

Well Name: ATLATL 11 10 FED COM	Well Location: T22S / R27E / SEC 11 / NESE / 32.40517 / -104.153025	County or Parish/State: EDDY / NM
Well Number: 333H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM64583	Unit or CA Name:	Unit or CA Number:
US Well Number: 30-015-55246	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2798533

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/02/2024	Time Sundry Submitted: 07:47
Date proposed operation will begin: 07/02/2024	

Procedure Description: 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 and connection. 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 Formation: Esperanza Bone Spring and Proposed Formation: Purple Sage Wolfcamp (Gas) Permitted BHL: NWSW, 2100 FSL, 20 FWL, 10-22S-27E Proposed BHL: NWSW, 1410 FSL, 20 FWL, 10-22S-27E

NOI Attachments

Procedure Description

- 13.375_54.50_J55_20240702074634.pdf
- 10.750_45.50_HCL80_SCC_20240702074615.PDF
- 8.625_0.352_P110_ICY_Wedge_441__02162024_20240702074534.pdf
- 5.500_0.361_P110_ICY_TXP__BTC_01242024_20240702074519.pdf
- ATLATL_11_10_FED_COM_333H_R2_20240702073824.pdf
- ATLATL_11_10_FED_COM_333H_Directional_Plan_06_13_24_20240702073809.pdf
- WA022066495_ATLATL_11_10_FED_COM_333H_WL_R2_UPDATED_20240702073749.pdf

Well Name: ATLATE 11 10 FED COM	Well Location: T22S / R27E / SEC 11 / NESE / 32.40517 / -104.153025	County or Parish/State: EDDY / NM
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Offline_Cementing___Variance_Request_20240702073706.pdf

Conditions of Approval

Specialist Review

Atlatl_11_10_Fed_Com_333H_Sundry_ID_2798533_20240703083438.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: JUL 02, 2024 07:39 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITYState: 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: 07/03/2024

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM64583
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	8. Well Name and No. ATLATL 11 10 FED COM/333H	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP	9. API Well No.	
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY,	3b. Phone No. (include area code) (405) 235-3611	10. Field and Pool or Exploratory Area ESPERANZA/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 11/T22S/R27E/NMP		11. Country or Parish, State EDDY/NM

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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleate 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.)

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 and connection.
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 Formation: Esperanza Bone Spring and Proposed Formation: Purple Sage Wolfcamp (Gas)

Permitted BHL: NWSW, 2100 FSL, 20 FWL, 10-22S-27E

Proposed BHL: NWSW, 1410 FSL, 20 FWL, 10-22S-27E

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) ARIANNA EVANS / Ph: (405) 552-4514	Title Regulatory
Signature (Electronic Submission)	Date 07/02/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by LONG VO / Ph: (575) 988-5402 / Approved	Title Petroleum Engineer	Date 07/03/2024
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 CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: NESE / 1845 FSL / 404 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.40517 / LONG: -104.153025 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2100 FSL / 1172 FWL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4058956 / LONG: -104.1650301 (TVD: 8861 feet, MD: 12800 feet)

BHL: NWSW / 2100 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 10 / LAT: 32.4058 / LONG: -104.1859 (TVD: 8715 feet, MD: 19228 feet)

CONFIDENTIAL



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.



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
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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 Longitudinal 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



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 %	Operation Limit Torques	
Threads per inch	3.43	Compression Strength	929 x1000 lb	Operating Torque	59,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	53.59 °/100 ft	Yield Torque	70,000 ft-lb
		External Pressure Capacity	4000 psi	Buck-On	
				Minimum	27,000 ft-lb
				Maximum	29,000 ft-lb

Notes

For the latest 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

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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 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	729 x1000 lb	Operating Torque	22,700 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	104 °/100 ft	Yield Torque	25,250 ft-lb
		External Pressure Capacity	12,300 psi		

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 latest 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

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1. Geologic Formations

TVD of target	9382	Pilot hole depth	N/A
MD at TD:	19912	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.

ATLATL 11-10 FED COM 333H

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	19912	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 (ft ³ /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	962	1300	9	3.27	Lead: Class H / C + additives
	3037	9075	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%

ATLATL 11-10 FED COM 333H

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	9075 MD	0	9027 TVD
7 7/8	5 1/2	20	P-110ICY	TXP	0	19912 MD	0	9382 TVD

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /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
	558	4261	13.2	1.44	Tail: Class H / C + additives
Production	117	7075	9	3.27	Lead: Class H / C + additives
	1434	9075	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 Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

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

7. Drilling Conditions

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

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

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

N	H ₂ S is present
Y	H ₂ S 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 pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commence 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

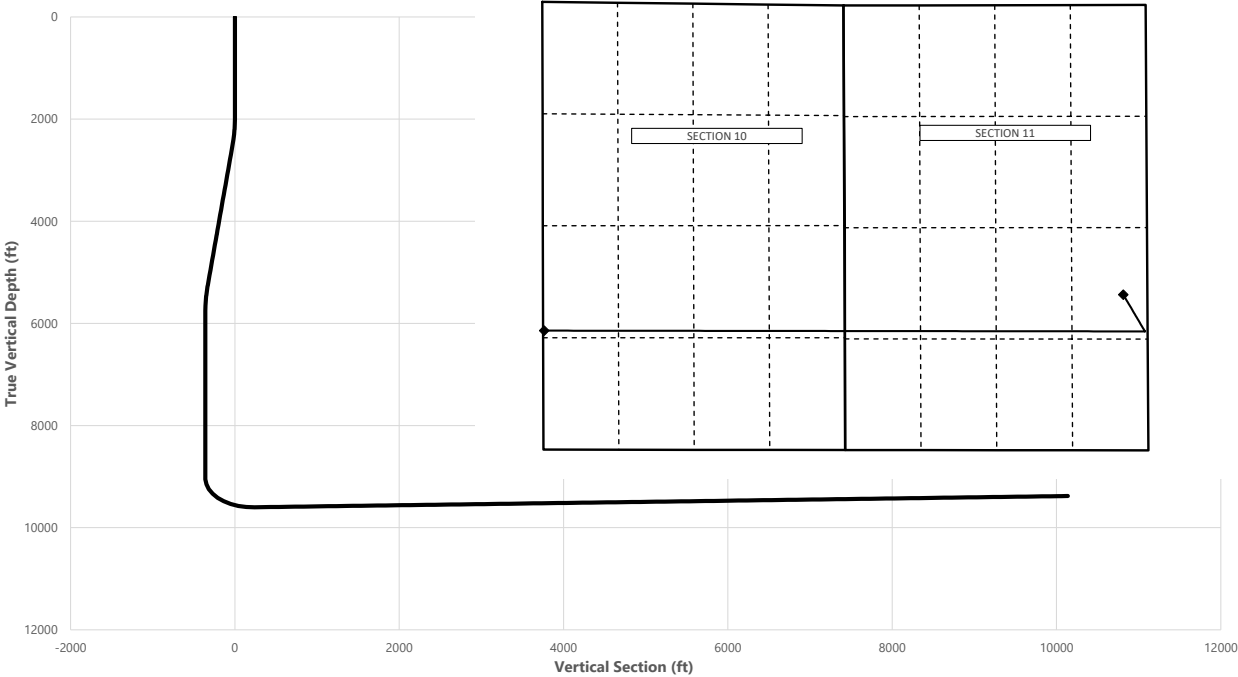
ATL ATL 11-10 FED COM 333H



Well: ATL ATL 11-10 FED COM 333H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	139.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	139.00	2497.47	-32.85	28.55	-27.15	2.00	Hold Tangent
5322.93	10.00	139.00	5277.51	-402.80	350.15	-332.90	0.00	Drop to Vertical
5822.93	0.00	139.00	5774.97	-435.65	378.70	-360.04	2.00	Hold Vertical
9075.14	0.00	270.05	9027.18	-435.65	378.70	-360.04	0.00	KOP
9987.84	91.27	270.05	9600.00	-435.14	-206.95	225.07	10.00	Landing Point
19912.46	91.27	270.05	9380.00	-426.48	-10129.13	10138.10	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	4290.74	4261.00
1st Bone Spring Lime	5511.34	5464.00
Bone Spring 1st	6633.96	6586.00
Bone Spring 2nd	7329.96	7282.00
3rd Bone Spring Lime	7629.96	7582.00
Bone Spring 3rd	8603.96	8556.00
Wolfcamp / Point of Penetration	8998.96	8951.00
exit	19832.46	9381.79

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.4051	-104.1531	1845' FSL, 404' FEL of Sec 11 in T22S, R27E
KOP	9075.14	9027.18	32.4039	-104.1519	1410' FSL, 48' FEL of Sec 11 in T22S, R27E
Point of Penetration	8998.96	8951.00	32.4040	-104.1520	1410' FSL, 100' FEL of Sec 11 in T22S, R27E
Exit	19832.46	9381.79	32.4040	-104.1856	1410' FSL, 100' FWL of Sec 10 in T22S, R27E
BHL	19912.46	9380.00	32.4039	-104.1859	1410' FSL, 20' FWL of Sec 10 in T22S, R27E

	Y	X	MD
KOP	510743.5	597362	9075.14



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Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	139.00	100.00	0.00	0.00	0.00	0.00	
172.00	0.00	139.00	172.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	139.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	139.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	139.00	400.00	0.00	0.00	0.00	0.00	
419.00	0.00	139.00	419.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	139.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	139.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	139.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	139.00	800.00	0.00	0.00	0.00	0.00	
857.00	0.00	139.00	857.00	0.00	0.00	0.00	0.00	Base of Salt
900.00	0.00	139.00	900.00	0.00	0.00	0.00	0.00	
971.00	0.00	139.00	971.00	0.00	0.00	0.00	0.00	Capitan Reef Top
1000.00	0.00	139.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	139.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	139.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	139.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	139.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	139.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	139.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	139.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	139.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	139.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	139.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	139.00	2099.98	-1.32	1.14	-1.09	2.00	
2200.00	4.00	139.00	2199.84	-5.27	4.58	-4.35	2.00	
2207.18	4.14	139.00	2207.00	-5.65	4.91	-4.67	2.00	Delaware
2300.00	6.00	139.00	2299.45	-11.84	10.30	-9.79	2.00	
2400.00	8.00	139.00	2398.70	-21.04	18.29	-17.39	2.00	
2500.00	10.00	139.00	2497.47	-32.85	28.55	-27.15	2.00	Hold Tangent
2600.00	10.00	139.00	2595.95	-45.95	39.95	-37.98	0.00	
2700.00	10.00	139.00	2694.43	-59.06	51.34	-48.81	0.00	
2800.00	10.00	139.00	2792.91	-72.16	62.73	-59.64	0.00	
2900.00	10.00	139.00	2891.39	-85.27	74.12	-70.47	0.00	
3000.00	10.00	139.00	2989.87	-98.37	85.52	-81.30	0.00	
3100.00	10.00	139.00	3088.35	-111.48	96.91	-92.13	0.00	
3200.00	10.00	139.00	3186.83	-124.58	108.30	-102.96	0.00	
3300.00	10.00	139.00	3285.31	-137.69	119.69	-113.79	0.00	
3400.00	10.00	139.00	3383.79	-150.80	131.08	-124.62	0.00	
3500.00	10.00	139.00	3482.27	-163.90	142.48	-135.46	0.00	
3565.73	10.00	139.00	3547.00	-172.51	149.96	-142.57	0.00	Cherry Canyon
3600.00	10.00	139.00	3580.75	-177.01	153.87	-146.29	0.00	
3700.00	10.00	139.00	3679.23	-190.11	165.26	-157.12	0.00	
3800.00	10.00	139.00	3777.72	-203.22	176.65	-167.95	0.00	
3900.00	10.00	139.00	3876.20	-216.32	188.05	-178.78	0.00	
4000.00	10.00	139.00	3974.68	-229.43	199.44	-189.61	0.00	
4100.00	10.00	139.00	4073.16	-242.53	210.83	-200.44	0.00	
4200.00	10.00	139.00	4171.64	-255.64	222.22	-211.27	0.00	
4290.74	10.00	139.00	4261.00	-267.53	232.56	-221.10	0.00	Brushy Canyon
4300.00	10.00	139.00	4270.12	-268.74	233.62	-222.10	0.00	
4400.00	10.00	139.00	4368.60	-281.85	245.01	-232.93	0.00	
4500.00	10.00	139.00	4467.08	-294.95	256.40	-243.77	0.00	
4600.00	10.00	139.00	4565.56	-308.06	267.79	-254.60	0.00	
4700.00	10.00	139.00	4664.04	-321.16	279.19	-265.43	0.00	
4800.00	10.00	139.00	4762.52	-334.27	290.58	-276.26	0.00	
4900.00	10.00	139.00	4861.00	-347.38	301.97	-287.09	0.00	
5000.00	10.00	139.00	4959.48	-360.48	313.36	-297.92	0.00	
5100.00	10.00	139.00	5057.97	-373.59	324.75	-308.75	0.00	
5200.00	10.00	139.00	5156.45	-386.69	336.15	-319.58	0.00	
5300.00	10.00	139.00	5254.93	-399.80	347.54	-330.41	0.00	
5322.93	10.00	139.00	5277.51	-402.80	350.15	-332.90	0.00	Drop to Vertical
5400.00	8.46	139.00	5353.58	-412.13	358.26	-340.61	2.00	
5500.00	6.46	139.00	5452.73	-421.93	366.78	-348.70	2.00	
5511.34	6.23	139.00	5464.00	-422.87	367.60	-349.48	2.00	1st Bone Spring Lime
5600.00	4.46	139.00	5552.27	-429.11	373.02	-354.63	2.00	
5700.00	2.46	139.00	5652.08	-433.66	376.97	-358.40	2.00	
5800.00	0.46	139.00	5752.04	-435.58	378.64	-359.98	2.00	
5822.93	0.00	139.00	5774.97	-435.65	378.70	-360.04	2.00	Hold Vertical
5900.00	0.00	270.05	5852.04	-435.65	378.70	-360.04	0.00	



Well: ATLATL 11-10 FED COM 333H
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Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
6000.00	0.00	270.05	5952.04	-435.65	378.70	-360.04	0.00	
6100.00	0.00	270.05	6052.04	-435.65	378.70	-360.04	0.00	
6200.00	0.00	270.05	6152.04	-435.65	378.70	-360.04	0.00	
6300.00	0.00	270.05	6252.04	-435.65	378.70	-360.04	0.00	
6400.00	0.00	270.05	6352.04	-435.65	378.70	-360.04	0.00	
6500.00	0.00	270.05	6452.04	-435.65	378.70	-360.04	0.00	
6600.00	0.00	270.05	6552.04	-435.65	378.70	-360.04	0.00	
6633.96	0.00	270.05	6586.00	-435.65	378.70	-360.04	0.00	Bone Spring 1st
6700.00	0.00	270.05	6652.04	-435.65	378.70	-360.04	0.00	
6800.00	0.00	270.05	6752.04	-435.65	378.70	-360.04	0.00	
6900.00	0.00	270.05	6852.04	-435.65	378.70	-360.04	0.00	
7000.00	0.00	270.05	6952.04	-435.65	378.70	-360.04	0.00	
7100.00	0.00	270.05	7052.04	-435.65	378.70	-360.04	0.00	
7200.00	0.00	270.05	7152.04	-435.65	378.70	-360.04	0.00	
7300.00	0.00	270.05	7252.04	-435.65	378.70	-360.04	0.00	
7329.96	0.00	270.05	7282.00	-435.65	378.70	-360.04	0.00	Bone Spring 2nd
7400.00	0.00	270.05	7352.04	-435.65	378.70	-360.04	0.00	
7500.00	0.00	270.05	7452.04	-435.65	378.70	-360.04	0.00	
7600.00	0.00	270.05	7552.04	-435.65	378.70	-360.04	0.00	
7629.96	0.00	270.05	7582.00	-435.65	378.70	-360.04	0.00	3rd Bone Spring Lime
7700.00	0.00	270.05	7652.04	-435.65	378.70	-360.04	0.00	
7800.00	0.00	270.05	7752.04	-435.65	378.70	-360.04	0.00	
7900.00	0.00	270.05	7852.04	-435.65	378.70	-360.04	0.00	
8000.00	0.00	270.05	7952.04	-435.65	378.70	-360.04	0.00	
8100.00	0.00	270.05	8052.04	-435.65	378.70	-360.04	0.00	
8200.00	0.00	270.05	8152.04	-435.65	378.70	-360.04	0.00	
8300.00	0.00	270.05	8252.04	-435.65	378.70	-360.04	0.00	
8400.00	0.00	270.05	8352.04	-435.65	378.70	-360.04	0.00	
8500.00	0.00	270.05	8452.04	-435.65	378.70	-360.04	0.00	
8600.00	0.00	270.05	8552.04	-435.65	378.70	-360.04	0.00	
8603.96	0.00	270.05	8556.00	-435.65	378.70	-360.04	0.00	Bone Spring 3rd
8700.00	0.00	270.05	8652.04	-435.65	378.70	-360.04	0.00	
8800.00	0.00	270.05	8752.04	-435.65	378.70	-360.04	0.00	
8900.00	0.00	270.05	8852.04	-435.65	378.70	-360.04	0.00	
8998.96	0.00	270.05	8951.00	-435.65	378.70	-360.04	0.00	Wolfcamp / Point of Penetration
9000.00	0.00	270.05	8952.04	-435.65	378.70	-360.04	0.00	
9075.14	0.00	270.05	9027.18	-435.65	378.70	-360.04	0.00	KOP
9100.00	2.49	270.05	9052.04	-435.65	378.17	-359.50	10.00	
9200.00	12.49	270.05	9151.06	-435.64	365.15	-346.50	10.00	
9300.00	22.49	270.05	9246.32	-435.61	335.14	-316.52	10.00	
9400.00	32.49	270.05	9334.92	-435.57	289.05	-270.47	10.00	
9500.00	42.49	270.05	9414.17	-435.52	228.27	-209.75	10.00	
9600.00	52.49	270.05	9481.66	-435.46	154.65	-136.20	10.00	
9700.00	62.49	270.05	9535.34	-435.38	70.43	-52.05	10.00	
9800.00	72.49	270.05	9573.58	-435.30	-21.83	40.12	10.00	
9900.00	82.49	270.05	9595.22	-435.22	-119.33	137.53	10.00	
9987.84	91.27	270.05	9600.00	-435.14	-206.95	225.07	10.00	Landing Point
10000.00	91.27	270.05	9599.73	-435.13	-219.11	237.22	0.00	
10100.00	91.27	270.05	9597.51	-435.04	-319.09	337.10	0.00	
10200.00	91.27	270.05	9595.30	-434.95	-419.06	436.99	0.00	
10300.00	91.27	270.05	9593.08	-434.87	-519.04	536.87	0.00	
10400.00	91.27	270.05	9590.86	-434.78	-619.01	636.75	0.00	
10500.00	91.27	270.05	9588.65	-434.69	-718.99	736.64	0.00	
10600.00	91.27	270.05	9586.43	-434.61	-818.96	836.52	0.00	
10700.00	91.27	270.05	9584.21	-434.52	-918.94	936.40	0.00	
10800.00	91.27	270.05	9582.00	-434.43	-1018.91	1036.29	0.00	
10900.00	91.27	270.05	9579.78	-434.35	-1118.89	1136.17	0.00	
11000.00	91.27	270.05	9577.56	-434.26	-1218.86	1236.05	0.00	
11100.00	91.27	270.05	9575.35	-434.17	-1318.84	1335.94	0.00	
11200.00	91.27	270.05	9573.13	-434.09	-1418.82	1435.82	0.00	
11300.00	91.27	270.05	9570.91	-434.00	-1518.79	1535.70	0.00	
11400.00	91.27	270.05	9568.70	-433.91	-1618.77	1635.59	0.00	
11500.00	91.27	270.05	9566.48	-433.83	-1718.74	1735.47	0.00	
11600.00	91.27	270.05	9564.27	-433.74	-1818.72	1835.35	0.00	
11700.00	91.27	270.05	9562.05	-433.65	-1918.69	1935.24	0.00	
11800.00	91.27	270.05	9559.83	-433.56	-2018.67	2035.12	0.00	
11900.00	91.27	270.05	9557.62	-433.48	-2118.64	2135.00	0.00	
12000.00	91.27	270.05	9555.40	-433.39	-2218.62	2234.89	0.00	
12100.00	91.27	270.05	9553.18	-433.30	-2318.59	2334.77	0.00	
12200.00	91.27	270.05	9550.97	-433.22	-2418.57	2434.65	0.00	

ATLATL 11-10 FED COM 333H



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MD (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12300.00	91.27	270.05	9548.75	-433.13	-2518.54	2534.54	0.00	
12400.00	91.27	270.05	9546.53	-433.04	-2618.52	2634.42	0.00	
12500.00	91.27	270.05	9544.32	-432.96	-2718.50	2734.30	0.00	
12600.00	91.27	270.05	9542.10	-432.87	-2818.47	2834.19	0.00	
12700.00	91.27	270.05	9539.88	-432.78	-2918.45	2934.07	0.00	
12800.00	91.27	270.05	9537.67	-432.70	-3018.42	3033.95	0.00	
12900.00	91.27	270.05	9535.45	-432.61	-3118.40	3133.84	0.00	
13000.00	91.27	270.05	9533.23	-432.52	-3218.37	3233.72	0.00	
13100.00	91.27	270.05	9531.02	-432.44	-3318.35	3333.60	0.00	
13200.00	91.27	270.05	9528.80	-432.35	-3418.32	3433.48	0.00	
13300.00	91.27	270.05	9526.58	-432.26	-3518.30	3533.37	0.00	
13400.00	91.27	270.05	9524.37	-432.18	-3618.27	3633.25	0.00	
13500.00	91.27	270.05	9522.15	-432.09	-3718.25	3733.13	0.00	
13600.00	91.27	270.05	9519.93	-432.00	-3818.22	3833.02	0.00	
13700.00	91.27	270.05	9517.72	-431.91	-3918.20	3932.90	0.00	
13800.00	91.27	270.05	9515.50	-431.83	-4018.18	4032.78	0.00	
13900.00	91.27	270.05	9513.28	-431.74	-4118.15	4132.67	0.00	
14000.00	91.27	270.05	9511.07	-431.65	-4218.13	4232.55	0.00	
14100.00	91.27	270.05	9508.85	-431.57	-4318.10	4332.43	0.00	
14200.00	91.27	270.05	9506.63	-431.48	-4418.08	4432.32	0.00	
14300.00	91.27	270.05	9504.42	-431.39	-4518.05	4532.20	0.00	
14400.00	91.27	270.05	9502.20	-431.31	-4618.03	4632.08	0.00	
14500.00	91.27	270.05	9499.98	-431.22	-4718.00	4731.97	0.00	
14600.00	91.27	270.05	9497.77	-431.13	-4817.98	4831.85	0.00	
14700.00	91.27	270.05	9495.55	-431.05	-4917.95	4931.73	0.00	
14800.00	91.27	270.05	9493.33	-430.96	-5017.93	5031.62	0.00	
14900.00	91.27	270.05	9491.12	-430.87	-5117.90	5131.50	0.00	
15000.00	91.27	270.05	9488.90	-430.79	-5217.88	5231.38	0.00	
15100.00	91.27	270.05	9486.69	-430.70	-5317.86	5331.27	0.00	
15200.00	91.27	270.05	9484.47	-430.61	-5417.83	5431.15	0.00	
15300.00	91.27	270.05	9482.25	-430.53	-5517.81	5531.03	0.00	
15400.00	91.27	270.05	9480.04	-430.44	-5617.78	5630.92	0.00	
15500.00	91.27	270.05	9477.82	-430.35	-5717.76	5730.80	0.00	
15600.00	91.27	270.05	9475.60	-430.26	-5817.73	5830.68	0.00	
15700.00	91.27	270.05	9473.39	-430.18	-5917.71	5930.57	0.00	
15800.00	91.27	270.05	9471.17	-430.09	-6017.68	6030.45	0.00	
15900.00	91.27	270.05	9468.95	-430.00	-6117.66	6130.33	0.00	
16000.00	91.27	270.05	9466.74	-429.92	-6217.63	6230.22	0.00	
16100.00	91.27	270.05	9464.52	-429.83	-6317.61	6330.10	0.00	
16200.00	91.27	270.05	9462.30	-429.74	-6417.58	6429.98	0.00	
16300.00	91.27	270.05	9460.09	-429.66	-6517.56	6529.87	0.00	
16400.00	91.27	270.05	9457.87	-429.57	-6617.54	6629.75	0.00	
16500.00	91.27	270.05	9455.65	-429.48	-6717.51	6729.63	0.00	
16600.00	91.27	270.05	9453.44	-429.40	-6817.49	6829.52	0.00	
16700.00	91.27	270.05	9451.22	-429.31	-6917.46	6929.40	0.00	
16800.00	91.27	270.05	9449.00	-429.22	-7017.44	7029.28	0.00	
16900.00	91.27	270.05	9446.79	-429.14	-7117.41	7129.16	0.00	
17000.00	91.27	270.05	9444.57	-429.05	-7217.39	7229.05	0.00	
17100.00	91.27	270.05	9442.35	-428.96	-7317.36	7328.93	0.00	
17200.00	91.27	270.05	9440.14	-428.88	-7417.34	7428.81	0.00	
17300.00	91.27	270.05	9437.92	-428.79	-7517.31	7528.70	0.00	
17400.00	91.27	270.05	9435.70	-428.70	-7617.29	7628.58	0.00	
17500.00	91.27	270.05	9433.49	-428.61	-7717.27	7728.46	0.00	
17600.00	91.27	270.05	9431.27	-428.53	-7817.24	7828.35	0.00	
17700.00	91.27	270.05	9429.05	-428.44	-7917.22	7928.23	0.00	
17800.00	91.27	270.05	9426.84	-428.35	-8017.19	8028.11	0.00	
17900.00	91.27	270.05	9424.62	-428.27	-8117.17	8128.00	0.00	
18000.00	91.27	270.05	9422.40	-428.18	-8217.14	8227.88	0.00	
18100.00	91.27	270.05	9420.19	-428.09	-8317.12	8327.76	0.00	
18200.00	91.27	270.05	9417.97	-428.01	-8417.09	8427.65	0.00	
18300.00	91.27	270.05	9415.75	-427.92	-8517.07	8527.53	0.00	
18400.00	91.27	270.05	9413.54	-427.83	-8617.04	8627.41	0.00	
18500.00	91.27	270.05	9411.32	-427.75	-8717.02	8727.30	0.00	
18600.00	91.27	270.05	9409.10	-427.66	-8816.99	8827.18	0.00	
18700.00	91.27	270.05	9406.89	-427.57	-8916.97	8927.06	0.00	
18800.00	91.27	270.05	9404.67	-427.49	-9016.95	9026.95	0.00	
18900.00	91.27	270.05	9402.46	-427.40	-9116.92	9126.83	0.00	
19000.00	91.27	270.05	9400.24	-427.31	-9216.90	9226.71	0.00	
19100.00	91.27	270.05	9398.02	-427.23	-9316.87	9326.60	0.00	
19200.00	91.27	270.05	9395.81	-427.14	-9416.85	9426.48	0.00	



Well: ATLATL 11-10 FED COM 333H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19300.00	91.27	270.05	9393.59	-427.05	-9516.82	9526.36	0.00	
19400.00	91.27	270.05	9391.37	-426.96	-9616.80	9626.25	0.00	
19500.00	91.27	270.05	9389.16	-426.88	-9716.77	9726.13	0.00	
19600.00	91.27	270.05	9386.94	-426.79	-9816.75	9826.01	0.00	
19700.00	91.27	270.05	9384.72	-426.70	-9916.72	9925.90	0.00	
19800.00	91.27	270.05	9382.51	-426.62	-10016.70	10025.78	0.00	
19832.46	91.27	270.05	9381.79	-426.59	-10049.15	10058.20	0.00	exit
19900.00	91.27	270.05	9380.29	-426.53	-10116.67	10125.66	0.00	
19912.46	91.27	270.05	9380.00	-426.48	-10129.13	10138.10	0.00	BHL

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	333H
OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3074.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	11	22-S	27-E		1845	SOUTH	404	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
L	10	22-S	27-E		1410	SOUTH	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 333H
EL: 3074.2'
GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
N:511179.13
E:596983.72
LAT:32.405170
LON:104.153025

KICK OFF POINT
CALLS:
N:510743.5
E: 597762
LAT: 32.40387707
LON: 104.15188191

FIRST TAKE POINT (PPP 1)
1410' FSL 100' FEL SEC. 11
N:510743.89
E:597295.85
LAT:32.403972
LON:104.152016

LAST TAKE POINT
1410' FSL 100' FWL SEC. 10
N:510752.57
E:586934.60
LAT:32.404040
LON:104.185589

BOTTOM OF HOLE
N:510752.65
E:586854.59
LAT:32.404040
LON:104.185848

PPP 2
1410' FSL 2646' FWL SEC. 11
N:510746.02
E:594761.37
LAT:32.403990
LON:104.160228

PPP 3
1410' FSL 1320' FWL SEC. 11
N:510747.12
E:593435.88
LAT:32.403999
LON:104.164523

PPP 4
1410' FSL 0' FEL SEC. 10
N:510748.23
E:592115.81
LAT:32.404007
LON:104.168801

PPP 5
1410' FSL 2644' FEL SEC. 10
N:510750.44
E:589471.96
LAT:32.404024
LON:104.177367

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.

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
PROFESSIONAL SURVEYOR
23261

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

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

Arianna Evans 7/2/24
Signature Date
Printed Name
arianna.evans@dvn.com
E-mail Address

Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: ATLATL 11-10 FED COM	Well Number 333H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	11	22S	27E		1410	SOUTH	48	EAST	EDDY
Latitude 32.40387707					Longitude -104.151881			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	11	22-S	27-E		1410	SOUTH	100	EAST	EDDY
Latitude 32.403972					Longitude 104.152016			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	10	22-S	27-E		1410	SOUTH	100	WEST	EDDY
Latitude 32.404040					Longitude 104.185589			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ YESIs 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

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 / NESE / 32.40517 / -104.153025	County or Parish/State: EDDY / NM
Well Number: 333H	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	

LONG VO

Digitally signed by LONG VO
Date: 2024.07.03 09:33:05 -05'00'

Notice of Intent

Sundry ID: 2798533

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/02/2024

Date proposed operation will begin: 07/02/2024

Type of Action: APD Change

Time Sundry Submitted: 07:47

Procedure Description: 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 and connection. 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 Formation: Esperanza Bone Spring and Proposed Formation: Purple Sage Wolfcamp (Gas) Permitted BHL: NWSW, 2100 FSL, 20 FWL, 10-22S-27E Proposed BHL: NWSW, 1410 FSL, 20 FWL, 10-22S-27E

NOI Attachments

Procedure Description

- 13.375_54.50_J55_20240702074634.pdf
- 10.750_45.50_HCL80_SCC_20240702074615.PDF
- 8.625_0.352_P110_ICY_Wedge_441__02162024_20240702074534.pdf
- 5.500_0.361_P110_ICY_TXP__BTC_01242024_20240702074519.pdf
- ATLATL_11_10_FED_COM_333H_R2_20240702073824.pdf
- ATLATL_11_10_FED_COM_333H_Directional_Plan_06_13_24_20240702073809.pdf
- WA022066495_ATLATL_11_10_FED_COM_333H_WL_R2_UPDATED_20240702073749.pdf

Well Name: ATLATE 11 10 FED COM	Well Location: T22S / R27E / SEC 11 / NESE / 32.40517 / -104.153025	County or Parish/State: EDDY / NM
Well Number: 333H	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_20240702073706.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: JUL 02, 2024 07:39 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:		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

WELL NAME & NO.: BOTTOM HOLE FOOTAGE ATS/API ID: APD ID: Sundry ID: Date APD Submitted:	Atlatl 11 10 Fed Com 333H 1410'S & 20'/W ATS-23-1423 10400092144 2798533
--	--

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 is:

Option 1 (Single Stage):

- 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.**

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' (730 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 200 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** inch intermediate casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.**
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M) psi.**

Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

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) 7/3/2024

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

5. Lease Serial No. NMNM64583

6. If Indian, Allottee or Tribe Name

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

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

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

8. Well Name and No. ATLATL 11 10 FED COM/333H

2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP

9. API Well No.

3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code) (405) 235-3611

10. Field and Pool or Exploratory Area ESPERANZA/BONE SPRING

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 11/T22S/R27E/NMP

11. Country or Parish, State EDDY/NM

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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ 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 recompleate 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.)

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 and connection.
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 Formation: Esperanza Bone Spring and Proposed Formation: Purple Sage Wolfcamp (Gas)

Permitted BHL: NWSW, 2100 FSL, 20 FWL, 10-22S-27E

Proposed BHL: NWSW, 1410 FSL, 20 FWL, 10-22S-27E

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) ARIANNA EVANS / Ph: (405) 552-4514

Title Regulatory

Signature (Electronic Submission)

Date 07/02/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: NESE / 1845 FSL / 404 FEL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.40517 / LONG: -104.153025 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2100 FSL / 1172 FWL / TWSP: 22S / RANGE: 27E / SECTION: 11 / LAT: 32.4058956 / LONG: -104.1650301 (TVD: 8861 feet, MD: 12800 feet)

BHL: NWSW / 2100 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 10 / LAT: 32.4058 / LONG: -104.1859 (TVD: 8715 feet, MD: 19228 feet)

CONFIDENTIAL



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.



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 Longitudinal 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



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 %	Operation Limit Torques	
Threads per inch	3.43	Compression Strength	929 x1000 lb	Operating Torque	59,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	53.59 °/100 ft	Yield Torque	70,000 ft-lb
		External Pressure Capacity	4000 psi	Buck-On	
				Minimum	27,000 ft-lb
				Maximum	29,000 ft-lb

Notes

For the latest 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

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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 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	729 x1000 lb	Operating Torque	22,700 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	104 °/100 ft	Yield Torque	25,250 ft-lb
		External Pressure Capacity	12,300 psi		

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 latest 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

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1. Geologic Formations

TVD of target	9382	Pilot hole depth	N/A
MD at TD:	19912	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.

ATLATL 11-10 FED COM 333H

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	19912	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 (ft ³ /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	962	1300	9	3.27	Lead: Class H / C + additives
	3037	9075	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%

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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	9075 MD	0	9027 TVD
7 7/8	5 1/2	20	P-110ICY	TXP	0	19912 MD	0	9382 TVD

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /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
	558	4261	13.2	1.44	Tail: Class H / C + additives
Production	117	7075	9	3.27	Lead: Class H / C + additives
	1434	9075	13.2	1.44	Tail: Class H / C + additives

Squeeze 200 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 Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

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

7. Drilling Conditions

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

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S 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 pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commence 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

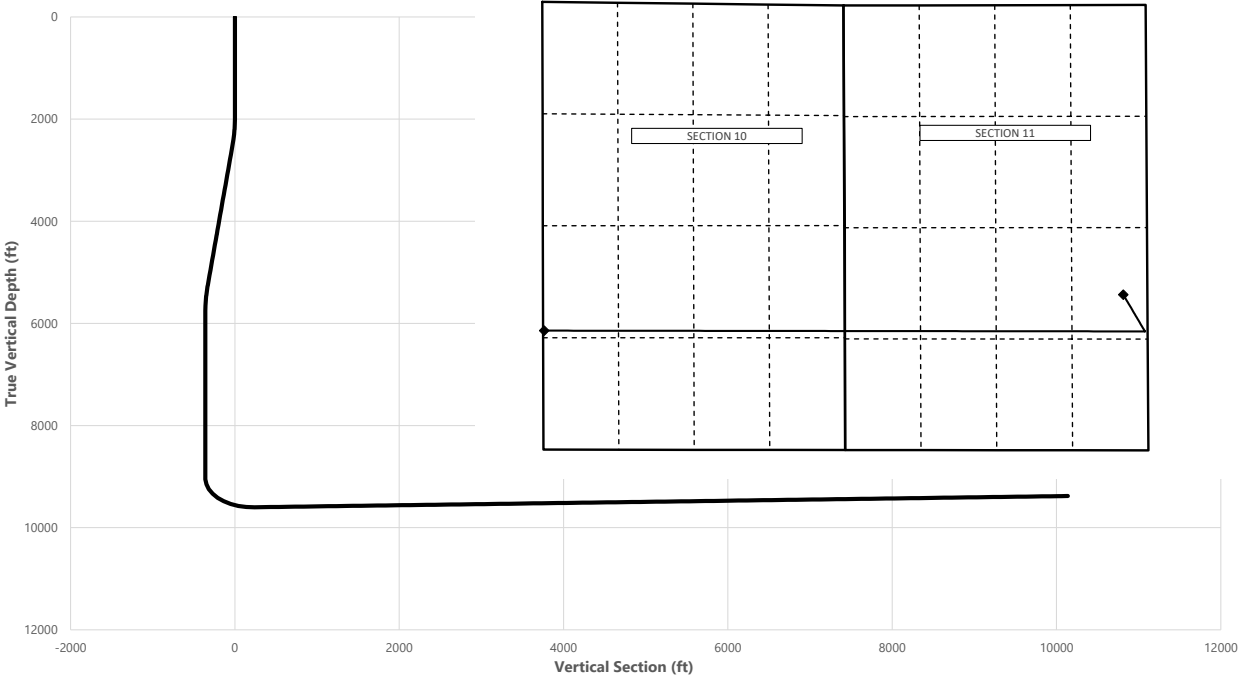
ATL ATL 11-10 FED COM 333H



Well: ATL ATL 11-10 FED COM 333H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	139.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	139.00	2497.47	-32.85	28.55	-27.15	2.00	Hold Tangent
5322.93	10.00	139.00	5277.51	-402.80	350.15	-332.90	0.00	Drop to Vertical
5822.93	0.00	139.00	5774.97	-435.65	378.70	-360.04	2.00	Hold Vertical
9075.14	0.00	270.05	9027.18	-435.65	378.70	-360.04	0.00	KOP
9987.84	91.27	270.05	9600.00	-435.14	-206.95	225.07	10.00	Landing Point
19912.46	91.27	270.05	9380.00	-426.48	-10129.13	10138.10	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	4290.74	4261.00
1st Bone Spring Lime	5511.34	5464.00
Bone Spring 1st	6633.96	6586.00
Bone Spring 2nd	7329.96	7282.00
3rd Bone Spring Lime	7629.96	7582.00
Bone Spring 3rd	8603.96	8556.00
Wolfcamp / Point of Penetration	8998.96	8951.00
exit	19832.46	9381.79

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.4051	-104.1531	1845' FSL, 404' FEL of Sec 11 in T22S, R27E
KOP	9075.14	9027.18	32.4039	-104.1519	1410' FSL, 48' FEL of Sec 11 in T22S, R27E
Point of Penetration	8998.96	8951.00	32.4040	-104.1520	1410' FSL, 100' FEL of Sec 11 in T22S, R27E
Exit	19832.46	9381.79	32.4040	-104.1856	1410' FSL, 100' FWL of Sec 10 in T22S, R27E
BHL	19912.46	9380.00	32.4039	-104.1859	1410' FSL, 20' FWL of Sec 10 in T22S, R27E

	Y	X	MD
KOP	510743.5	597362	9075.14

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 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	139.00	100.00	0.00	0.00	0.00	0.00	
172.00	0.00	139.00	172.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	139.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	139.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	139.00	400.00	0.00	0.00	0.00	0.00	
419.00	0.00	139.00	419.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	139.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	139.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	139.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	139.00	800.00	0.00	0.00	0.00	0.00	
857.00	0.00	139.00	857.00	0.00	0.00	0.00	0.00	Base of Salt
900.00	0.00	139.00	900.00	0.00	0.00	0.00	0.00	
971.00	0.00	139.00	971.00	0.00	0.00	0.00	0.00	Capitan Reef Top
1000.00	0.00	139.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	139.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	139.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	139.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	139.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	139.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	139.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	139.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	139.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	139.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	139.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	139.00	2099.98	-1.32	1.14	-1.09	2.00	
2200.00	4.00	139.00	2199.84	-5.27	4.58	-4.35	2.00	
2207.18	4.14	139.00	2207.00	-5.65	4.91	-4.67	2.00	Delaware
2300.00	6.00	139.00	2299.45	-11.84	10.30	-9.79	2.00	
2400.00	8.00	139.00	2398.70	-21.04	18.29	-17.39	2.00	
2500.00	10.00	139.00	2497.47	-32.85	28.55	-27.15	2.00	Hold Tangent
2600.00	10.00	139.00	2595.95	-45.95	39.95	-37.98	0.00	
2700.00	10.00	139.00	2694.43	-59.06	51.34	-48.81	0.00	
2800.00	10.00	139.00	2792.91	-72.16	62.73	-59.64	0.00	
2900.00	10.00	139.00	2891.39	-85.27	74.12	-70.47	0.00	
3000.00	10.00	139.00	2989.87	-98.37	85.52	-81.30	0.00	
3100.00	10.00	139.00	3088.35	-111.48	96.91	-92.13	0.00	
3200.00	10.00	139.00	3186.83	-124.58	108.30	-102.96	0.00	
3300.00	10.00	139.00	3285.31	-137.69	119.69	-113.79	0.00	
3400.00	10.00	139.00	3383.79	-150.80	131.08	-124.62	0.00	
3500.00	10.00	139.00	3482.27	-163.90	142.48	-135.46	0.00	
3565.73	10.00	139.00	3547.00	-172.51	149.96	-142.57	0.00	Cherry Canyon
3600.00	10.00	139.00	3580.75	-177.01	153.87	-146.29	0.00	
3700.00	10.00	139.00	3679.23	-190.11	165.26	-157.12	0.00	
3800.00	10.00	139.00	3777.72	-203.22	176.65	-167.95	0.00	
3900.00	10.00	139.00	3876.20	-216.32	188.05	-178.78	0.00	
4000.00	10.00	139.00	3974.68	-229.43	199.44	-189.61	0.00	
4100.00	10.00	139.00	4073.16	-242.53	210.83	-200.44	0.00	
4200.00	10.00	139.00	4171.64	-255.64	222.22	-211.27	0.00	
4290.74	10.00	139.00	4261.00	-267.53	232.56	-221.10	0.00	Brushy Canyon
4300.00	10.00	139.00	4270.12	-268.74	233.62	-222.10	0.00	
4400.00	10.00	139.00	4368.60	-281.85	245.01	-232.93	0.00	
4500.00	10.00	139.00	4467.08	-294.95	256.40	-243.77	0.00	
4600.00	10.00	139.00	4565.56	-308.06	267.79	-254.60	0.00	
4700.00	10.00	139.00	4664.04	-321.16	279.19	-265.43	0.00	
4800.00	10.00	139.00	4762.52	-334.27	290.58	-276.26	0.00	
4900.00	10.00	139.00	4861.00	-347.38	301.97	-287.09	0.00	
5000.00	10.00	139.00	4959.48	-360.48	313.36	-297.92	0.00	
5100.00	10.00	139.00	5057.97	-373.59	324.75	-308.75	0.00	
5200.00	10.00	139.00	5156.45	-386.69	336.15	-319.58	0.00	
5300.00	10.00	139.00	5254.93	-399.80	347.54	-330.41	0.00	
5322.93	10.00	139.00	5277.51	-402.80	350.15	-332.90	0.00	Drop to Vertical
5400.00	8.46	139.00	5353.58	-412.13	358.26	-340.61	2.00	
5500.00	6.46	139.00	5452.73	-421.93	366.78	-348.70	2.00	
5511.34	6.23	139.00	5464.00	-422.87	367.60	-349.48	2.00	1st Bone Spring Lime
5600.00	4.46	139.00	5552.27	-429.11	373.02	-354.63	2.00	
5700.00	2.46	139.00	5652.08	-433.66	376.97	-358.40	2.00	
5800.00	0.46	139.00	5752.04	-435.58	378.64	-359.98	2.00	
5822.93	0.00	139.00	5774.97	-435.65	378.70	-360.04	2.00	Hold Vertical
5900.00	0.00	270.05	5852.04	-435.65	378.70	-360.04	0.00	

ATLATL 11-10 FED COM 333H



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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	270.05	5952.04	-435.65	378.70	-360.04	0.00	
6100.00	0.00	270.05	6052.04	-435.65	378.70	-360.04	0.00	
6200.00	0.00	270.05	6152.04	-435.65	378.70	-360.04	0.00	
6300.00	0.00	270.05	6252.04	-435.65	378.70	-360.04	0.00	
6400.00	0.00	270.05	6352.04	-435.65	378.70	-360.04	0.00	
6500.00	0.00	270.05	6452.04	-435.65	378.70	-360.04	0.00	
6600.00	0.00	270.05	6552.04	-435.65	378.70	-360.04	0.00	
6633.96	0.00	270.05	6586.00	-435.65	378.70	-360.04	0.00	Bone Spring 1st
6700.00	0.00	270.05	6652.04	-435.65	378.70	-360.04	0.00	
6800.00	0.00	270.05	6752.04	-435.65	378.70	-360.04	0.00	
6900.00	0.00	270.05	6852.04	-435.65	378.70	-360.04	0.00	
7000.00	0.00	270.05	6952.04	-435.65	378.70	-360.04	0.00	
7100.00	0.00	270.05	7052.04	-435.65	378.70	-360.04	0.00	
7200.00	0.00	270.05	7152.04	-435.65	378.70	-360.04	0.00	
7300.00	0.00	270.05	7252.04	-435.65	378.70	-360.04	0.00	
7329.96	0.00	270.05	7282.00	-435.65	378.70	-360.04	0.00	Bone Spring 2nd
7400.00	0.00	270.05	7352.04	-435.65	378.70	-360.04	0.00	
7500.00	0.00	270.05	7452.04	-435.65	378.70	-360.04	0.00	
7600.00	0.00	270.05	7552.04	-435.65	378.70	-360.04	0.00	
7629.96	0.00	270.05	7582.00	-435.65	378.70	-360.04	0.00	3rd Bone Spring Lime
7700.00	0.00	270.05	7652.04	-435.65	378.70	-360.04	0.00	
7800.00	0.00	270.05	7752.04	-435.65	378.70	-360.04	0.00	
7900.00	0.00	270.05	7852.04	-435.65	378.70	-360.04	0.00	
8000.00	0.00	270.05	7952.04	-435.65	378.70	-360.04	0.00	
8100.00	0.00	270.05	8052.04	-435.65	378.70	-360.04	0.00	
8200.00	0.00	270.05	8152.04	-435.65	378.70	-360.04	0.00	
8300.00	0.00	270.05	8252.04	-435.65	378.70	-360.04	0.00	
8400.00	0.00	270.05	8352.04	-435.65	378.70	-360.04	0.00	
8500.00	0.00	270.05	8452.04	-435.65	378.70	-360.04	0.00	
8600.00	0.00	270.05	8552.04	-435.65	378.70	-360.04	0.00	
8603.96	0.00	270.05	8556.00	-435.65	378.70	-360.04	0.00	Bone Spring 3rd
8700.00	0.00	270.05	8652.04	-435.65	378.70	-360.04	0.00	
8800.00	0.00	270.05	8752.04	-435.65	378.70	-360.04	0.00	
8900.00	0.00	270.05	8852.04	-435.65	378.70	-360.04	0.00	
8998.96	0.00	270.05	8951.00	-435.65	378.70	-360.04	0.00	Wolfcamp / Point of Penetration
9000.00	0.00	270.05	8952.04	-435.65	378.70	-360.04	0.00	
9075.14	0.00	270.05	9027.18	-435.65	378.70	-360.04	0.00	KOP
9100.00	2.49	270.05	9052.04	-435.65	378.17	-359.50	10.00	
9200.00	12.49	270.05	9151.06	-435.64	365.15	-346.50	10.00	
9300.00	22.49	270.05	9246.32	-435.61	335.14	-316.52	10.00	
9400.00	32.49	270.05	9334.92	-435.57	289.05	-270.47	10.00	
9500.00	42.49	270.05	9414.17	-435.52	228.27	-209.75	10.00	
9600.00	52.49	270.05	9481.66	-435.46	154.65	-136.20	10.00	
9700.00	62.49	270.05	9535.34	-435.38	70.43	-52.05	10.00	
9800.00	72.49	270.05	9573.58	-435.30	-21.83	40.12	10.00	
9900.00	82.49	270.05	9595.22	-435.22	-119.33	137.53	10.00	
9987.84	91.27	270.05	9600.00	-435.14	-206.95	225.07	10.00	Landing Point
10000.00	91.27	270.05	9599.73	-435.13	-219.11	237.22	0.00	
10100.00	91.27	270.05	9597.51	-435.04	-319.09	337.10	0.00	
10200.00	91.27	270.05	9595.30	-434.95	-419.06	436.99	0.00	
10300.00	91.27	270.05	9593.08	-434.87	-519.04	536.87	0.00	
10400.00	91.27	270.05	9590.86	-434.78	-619.01	636.75	0.00	
10500.00	91.27	270.05	9588.65	-434.69	-718.99	736.64	0.00	
10600.00	91.27	270.05	9586.43	-434.61	-818.96	836.52	0.00	
10700.00	91.27	270.05	9584.21	-434.52	-918.94	936.40	0.00	
10800.00	91.27	270.05	9582.00	-434.43	-1018.91	1036.29	0.00	
10900.00	91.27	270.05	9579.78	-434.35	-1118.89	1136.17	0.00	
11000.00	91.27	270.05	9577.56	-434.26	-1218.86	1236.05	0.00	
11100.00	91.27	270.05	9575.35	-434.17	-1318.84	1335.94	0.00	
11200.00	91.27	270.05	9573.13	-434.09	-1418.82	1435.82	0.00	
11300.00	91.27	270.05	9570.91	-434.00	-1518.79	1535.70	0.00	
11400.00	91.27	270.05	9568.70	-433.91	-1618.77	1635.59	0.00	
11500.00	91.27	270.05	9566.48	-433.83	-1718.74	1735.47	0.00	
11600.00	91.27	270.05	9564.27	-433.74	-1818.72	1835.35	0.00	
11700.00	91.27	270.05	9562.05	-433.65	-1918.69	1935.24	0.00	
11800.00	91.27	270.05	9559.83	-433.56	-2018.67	2035.12	0.00	
11900.00	91.27	270.05	9557.62	-433.48	-2118.64	2135.00	0.00	
12000.00	91.27	270.05	9555.40	-433.39	-2218.62	2234.89	0.00	
12100.00	91.27	270.05	9553.18	-433.30	-2318.59	2334.77	0.00	
12200.00	91.27	270.05	9550.97	-433.22	-2418.57	2434.65	0.00	

ATLATL 11-10 FED COM 333H



Well: ATLATL 11-10 FED COM 333H
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	270.05	9548.75	-433.13	-2518.54	2534.54	0.00	
12400.00	91.27	270.05	9546.53	-433.04	-2618.52	2634.42	0.00	
12500.00	91.27	270.05	9544.32	-432.96	-2718.50	2734.30	0.00	
12600.00	91.27	270.05	9542.10	-432.87	-2818.47	2834.19	0.00	
12700.00	91.27	270.05	9539.88	-432.78	-2918.45	2934.07	0.00	
12800.00	91.27	270.05	9537.67	-432.70	-3018.42	3033.95	0.00	
12900.00	91.27	270.05	9535.45	-432.61	-3118.40	3133.84	0.00	
13000.00	91.27	270.05	9533.23	-432.52	-3218.37	3233.72	0.00	
13100.00	91.27	270.05	9531.02	-432.44	-3318.35	3333.60	0.00	
13200.00	91.27	270.05	9528.80	-432.35	-3418.32	3433.48	0.00	
13300.00	91.27	270.05	9526.58	-432.26	-3518.30	3533.37	0.00	
13400.00	91.27	270.05	9524.37	-432.18	-3618.27	3633.25	0.00	
13500.00	91.27	270.05	9522.15	-432.09	-3718.25	3733.13	0.00	
13600.00	91.27	270.05	9519.93	-432.00	-3818.22	3833.02	0.00	
13700.00	91.27	270.05	9517.72	-431.91	-3918.20	3932.90	0.00	
13800.00	91.27	270.05	9515.50	-431.83	-4018.18	4032.78	0.00	
13900.00	91.27	270.05	9513.28	-431.74	-4118.15	4132.67	0.00	
14000.00	91.27	270.05	9511.07	-431.65	-4218.13	4232.55	0.00	
14100.00	91.27	270.05	9508.85	-431.57	-4318.10	4332.43	0.00	
14200.00	91.27	270.05	9506.63	-431.48	-4418.08	4432.32	0.00	
14300.00	91.27	270.05	9504.42	-431.39	-4518.05	4532.20	0.00	
14400.00	91.27	270.05	9502.20	-431.31	-4618.03	4632.08	0.00	
14500.00	91.27	270.05	9499.98	-431.22	-4718.00	4731.97	0.00	
14600.00	91.27	270.05	9497.77	-431.13	-4817.98	4831.85	0.00	
14700.00	91.27	270.05	9495.55	-431.05	-4917.95	4931.73	0.00	
14800.00	91.27	270.05	9493.33	-430.96	-5017.93	5031.62	0.00	
14900.00	91.27	270.05	9491.12	-430.87	-5117.90	5131.50	0.00	
15000.00	91.27	270.05	9488.90	-430.79	-5217.88	5231.38	0.00	
15100.00	91.27	270.05	9486.69	-430.70	-5317.86	5331.27	0.00	
15200.00	91.27	270.05	9484.47	-430.61	-5417.83	5431.15	0.00	
15300.00	91.27	270.05	9482.25	-430.53	-5517.81	5531.03	0.00	
15400.00	91.27	270.05	9480.04	-430.44	-5617.78	5630.92	0.00	
15500.00	91.27	270.05	9477.82	-430.35	-5717.76	5730.80	0.00	
15600.00	91.27	270.05	9475.60	-430.26	-5817.73	5830.68	0.00	
15700.00	91.27	270.05	9473.39	-430.18	-5917.71	5930.57	0.00	
15800.00	91.27	270.05	9471.17	-430.09	-6017.68	6030.45	0.00	
15900.00	91.27	270.05	9468.95	-430.00	-6117.66	6130.33	0.00	
16000.00	91.27	270.05	9466.74	-429.92	-6217.63	6230.22	0.00	
16100.00	91.27	270.05	9464.52	-429.83	-6317.61	6330.10	0.00	
16200.00	91.27	270.05	9462.30	-429.74	-6417.58	6429.98	0.00	
16300.00	91.27	270.05	9460.09	-429.66	-6517.56	6529.87	0.00	
16400.00	91.27	270.05	9457.87	-429.57	-6617.54	6629.75	0.00	
16500.00	91.27	270.05	9455.65	-429.48	-6717.51	6729.63	0.00	
16600.00	91.27	270.05	9453.44	-429.40	-6817.49	6829.52	0.00	
16700.00	91.27	270.05	9451.22	-429.31	-6917.46	6929.40	0.00	
16800.00	91.27	270.05	9449.00	-429.22	-7017.44	7029.28	0.00	
16900.00	91.27	270.05	9446.79	-429.14	-7117.41	7129.16	0.00	
17000.00	91.27	270.05	9444.57	-429.05	-7217.39	7229.05	0.00	
17100.00	91.27	270.05	9442.35	-428.96	-7317.36	7328.93	0.00	
17200.00	91.27	270.05	9440.14	-428.88	-7417.34	7428.81	0.00	
17300.00	91.27	270.05	9437.92	-428.79	-7517.31	7528.70	0.00	
17400.00	91.27	270.05	9435.70	-428.70	-7617.29	7628.58	0.00	
17500.00	91.27	270.05	9433.49	-428.61	-7717.27	7728.46	0.00	
17600.00	91.27	270.05	9431.27	-428.53	-7817.24	7828.35	0.00	
17700.00	91.27	270.05	9429.05	-428.44	-7917.22	7928.23	0.00	
17800.00	91.27	270.05	9426.84	-428.35	-8017.19	8028.11	0.00	
17900.00	91.27	270.05	9424.62	-428.27	-8117.17	8128.00	0.00	
18000.00	91.27	270.05	9422.40	-428.18	-8217.14	8227.88	0.00	
18100.00	91.27	270.05	9420.19	-428.09	-8317.12	8327.76	0.00	
18200.00	91.27	270.05	9417.97	-428.01	-8417.09	8427.65	0.00	
18300.00	91.27	270.05	9415.75	-427.92	-8517.07	8527.53	0.00	
18400.00	91.27	270.05	9413.54	-427.83	-8617.04	8627.41	0.00	
18500.00	91.27	270.05	9411.32	-427.75	-8717.02	8727.30	0.00	
18600.00	91.27	270.05	9409.10	-427.66	-8816.99	8827.18	0.00	
18700.00	91.27	270.05	9406.89	-427.57	-8916.97	8927.06	0.00	
18800.00	91.27	270.05	9404.67	-427.49	-9016.95	9026.95	0.00	
18900.00	91.27	270.05	9402.46	-427.40	-9116.92	9126.83	0.00	
19000.00	91.27	270.05	9400.24	-427.31	-9216.90	9226.71	0.00	
19100.00	91.27	270.05	9398.02	-427.23	-9316.87	9326.60	0.00	
19200.00	91.27	270.05	9395.81	-427.14	-9416.85	9426.48	0.00	



Well: ATLATL 11-10 FED COM 333H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19300.00	91.27	270.05	9393.59	-427.05	-9516.82	9526.36	0.00	
19400.00	91.27	270.05	9391.37	-426.96	-9616.80	9626.25	0.00	
19500.00	91.27	270.05	9389.16	-426.88	-9716.77	9726.13	0.00	
19600.00	91.27	270.05	9386.94	-426.79	-9816.75	9826.01	0.00	
19700.00	91.27	270.05	9384.72	-426.70	-9916.72	9925.90	0.00	
19800.00	91.27	270.05	9382.51	-426.62	-10016.70	10025.78	0.00	
19832.46	91.27	270.05	9381.79	-426.59	-10049.15	10058.20	0.00	exit
19900.00	91.27	270.05	9380.29	-426.53	-10116.67	10125.66	0.00	
19912.46	91.27	270.05	9380.00	-426.48	-10129.13	10138.10	0.00	BHL

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	333H
OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3074.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	11	22-S	27-E		1845	SOUTH	404	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
L	10	22-S	27-E		1410	SOUTH	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 333H
EL: 3074.2'
GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
N:511179.13
E:596983.72
LAT:32.405170
LON:104.153025

KICK OFF POINT
CALLS:
N: 510743.5
E: 597762
LAT: 32.40387707
LON: 104.15188191

FIRST TAKE POINT (PPP 1)
1410' FSL 100' FEL SEC. 11
N:510743.89
E:597295.85
LAT:32.403972
LON:104.152016

LAST TAKE POINT
1410' FSL 100' FWL SEC. 10
N:510752.57
E:586934.60
LAT:32.404040
LON:104.185589

BOTTOM OF HOLE
N:510752.65
E:586854.59
LAT:32.404040
LON:104.185848

PPP 2
1410' FSL 2646' FWL SEC. 11
N:510746.02
E:594761.37
LAT:32.403990
LON:104.160228

PPP 3
1410' FSL 1320' FWL SEC. 11
N:510747.12
E:593435.88
LAT:32.403999
LON:104.164523

PPP 4
1410' FSL 0' FEL SEC. 10
N:510748.23
E:592115.81
LAT:32.404007
LON:104.168801

PPP 5
1410' FSL 2644' FEL SEC. 10
N:510750.44
E:589471.96
LAT:32.404024
LON:104.177367

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.

Signature Arianna Evans Date 7/2/24

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
PROFESSIONAL SURVEYOR
23261

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

Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: ATLATL 11-10 FED COM	Well Number 333H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	11	22S	27E		1410	SOUTH	48	EAST	EDDY
Latitude 32.40387707					Longitude -104.151881			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	11	22-S	27-E		1410	SOUTH	100	EAST	EDDY
Latitude 32.403972					Longitude 104.152016			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	10	22-S	27-E		1410	SOUTH	100	WEST	EDDY
Latitude 32.404040					Longitude 104.185589			NAD 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

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.

11-22-27-I Sundry ID 2798533 ATL ATL 11 10 Fed Com 333H Alt

ATL ATL 11 10 Fed Com 333H

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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd						Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE						Hole-Cplg
17 1/2	0.6946	183	264	243	8	9.00	749	2M						1.56
Site plot (pipe racks 3 or 4) as per O.D. 1.31 (D. 4), 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	1.06	2,300	4	1.77	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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.1882	236	587	450	30	10.50	2938	3M				0.50
D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :												
Class 'C' tail cmt yld > 1.35								236	587			30

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	3.22	0.81	1.79	9,075	2	3.01	1.36	290,400	
"B"								0				0	
"C"								0				0	
"D"								0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,986								Totals:	9,075				290,400
		The cement volume(s) are intended to achieve a top of				0	ft from surface or a		2300			overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg	
9 7/8	0.1261	730	1366	1163	17	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:		125	18				930	2020				74	
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	19,912	3	4.70	3.96	398,240
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,064								Totals:	19,912	398,240		
The cement volume(s) are intended to achieve a top of								8875	ft from surface or a	200	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist			
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg			
7 7/8	0.1733	1551	2448	1913	28	10.50			0.89			
Class 'H' tail cmt yld > 1.20												
Capitan Reef est top XXXX.												

11-22-27-I Sundry ID 2798533 ATLTL 11 10 Fed Com 333H

ATLTL 11 10 Fed Com 333H

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	Annular	1 Stage		1 Stage		Min	1 Stage	Drilling	Calc				Min Dist	
Size	Volume	Cmt Sx		CuFt Cmt		Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg	
17 1/2	0.6946	183		264		243	8	9.00	749	2M			1.56	
Site plot (pipe racks 3 or 4) as per O.D. 1.10.D.3.1 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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.1882	236	587	450	30	10.50	3053	5M				0.50
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :									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	2.44	2.81	9,075	3	4.70	4.10	181,500	
"B"	20.00		p 110	txp	118.73	2.36	2.81	10,837	3	4.70	3.96	216,740	
"C"								0				0	
"D"				0				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,997								Totals:	19,912	398,240			
The cement volume(s) are intended to achieve a top of								2100	ft from surface or a		200	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist				
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg				
9 7/8	0.3669	3999	7519	6536	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.											

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

CONDITIONS

Action 380112

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 380112
	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.	11/19/2024