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

Sundry Print Report

06/25/2024

Well Name: ATLATL 11 10 FED COM

Well Location: T22S / R27E / SEC 11 / NENE / 32.411519 / -104.151822

County or Parish/State: EDDY / NM

Well Number: 331H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM64583

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2795553

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/17/2024

Time Sundry Submitted: 05:52

Date proposed operation will begin: 06/16/2024

Procedure Description: PERMIT ID 10400092144 Devon Energy Production Co., L.P. (Devon) respectfully requests offline cementing for the subject well. See Variance attached. Devon Energy Production Co., L.P. (Devon) respectfully requests to move surface and intermediate casing and change the weight, grade, connection and add alternative casing design.Please see attached spec sheet, and drill plan. Devon Energy Production Co., L.P. (Devon) respectfully requests to change the BHL and Formation on the subject well. Please see attached revised C102, Drill plan, directional plan. Permitted BHL: NENE , 400 FNL 23 FEL, 10-22S-27E Proposed BHL: SWNW, 1410 FNL, 20 FWL, 10-22S-27E Permitted TVD/MD: 8686/19210-Esperanza/Bonespring Proposed TVD/MD: 9382/19870- Purple Sage/Wolfcamp (Gas)

NOI Attachments

Procedure Description

WA022066480_ATLATL_11_10_FED_COM_331H_WL_R2_UPDATED_20240624052836.pdf

5.500_0.361_P110_ICY_TXP__BTC_01242024_20240617055146.pdf

8.625_0.352_P110_ICY_Wedge_441__02162024_20240617055126.pdf

5.500_0.361_P110_ICY_TXP__BTC_01242024_20240617054933.pdf

10.750_45.50_HCL80_SCC_20240617054757.PDF

13.375_54.50_J55_20240617054716.pdf

ATLATL_11_10_FED_COM_331H_r2_20240616205041.pdf

Well Name: ATLATL 11 10 FED COM

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County or Parish/State: EDDY / NM

Well Number: 331H

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Lease Number: NMNM64583

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

ATLATL_11_10_FED_COM_331H_Directional_Plan_06_13_24_20240616205014.pdf

Offline_Cementing___Variance_Request_20240616204644.pdf

Conditions of Approval

Specialist Review

Atlat_11_10_Fed_Com_331H_Sundry_ID_2795553_20240624102151.pdf

Operator

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

Operator Electronic Signature: ARIANNA EVANS

Signed on: JUN 24, 2024 05:29 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-4514

Email address: ARIANNA.EVANS@DVN.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 06/24/2024

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

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

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

Additional Information

Additional Remarks

Permitted TVD/MD: 8686/19210-Esperanza/Bonespring

Proposed TVD/MD: 9382/19870- Purple Sage/Wolfcamp (Gas)

Location of Well

0. SHL: NENE / 1123 FNL / 23 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.411519 / LONG: -104.151822 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 376 FNL / 141 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4135802 / LONG: -104.1693206 (TVD: 8799 feet, MD: 14100 feet)

PPP: NENW / 387 FNL / 2559 FWL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4135427 / LONG: -104.1605735 (TVD: 8860 feet, MD: 11400 feet)

BHL: NWNW / 400 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 10 / LAT: 32.41365 / LONG: -104.185872 (TVD: 9082 feet, MD: 19359 feet)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	ATLATL 11-10 FED COM	331H

OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3082.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	22-S	27-E		1123	NORTH	23	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	10	22-S	27-E		1410	NORTH	20	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

ATLATL 11-10 FED COM 331H
EL: 3082.5'
GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
N:513489.36
E:597351.00
LAT:32.411519
LON:104.151822

KICK OFF POINT
CALLS: 1411 FNL 52 FEL
N: 513201.8
E: 597336
LAT: 32.41063451
LON: -104.15195425

FIRST TAKE POINT (PPP 1)
1410' FNL 100' FEL SEC. 11
N:513202.56
E:597273.62
LAT:32.410731
LON:104.152075

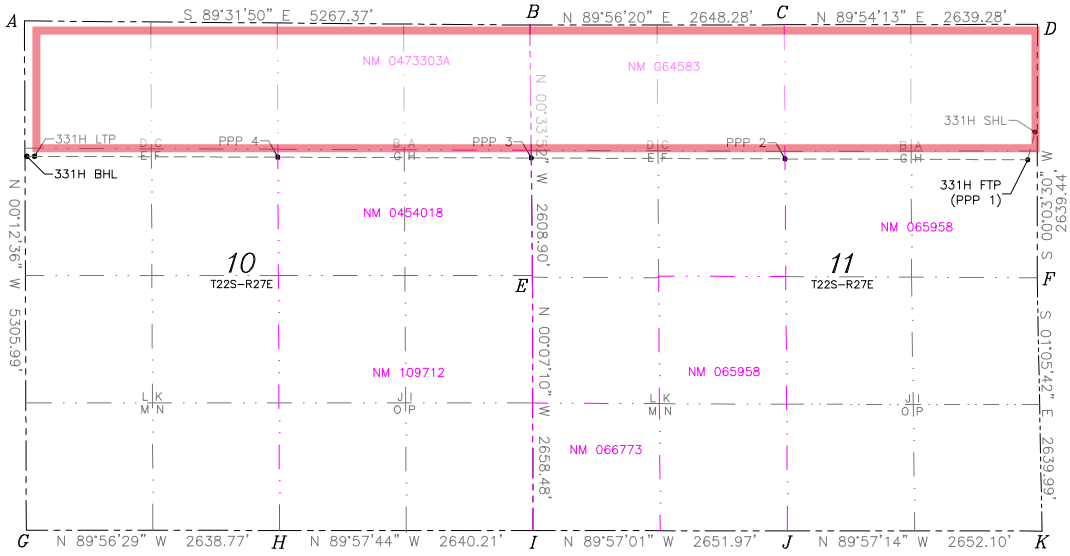
LAST TAKE POINT
1410' FNL 100' FWL SEC. 10
N:513237.71
E:586925.48
LAT:32.410871
LON:104.185607

BOTTOM OF HOLE
N:513238.37
E:586845.48
LAT:32.410873
LON:104.185866

PPP 2
1397' FNL 2629' FEL SEC. 11
N:513211.15
E:594745.01
LAT:32.410766
LON:104.160269

PPP 3
1385' FNL 0' FEL SEC. 10
N:513220.13
E:592101.15
LAT:32.410802
LON:104.168836

PPP 4
1398' FNL 2641' FEL SEC. 10
N:513229.10
E:589460.42
LAT:32.410838
LON:104.177393



A = N:514648.62 E:586820.31
B = N:514605.47 E:592087.50
C = N:514608.29 E:594735.78
D = N:514612.73 E:597375.06
E = N:511996.70 E:592113.21
F = N:511973.30 E:597372.37
G = N:509342.66 E:586839.76
H = N:509339.97 E:589478.53
I = N:509338.22 E:592118.75
J = N:509335.93 E:594770.72
K = N:509333.79 E:597422.82

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and 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 such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arianna Evans 6/13/24
Signature Date

Arianna Evans
Printed Name

arianna.evans@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

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.

06/2024
DATE OF SURVEY
Signature & Seal of Professional Surveyor

ALBERT R. DEHOYOS
NEW MEXICO
23261
PROFESSIONAL SURVEYOR

Certificate No. 23261 ALBERT R. DEHOYOS
DRAWN BY: C.MAAS DATE: 06/12/24

Intent [x] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.	ATLATL 11-10 FED COM	331H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	11	22S	27E		1411	NORTH	52	EAST	EDDY

Latitude	Longitude	NAD
32.41063451	-104.15195425	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	11	22-S	27-E		1410	NORTH	100	EAST	EDDY

Latitude	Longitude	NAD
32.410731	104.152075	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	10	22-S	27-E		1410	NORTH	100	WEST	EDDY

Latitude	Longitude	NAD
32.410871	104.185607	83

Is this well the defining well for the Horizontal Spacing Unit? [yes]

Is this well an infill well? [no]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Tenaris

TXP® BTC

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.100 in.	**Tension Efficiency**	100 %	**Minimum**	11,540 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	12,820 ft-lb
Connection ID	4.766 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	14,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	22,700 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	25,250 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris

TenarisHydril Wedge 441® - AD

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	8.625 in.	**Wall Thickness**	0.352 in.	**Grade**	P110-ICY
Min. Wall Thickness	90.00 %	**Pipe Body Drift**	Alternative Drift	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	8.625 in.	**Wall Thickness**	0.352 in.	**Body Yield Strength**	1144 x1000 lb
Nominal Weight	32.00 lb/ft	**Plain End Weight**	31.13 lb/ft	**Min. Internal Yield Pressure**	9180 psi
Drift	7.875 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	7.921 in.			**Collapse Pressure**	4000 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	8.889 in.	**Tension Efficiency**	81.20 %	**Minimum**	23,000 ft-lb
Coupling Length	8.862 in.	**Joint Yield Strength**	929 x1000 lb	**Optimum**	24,000 ft-lb
Connection ID	7.921 in.	**Internal Pressure Capacity**	9180 psi	**Maximum**	27,000 ft-lb
Make-up Loss	3.744 in.	**Compression Efficiency**	81.20 %		
Threads per inch	3.43	**Compression Strength**	929 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	53.59 °/100 ft	**Operating Torque**	59,000 ft-lb
		External Pressure Capacity	4000 psi	**Yield Torque**	70,000 ft-lb
				Buck-On	
				Minimum	27,000 ft-lb
				Maximum	29,000 ft-lb

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris

TXP® BTC

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.100 in.	**Tension Efficiency**	100 %	**Minimum**	11,540 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	12,820 ft-lb
Connection ID	4.766 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	14,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	22,700 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	25,250 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

BORUSAN MANNESMANN

API 5CT 10.750" 45.50lb/ft HCL80 Casing Performance Data Sheet

Manufactured to specifications of API 5CT 9th edition and bears the API monogram.

Grade	HCL80

	Pipe Body Mechanical Properties
Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23.0 HRC

	Sizes
OD	10 3/4
Nominal Wall Thickness	.400 in
Nominal Weight, T&C	45.50 lb/ft
Nominal Weight, PE	44.26 lb/ft
Nominal ID	9.950 in
Standard Drift	9.794 in
Alternate Drift	9.875 in

Coupling Special Clearance	**Size**
OD	11.25 in
Min. Length	10.625 in
Diameter of Counter Bore	10.890 in
Width of bearing face	.375 in

	Minimum Performance
Collapse Pressure	2,940 psi
Internal Pressure Yield	5,210 psi
Pipe body Tension Yield	1,040,000 lbs
Joint Strength STC	692,000 lbs
Joint Strength LTC	N/A
Joint Strength BTC	1,063,000 lbs

	Inspection and Testing
Visual	OD Longitidunal and independent 3rd party SEA
NDT	Independent 3rd party full body EMI and End Area Inspection after hydrotest Calibration notch sensitivity: 10% of specified wall thickness

	Color code
Pipe ends	One red, one brown and one blue band
Couplings	Red with one brown band

SeAH

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

Dimensions (Nominal)

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

Performance Ratings, Minimum

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

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

1. Geologic Formations

TVD of target	9382	Pilot hole depth	N/A
MD at TD:	19870	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	172		
Salt	419		
Base of Salt	857		
Capitan Reef Top	971		
Delaware	2207		
Cherry Canyon	3547		
Brushy Canyon	4261		
1st Bone Spring Lime	5464		
Bone Spring 1st	6586		
Bone Spring 2nd	7282		
3rd Bone Spring Lime	7582		
Bone Spring 3rd	8556		
Wolfcamp	8951		

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

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	200	0	200
12 1/4	10 3/4	45 1/2	HCL80	BTC SCC	0	2300	0	2300
9.875x8.75	5 1/2	20	P-110ICY	TXP	0	19870	0	9382

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
*9.875" hole down to KOP, and then 8.75" hole

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	183	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	135	Surf	9	3.27	Lead: Class C Cement + additives
	101	1800	13.2	1.44	Tail: Class H / C + additives
Production	959	1300	9	3.27	Lead: Class H /C + additives
	3032	9050	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

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

2. Casing Program (Alternative Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0.0	200 MD	0	200 TVD
12 1/4	10 3/4	45 1/2	HCL80	BTC SCC	0.0	2300 MD	0	2300 TVD
9 7/8	8 5/8	8 5/8	P-110ICY	Wedge 441	0	9050 MD	0	9027 TVD
7 7/8	5 1/2	20	P-110ICY	TXP	0	19870 MD	0	9382 TVD

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	183	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	135	Surf	9	3.27	Lead: Class C Cement + additives
	101	1800	13.2	1.44	Tail: Class H / C + additives
Int 1	172	Surf	9	3.27	Lead: Class C Cement + additives
	555	4261	13.2	1.44	Tail: Class H / C + additives
Production	117	7050	9	3.27	Lead: Class H /C + additives
	1432	9050	13.2	1.44	Tail: Class H / C + additives

4. Pressure Control Equipment (Three String Design)

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

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

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5122
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

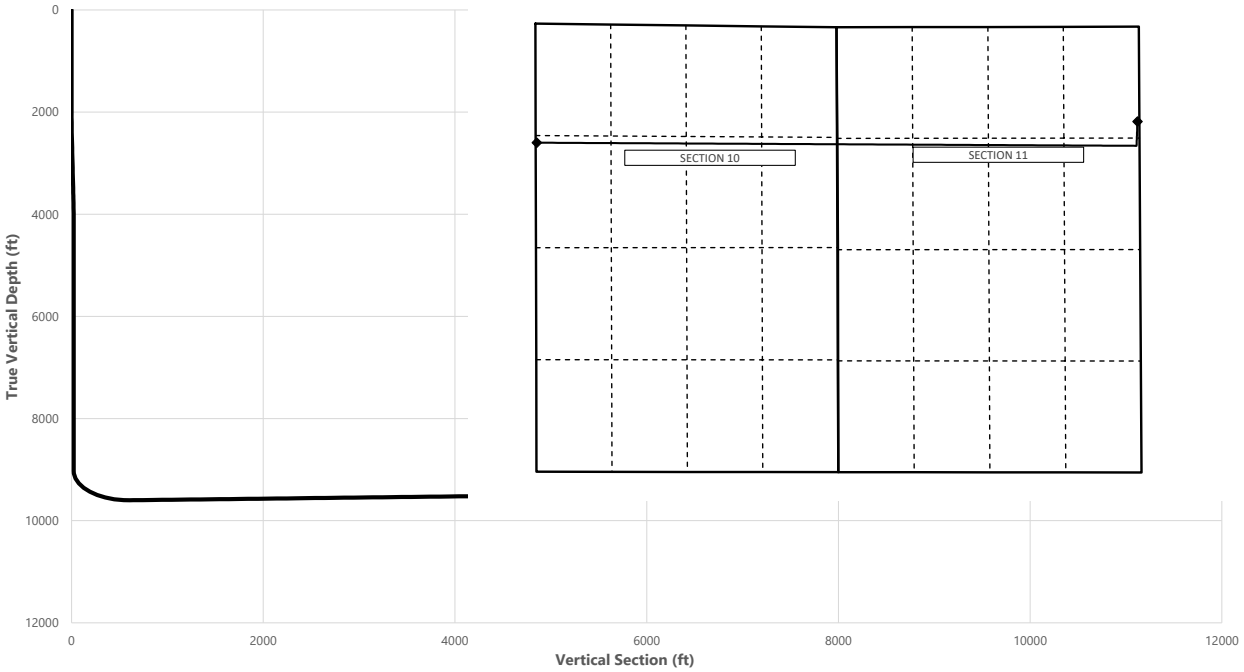
Attachments

X Directional Plan
_____ Other, describe

Well: ATLATL 11-10 FED COM 331H
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	183.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	183.00	2497.47	-43.46	-2.28	3.32	2.00	Hold Tangent
3657.27	10.00	183.00	3637.16	-244.15	-12.80	18.62	0.00	Drop to Vertical
4157.27	0.00	183.00	4134.62	-287.61	-15.07	21.94	2.00	Hold Vertical
9049.83	0.00	270.20	9027.18	-287.61	-15.07	21.94	0.00	KOP
9962.56	91.27	270.20	9600.00	-285.56	-600.75	607.40	10.00	Landing Point
19869.83	91.27	270.20	9380.00	-250.99	-10505.52	10508.52	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	172.00	172.00
Salt	419.00	419.00
Base of Salt	857.00	857.00
Capitan Reef Top	971.00	971.00
Delaware	2207.18	2207.00
Cherry Canyon	3565.73	3547.00
Brushy Canyon	4283.65	4261.00
1st Bone Spring Lime	5486.65	5464.00
Bone Spring 1st	6608.65	6586.00
Bone Spring 2nd	7304.65	7282.00
3rd Bone Spring Lime	7604.65	7582.00
Bone Spring 3rd	8578.65	8556.00
Wolfcamp / Point of Penetration	8973.65	8951.00
exit	19789.83	9381.79

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.4114	-104.1519	1123' FNL, 23' FEL of Sec 11 in T22S, R27E
KOP	9049.83	9027.18	32.4106	-104.1520	1411' FNL, 52' FEL of Sec 11 in T22S, R27E
Point of Penetration	8973.65	8951.00	32.4107	-104.1521	1410' FNL , 100' FEL of Sec 11 in T22S, R27E
Exit	19789.83	9381.79	32.4109	-104.1856	1410' FNL, 100' FWL of Sec 10 in T22S, R27E
BHL	19869.83	9380.00	32.4108	-104.1859	1410' FNL, 20' FWL of Sec 10 in T22S, R27E

	Y	X	MD
KOP	513201.8	597336	9049.83

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Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	183.00	100.00	0.00	0.00	0.00	0.00	
172.00	0.00	183.00	172.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	183.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	183.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	183.00	400.00	0.00	0.00	0.00	0.00	
419.00	0.00	183.00	419.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	183.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	183.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	183.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	183.00	800.00	0.00	0.00	0.00	0.00	
857.00	0.00	183.00	857.00	0.00	0.00	0.00	0.00	Base of Salt
900.00	0.00	183.00	900.00	0.00	0.00	0.00	0.00	
971.00	0.00	183.00	971.00	0.00	0.00	0.00	0.00	Capitan Reef Top
1000.00	0.00	183.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	183.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	183.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	183.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	183.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	183.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	183.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	183.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	183.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	183.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	183.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	183.00	2099.98	-1.74	-0.09	0.13	2.00	
2200.00	4.00	183.00	2199.84	-6.97	-0.37	0.53	2.00	
2207.18	4.14	183.00	2207.00	-7.48	-0.39	0.57	2.00	Delaware
2300.00	6.00	183.00	2299.45	-15.67	-0.82	1.20	2.00	
2400.00	8.00	183.00	2398.70	-27.84	-1.46	2.12	2.00	
2500.00	10.00	183.00	2497.47	-43.46	-2.28	3.32	2.00	Hold Tangent
2600.00	10.00	183.00	2595.95	-60.80	-3.19	4.64	0.00	
2700.00	10.00	183.00	2694.43	-78.14	-4.10	5.96	0.00	
2800.00	10.00	183.00	2792.91	-95.49	-5.00	7.28	0.00	
2900.00	10.00	183.00	2891.39	-112.83	-5.91	8.61	0.00	
3000.00	10.00	183.00	2989.87	-130.17	-6.82	9.93	0.00	
3100.00	10.00	183.00	3088.35	-147.51	-7.73	11.25	0.00	
3200.00	10.00	183.00	3186.83	-164.85	-8.64	12.57	0.00	
3300.00	10.00	183.00	3285.31	-182.19	-9.55	13.90	0.00	
3400.00	10.00	183.00	3383.79	-199.53	-10.46	15.22	0.00	
3500.00	10.00	183.00	3482.27	-216.87	-11.37	16.54	0.00	
3565.73	10.00	183.00	3547.00	-228.27	-11.96	17.41	0.00	Cherry Canyon
3600.00	10.00	183.00	3580.75	-234.21	-12.27	17.86	0.00	
3657.27	10.00	183.00	3637.16	-244.15	-12.80	18.62	0.00	Drop to Vertical
3700.00	9.15	183.00	3679.29	-251.24	-13.17	19.16	2.00	
3800.00	7.15	183.00	3778.27	-265.39	-13.91	20.24	2.00	
3900.00	5.15	183.00	3877.69	-276.08	-14.47	21.06	2.00	
4000.00	3.15	183.00	3977.43	-283.30	-14.85	21.61	2.00	
4100.00	1.15	183.00	4077.35	-287.04	-15.04	21.89	2.00	
4157.27	0.00	183.00	4134.62	-287.61	-15.07	21.94	2.00	Hold Vertical
4200.00	0.00	270.20	4177.35	-287.61	-15.07	21.94	0.00	
4283.65	0.00	270.20	4261.00	-287.61	-15.07	21.94	0.00	Brushy Canyon
4300.00	0.00	270.20	4277.35	-287.61	-15.07	21.94	0.00	
4400.00	0.00	270.20	4377.35	-287.61	-15.07	21.94	0.00	
4500.00	0.00	270.20	4477.35	-287.61	-15.07	21.94	0.00	
4600.00	0.00	270.20	4577.35	-287.61	-15.07	21.94	0.00	
4700.00	0.00	270.20	4677.35	-287.61	-15.07	21.94	0.00	
4800.00	0.00	270.20	4777.35	-287.61	-15.07	21.94	0.00	
4900.00	0.00	270.20	4877.35	-287.61	-15.07	21.94	0.00	
5000.00	0.00	270.20	4977.35	-287.61	-15.07	21.94	0.00	
5100.00	0.00	270.20	5077.35	-287.61	-15.07	21.94	0.00	
5200.00	0.00	270.20	5177.35	-287.61	-15.07	21.94	0.00	
5300.00	0.00	270.20	5277.35	-287.61	-15.07	21.94	0.00	
5400.00	0.00	270.20	5377.35	-287.61	-15.07	21.94	0.00	
5486.65	0.00	270.20	5464.00	-287.61	-15.07	21.94	0.00	1st Bone Spring Lime
5500.00	0.00	270.20	5477.35	-287.61	-15.07	21.94	0.00	
5600.00	0.00	270.20	5577.35	-287.61	-15.07	21.94	0.00	
5700.00	0.00	270.20	5677.35	-287.61	-15.07	21.94	0.00	
5800.00	0.00	270.20	5777.35	-287.61	-15.07	21.94	0.00	
5900.00	0.00	270.20	5877.35	-287.61	-15.07	21.94	0.00	

devon

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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6000.00	0.00	270.20	5977.35	-287.61	-15.07	21.94	0.00	
6100.00	0.00	270.20	6077.35	-287.61	-15.07	21.94	0.00	
6200.00	0.00	270.20	6177.35	-287.61	-15.07	21.94	0.00	
6300.00	0.00	270.20	6277.35	-287.61	-15.07	21.94	0.00	
6400.00	0.00	270.20	6377.35	-287.61	-15.07	21.94	0.00	
6500.00	0.00	270.20	6477.35	-287.61	-15.07	21.94	0.00	
6600.00	0.00	270.20	6577.35	-287.61	-15.07	21.94	0.00	
6608.65	0.00	270.20	6586.00	-287.61	-15.07	21.94	0.00	Bone Spring 1st
6700.00	0.00	270.20	6677.35	-287.61	-15.07	21.94	0.00	
6800.00	0.00	270.20	6777.35	-287.61	-15.07	21.94	0.00	
6900.00	0.00	270.20	6877.35	-287.61	-15.07	21.94	0.00	
7000.00	0.00	270.20	6977.35	-287.61	-15.07	21.94	0.00	
7100.00	0.00	270.20	7077.35	-287.61	-15.07	21.94	0.00	
7200.00	0.00	270.20	7177.35	-287.61	-15.07	21.94	0.00	
7300.00	0.00	270.20	7277.35	-287.61	-15.07	21.94	0.00	
7304.65	0.00	270.20	7282.00	-287.61	-15.07	21.94	0.00	Bone Spring 2nd
7400.00	0.00	270.20	7377.35	-287.61	-15.07	21.94	0.00	
7500.00	0.00	270.20	7477.35	-287.61	-15.07	21.94	0.00	
7600.00	0.00	270.20	7577.35	-287.61	-15.07	21.94	0.00	
7604.65	0.00	270.20	7582.00	-287.61	-15.07	21.94	0.00	3rd Bone Spring Lime
7700.00	0.00	270.20	7677.35	-287.61	-15.07	21.94	0.00	
7800.00	0.00	270.20	7777.35	-287.61	-15.07	21.94	0.00	
7900.00	0.00	270.20	7877.35	-287.61	-15.07	21.94	0.00	
8000.00	0.00	270.20	7977.35	-287.61	-15.07	21.94	0.00	
8100.00	0.00	270.20	8077.35	-287.61	-15.07	21.94	0.00	
8200.00	0.00	270.20	8177.35	-287.61	-15.07	21.94	0.00	
8300.00	0.00	270.20	8277.35	-287.61	-15.07	21.94	0.00	
8400.00	0.00	270.20	8377.35	-287.61	-15.07	21.94	0.00	
8500.00	0.00	270.20	8477.35	-287.61	-15.07	21.94	0.00	
8578.65	0.00	270.20	8556.00	-287.61	-15.07	21.94	0.00	Bone Spring 3rd
8600.00	0.00	270.20	8577.35	-287.61	-15.07	21.94	0.00	
8700.00	0.00	270.20	8677.35	-287.61	-15.07	21.94	0.00	
8800.00	0.00	270.20	8777.35	-287.61	-15.07	21.94	0.00	
8900.00	0.00	270.20	8877.35	-287.61	-15.07	21.94	0.00	
8973.65	0.00	270.20	8951.00	-287.61	-15.07	21.94	0.00	Wolfcamp / Point of Penetration
9000.00	0.00	270.20	8977.35	-287.61	-15.07	21.94	0.00	
9049.83	0.00	270.20	9027.18	-287.61	-15.07	21.94	0.00	KOP
9100.00	5.02	270.20	9077.29	-287.60	-17.27	24.13	10.00	
9200.00	15.02	270.20	9175.64	-287.54	-34.64	41.50	10.00	
9300.00	25.02	270.20	9269.48	-287.42	-68.82	75.67	10.00	
9400.00	35.02	270.20	9355.95	-287.25	-118.79	125.61	10.00	
9500.00	45.02	270.20	9432.44	-287.02	-183.00	189.81	10.00	
9600.00	55.02	270.20	9496.62	-286.76	-259.53	266.30	10.00	
9700.00	65.02	270.20	9546.53	-286.45	-346.04	352.78	10.00	
9800.00	75.02	270.20	9580.66	-286.13	-439.90	446.60	10.00	
9900.00	85.02	270.20	9597.98	-285.78	-538.26	544.93	10.00	
9962.56	91.27	270.20	9600.00	-285.56	-600.75	607.40	10.00	Landing Point
10000.00	91.27	270.20	9599.17	-285.43	-638.18	644.82	0.00	
10100.00	91.27	270.20	9596.95	-285.09	-738.16	744.76	0.00	
10200.00	91.27	270.20	9594.73	-284.74	-838.13	844.69	0.00	
10300.00	91.27	270.20	9592.51	-284.39	-938.11	944.63	0.00	
10400.00	91.27	270.20	9590.29	-284.04	-1038.08	1044.57	0.00	
10500.00	91.27	270.20	9588.07	-283.69	-1138.06	1144.51	0.00	
10600.00	91.27	270.20	9585.85	-283.34	-1238.03	1244.45	0.00	
10700.00	91.27	270.20	9583.63	-282.99	-1338.01	1344.38	0.00	
10800.00	91.27	270.20	9581.40	-282.65	-1437.98	1444.32	0.00	
10900.00	91.27	270.20	9579.18	-282.30	-1537.96	1544.26	0.00	
11000.00	91.27	270.20	9576.96	-281.95	-1637.93	1644.20	0.00	
11100.00	91.27	270.20	9574.74	-281.60	-1737.90	1744.14	0.00	
11200.00	91.27	270.20	9572.52	-281.25	-1837.88	1844.07	0.00	
11300.00	91.27	270.20	9570.30	-280.90	-1937.85	1944.01	0.00	
11400.00	91.27	270.20	9568.08	-280.55	-2037.83	2043.95	0.00	
11500.00	91.27	270.20	9565.86	-280.21	-2137.80	2143.89	0.00	
11600.00	91.27	270.20	9563.64	-279.86	-2237.78	2243.82	0.00	
11700.00	91.27	270.20	9561.42	-279.51	-2337.75	2343.76	0.00	
11800.00	91.27	270.20	9559.20	-279.16	-2437.73	2443.70	0.00	
11900.00	91.27	270.20	9556.98	-278.81	-2537.70	2543.64	0.00	
12000.00	91.27	270.20	9554.76	-278.46	-2637.68	2643.58	0.00	
12100.00	91.27	270.20	9552.54	-278.11	-2737.65	2743.51	0.00	
12200.00	91.27	270.20	9550.32	-277.76	-2837.63	2843.45	0.00	

devon

Well: ATLATL 11-10 FED COM 331H
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
12300.00	91.27	270.20	9548.10	-277.42	-2937.60	2943.39	0.00	
12400.00	91.27	270.20	9545.88	-277.07	-3037.58	3043.33	0.00	
12500.00	91.27	270.20	9543.66	-276.72	-3137.55	3143.27	0.00	
12600.00	91.27	270.20	9541.44	-276.37	-3237.53	3243.20	0.00	
12700.00	91.27	270.20	9539.22	-276.02	-3337.50	3343.14	0.00	
12800.00	91.27	270.20	9537.00	-275.67	-3437.48	3443.08	0.00	
12900.00	91.27	270.20	9534.78	-275.32	-3537.45	3543.02	0.00	
13000.00	91.27	270.20	9532.55	-274.98	-3637.42	3642.95	0.00	
13100.00	91.27	270.20	9530.33	-274.63	-3737.40	3742.89	0.00	
13200.00	91.27	270.20	9528.11	-274.28	-3837.37	3842.83	0.00	
13300.00	91.27	270.20	9525.89	-273.93	-3937.35	3942.77	0.00	
13400.00	91.27	270.20	9523.67	-273.58	-4037.32	4042.71	0.00	
13500.00	91.27	270.20	9521.45	-273.23	-4137.30	4142.64	0.00	
13600.00	91.27	270.20	9519.23	-272.88	-4237.27	4242.58	0.00	
13700.00	91.27	270.20	9517.01	-272.54	-4337.25	4342.52	0.00	
13800.00	91.27	270.20	9514.79	-272.19	-4437.22	4442.46	0.00	
13900.00	91.27	270.20	9512.57	-271.84	-4537.20	4542.40	0.00	
14000.00	91.27	270.20	9510.35	-271.49	-4637.17	4642.33	0.00	
14100.00	91.27	270.20	9508.13	-271.14	-4737.15	4742.27	0.00	
14200.00	91.27	270.20	9505.91	-270.79	-4837.12	4842.21	0.00	
14300.00	91.27	270.20	9503.69	-270.44	-4937.10	4942.15	0.00	
14400.00	91.27	270.20	9501.47	-270.10	-5037.07	5042.09	0.00	
14500.00	91.27	270.20	9499.25	-269.75	-5137.05	5142.02	0.00	
14600.00	91.27	270.20	9497.03	-269.40	-5237.02	5241.96	0.00	
14700.00	91.27	270.20	9494.81	-269.05	-5337.00	5341.90	0.00	
14800.00	91.27	270.20	9492.59	-268.70	-5436.97	5441.84	0.00	
14900.00	91.27	270.20	9490.37	-268.35	-5536.94	5541.77	0.00	
15000.00	91.27	270.20	9488.15	-268.00	-5636.92	5641.71	0.00	
15100.00	91.27	270.20	9485.93	-267.66	-5736.89	5741.65	0.00	
15200.00	91.27	270.20	9483.70	-267.31	-5836.87	5841.59	0.00	
15300.00	91.27	270.20	9481.48	-266.96	-5936.84	5941.53	0.00	
15400.00	91.27	270.20	9479.26	-266.61	-6036.82	6041.46	0.00	
15500.00	91.27	270.20	9477.04	-266.26	-6136.79	6141.40	0.00	
15600.00	91.27	270.20	9474.82	-265.91	-6236.77	6241.34	0.00	
15700.00	91.27	270.20	9472.60	-265.56	-6336.74	6341.28	0.00	
15800.00	91.27	270.20	9470.38	-265.22	-6436.72	6441.22	0.00	
15900.00	91.27	270.20	9468.16	-264.87	-6536.69	6541.15	0.00	
16000.00	91.27	270.20	9465.94	-264.52	-6636.67	6641.09	0.00	
16100.00	91.27	270.20	9463.72	-264.17	-6736.64	6741.03	0.00	
16200.00	91.27	270.20	9461.50	-263.82	-6836.62	6840.97	0.00	
16300.00	91.27	270.20	9459.28	-263.47	-6936.59	6940.91	0.00	
16400.00	91.27	270.20	9457.06	-263.12	-7036.57	7040.84	0.00	
16500.00	91.27	270.20	9454.84	-262.78	-7136.54	7140.78	0.00	
16600.00	91.27	270.20	9452.62	-262.43	-7236.52	7240.72	0.00	
16700.00	91.27	270.20	9450.40	-262.08	-7336.49	7340.66	0.00	
16800.00	91.27	270.20	9448.18	-261.73	-7436.46	7440.59	0.00	
16900.00	91.27	270.20	9445.96	-261.38	-7536.44	7540.53	0.00	
17000.00	91.27	270.20	9443.74	-261.03	-7636.41	7640.47	0.00	
17100.00	91.27	270.20	9441.52	-260.68	-7736.39	7740.41	0.00	
17200.00	91.27	270.20	9439.30	-260.34	-7836.36	7840.35	0.00	
17300.00	91.27	270.20	9437.08	-259.99	-7936.34	7940.28	0.00	
17400.00	91.27	270.20	9434.85	-259.64	-8036.31	8040.22	0.00	
17500.00	91.27	270.20	9432.63	-259.29	-8136.29	8140.16	0.00	
17600.00	91.27	270.20	9430.41	-258.94	-8236.26	8240.10	0.00	
17700.00	91.27	270.20	9428.19	-258.59	-8336.24	8340.04	0.00	
17800.00	91.27	270.20	9425.97	-258.24	-8436.21	8439.97	0.00	
17900.00	91.27	270.20	9423.75	-257.90	-8536.19	8539.91	0.00	
18000.00	91.27	270.20	9421.53	-257.55	-8636.16	8639.85	0.00	
18100.00	91.27	270.20	9419.31	-257.20	-8736.14	8739.79	0.00	
18200.00	91.27	270.20	9417.09	-256.85	-8836.11	8839.73	0.00	
18300.00	91.27	270.20	9414.87	-256.50	-8936.09	8939.66	0.00	
18400.00	91.27	270.20	9412.65	-256.15	-9036.06	9039.60	0.00	
18500.00	91.27	270.20	9410.43	-255.80	-9136.04	9139.54	0.00	
18600.00	91.27	270.20	9408.21	-255.46	-9236.01	9239.48	0.00	
18700.00	91.27	270.20	9405.99	-255.11	-9335.98	9339.41	0.00	
18800.00	91.27	270.20	9403.77	-254.76	-9435.96	9439.35	0.00	
18900.00	91.27	270.20	9401.55	-254.41	-9535.93	9539.29	0.00	
19000.00	91.27	270.20	9399.33	-254.06	-9635.91	9639.23	0.00	
19100.00	91.27	270.20	9397.11	-253.71	-9735.88	9739.17	0.00	
19200.00	91.27	270.20	9394.89	-253.36	-9835.86	9839.10	0.00	

devon

Well: ATLATL 11-10 FED COM 331H
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
19300.00	91.27	270.20	9392.67	-253.02	-9935.83	9939.04	0.00	
19400.00	91.27	270.20	9390.45	-252.67	-10035.81	10038.98	0.00	
19500.00	91.27	270.20	9388.23	-252.32	-10135.78	10138.92	0.00	
19600.00	91.27	270.20	9386.00	-251.97	-10235.76	10238.86	0.00	
19700.00	91.27	270.20	9383.78	-251.62	-10335.73	10338.79	0.00	
19789.83	91.27	270.20	9381.79	-251.31	-10425.54	10428.57	0.00	exit
19800.00	91.27	270.20	9381.56	-251.27	-10435.71	10438.73	0.00	
19869.83	91.27	270.20	9380.00	-250.99	-10505.52	10508.52	0.00	BHL

Offline Cementing

Variance Request

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

Well Name: ATLATL 11 10 FED COM

Well Location: T22S / R27E / SEC 11 / NENE / 32.411519 / -104.151822

County or Parish/State: EDDY / NM

Well Number: 331H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM64583

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2795553

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/17/2024

Time Sundry Submitted: 05:52

Date proposed operation will begin: 06/16/2024

Procedure Description: PERMIT ID 10400092144 Devon Energy Production Co., L.P. (Devon) respectfully requests offline cementing for the subject well. See Variance attached. Devon Energy Production Co., L.P. (Devon) respectfully requests to move surface and intermediate casing and change the weight, grade, connection and add alternative casing design.Please see attached spec sheet, and drill plan. Devon Energy Production Co., L.P. (Devon) respectfully requests to change the BHL and Formation on the subject well. Please see attached revised C102, Drill plan, directional plan. Permitted BHL: NENE , 400 FNL 23 FEL, 10-22S-27E Proposed BHL: SWNW, 1410 FNL, 20 FWL, 10-22S-27E Permitted TVD/MD: 8686/19210-Esperanza/Bonespring Proposed TVD/MD: 9382/19870- Purple Sage/Wolfcamp (Gas)

NOI Attachments

Procedure Description

5.500_0.361_P110_ICY_TXP__BTC_01242024_20240617055146.pdf

8.625_0.352_P110_ICY_Wedge_441__02162024_20240617055126.pdf

5.500_0.361_P110_ICY_TXP__BTC_01242024_20240617054933.pdf

10.750_45.50_HCL80_SCC_20240617054757.PDF

13.375_54.50_J55_20240617054716.pdf

ATLATL_11_10_FED_COM_331H_r2_20240616205041.pdf

ATLATL_11_10_FED_COM_331H_Directional_Plan_06_13_24_20240616205014.pdf

Well Name: ATLATL 11 10 FED COM	**Well Location:** T22S / R27E / SEC 11 / NENE / 32.411519 / -104.151822	**County or Parish/State:** EDDY / NM
Well Number: 331H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM64583	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number:	**Operator:** DEVON ENERGY PRODUCTION COMPANY LP	

Offline_Cementing___Variance_Request_20240616204644.pdf

Operator

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

Operator Electronic Signature: ARIANNA EVANS **Signed on:** JUN 16, 2024 08:44 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-4514

Email address: ARIANNA.EVANS@DVN.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMNM64583**
LOCATION:	Section 11, T.22 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**Atlatl 11 10 Fed Com 331H**
BOTTOM HOLE FOOTAGE	1410'/N & 20'/W
ATS/API ID:	**ATS-23-1423**
APD ID:	**10400092144**
Sundry ID:	**2795553**
Date APD Submitted:	

COA

Primary Design:

H2S	Yes		
Potash	None		
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☑ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: None	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention: None	
Special Requirements Variance	☑ Break Testing	☑ Offline Cementing	☐ Casing Clearance

Alternate Design:

Potash	None		
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Other	☑ 4 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 2	Primary Cement Squeeze None

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

Primary Casing Design:

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

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

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

2. The minimum required fill of cement behind the **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.**

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

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

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

Alternate Casing Design:

C. CASING

4. The **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of **70 feet (Eddy County)** 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.

    e. 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.
    f. 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)
    g. 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.
    h. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

5. 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.**

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

6. The minimum required fill of cement behind the **8-5/8** inch intermediate casing shall be set at approximately **8951 feet** is:

    Option 1 (Single Stage):

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

    Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 4261' (727 sxs Class H/C+ additives)**.

b. Second stage:

- Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **(Squeeze 240 sxs Class C)**
  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 after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the **8-5/8**" casing to surface after the second stage BH to verify TOC.
Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

D. 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:

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.

E. 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.

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

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

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

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

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

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

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

B. PRESSURE CONTROL

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

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

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

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

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

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

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

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 6/24/2024

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

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

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

Additional Information

Additional Remarks

Permitted TVD/MD: 8686/19210-Esperanza/Bonespring

Proposed TVD/MD: 9382/19870- Purple Sage/Wolfcamp (Gas)

Location of Well

0. SHL: NENE / 1123 FNL / 23 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.411519 / LONG: -104.151822 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 376 FNL / 141 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4135802 / LONG: -104.1693206 (TVD: 8799 feet, MD: 14100 feet)

PPP: NENW / 387 FNL / 2559 FWL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4135427 / LONG: -104.1605735 (TVD: 8860 feet, MD: 11400 feet)

BHL: NWNW / 400 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 10 / LAT: 32.41365 / LONG: -104.185872 (TVD: 9082 feet, MD: 19359 feet)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	ATLATL 11-10 FED COM	331H

OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3082.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	22-S	27-E		1123	NORTH	23	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	10	22-S	27-E		1410	NORTH	20	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			NSL

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

ATLATL 11-10 FED COM 331H
EL: 3082.5'
GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
N:513489.36
E:597351.00
LAT:32.411519
LON:104.151822

KICK OFF POINT
CALLS: 1411 FNL 52 FEL
N: 513201.8
E: 597336
LAT: 32.41063451
LON: -104.15195425

FIRST TAKE POINT (PPP 1)
1410' FNL 100' FEL SEC. 11
N:513202.56
E:597273.62
LAT:32.410731
LON:104.152075

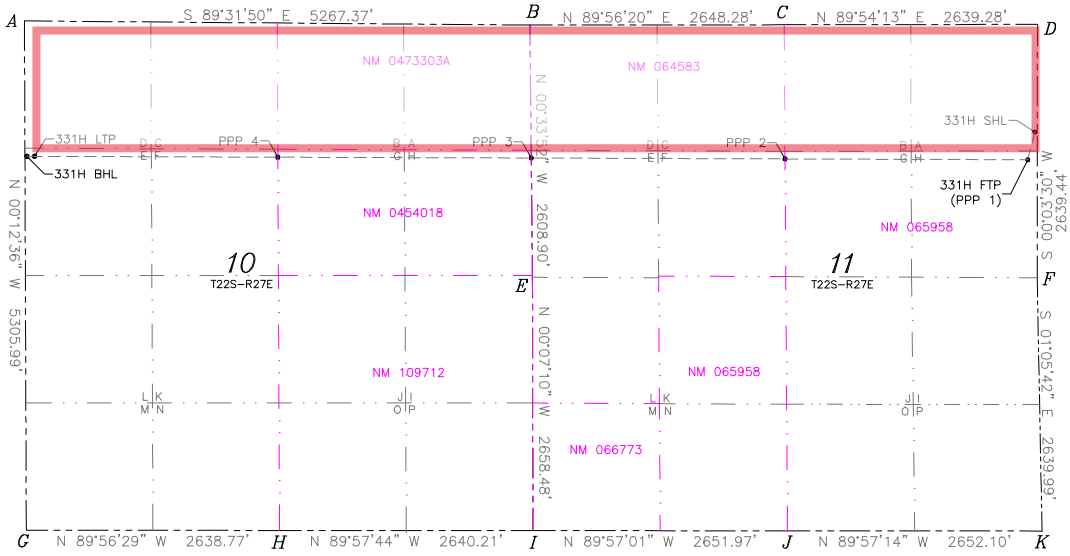
LAST TAKE POINT
1410' FNL 100' FWL SEC. 10
N:513237.71
E:586925.48
LAT:32.410871
LON:104.185607

BOTTOM OF HOLE
N:513238.37
E:586845.48
LAT:32.410873
LON:104.185866

PPP 2
1397' FNL 2629' FEL SEC. 11
N:513211.15
E:594745.01
LAT:32.410766
LON:104.160269

PPP 3
1385' FNL 0' FEL SEC. 10
N:513220.13
E:592101.15
LAT:32.410802
LON:104.168836

PPP 4
1398' FNL 2641' FEL SEC. 10
N:513229.10
E:589460.42
LAT:32.410838
LON:104.177393



A = N:514648.62 E:586820.31
B = N:514605.47 E:592087.50
C = N:514608.29 E:594735.78
D = N:514612.73 E:597375.06
E = N:511996.70 E:592113.21
F = N:511973.30 E:597372.37
G = N:509342.66 E:586839.76
H = N:509339.97 E:589478.53
I = N:509338.22 E:592118.75
J = N:509335.93 E:594770.72
K = N:509333.79 E:597422.82

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and 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 such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arianna Evans 6/13/24
Signature Date

Arianna Evans
Printed Name

arianna.evans@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

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.

06/2024
DATE OF SURVEY
Signature & Seal of Professional Surveyor

ALBERT R. DEHOYOS
NEW MEXICO
23261
PROFESSIONAL SURVEYOR

Certificate No. 23261 ALBERT R. DEHOYOS
DRAWN BY: C.MAAS DATE: 06/12/24

Intent [x] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.	ATLATL 11-10 FED COM	331H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	11	22S	27E		1411	NORTH	52	EAST	EDDY

Latitude	Longitude	NAD
32.41063451	-104.15195425	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	11	22-S	27-E		1410	NORTH	100	EAST	EDDY

Latitude	Longitude	NAD
32.410731	104.152075	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	10	22-S	27-E		1410	NORTH	100	WEST	EDDY

Latitude	Longitude	NAD
32.410871	104.185607	83

Is this well the defining well for the Horizontal Spacing Unit? [yes]

Is this well an infill well? [no]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Tenaris

TXP® BTC

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.100 in.	**Tension Efficiency**	100 %	**Minimum**	11,540 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	12,820 ft-lb
Connection ID	4.766 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	14,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	22,700 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	25,250 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris

TenarisHydril Wedge 441® - AD

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	8.625 in.	**Wall Thickness**	0.352 in.	**Grade**	P110-ICY
Min. Wall Thickness	90.00 %	**Pipe Body Drift**	Alternative Drift	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	8.625 in.	**Wall Thickness**	0.352 in.	**Body Yield Strength**	1144 x1000 lb
Nominal Weight	32.00 lb/ft	**Plain End Weight**	31.13 lb/ft	**Min. Internal Yield Pressure**	9180 psi
Drift	7.875 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	7.921 in.			**Collapse Pressure**	4000 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	8.889 in.	**Tension Efficiency**	81.20 %	**Minimum**	23,000 ft-lb
Coupling Length	8.862 in.	**Joint Yield Strength**	929 x1000 lb	**Optimum**	24,000 ft-lb
Connection ID	7.921 in.	**Internal Pressure Capacity**	9180 psi	**Maximum**	27,000 ft-lb
Make-up Loss	3.744 in.	**Compression Efficiency**	81.20 %		
Threads per inch	3.43	**Compression Strength**	929 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	53.59 °/100 ft	**Operating Torque**	59,000 ft-lb
		External Pressure Capacity	4000 psi	**Yield Torque**	70,000 ft-lb
				Buck-On	
				Minimum	27,000 ft-lb
				Maximum	29,000 ft-lb

Notes

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For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris

TXP® BTC

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.100 in.	**Tension Efficiency**	100 %	**Minimum**	11,540 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	12,820 ft-lb
Connection ID	4.766 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	14,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	22,700 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	25,250 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

BORUSAN MANNESMANN

API 5CT 10.750" 45.50lb/ft HCL80 Casing Performance Data Sheet

Manufactured to specifications of API 5CT 9th edition and bears the API monogram.

Grade	HCL80

	Pipe Body Mechanical Properties
Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23.0 HRC

	Sizes
OD	10 3/4
Nominal Wall Thickness	.400 in
Nominal Weight, T&C	45.50 lb/ft
Nominal Weight, PE	44.26 lb/ft
Nominal ID	9.950 in
Standard Drift	9.794 in
Alternate Drift	9.875 in

Coupling Special Clearance	**Size**
OD	11.25 in
Min. Length	10.625 in
Diameter of Counter Bore	10.890 in
Width of bearing face	.375 in

	Minimum Performance
Collapse Pressure	2,940 psi
Internal Pressure Yield	5,210 psi
Pipe body Tension Yield	1,040,000 lbs
Joint Strength STC	692,000 lbs
Joint Strength LTC	N/A
Joint Strength BTC	1,063,000 lbs

	Inspection and Testing
Visual	OD Longitidunal and independent 3rd party SEA
NDT	Independent 3rd party full body EMI and End Area Inspection after hydrotest Calibration notch sensitivity: 10% of specified wall thickness

	Color code
Pipe ends	One red, one brown and one blue band
Couplings	Red with one brown band

SeAH

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

Dimensions (Nominal)

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

Performance Ratings, Minimum

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

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

1. Geologic Formations

TVD of target	9382	Pilot hole depth	N/A
MD at TD:	19870	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	172		
Salt	419		
Base of Salt	857		
Capitan Reef Top	971		
Delaware	2207		
Cherry Canyon	3547		
Brushy Canyon	4261		
1st Bone Spring Lime	5464		
Bone Spring 1st	6586		
Bone Spring 2nd	7282		
3rd Bone Spring Lime	7582		
Bone Spring 3rd	8556		
Wolfcamp	8951		

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

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	200	0	200
12 1/4	10 3/4	45 1/2	HCL80	BTC SCC	0	2300	0	2300
9.875x8.75	5 1/2	20	P-110ICY	TXP	0	19870	0	9382

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
*9.875" hole down to KOP, and then 8.75" hole

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	183	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	135	Surf	9	3.27	Lead: Class C Cement + additives
	101	1800	13.2	1.44	Tail: Class H / C + additives
Production	959	1300	9	3.27	Lead: Class H /C + additives
	3032	9050	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

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

2. Casing Program (Alternative Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0.0	200 MD	0	200 TVD
12 1/4	10 3/4	45 1/2	HCL80	BTC SCC	0.0	2300 MD	0	2300 TVD
9 7/8	8 5/8	~~8 5/8~~ 32	P-110ICY	Wedge 441	0	8951' ~~9050 MD~~	0	8951' ~~9027 TVD~~
7 7/8	5 1/2	20	P-110ICY	TXP	0	19870 MD	0	9382 TVD

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	183	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	135	Surf	9	3.27	Lead: Class C Cement + additives
	101	1800	13.2	1.44	Tail: Class H / C + additives
Int 1	172	Surf	9	3.27	Lead: Class C Cement + additives
	555	4261	13.2	1.44	Tail: Class H / C + additives
Production	117	7050	9	3.27	Lead: Class H /C + additives
	1432	9050	13.2	1.44	Tail: Class H / C + additives

Squeeze 240 sxs Class C from Brushy Canyon to surface.

4. Pressure Control Equipment (Three String Design)

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

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

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5122
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

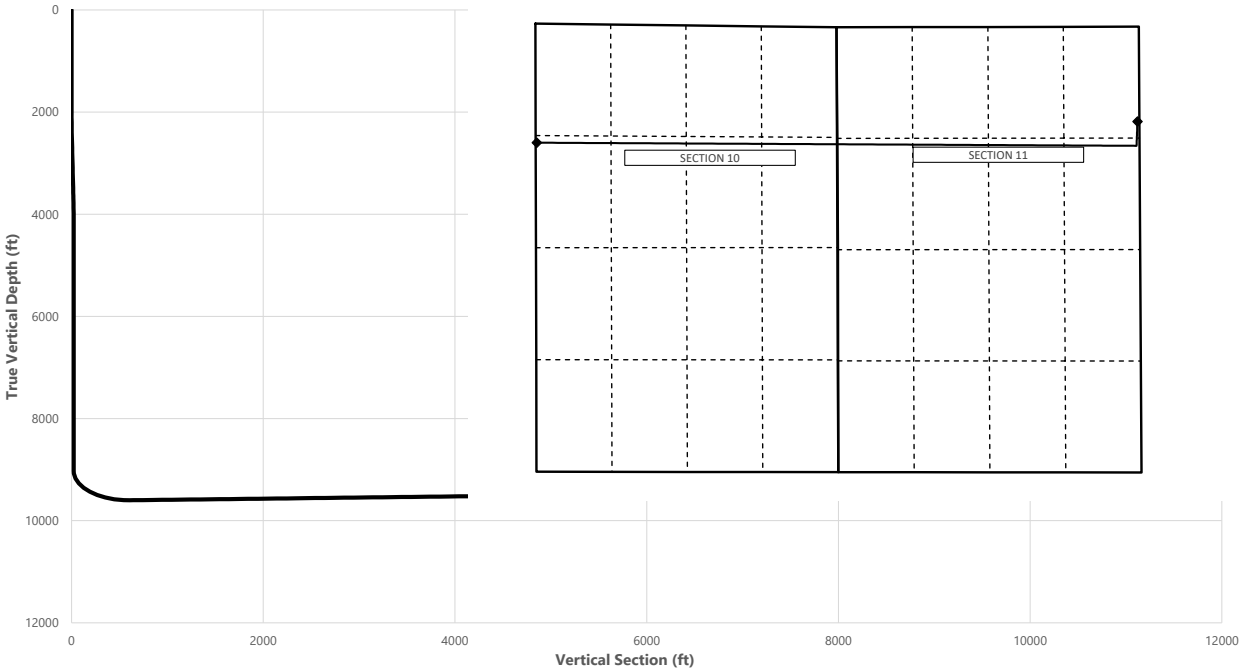
Attachments

X Directional Plan
_____ Other, describe

Well: ATLATL 11-10 FED COM 331H
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	183.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	183.00	2497.47	-43.46	-2.28	3.32	2.00	Hold Tangent
3657.27	10.00	183.00	3637.16	-244.15	-12.80	18.62	0.00	Drop to Vertical
4157.27	0.00	183.00	4134.62	-287.61	-15.07	21.94	2.00	Hold Vertical
9049.83	0.00	270.20	9027.18	-287.61	-15.07	21.94	0.00	KOP
9962.56	91.27	270.20	9600.00	-285.56	-600.75	607.40	10.00	Landing Point
19869.83	91.27	270.20	9380.00	-250.99	-10505.52	10508.52	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	172.00	172.00
Salt	419.00	419.00
Base of Salt	857.00	857.00
Capitan Reef Top	971.00	971.00
Delaware	2207.18	2207.00
Cherry Canyon	3565.73	3547.00
Brushy Canyon	4283.65	4261.00
1st Bone Spring Lime	5486.65	5464.00
Bone Spring 1st	6608.65	6586.00
Bone Spring 2nd	7304.65	7282.00
3rd Bone Spring Lime	7604.65	7582.00
Bone Spring 3rd	8578.65	8556.00
Wolfcamp / Point of Penetration	8973.65	8951.00
exit	19789.83	9381.79

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.4114	-104.1519	1123' FNL, 23' FEL of Sec 11 in T22S, R27E
KOP	9049.83	9027.18	32.4106	-104.1520	1411' FNL, 52' FEL of Sec 11 in T22S, R27E
Point of Penetration	8973.65	8951.00	32.4107	-104.1521	1410' FNL , 100' FEL of Sec 11 in T22S, R27E
Exit	19789.83	9381.79	32.4109	-104.1856	1410' FNL, 100' FWL of Sec 10 in T22S, R27E
BHL	19869.83	9380.00	32.4108	-104.1859	1410' FNL, 20' FWL of Sec 10 in T22S, R27E

	Y	X	MD
KOP	513201.8	597336	9049.83

devon

Well: ATLATL 11-10 FED COM 331H
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	183.00	100.00	0.00	0.00	0.00	0.00	
172.00	0.00	183.00	172.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	183.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	183.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	183.00	400.00	0.00	0.00	0.00	0.00	
419.00	0.00	183.00	419.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	183.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	183.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	183.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	183.00	800.00	0.00	0.00	0.00	0.00	
857.00	0.00	183.00	857.00	0.00	0.00	0.00	0.00	Base of Salt
900.00	0.00	183.00	900.00	0.00	0.00	0.00	0.00	
971.00	0.00	183.00	971.00	0.00	0.00	0.00	0.00	Capitan Reef Top
1000.00	0.00	183.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	183.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	183.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	183.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	183.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	183.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	183.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	183.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	183.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	183.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	183.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	183.00	2099.98	-1.74	-0.09	0.13	2.00	
2200.00	4.00	183.00	2199.84	-6.97	-0.37	0.53	2.00	
2207.18	4.14	183.00	2207.00	-7.48	-0.39	0.57	2.00	Delaware
2300.00	6.00	183.00	2299.45	-15.67	-0.82	1.20	2.00	
2400.00	8.00	183.00	2398.70	-27.84	-1.46	2.12	2.00	
2500.00	10.00	183.00	2497.47	-43.46	-2.28	3.32	2.00	Hold Tangent
2600.00	10.00	183.00	2595.95	-60.80	-3.19	4.64	0.00	
2700.00	10.00	183.00	2694.43	-78.14	-4.10	5.96	0.00	
2800.00	10.00	183.00	2792.91	-95.49	-5.00	7.28	0.00	
2900.00	10.00	183.00	2891.39	-112.83	-5.91	8.61	0.00	
3000.00	10.00	183.00	2989.87	-130.17	-6.82	9.93	0.00	
3100.00	10.00	183.00	3088.35	-147.51	-7.73	11.25	0.00	
3200.00	10.00	183.00	3186.83	-164.85	-8.64	12.57	0.00	
3300.00	10.00	183.00	3285.31	-182.19	-9.55	13.90	0.00	
3400.00	10.00	183.00	3383.79	-199.53	-10.46	15.22	0.00	
3500.00	10.00	183.00	3482.27	-216.87	-11.37	16.54	0.00	
3565.73	10.00	183.00	3547.00	-228.27	-11.96	17.41	0.00	Cherry Canyon
3600.00	10.00	183.00	3580.75	-234.21	-12.27	17.86	0.00	
3657.27	10.00	183.00	3637.16	-244.15	-12.80	18.62	0.00	Drop to Vertical
3700.00	9.15	183.00	3679.29	-251.24	-13.17	19.16	2.00	
3800.00	7.15	183.00	3778.27	-265.39	-13.91	20.24	2.00	
3900.00	5.15	183.00	3877.69	-276.08	-14.47	21.06	2.00	
4000.00	3.15	183.00	3977.43	-283.30	-14.85	21.61	2.00	
4100.00	1.15	183.00	4077.35	-287.04	-15.04	21.89	2.00	
4157.27	0.00	183.00	4134.62	-287.61	-15.07	21.94	2.00	Hold Vertical
4200.00	0.00	270.20	4177.35	-287.61	-15.07	21.94	0.00	
4283.65	0.00	270.20	4261.00	-287.61	-15.07	21.94	0.00	Brushy Canyon
4300.00	0.00	270.20	4277.35	-287.61	-15.07	21.94	0.00	
4400.00	0.00	270.20	4377.35	-287.61	-15.07	21.94	0.00	
4500.00	0.00	270.20	4477.35	-287.61	-15.07	21.94	0.00	
4600.00	0.00	270.20	4577.35	-287.61	-15.07	21.94	0.00	
4700.00	0.00	270.20	4677.35	-287.61	-15.07	21.94	0.00	
4800.00	0.00	270.20	4777.35	-287.61	-15.07	21.94	0.00	
4900.00	0.00	270.20	4877.35	-287.61	-15.07	21.94	0.00	
5000.00	0.00	270.20	4977.35	-287.61	-15.07	21.94	0.00	
5100.00	0.00	270.20	5077.35	-287.61	-15.07	21.94	0.00	
5200.00	0.00	270.20	5177.35	-287.61	-15.07	21.94	0.00	
5300.00	0.00	270.20	5277.35	-287.61	-15.07	21.94	0.00	
5400.00	0.00	270.20	5377.35	-287.61	-15.07	21.94	0.00	
5486.65	0.00	270.20	5464.00	-287.61	-15.07	21.94	0.00	1st Bone Spring Lime
5500.00	0.00	270.20	5477.35	-287.61	-15.07	21.94	0.00	
5600.00	0.00	270.20	5577.35	-287.61	-15.07	21.94	0.00	
5700.00	0.00	270.20	5677.35	-287.61	-15.07	21.94	0.00	
5800.00	0.00	270.20	5777.35	-287.61	-15.07	21.94	0.00	
5900.00	0.00	270.20	5877.35	-287.61	-15.07	21.94	0.00	

devon

Well: ATLATL 11-10 FED COM 331H
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
6000.00	0.00	270.20	5977.35	-287.61	-15.07	21.94	0.00	
6100.00	0.00	270.20	6077.35	-287.61	-15.07	21.94	0.00	
6200.00	0.00	270.20	6177.35	-287.61	-15.07	21.94	0.00	
6300.00	0.00	270.20	6277.35	-287.61	-15.07	21.94	0.00	
6400.00	0.00	270.20	6377.35	-287.61	-15.07	21.94	0.00	
6500.00	0.00	270.20	6477.35	-287.61	-15.07	21.94	0.00	
6600.00	0.00	270.20	6577.35	-287.61	-15.07	21.94	0.00	
6608.65	0.00	270.20	6586.00	-287.61	-15.07	21.94	0.00	Bone Spring 1st
6700.00	0.00	270.20	6677.35	-287.61	-15.07	21.94	0.00	
6800.00	0.00	270.20	6777.35	-287.61	-15.07	21.94	0.00	
6900.00	0.00	270.20	6877.35	-287.61	-15.07	21.94	0.00	
7000.00	0.00	270.20	6977.35	-287.61	-15.07	21.94	0.00	
7100.00	0.00	270.20	7077.35	-287.61	-15.07	21.94	0.00	
7200.00	0.00	270.20	7177.35	-287.61	-15.07	21.94	0.00	
7300.00	0.00	270.20	7277.35	-287.61	-15.07	21.94	0.00	
7304.65	0.00	270.20	7282.00	-287.61	-15.07	21.94	0.00	Bone Spring 2nd
7400.00	0.00	270.20	7377.35	-287.61	-15.07	21.94	0.00	
7500.00	0.00	270.20	7477.35	-287.61	-15.07	21.94	0.00	
7600.00	0.00	270.20	7577.35	-287.61	-15.07	21.94	0.00	
7604.65	0.00	270.20	7582.00	-287.61	-15.07	21.94	0.00	3rd Bone Spring Lime
7700.00	0.00	270.20	7677.35	-287.61	-15.07	21.94	0.00	
7800.00	0.00	270.20	7777.35	-287.61	-15.07	21.94	0.00	
7900.00	0.00	270.20	7877.35	-287.61	-15.07	21.94	0.00	
8000.00	0.00	270.20	7977.35	-287.61	-15.07	21.94	0.00	
8100.00	0.00	270.20	8077.35	-287.61	-15.07	21.94	0.00	
8200.00	0.00	270.20	8177.35	-287.61	-15.07	21.94	0.00	
8300.00	0.00	270.20	8277.35	-287.61	-15.07	21.94	0.00	
8400.00	0.00	270.20	8377.35	-287.61	-15.07	21.94	0.00	
8500.00	0.00	270.20	8477.35	-287.61	-15.07	21.94	0.00	
8578.65	0.00	270.20	8556.00	-287.61	-15.07	21.94	0.00	Bone Spring 3rd
8600.00	0.00	270.20	8577.35	-287.61	-15.07	21.94	0.00	
8700.00	0.00	270.20	8677.35	-287.61	-15.07	21.94	0.00	
8800.00	0.00	270.20	8777.35	-287.61	-15.07	21.94	0.00	
8900.00	0.00	270.20	8877.35	-287.61	-15.07	21.94	0.00	
8973.65	0.00	270.20	8951.00	-287.61	-15.07	21.94	0.00	Wolfcamp / Point of Penetration
9000.00	0.00	270.20	8977.35	-287.61	-15.07	21.94	0.00	
9049.83	0.00	270.20	9027.18	-287.61	-15.07	21.94	0.00	KOP
9100.00	5.02	270.20	9077.29	-287.60	-17.27	24.13	10.00	
9200.00	15.02	270.20	9175.64	-287.54	-34.64	41.50	10.00	
9300.00	25.02	270.20	9269.48	-287.42	-68.82	75.67	10.00	
9400.00	35.02	270.20	9355.95	-287.25	-118.79	125.61	10.00	
9500.00	45.02	270.20	9432.44	-287.02	-183.00	189.81	10.00	
9600.00	55.02	270.20	9496.62	-286.76	-259.53	266.30	10.00	
9700.00	65.02	270.20	9546.53	-286.45	-346.04	352.78	10.00	
9800.00	75.02	270.20	9580.66	-286.13	-439.90	446.60	10.00	
9900.00	85.02	270.20	9597.98	-285.78	-538.26	544.93	10.00	
9962.56	91.27	270.20	9600.00	-285.56	-600.75	607.40	10.00	Landing Point
10000.00	91.27	270.20	9599.17	-285.43	-638.18	644.82	0.00	
10100.00	91.27	270.20	9596.95	-285.09	-738.16	744.76	0.00	
10200.00	91.27	270.20	9594.73	-284.74	-838.13	844.69	0.00	
10300.00	91.27	270.20	9592.51	-284.39	-938.11	944.63	0.00	
10400.00	91.27	270.20	9590.29	-284.04	-1038.08	1044.57	0.00	
10500.00	91.27	270.20	9588.07	-283.69	-1138.06	1144.51	0.00	
10600.00	91.27	270.20	9585.85	-283.34	-1238.03	1244.45	0.00	
10700.00	91.27	270.20	9583.63	-282.99	-1338.01	1344.38	0.00	
10800.00	91.27	270.20	9581.40	-282.65	-1437.98	1444.32	0.00	
10900.00	91.27	270.20	9579.18	-282.30	-1537.96	1544.26	0.00	
11000.00	91.27	270.20	9576.96	-281.95	-1637.93	1644.20	0.00	
11100.00	91.27	270.20	9574.74	-281.60	-1737.90	1744.14	0.00	
11200.00	91.27	270.20	9572.52	-281.25	-1837.88	1844.07	0.00	
11300.00	91.27	270.20	9570.30	-280.90	-1937.85	1944.01	0.00	
11400.00	91.27	270.20	9568.08	-280.55	-2037.83	2043.95	0.00	
11500.00	91.27	270.20	9565.86	-280.21	-2137.80	2143.89	0.00	
11600.00	91.27	270.20	9563.64	-279.86	-2237.78	2243.82	0.00	
11700.00	91.27	270.20	9561.42	-279.51	-2337.75	2343.76	0.00	
11800.00	91.27	270.20	9559.20	-279.16	-2437.73	2443.70	0.00	
11900.00	91.27	270.20	9556.98	-278.81	-2537.70	2543.64	0.00	
12000.00	91.27	270.20	9554.76	-278.46	-2637.68	2643.58	0.00	
12100.00	91.27	270.20	9552.54	-278.11	-2737.65	2743.51	0.00	
12200.00	91.27	270.20	9550.32	-277.76	-2837.63	2843.45	0.00	

devon

Well: ATLATL 11-10 FED COM 331H
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Wellbore: Permit Plan
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Geodetic System: US State Plane 1983
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Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12300.00	91.27	270.20	9548.10	-277.42	-2937.60	2943.39	0.00	
12400.00	91.27	270.20	9545.88	-277.07	-3037.58	3043.33	0.00	
12500.00	91.27	270.20	9543.66	-276.72	-3137.55	3143.27	0.00	
12600.00	91.27	270.20	9541.44	-276.37	-3237.53	3243.20	0.00	
12700.00	91.27	270.20	9539.22	-276.02	-3337.50	3343.14	0.00	
12800.00	91.27	270.20	9537.00	-275.67	-3437.48	3443.08	0.00	
12900.00	91.27	270.20	9534.78	-275.32	-3537.45	3543.02	0.00	
13000.00	91.27	270.20	9532.55	-274.98	-3637.42	3642.95	0.00	
13100.00	91.27	270.20	9530.33	-274.63	-3737.40	3742.89	0.00	
13200.00	91.27	270.20	9528.11	-274.28	-3837.37	3842.83	0.00	
13300.00	91.27	270.20	9525.89	-273.93	-3937.35	3942.77	0.00	
13400.00	91.27	270.20	9523.67	-273.58	-4037.32	4042.71	0.00	
13500.00	91.27	270.20	9521.45	-273.23	-4137.30	4142.64	0.00	
13600.00	91.27	270.20	9519.23	-272.88	-4237.27	4242.58	0.00	
13700.00	91.27	270.20	9517.01	-272.54	-4337.25	4342.52	0.00	
13800.00	91.27	270.20	9514.79	-272.19	-4437.22	4442.46	0.00	
13900.00	91.27	270.20	9512.57	-271.84	-4537.20	4542.40	0.00	
14000.00	91.27	270.20	9510.35	-271.49	-4637.17	4642.33	0.00	
14100.00	91.27	270.20	9508.13	-271.14	-4737.15	4742.27	0.00	
14200.00	91.27	270.20	9505.91	-270.79	-4837.12	4842.21	0.00	
14300.00	91.27	270.20	9503.69	-270.44	-4937.10	4942.15	0.00	
14400.00	91.27	270.20	9501.47	-270.10	-5037.07	5042.09	0.00	
14500.00	91.27	270.20	9499.25	-269.75	-5137.05	5142.02	0.00	
14600.00	91.27	270.20	9497.03	-269.40	-5237.02	5241.96	0.00	
14700.00	91.27	270.20	9494.81	-269.05	-5337.00	5341.90	0.00	
14800.00	91.27	270.20	9492.59	-268.70	-5436.97	5441.84	0.00	
14900.00	91.27	270.20	9490.37	-268.35	-5536.94	5541.77	0.00	
15000.00	91.27	270.20	9488.15	-268.00	-5636.92	5641.71	0.00	
15100.00	91.27	270.20	9485.93	-267.66	-5736.89	5741.65	0.00	
15200.00	91.27	270.20	9483.70	-267.31	-5836.87	5841.59	0.00	
15300.00	91.27	270.20	9481.48	-266.96	-5936.84	5941.53	0.00	
15400.00	91.27	270.20	9479.26	-266.61	-6036.82	6041.46	0.00	
15500.00	91.27	270.20	9477.04	-266.26	-6136.79	6141.40	0.00	
15600.00	91.27	270.20	9474.82	-265.91	-6236.77	6241.34	0.00	
15700.00	91.27	270.20	9472.60	-265.56	-6336.74	6341.28	0.00	
15800.00	91.27	270.20	9470.38	-265.22	-6436.72	6441.22	0.00	
15900.00	91.27	270.20	9468.16	-264.87	-6536.69	6541.15	0.00	
16000.00	91.27	270.20	9465.94	-264.52	-6636.67	6641.09	0.00	
16100.00	91.27	270.20	9463.72	-264.17	-6736.64	6741.03	0.00	
16200.00	91.27	270.20	9461.50	-263.82	-6836.62	6840.97	0.00	
16300.00	91.27	270.20	9459.28	-263.47	-6936.59	6940.91	0.00	
16400.00	91.27	270.20	9457.06	-263.12	-7036.57	7040.84	0.00	
16500.00	91.27	270.20	9454.84	-262.78	-7136.54	7140.78	0.00	
16600.00	91.27	270.20	9452.62	-262.43	-7236.52	7240.72	0.00	
16700.00	91.27	270.20	9450.40	-262.08	-7336.49	7340.66	0.00	
16800.00	91.27	270.20	9448.18	-261.73	-7436.46	7440.59	0.00	
16900.00	91.27	270.20	9445.96	-261.38	-7536.44	7540.53	0.00	
17000.00	91.27	270.20	9443.74	-261.03	-7636.41	7640.47	0.00	
17100.00	91.27	270.20	9441.52	-260.68	-7736.39	7740.41	0.00	
17200.00	91.27	270.20	9439.30	-260.34	-7836.36	7840.35	0.00	
17300.00	91.27	270.20	9437.08	-259.99	-7936.34	7940.28	0.00	
17400.00	91.27	270.20	9434.85	-259.64	-8036.31	8040.22	0.00	
17500.00	91.27	270.20	9432.63	-259.29	-8136.29	8140.16	0.00	
17600.00	91.27	270.20	9430.41	-258.94	-8236.26	8240.10	0.00	
17700.00	91.27	270.20	9428.19	-258.59	-8336.24	8340.04	0.00	
17800.00	91.27	270.20	9425.97	-258.24	-8436.21	8439.97	0.00	
17900.00	91.27	270.20	9423.75	-257.90	-8536.19	8539.91	0.00	
18000.00	91.27	270.20	9421.53	-257.55	-8636.16	8639.85	0.00	
18100.00	91.27	270.20	9419.31	-257.20	-8736.14	8739.79	0.00	
18200.00	91.27	270.20	9417.09	-256.85	-8836.11	8839.73	0.00	
18300.00	91.27	270.20	9414.87	-256.50	-8936.09	8939.66	0.00	
18400.00	91.27	270.20	9412.65	-256.15	-9036.06	9039.60	0.00	
18500.00	91.27	270.20	9410.43	-255.80	-9136.04	9139.54	0.00	
18600.00	91.27	270.20	9408.21	-255.46	-9236.01	9239.48	0.00	
18700.00	91.27	270.20	9405.99	-255.11	-9335.98	9339.41	0.00	
18800.00	91.27	270.20	9403.77	-254.76	-9435.96	9439.35	0.00	
18900.00	91.27	270.20	9401.55	-254.41	-9535.93	9539.29	0.00	
19000.00	91.27	270.20	9399.33	-254.06	-9635.91	9639.23	0.00	
19100.00	91.27	270.20	9397.11	-253.71	-9735.88	9739.17	0.00	
19200.00	91.27	270.20	9394.89	-253.36	-9835.86	9839.10	0.00	

devon

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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19300.00	91.27	270.20	9392.67	-253.02	-9935.83	9939.04	0.00	
19400.00	91.27	270.20	9390.45	-252.67	-10035.81	10038.98	0.00	
19500.00	91.27	270.20	9388.23	-252.32	-10135.78	10138.92	0.00	
19600.00	91.27	270.20	9386.00	-251.97	-10235.76	10238.86	0.00	
19700.00	91.27	270.20	9383.78	-251.62	-10335.73	10338.79	0.00	
19789.83	91.27	270.20	9381.79	-251.31	-10425.54	10428.57	0.00	exit
19800.00	91.27	270.20	9381.56	-251.27	-10435.71	10438.73	0.00	
19869.83	91.27	270.20	9380.00	-250.99	-10505.52	10508.52	0.00	BHL

Offline Cementing

Variance Request

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

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13 3/8	surface csg in a	17 1/2	inch hole.		Design Factors			Surface				
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	j 55	btc	44.73	6.91	2.18	350	18	3.65	13.04	19,075
"B"			btc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500	Tail Cmt	does not	circ to sfc.	Totals:	350				19,075

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	183	264	243	8	9.00	749	2M	1.56

Site plat (pipe racks S or E) as per O.O.1 III.D.4.i not found

10 3/4	casing inside the	13 3/8			Design Factors			Int 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50	hcl 80	btc scc	9.94	2.34	1.02	2,300	4	1.71	3.93	104,650
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500				Totals:	2,300				104,650
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		350				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.1882	236	587	450	30	10.50	3053	5M	0.50
D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
by stage % :		#VALUE!	#VALUE!				236	587	30

Class 'C' tail cmt yld > 1.35

5 1/2	casing inside the	10 3/4			Design Factors			Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	p 110	txp	3.89	2.45	2.81	9,049	3	4.70	4.11	180,980
"B"	20.00	p 110	txp	109.46	2.36	2.81	10,821	3	4.70	3.96	216,420
"C"							0				0
"D"			0				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,991				Totals:	19,870				397,400
	The cement volume(s) are intended to achieve a top of			2100	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.3669	3991	7502	6521	15	10.50			1.89

Class 'C' tail cmt yld > 1.35

#N/A

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

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

#N/A Capitan Reef est top XXXX.

ATLATL 11 10 Fed Com 331H

13 3/8	surface csg in a	17 1/2	inch hole.		Design Factors				Surface			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	j 55	btc	44.73	6.91	2.18	350	18	3.65	13.04	19,075
"B"			btc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500	Tail Cmt	does not	circ to sfc.	Totals:	350				19,075

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	183	264	243	8	9.00	749	2M	1.56

Site plat (pipe racks S or E) as per O.O.1 III.D.4.i not found.

10 3/4	casing inside the	13 3/8			Design Factors				Int 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50	hcl 80	btc scc	9.94	2.34	1.07	2,300	4	1.79	3.93	104,650
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500				Totals:	2,300				104,650
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		350				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.1882	236	587	450	30	10.50	2913	3M	0.50
D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
by stage % :		#VALUE!	#VALUE!				236	587	30

Class 'C' tail cmt yld > 1.35

8 5/8	casing inside the	10 3/4			Design Factors				Int 2			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	p 110	wedge 441	3.24	0.82	1.79	8,951	2	3.01	1.37	286,432
"B"							0				0
"C"							0				0
"D"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,969				Totals:	8,951				286,432
	The cement volume(s) are intended to achieve a top of			2100	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	727	1362	866	57	10.50	3053	5M	0.49
	Setting Depths for D V Tool(s):		4261				sum of sx	Σ CuFt	Σ%excess
	% excess cmt by stage:	130	26				967	1707	97

Class 'C' tail cmt yld > 1.35

Tail cmt

5 1/2	casing inside the	8 5/8			Design Factors				Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	p 110	txp	3.89	2.36	2.81	19,870	3	4.70	3.96	397,400
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	2,064				Totals:	19,870				397,400
	The cement volume(s) are intended to achieve a top of			8751	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	1549	2445	1927	27	10.50			0.89

Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 357134

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357134
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	10/4/2024