

Well Name: EXOTIC CAT 5-17 FED COM	Well Location: T23S / R32E / SEC 5 / LOT 4 / 32.338945 / -103.7036476	County or Parish/State: LEA / NM
Well Number: 302H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM63994	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002553636	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2825221

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/04/2024	Time Sundry Submitted: 10:13
Date proposed operation will begin: 12/02/2024	

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the SHL and BHL with minor changes to the cement plan. Please see attached revised C102, Drill plan, directional plan.. Permitted SHL: LOT 4, 665 FNL, 505 FWL, 5-23S-32E Proposed SHL: LOT 4, 715 FNL, 744 FWL, 5-23S-32E Permitted BHL: SWSW, 20 FSL, 2150 FWL, 17-23S-32E Proposed BHL: SESW, 20 FSL, 2440 FWL, 17-23S-32E

NOI Attachments

Procedure Description

- WA022393088_EXOTIC_CAT_5_17_FED_COM_302H_WL_R1_SHL_change_20241219103548.pdf
- 302_SITE_MAP_20241204221248.pdf
- EXOTIC_CAT_5_17_FED_COM_302H_Directional_Plan_10_30_24_20241204221035.pdf
- EXOTIC_CAT_5_17_FED_COM_302H_20241204221032.pdf

Received by OCD: 12/26/2024 7:56:12 PM

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Well Location: T23S / R32E / SEC 5 / LOT 4 / 32.338945 / -103.7036476

County or Parish/State: LEA / NM

Well Number: 302H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM63994

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553636

Operator: DEVON ENERGY PRODUCTION COMPANY LP

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: CHELSEY GREEN

Signed on: DEC 19, 2024 10:36 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITYState: OK

Phone: (405) 228-8595

Email address: CHELSEY.GREEN@DVN.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 12/20/2024

Signature: Chris Walls

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.
		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.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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.)

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: LOT 4 / 665 FNL / 505 FWL / TWSP: 23S / RANGE: 32E / SECTION: 5 / LAT: 32.338945 / LONG: -103.7036476 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 160 FNL / 2141 FWL / TWSP: 23S / RANGE: 32E / SECTION: 8 / LAT: 32.3258757 / LONG: -103.698306 (TVD: 11760 feet, MD: 11883 feet)

PPP: LOT 3 / 100 FNL / 2150 FWL / TWSP: 23S / RANGE: 32E / SECTION: 5 / LAT: 32.3405153 / LONG: -103.6983287 (TVD: 11760 feet, MD: 11883 feet)

PPP: NESW / 2520 FSL / 2143 FWL / TWSP: 23S / RANGE: 32E / SECTION: 8 / LAT: 32.318729 / LONG: -103.6982927 (TVD: 11760 feet, MD: 11883 feet)

BHL: SESW / 20 FSL / 2150 FWL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.2973388 / LONG: -103.698253 (TVD: 12045 feet, MD: 22340 feet)

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number 30-025-53636	Pool Code 53800	Pool Name SAND DUNES;BONE SPRING
Property Code 332766	Property Name EXOTIC CAT 5 17 FED COM	Well Number 302H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Ground Level Elevation 3534.0'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section 5	Township 23 S	Range 32 E	Lot 4	Ft. from N/S 715 NORTH	Ft. from E/W 744 WEST	Latitude 32.3388102°N	Longitude 103.7028735°W	County LEA
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Bottom Hole Location

UL N	Section 17	Township 23 S	Range 32 E	Lot	Ft. from N/S 20 SOUTH	Ft. from E/W 2440 WEST	Latitude 32.2973411°N	Longitude 103.6973147°W	County LEA
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Dedicated Acres 319.52	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers. Pending NSL			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section 5	Township 23S	Range 32E	Lot 3	Ft. from N/S 49 FNL	Ft. from E/W 2439 FWL	Latitude 32.3406	Longitude 103.6975	County LEA
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First Take Point (FTP)

UL	Section 5	Township 23 S	Range 32 E	Lot 3	Ft. from N/S 100 NORTH	Ft. from E/W 2440 WEST	Latitude 32.3405184°N	Longitude 103.6973899°W	County LEA
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Last Take Point (LTP)

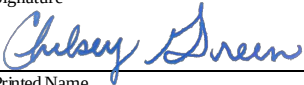
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS

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

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

Signature 	Date 10/02/2024
Printed Name Chelsey Green	
Email Address chelsey.green@dvn.com	

SURVEYOR CERTIFICATIONS

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

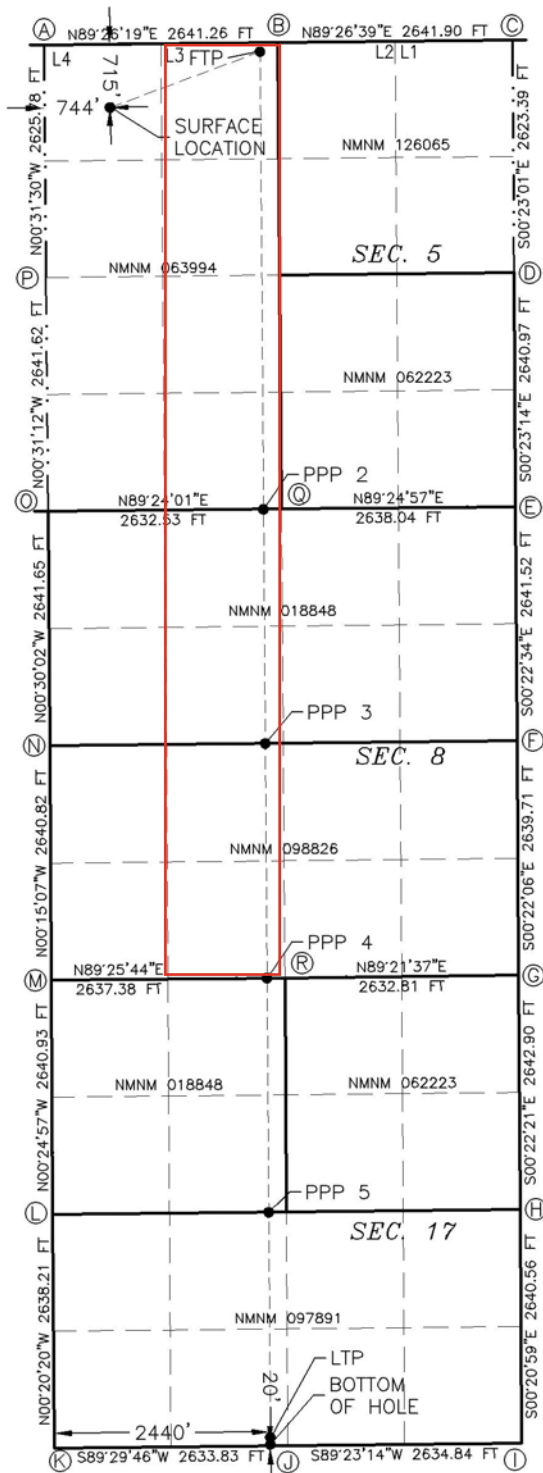


Signature and Seal of Professional Surveyor FILIMON F. JARAMILLO	
Certificate Number PLS 12797	Date of Survey SEPTEMBER 19, 2024
SURVEY NO. 9891A	

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

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

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



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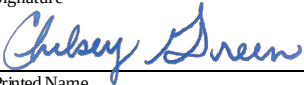
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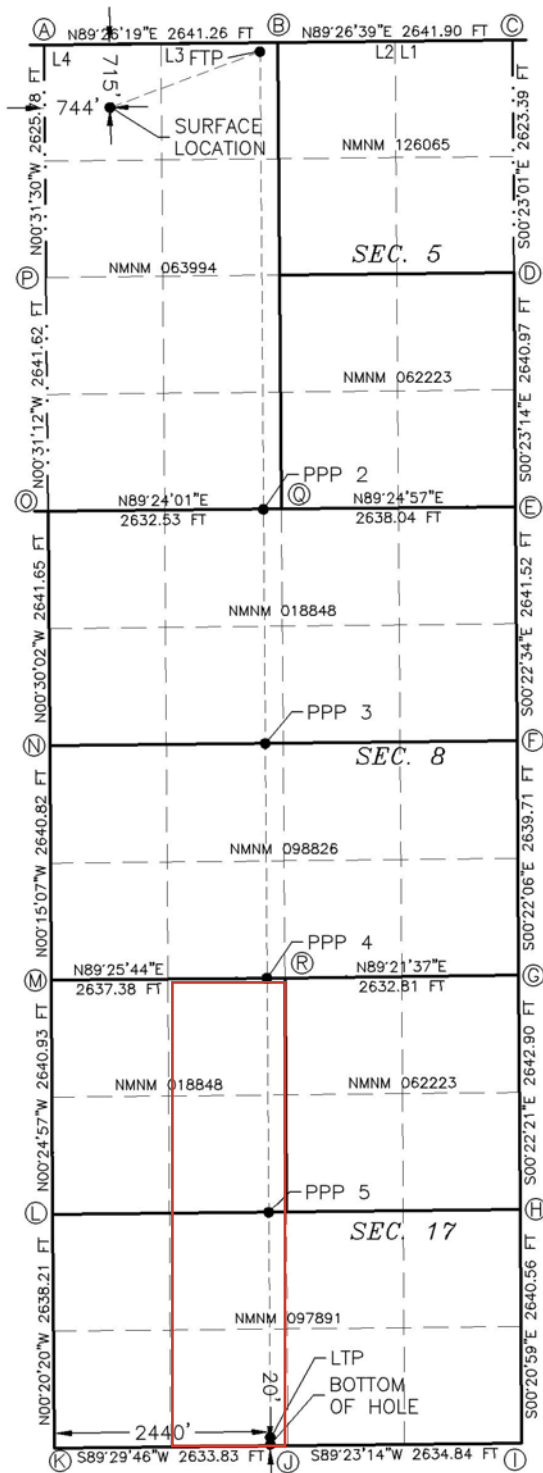


Signature and Seal of Professional Surveyor FILIMON F. JARAMILLO	
Certificate Number PLS 12797	Date of Survey SEPTEMBER 19, 2024
SURVEY NO. 9891A	

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EXOTIC CAT 5 17 FED COM 302H
EL. = 3534.0

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
715' FNL, 744' FWL
N.=487564.22
E.=736052.14
LAT.=32.3388102°N
LONG.=103.7028735°W

KICK OFF POINT
CALLS 49 FNL 2439 FWL
N.= 488246
E.= 737740
LAT. = 32.3406
LONG. = 103.6975

FIRST TAKE POINT
100' FNL, 2440' FWL
N.=488195.67
E.=737742.05
LAT.=32.3405184°N
LONG.=103.6973899°W

LAST TAKE POINT
100' FSL, 2440' FWL
N.=472568.07
E.=737858.06
LAT.=32.2975610°N
LONG.=103.6973146°W

BOTTOM OF HOLE
20' FSL, 2440' FWL
N.=472488.09
E.=737858.53
LAT.=32.2973411°N
LONG.=103.6973147°W

PPP2
0' FSL, 2431' FWL
N.=483031.15
E.=737780.38
LAT.=32.3263221°N
LONG.=103.6973651°W

PPP3
2642' FNL, 2428' FWL
N.=480389.88
E.=737799.99
LAT.=32.3190617°N
LONG.=103.6973524°W

PPP4
0' FSL, 2436' FWL
N.=477748.79
E.=737819.59
LAT.=32.3118018°N
LONG.=103.6973397°W

PPP5
2640' FNL, 2436' FWL
N.=475109.05
E.=737839.19
LAT.=32.3045457°N
LONG.=103.6973269°W

CORNER COORDINATES TABLE

NAD 83 NMSP EAST
A - N.=488271.74 E.=735301.78
B - N.=488297.62 E.=737942.34
C - N.=488323.24 E.=740583.54
D - N.=485700.49 E.=740601.10
E - N.=483060.15 E.=740618.95
F - N.=480419.26 E.=740636.28
G - N.=477780.18 E.=740653.25
H - N.=475137.91 E.=740670.42
I - N.=472497.97 E.=740686.53
J - N.=472469.80 E.=738052.41
K - N.=472446.64 E.=735419.26
L - N.=475084.23 E.=735403.66
M - N.=477724.51 E.=735384.50
N - N.=480364.73 E.=735372.88
O - N.=483005.71 E.=735349.81
P - N.=485646.65 E.=735325.84
Q - N.=483033.26 E.=737981.62
R - N.=477750.79 E.=738021.18

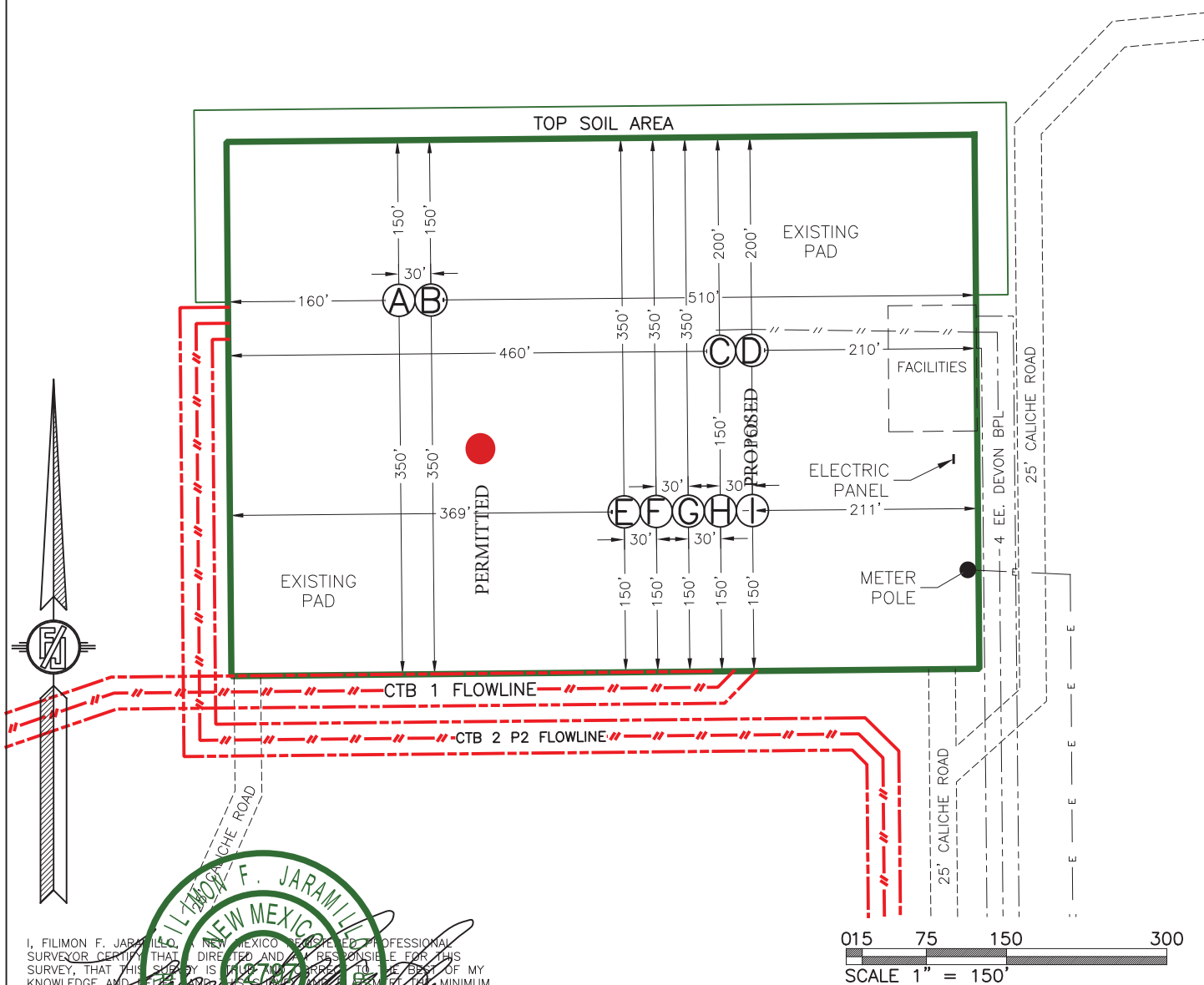
LEGEND

--- SECTION LINE
--- QUARTER LINE
--- LEASE LINE
--- WELL PATH

STRAY CAT 5 WELLPAD 1 (AA000476610)
DEVON ENERGY PRODUCTION COMPANY, L.P.
IN LOT 4 OF
SECTION 5, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SEPTEMBER 19, 2024

SITE MAP

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| (A) EXOTIC CAT 5 17
FED COM 831H | (E) EXOTIC CAT 5 17
FED COM 521H | (H) EXOTIC CAT 5 17
FED COM 812H |
| (B) EXOTIC CAT 5 17
FED COM 832H | (F) EXOTIC CAT 5 17
FED COM 811H | (I) EXOTIC CAT 5 17
FED COM 302H |
| (C) EXOTIC CAT 5 17
FED COM 611H | (G) EXOTIC CAT 5 17
FED COM 301H | |
| (D) EXOTIC CAT 5 17
FED COM 711H | | |



I, FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEF AND IS SUBSTANTIALLY CORRECT TO THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, PLS 1790

SHEET: 3

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3327

CARLSBAD, NEW MEXICO

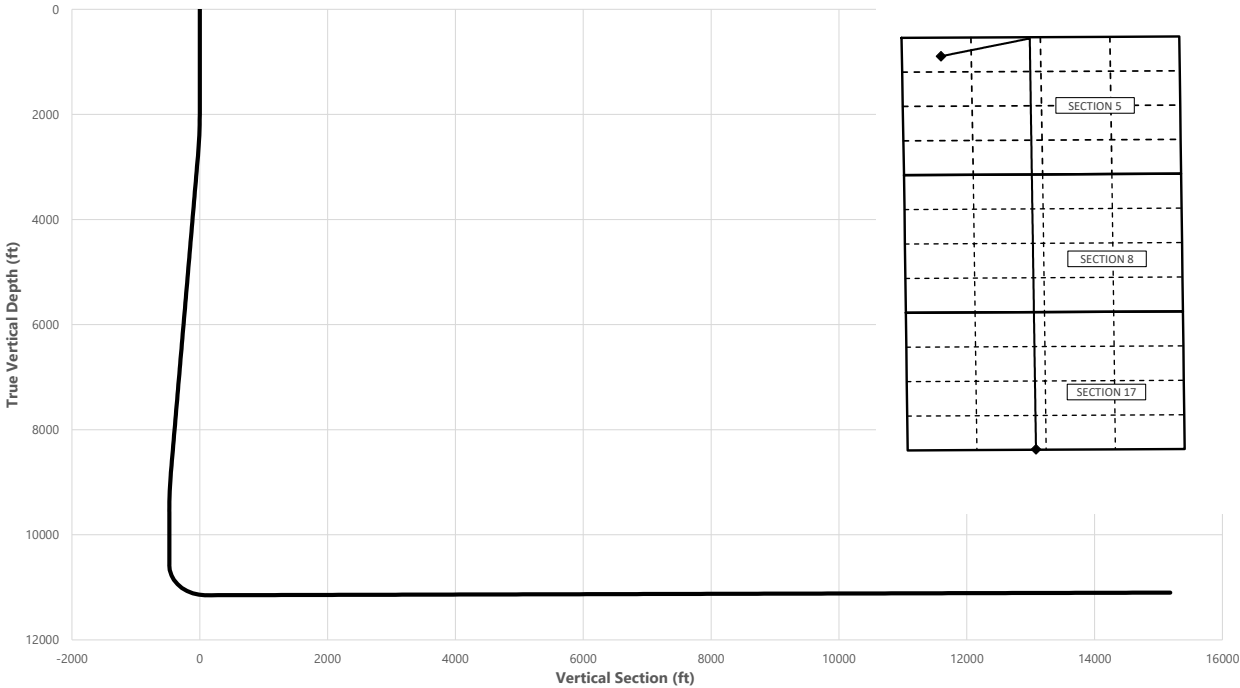
SURVEY NO. 8306B



Well: EXOTIC CAT 5-17 FED COM 302H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

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

MD	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	68.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2750.00	15.00	68.00	2741.46	36.57	90.51	-25.54	2.00	Hold Tangent
9030.33	15.00	68.00	8807.80	645.48	1597.62	-450.83	0.00	Drop to Vertical
9780.33	0.00	68.00	9549.26	682.05	1688.12	-476.37	2.00	Hold Vertical
10808.12	0.00	179.57	10577.05	682.05	1688.12	-476.37	0.00	KOP
11710.01	90.19	179.57	11150.00	107.22	1692.44	94.89	10.00	Landing Point
26893.86	90.19	179.57	11100.00	-15076.13	1806.39	15183.96	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	1023.00	1023.00
Salt	1351.00	1351.00
Base of Salt	4552.97	4483.00
Delaware	4744.50	4668.00
Cherry Canyon	5694.88	5586.00
Brushy Canyon	7011.75	6858.00
1st Bone Spring Lime	8737.56	8525.00
Bone Spring 1st	9915.07	9684.00
Bone Spring 2nd	10491.07	10260.00
3rd Bone Spring Lime / Point of Penetration	11015.58	10780.00
exit	26813.86	11100.28

SHL
KOP
Point of Penetration
Exit
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.3387	-103.7030	715' FNL, 744' FWL of Sec 5 in T23S, R32E
10808.12	10577.05	32.3406	-103.6975	49' FNL, 2439' FWL of Sec 5 in T23S, R32E
11015.58	10780.00	32.3405	-103.6974	100' FNL, 2440' FWL of Sec 5 in T23S, R32E
26813.86	11100.28	32.2976	-103.6973	100' FSL, 2440' FWL of Sec 17 in T23S, R32E
26893.86	11100.00	32.2972	-103.6974	20' FSL, 2440' FWL of Sec 17 in T23S, R32E

	Y	X	MD
KOP	488246.3	737740.3	10808.12



Well: EXOTIC CAT 5-17 FED COM 302H

County: Lea

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	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	68.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	68.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	68.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	68.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	68.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	68.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	68.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	68.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	68.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	68.00	1000.00	0.00	0.00	0.00	0.00	
1023.00	0.00	68.00	1023.00	0.00	0.00	0.00	0.00	Rustler
1100.00	0.00	68.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	68.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	68.00	1300.00	0.00	0.00	0.00	0.00	
1351.00	0.00	68.00	1351.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	68.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	68.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	68.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	68.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	68.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	68.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	68.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	68.00	2099.98	0.65	1.62	-0.46	2.00	
2200.00	4.00	68.00	2199.84	2.61	6.47	-1.83	2.00	
2300.00	6.00	68.00	2299.45	5.88	14.55	-4.11	2.00	
2400.00	8.00	68.00	2398.70	10.44	25.85	-7.29	2.00	
2500.00	10.00	68.00	2497.47	16.30	40.35	-11.39	2.00	
2600.00	12.00	68.00	2595.62	23.45	58.04	-16.38	2.00	
2700.00	14.00	68.00	2693.06	31.88	78.90	-22.26	2.00	
2750.00	15.00	68.00	2741.46	36.57	90.51	-25.54	2.00	Hold Tangent
2800.00	15.00	68.00	2789.76	41.42	102.51	-28.93	0.00	
2900.00	15.00	68.00	2886.35	51.11	126.50	-35.70	0.00	
3000.00	15.00	68.00	2982.94	60.81	150.50	-42.47	0.00	
3100.00	15.00	68.00	3079.54	70.50	174.50	-49.24	0.00	
3200.00	15.00	68.00	3176.13	80.20	198.49	-56.01	0.00	
3300.00	15.00	68.00	3272.72	89.89	222.49	-62.78	0.00	
3400.00	15.00	68.00	3369.31	99.59	246.49	-69.56	0.00	
3500.00	15.00	68.00	3465.91	109.28	270.49	-76.33	0.00	
3600.00	15.00	68.00	3562.50	118.98	294.48	-83.10	0.00	
3700.00	15.00	68.00	3659.09	128.68	318.48	-89.87	0.00	
3800.00	15.00	68.00	3755.68	138.37	342.48	-96.64	0.00	
3900.00	15.00	68.00	3852.28	148.07	366.48	-103.42	0.00	
4000.00	15.00	68.00	3948.87	157.76	390.47	-110.19	0.00	
4100.00	15.00	68.00	4045.46	167.46	414.47	-116.96	0.00	
4200.00	15.00	68.00	4142.05	177.15	438.47	-123.73	0.00	
4300.00	15.00	68.00	4238.65	186.85	462.46	-130.50	0.00	
4400.00	15.00	68.00	4335.24	196.54	486.46	-137.27	0.00	
4500.00	15.00	68.00	4431.83	206.24	510.46	-144.05	0.00	
4552.97	15.00	68.00	4483.00	211.38	523.17	-147.63	0.00	Base of Salt
4600.00	15.00	68.00	4528.42	215.93	534.46	-150.82	0.00	
4700.00	15.00	68.00	4625.02	225.63	558.45	-157.59	0.00	
4744.50	15.00	68.00	4668.00	229.94	569.13	-160.60	0.00	Delaware
4800.00	15.00	68.00	4721.61	235.33	582.45	-164.36	0.00	
4900.00	15.00	68.00	4818.20	245.02	606.45	-171.13	0.00	
5000.00	15.00	68.00	4914.80	254.72	630.45	-177.91	0.00	
5100.00	15.00	68.00	5011.39	264.41	654.44	-184.68	0.00	
5200.00	15.00	68.00	5107.98	274.11	678.44	-191.45	0.00	
5300.00	15.00	68.00	5204.57	283.80	702.44	-198.22	0.00	
5400.00	15.00	68.00	5301.17	293.50	726.43	-204.99	0.00	
5500.00	15.00	68.00	5397.76	303.19	750.43	-211.76	0.00	
5600.00	15.00	68.00	5494.35	312.89	774.43	-218.54	0.00	
5694.88	15.00	68.00	5586.00	322.09	797.20	-224.96	0.00	Cherry Canyon
5700.00	15.00	68.00	5590.94	322.59	798.43	-225.31	0.00	
5800.00	15.00	68.00	5687.54	332.28	822.42	-232.08	0.00	
5900.00	15.00	68.00	5784.13	341.98	846.42	-238.85	0.00	
6000.00	15.00	68.00	5880.72	351.67	870.42	-245.62	0.00	
6100.00	15.00	68.00	5977.31	361.37	894.42	-252.39	0.00	
6200.00	15.00	68.00	6073.91	371.06	918.41	-259.17	0.00	
6300.00	15.00	68.00	6170.50	380.76	942.41	-265.94	0.00	



Well: EXOTIC CAT 5-17 FED COM 302H
County: Lea
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Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
6400.00	15.00	68.00	6267.09	390.45	966.41	-272.71	0.00	
6500.00	15.00	68.00	6363.68	400.15	990.40	-279.48	0.00	
6600.00	15.00	68.00	6460.28	409.85	1014.40	-286.25	0.00	
6700.00	15.00	68.00	6556.87	419.54	1038.40	-293.03	0.00	
6800.00	15.00	68.00	6653.46	429.24	1062.40	-299.80	0.00	
6900.00	15.00	68.00	6750.05	438.93	1086.39	-306.57	0.00	
7000.00	15.00	68.00	6846.65	448.63	1110.39	-313.34	0.00	
7011.75	15.00	68.00	6858.00	449.77	1113.21	-314.14	0.00	Brushy Canyon
7100.00	15.00	68.00	6943.24	458.32	1134.39	-320.11	0.00	
7200.00	15.00	68.00	7039.83	468.02	1158.39	-326.88	0.00	
7300.00	15.00	68.00	7136.42	477.71	1182.38	-333.66	0.00	
7400.00	15.00	68.00	7233.02	487.41	1206.38	-340.43	0.00	
7500.00	15.00	68.00	7329.61	497.11	1230.38	-347.20	0.00	
7600.00	15.00	68.00	7426.20	506.80	1254.37	-353.97	0.00	
7700.00	15.00	68.00	7522.80	516.50	1278.37	-360.74	0.00	
7800.00	15.00	68.00	7619.39	526.19	1302.37	-367.52	0.00	
7900.00	15.00	68.00	7715.98	535.89	1326.37	-374.29	0.00	
8000.00	15.00	68.00	7812.57	545.58	1350.36	-381.06	0.00	
8100.00	15.00	68.00	7909.17	555.28	1374.36	-387.83	0.00	
8200.00	15.00	68.00	8005.76	564.97	1398.36	-394.60	0.00	
8300.00	15.00	68.00	8102.35	574.67	1422.35	-401.37	0.00	
8400.00	15.00	68.00	8198.94	584.37	1446.35	-408.15	0.00	
8500.00	15.00	68.00	8295.54	594.06	1470.35	-414.92	0.00	
8600.00	15.00	68.00	8392.13	603.76	1494.35	-421.69	0.00	
8700.00	15.00	68.00	8488.72	613.45	1518.34	-428.46	0.00	
8737.56	15.00	68.00	8525.00	617.09	1527.36	-431.00	0.00	1st Bone Spring Lime
8800.00	15.00	68.00	8585.31	623.15	1542.34	-435.23	0.00	
8900.00	15.00	68.00	8681.91	632.84	1566.34	-442.00	0.00	
9000.00	15.00	68.00	8778.50	642.54	1590.34	-448.78	0.00	
9030.33	15.00	68.00	8807.80	645.48	1597.62	-450.83	0.00	Drop to Vertical
9100.00	13.61	68.00	8875.30	651.93	1613.57	-455.33	2.00	
9200.00	11.61	68.00	8972.89	660.10	1633.81	-461.04	2.00	
9300.00	9.61	68.00	9071.17	667.00	1650.88	-465.86	2.00	
9400.00	7.61	68.00	9170.04	672.60	1664.75	-469.77	2.00	
9500.00	5.61	68.00	9269.37	676.91	1675.42	-472.78	2.00	
9600.00	3.61	68.00	9369.05	679.92	1682.86	-474.89	2.00	
9700.00	1.61	68.00	9468.94	681.62	1687.08	-476.07	2.00	
9780.33	0.00	68.00	9549.26	682.05	1688.12	-476.37	2.00	Hold Vertical
9800.00	0.00	179.57	9568.93	682.05	1688.12	-476.37	0.00	
9900.00	0.00	179.57	9668.93	682.05	1688.12	-476.37	0.00	
9915.07	0.00	179.57	9684.00	682.05	1688.12	-476.37	0.00	Bone Spring 1st
10000.00	0.00	179.57	9768.93	682.05	1688.12	-476.37	0.00	
10100.00	0.00	179.57	9868.93	682.05	1688.12	-476.37	0.00	
10200.00	0.00	179.57	9968.93	682.05	1688.12	-476.37	0.00	
10300.00	0.00	179.57	10068.93	682.05	1688.12	-476.37	0.00	
10400.00	0.00	179.57	10168.93	682.05	1688.12	-476.37	0.00	
10491.07	0.00	179.57	10260.00	682.05	1688.12	-476.37	0.00	Bone Spring 2nd
10500.00	0.00	179.57	10268.93	682.05	1688.12	-476.37	0.00	
10600.00	0.00	179.57	10368.93	682.05	1688.12	-476.37	0.00	
10700.00	0.00	179.57	10468.93	682.05	1688.12	-476.37	0.00	
10800.00	0.00	179.57	10568.93	682.05	1688.12	-476.37	0.00	
10808.12	0.00	179.57	10577.05	682.05	1688.12	-476.37	0.00	KOP
10900.00	9.19	179.57	10668.53	674.70	1688.18	-469.06	10.00	
11000.00	19.19	179.57	10765.36	650.22	1688.36	-444.74	10.00	
11015.58	20.75	179.57	10780.00	644.90	1688.40	-439.45	10.00	3rd Bone Spring Lime / Point of Penetration
11100.00	29.19	179.57	10856.46	609.30	1688.67	-404.07	10.00	
11200.00	39.19	179.57	10939.08	553.18	1689.09	-348.30	10.00	
11300.00	49.19	179.57	11010.69	483.57	1689.61	-279.12	10.00	
11400.00	59.19	179.57	11069.13	402.58	1690.22	-198.64	10.00	
11500.00	69.19	179.57	11112.62	312.67	1690.90	-109.29	10.00	
11600.00	79.19	179.57	11139.83	216.58	1691.62	-13.79	10.00	
11700.00	89.19	179.57	11149.95	117.22	1692.36	84.95	10.00	
11710.01	90.19	179.57	11150.00	107.22	1692.44	94.89	10.00	Landing Point
11800.00	90.19	179.57	11149.70	17.23	1693.11	184.32	0.00	
11900.00	90.19	179.57	11149.37	-82.77	1693.86	283.70	0.00	
12000.00	90.19	179.57	11149.05	-182.77	1694.62	383.07	0.00	
12100.00	90.19	179.57	11148.72	-282.76	1695.37	482.45	0.00	
12200.00	90.19	179.57	11148.39	-382.76	1696.12	581.83	0.00	
12300.00	90.19	179.57	11148.06	-482.76	1696.87	681.20	0.00	
12400.00	90.19	179.57	11147.73	-582.75	1697.62	780.58	0.00	



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MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
12500.00	90.19	179.57	11147.40	-682.75	1698.37	879.95	0.00	
12600.00	90.19	179.57	11147.07	-782.75	1699.12	979.33	0.00	
12700.00	90.19	179.57	11146.74	-882.74	1699.87	1078.70	0.00	
12800.00	90.19	179.57	11146.41	-982.74	1700.62	1178.08	0.00	
12900.00	90.19	179.57	11146.08	-1082.74	1701.37	1277.46	0.00	
13000.00	90.19	179.57	11145.75	-1182.73	1702.12	1376.83	0.00	
13100.00	90.19	179.57	11145.42	-1282.73	1702.87	1476.21	0.00	
13200.00	90.19	179.57	11145.10	-1382.73	1703.62	1575.58	0.00	
13300.00	90.19	179.57	11144.77	-1482.72	1704.37	1674.96	0.00	
13400.00	90.19	179.57	11144.44	-1582.72	1705.13	1774.34	0.00	
13500.00	90.19	179.57	11144.11	-1682.72	1705.88	1873.71	0.00	
13600.00	90.19	179.57	11143.78	-1782.71	1706.63	1973.09	0.00	
13700.00	90.19	179.57	11143.45	-1882.71	1707.38	2072.46	0.00	
13800.00	90.19	179.57	11143.12	-1982.71	1708.13	2171.84	0.00	
13900.00	90.19	179.57	11142.79	-2082.70	1708.88	2271.21	0.00	
14000.00	90.19	179.57	11142.46	-2182.70	1709.63	2370.59	0.00	
14100.00	90.19	179.57	11142.13	-2282.70	1710.38	2469.97	0.00	
14200.00	90.19	179.57	11141.80	-2382.69	1711.13	2569.34	0.00	
14300.00	90.19	179.57	11141.47	-2482.69	1711.88	2668.72	0.00	
14400.00	90.19	179.57	11141.15	-2582.69	1712.63	2768.09	0.00	
14500.00	90.19	179.57	11140.82	-2682.68	1713.38	2867.47	0.00	
14600.00	90.19	179.57	11140.49	-2782.68	1714.13	2966.84	0.00	
14700.00	90.19	179.57	11140.16	-2882.68	1714.89	3066.22	0.00	
14800.00	90.19	179.57	11139.83	-2982.67	1715.64	3165.60	0.00	
14900.00	90.19	179.57	11139.50	-3082.67	1716.39	3264.97	0.00	
15000.00	90.19	179.57	11139.17	-3182.67	1717.14	3364.35	0.00	
15100.00	90.19	179.57	11138.84	-3282.66	1717.89	3463.72	0.00	
15200.00	90.19	179.57	11138.51	-3382.66	1718.64	3563.10	0.00	
15300.00	90.19	179.57	11138.18	-3482.66	1719.39	3662.48	0.00	
15400.00	90.19	179.57	11137.85	-3582.65	1720.14	3761.85	0.00	
15500.00	90.19	179.57	11137.52	-3682.65	1720.89	3861.23	0.00	
15600.00	90.19	179.57	11137.20	-3782.65	1721.64	3960.60	0.00	
15700.00	90.19	179.57	11136.87	-3882.64	1722.39	4059.98	0.00	
15800.00	90.19	179.57	11136.54	-3982.64	1723.14	4159.35	0.00	
15900.00	90.19	179.57	11136.21	-4082.64	1723.89	4258.73	0.00	
16000.00	90.19	179.57	11135.88	-4182.63	1724.65	4358.11	0.00	
16100.00	90.19	179.57	11135.55	-4282.63	1725.40	4457.48	0.00	
16200.00	90.19	179.57	11135.22	-4382.63	1726.15	4556.86	0.00	
16300.00	90.19	179.57	11134.89	-4482.62	1726.90	4656.23	0.00	
16400.00	90.19	179.57	11134.56	-4582.62	1727.65	4755.61	0.00	
16500.00	90.19	179.57	11134.23	-4682.62	1728.40	4854.98	0.00	
16600.00	90.19	179.57	11133.90	-4782.61	1729.15	4954.36	0.00	
16700.00	90.19	179.57	11133.57	-4882.61	1729.90	5053.74	0.00	
16800.00	90.19	179.57	11133.25	-4982.61	1730.65	5153.11	0.00	
16900.00	90.19	179.57	11132.92	-5082.60	1731.40	5252.49	0.00	
17000.00	90.19	179.57	11132.59	-5182.60	1732.15	5351.86	0.00	
17100.00	90.19	179.57	11132.26	-5282.60	1732.90	5451.24	0.00	
17200.00	90.19	179.57	11131.93	-5382.59	1733.65	5550.62	0.00	
17300.00	90.19	179.57	11131.60	-5482.59	1734.40	5649.99	0.00	
17400.00	90.19	179.57	11131.27	-5582.59	1735.16	5749.37	0.00	
17500.00	90.19	179.57	11130.94	-5682.58	1735.91	5848.74	0.00	
17600.00	90.19	179.57	11130.61	-5782.58	1736.66	5948.12	0.00	
17700.00	90.19	179.57	11130.28	-5882.58	1737.41	6047.49	0.00	
17800.00	90.19	179.57	11129.95	-5982.57	1738.16	6146.87	0.00	
17900.00	90.19	179.57	11129.62	-6082.57	1738.91	6246.25	0.00	
18000.00	90.19	179.57	11129.30	-6182.57	1739.66	6345.62	0.00	
18100.00	90.19	179.57	11128.97	-6282.56	1740.41	6445.00	0.00	
18200.00	90.19	179.57	11128.64	-6382.56	1741.16	6544.37	0.00	
18300.00	90.19	179.57	11128.31	-6482.56	1741.91	6643.75	0.00	
18400.00	90.19	179.57	11127.98	-6582.55	1742.66	6743.12	0.00	
18500.00	90.19	179.57	11127.65	-6682.55	1743.41	6842.50	0.00	
18600.00	90.19	179.57	11127.32	-6782.55	1744.16	6941.88	0.00	
18700.00	90.19	179.57	11126.99	-6882.54	1744.92	7041.25	0.00	
18800.00	90.19	179.57	11126.66	-6982.54	1745.67	7140.63	0.00	
18900.00	90.19	179.57	11126.33	-7082.54	1746.42	7240.00	0.00	
19000.00	90.19	179.57	11126.00	-7182.53	1747.17	7339.38	0.00	
19100.00	90.19	179.57	11125.67	-7282.53	1747.92	7438.76	0.00	
19200.00	90.19	179.57	11125.35	-7382.53	1748.67	7538.13	0.00	
19300.00	90.19	179.57	11125.02	-7482.52	1749.42	7637.51	0.00	
19400.00	90.19	179.57	11124.69	-7582.52	1750.17	7736.88	0.00	



Well: EXOTIC CAT 5-17 FED COM 302H

County: Lea

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19500.00	90.19	179.57	11124.36	-7682.52	1750.92	7836.26	0.00	
19600.00	90.19	179.57	11124.03	-7782.51	1751.67	7935.63	0.00	
19700.00	90.19	179.57	11123.70	-7882.51	1752.42	8035.01	0.00	
19800.00	90.19	179.57	11123.37	-7982.51	1753.17	8134.39	0.00	
19900.00	90.19	179.57	11123.04	-8082.50	1753.92	8233.76	0.00	
20000.00	90.19	179.57	11122.71	-8182.50	1754.67	8333.14	0.00	
20100.00	90.19	179.57	11122.38	-8282.50	1755.43	8432.51	0.00	
20200.00	90.19	179.57	11122.05	-8382.49	1756.18	8531.89	0.00	
20300.00	90.19	179.57	11121.72	-8482.49	1756.93	8631.26	0.00	
20400.00	90.19	179.57	11121.40	-8582.48	1757.68	8730.64	0.00	
20500.00	90.19	179.57	11121.07	-8682.48	1758.43	8830.02	0.00	
20600.00	90.19	179.57	11120.74	-8782.48	1759.18	8929.39	0.00	
20700.00	90.19	179.57	11120.41	-8882.47	1759.93	9028.77	0.00	
20800.00	90.19	179.57	11120.08	-8982.47	1760.68	9128.14	0.00	
20900.00	90.19	179.57	11119.75	-9082.47	1761.43	9227.52	0.00	
21000.00	90.19	179.57	11119.42	-9182.46	1762.18	9326.90	0.00	
21100.00	90.19	179.57	11119.09	-9282.46	1762.93	9426.27	0.00	
21200.00	90.19	179.57	11118.76	-9382.46	1763.68	9525.65	0.00	
21300.00	90.19	179.57	11118.43	-9482.45	1764.43	9625.02	0.00	
21400.00	90.19	179.57	11118.10	-9582.45	1765.19	9724.40	0.00	
21500.00	90.19	179.57	11117.77	-9682.45	1765.94	9823.77	0.00	
21600.00	90.19	179.57	11117.45	-9782.44	1766.69	9923.15	0.00	
21700.00	90.19	179.57	11117.12	-9882.44	1767.44	10022.53	0.00	
21800.00	90.19	179.57	11116.79	-9982.44	1768.19	10121.90	0.00	
21900.00	90.19	179.57	11116.46	-10082.43	1768.94	10221.28	0.00	
22000.00	90.19	179.57	11116.13	-10182.43	1769.69	10320.65	0.00	
22100.00	90.19	179.57	11115.80	-10282.43	1770.44	10420.03	0.00	
22200.00	90.19	179.57	11115.47	-10382.42	1771.19	10519.40	0.00	
22300.00	90.19	179.57	11115.14	-10482.42	1771.94	10618.78	0.00	
22400.00	90.19	179.57	11114.81	-10582.42	1772.69	10718.16	0.00	
22500.00	90.19	179.57	11114.48	-10682.41	1773.44	10817.53	0.00	
22600.00	90.19	179.57	11114.15	-10782.41	1774.19	10916.91	0.00	
22700.00	90.19	179.57	11113.82	-10882.41	1774.94	11016.28	0.00	
22800.00	90.19	179.57	11113.50	-10982.40	1775.70	11115.66	0.00	
22900.00	90.19	179.57	11113.17	-11082.40	1776.45	11215.04	0.00	
23000.00	90.19	179.57	11112.84	-11182.40	1777.20	11314.41	0.00	
23100.00	90.19	179.57	11112.51	-11282.39	1777.95	11413.79	0.00	
23200.00	90.19	179.57	11112.18	-11382.39	1778.70	11513.16	0.00	
23300.00	90.19	179.57	11111.85	-11482.39	1779.45	11612.54	0.00	
23400.00	90.19	179.57	11111.52	-11582.38	1780.20	11711.91	0.00	
23500.00	90.19	179.57	11111.19	-11682.38	1780.95	11811.29	0.00	
23600.00	90.19	179.57	11110.86	-11782.38	1781.70	11910.67	0.00	
23700.00	90.19	179.57	11110.53	-11882.37	1782.45	12010.04	0.00	
23800.00	90.19	179.57	11110.20	-11982.37	1783.20	12109.42	0.00	
23900.00	90.19	179.57	11109.87	-12082.37	1783.95	12208.79	0.00	
24000.00	90.19	179.57	11109.55	-12182.36	1784.70	12308.17	0.00	
24100.00	90.19	179.57	11109.22	-12282.36	1785.46	12407.54	0.00	
24200.00	90.19	179.57	11108.89	-12382.36	1786.21	12506.92	0.00	
24300.00	90.19	179.57	11108.56	-12482.35	1786.96	12606.30	0.00	
24400.00	90.19	179.57	11108.23	-12582.35	1787.71	12705.67	0.00	
24500.00	90.19	179.57	11107.90	-12682.35	1788.46	12805.05	0.00	
24600.00	90.19	179.57	11107.57	-12782.34	1789.21	12904.42	0.00	
24700.00	90.19	179.57	11107.24	-12882.34	1789.96	13003.80	0.00	
24800.00	90.19	179.57	11106.91	-12982.34	1790.71	13103.18	0.00	
24900.00	90.19	179.57	11106.58	-13082.33	1791.46	13202.55	0.00	
25000.00	90.19	179.57	11106.25	-13182.33	1792.21	13301.93	0.00	
25100.00	90.19	179.57	11105.92	-13282.33	1792.96	13401.30	0.00	
25200.00	90.19	179.57	11105.60	-13382.32	1793.71	13500.68	0.00	
25300.00	90.19	179.57	11105.27	-13482.32	1794.46	13600.05	0.00	
25400.00	90.19	179.57	11104.94	-13582.32	1795.22	13699.43	0.00	
25500.00	90.19	179.57	11104.61	-13682.31	1795.97	13798.81	0.00	
25600.00	90.19	179.57	11104.28	-13782.31	1796.72	13898.18	0.00	
25700.00	90.19	179.57	11103.95	-13882.31	1797.47	13997.56	0.00	
25800.00	90.19	179.57	11103.62	-13982.30	1798.22	14096.93	0.00	
25900.00	90.19	179.57	11103.29	-14082.30	1798.97	14196.31	0.00	
26000.00	90.19	179.57	11102.96	-14182.30	1799.72	14295.68	0.00	
26100.00	90.19	179.57	11102.63	-14282.29	1800.47	14395.06	0.00	
26200.00	90.19	179.57	11102.30	-14382.29	1801.22	14494.44	0.00	
26300.00	90.19	179.57	11101.97	-14482.29	1801.97	14593.81	0.00	
26400.00	90.19	179.57	11101.65	-14582.28	1802.72	14693.19	0.00	

Well: EXOTIC CAT 5-17 FED COM 302H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
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Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
26500.00	90.19	179.57	11101.32	-14682.28	1803.47	14792.56	0.00	
26600.00	90.19	179.57	11100.99	-14782.28	1804.22	14891.94	0.00	
26700.00	90.19	179.57	11100.66	-14882.27	1804.97	14991.31	0.00	
26800.00	90.19	179.57	11100.33	-14982.27	1805.73	15090.69	0.00	
26813.86	90.19	179.57	11100.28	-14996.13	1805.83	15104.47	0.00	exit
26893.86	90.19	179.57	11100.00	-15076.13	1806.39	15183.96	0.00	BHL

1. Geologic Formations

TVD of target	11100	Pilot hole depth	N/A
MD at TD:	26894	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1023		
Salt	1351		
Base of Salt	4483		
Delaware	4668		
Cherry Canyon	5586		
Brushy Canyon	6858		
1st Bone Spring Lime	8525		
Bone Spring 1st	9684		
Bone Spring 2nd	10260		
3rd Bone Spring Lime	10780		

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

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2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	1048	0	1048
9 7/8	8 5/8	32	P-110EC	Sprint FJ	0	10699	0	10699
7 7/8	5 1/2	17	P-110EC	DWC / C-IS+	0	26894	0	11100

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

3. Cementing Program (Primary Design)

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	# Skis	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	631	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	491	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	430	7011	13.2	1.44	Tail: Class H / C + additives
Production	36	10199	9	3.27	Lead: Class H / C + additives
	2129	10808	13.2	1.44	Tail: Class H / C + additives

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

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

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4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type		✓	Tested to:
Int 1		13-5/8"	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						

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5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and 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	5195
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 43 CFR 3176. 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.

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8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 415340

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 415340
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/6/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/6/2025