.71	mm
Box Critical Area	5.853	in^2	3686	mm^2
Joint load efficiency	69	%	69	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S. *1	1,144	kips	5,087	kN
M.I.Y.P. *1	8,930	psi	61.59	MPa
Collapse Strength *1	4,300	psi	29.66	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body

M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

*1: BMP P110HSCY: MinYS125ksi, SD7.875, Collapse Strength 4,300psi

Performance Properties for Connection

Tensile Yield load	789 kips (69% of S.M.Y.S.)
Min. Compression Yield	789 kips (69% of S.M.Y.S.)
Internal Pressure	6,250 psi (70% of M.I.Y.P.)
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	29

Recommended Torque

Min.	13,600	ft-lb	18,400	N-m
Opti.	14,900	ft-lb	20,200	N-m
Max.	16,200	ft-lb	21,900	N-m
Operational Max.	28,400	ft-lb	38,500	N-m

Note : Operational Max. torque can be applied for high torque application

Casing Assumptions and Load Cases

Intermediate

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

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

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

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

Casing Assumptions and Load Cases

Surface

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

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

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

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

Casing Assumptions and Load Cases

Intermediate

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

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

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

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

Casing Assumptions and Load Cases

Production

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

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

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

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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LOCATION:	Section 11, T.23 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**Belloq 11 2 Fed State Com 533H**
ATS/API ID:	**ATS-24-2104**
APD ID:	**10400099450**
Sundry ID:	**N/a**

WELL NAME & NO.:	**Belloq 11 2 Fed State Com 534H**
ATS/API ID:	**ATS-24-2105**
APD ID:	**10400099456**
Sundry ID:	**N/a**

COA

Approval Date: 06/10/2025

H2S	No		
Potash	R-111-Q	Figure D	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	○ None	● Flex Hose	○ Other
Wellhead	Conventional and Multibowl		
Other	☑ 4 String ☐ 5 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☑ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 2	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	☑ BOPE Break Testing ☑ Offline BOPE Testing	☑ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **840 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

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

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

2. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:

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

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

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

    - The top of cement in the annulus between the 1st intermediate and the 2nd intermediate casing strings shall stand un-cemented at least **500 feet** below the 1st intermediate shoe. Zero percent excess shall be pumped on the cement slurry to ensure no tie-back into the previous shoe.

    - After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, the operator shall bradenhead cement at least **500 feet** tie-back into the previous casing but not higher than USGS Marker Bed No. 126. **(Squeeze 419 sxs Class C and 95 bbls Displacement Fluid)**
    Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

    Operator has proposed to pump down **10-3/4"** X **8-5/8"** annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. Report the amount of fluid utilized to pump the cement slurry and the calculated top of cement slurry to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure and ensure cement tie-back requirement.

    Operator has proposed an open annulus completion in R-111-Q. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on the **10-3/4"** x **8 5/8"** annulus.

    In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and **(575-361-2822 Eddy County)**.

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

    - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. Operator must run a CBL from TD of the production casing to surface to verify top of cement. Submit results to the BLM.
    Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
    Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

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

2.

Option 1:

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

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** intermediate casing shoe shall be **5000 (5M)** psi. **Annular which shall be tested to 3500 (70% Working Pressure) psi.**

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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
(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^{nd} 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

Approval Date: 06/10/2025

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

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

Hydrogen Sulfide (H_2S) Contingency Plan

For

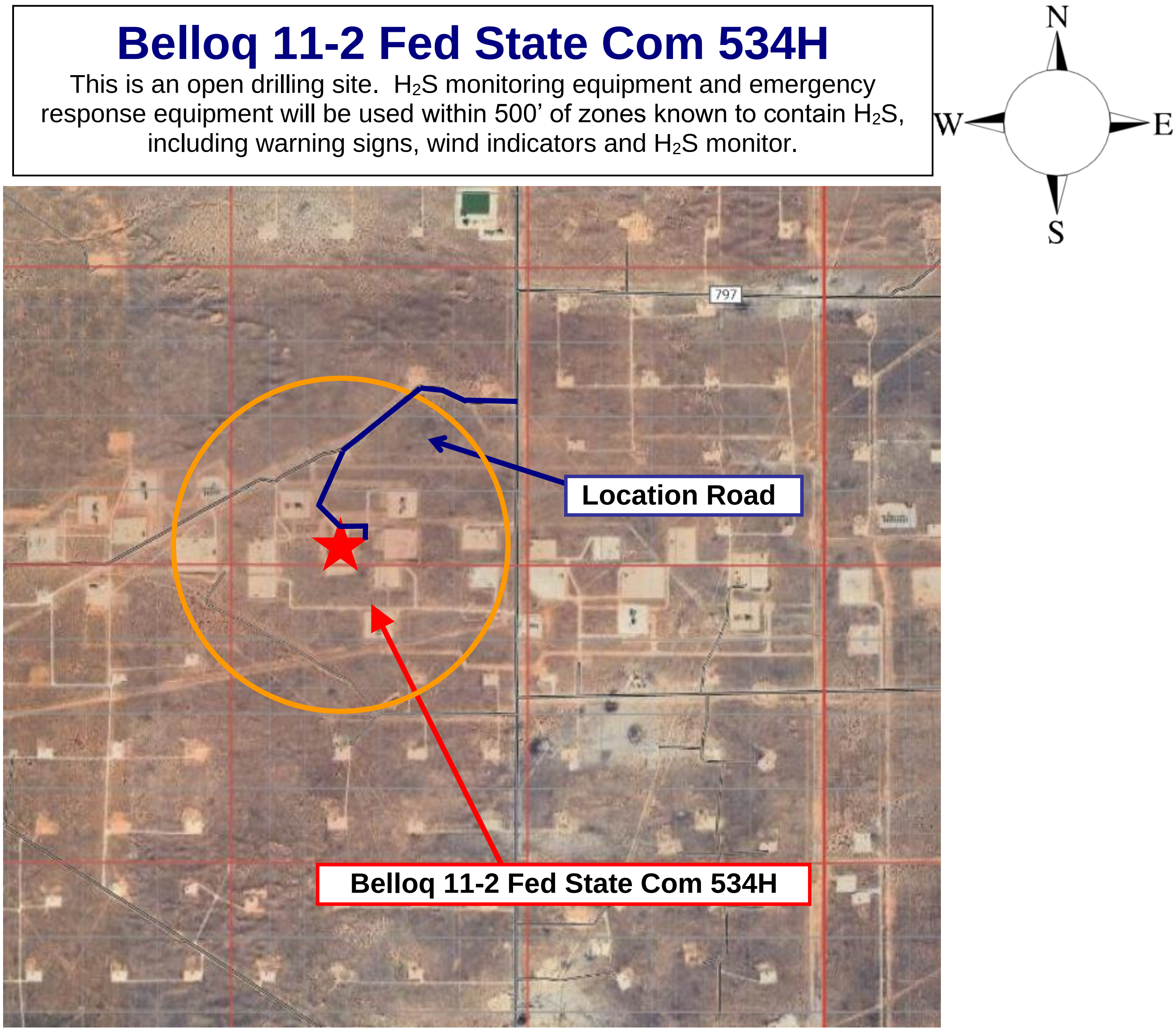
Belloq 11-2 Fed State Com 534H

Sec-11 T-23S R-31E
306’ FSL & 2258’ FWL
LAT. = 32.312571º N (NAD83)
LONG = 103.749815º W

Eddy County NM

Belloq 11-2 Fed State Com 534H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H_2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H_2S and SO_2

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H_2S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

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

1. **Well Control Equipment**

   A. Flare line

   B. Choke manifold – Remotely Operated

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

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

   E. Mud/Gas Separator

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

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

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

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

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

   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_2S circulated to surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

5. **Metallurgy:**

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

   B. All elastomers used for packing and seals shall be H_2S 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_2S environment will use the closed chamber method of testing.

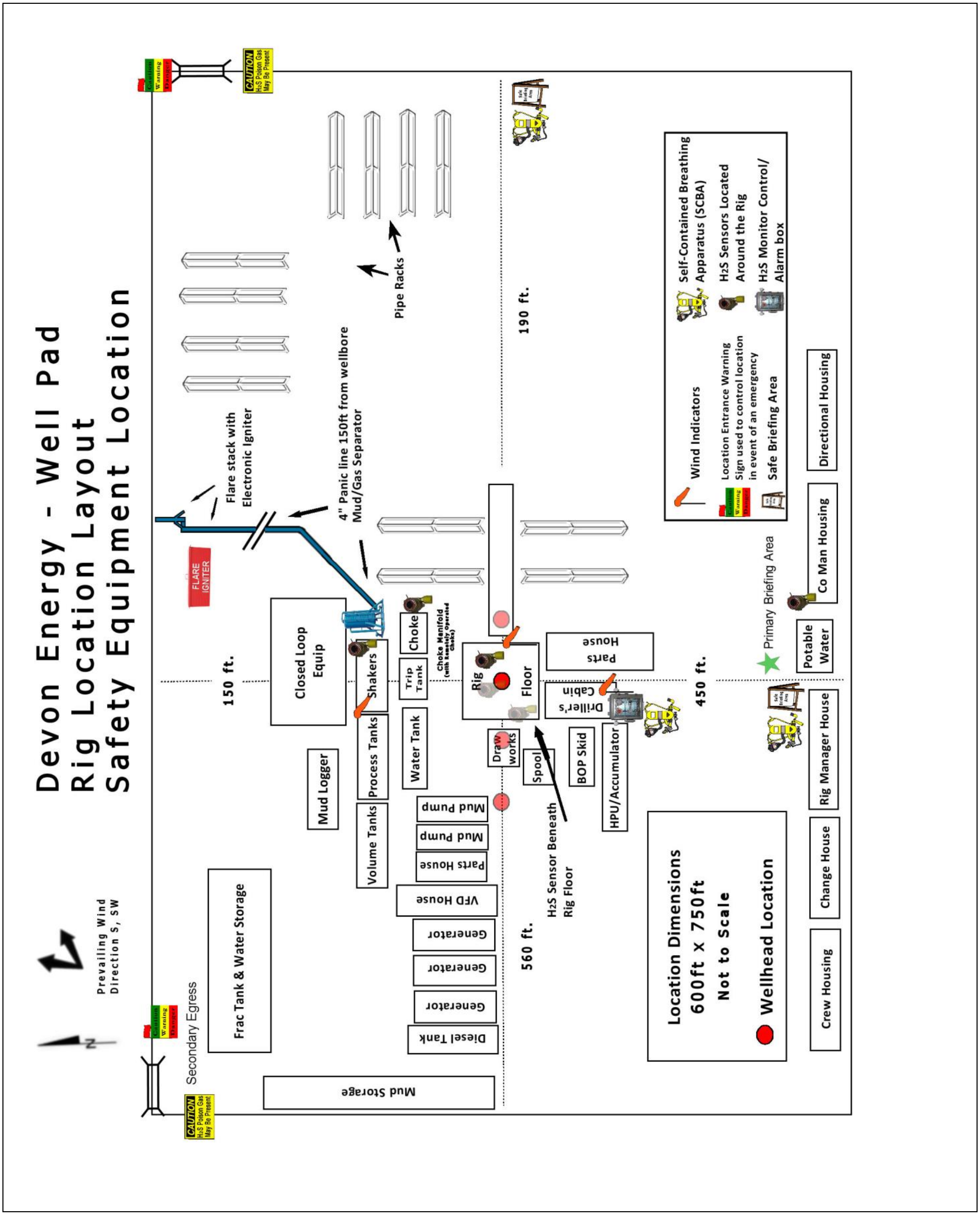
B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

Employee/Company Contact Representative	Position	Phone Number	After Hours Number
Jonathan Fisher (North)	Drilling Manager	832-967-7912	
Jason Hildebrand (South)	Drilling Manager	405-552-6514	
Rich Downey	Drilling VP	405-228-2415	
Josh Harvey	EHS 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

Agency Call List			
Lea County (575)	**Hobbs**		
	Lea County Communication Authority		397-9265
	State Police		885-3138
	City Police		397-9265
	Sheriff's Office		396-3611
	Ambulance		**911**
	Fire Department		397-9308
	LEPC (Local Emergency Planning Committee)		393-2870
	NMOCD		393-6161
	US Bureau of Land Management (Closed)		393-0002
Eddy County (575)	**Carlsbad**		
	State Police		885-3137
	City Police		885-2111
	Sheriff's Office		887-7551
	Ambulance		**911**
	Fire Department		885-3125
	LEPC (Local Emergency Planning Committee)		887-3798
	US Bureau of Land Management		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
	Emergency Services		
	Wild Well Control		(281) 784-4700
	Cudd Pressure Control	(915) 699-0139	(915) 563-3356
	Halliburton		(575) 746-2757
	B. J. Services		(575) 746-3569
Give GPS position:	Native Air – Emergency Helicopter – Hobbs		(575) 347-9836
	For Air Ambulance - **Eddy County** Dispatch		(575)-616-7155
	For Air Ambulance - **Lea County** (LCCA)		(575)-397-9265
	Poison Control (24/7)		(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service		(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov		
	National Pollution Control Center		202-795-6958
	NPCC – Oil Spills		800-280-7118

Prepared in conjunction with
Dave Small


Devon Energy - Well Pad
Rig Location Layout
Safety Equipment Location
Prevailing Wind Direction S, SW
N
CAUTION H2S Poison Gas May Be Present
Caution Warning Danger
Secondary Egress
Frac Tank & Water Storage
Mud Storage
Diesel Tank
Generator
Generator
Generator
VFD House
Parts House
Mud Pump
Mud Pump
Volume Tanks
Process Tanks
Mud Logger
Water Tank
Shakers
Trip Tank
Choke
Choke Manifold (with Remotely Operated Choke)
Closed Loop Equip
150 ft.
FLARE IGNITER
Flare stack with Electronic Igniter
4" Panic line 150ft from wellbore Mud/Gas Separator
Pipe Racks
190 ft.
Rig Floor
Draw works
Spool
BOP Skid
HPU/Accumulator
Driller's Cabin
Parts House
H2S Sensor Beneath Rig Floor
560 ft.
450 ft.
Location Dimensions
600ft x 750ft
Not to Scale
Wellhead Location
Primary Briefing Area
Potable Water
Co Man Housing
Directional Housing
Rig Manager House
Change House
Crew Housing
Wind Indicators
Location Entrance Warning Sign used to control location in event of an emergency
Safe Briefing Area
Self-Contained Breathing Apparatus (SCBA)
H2S Sensors Located Around the Rig
H2S Monitor Control/ Alarm box

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

Approval Date: 06/10/2025

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) 6/5/2025

Approval Date: 06/10/2025

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 475154

CONDITIONS

Operator:	
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 475154
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
wsalter	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/16/2025
wsalter	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/16/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/23/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/23/2025
ward.rikala	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.	7/23/2025
ward.rikala	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.	7/23/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	7/23/2025