

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well Amended C-104

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey
 - ☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) Approved BLM Copy
- ☒ C-105 Completion Report (or BLM equivalent) Approved BLM Copy
- ☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

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 Road, 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, NM 87505

RECEIVED

SEP 12 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

DISTRICT/ARTESIA/O.C.D.

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45570	² Pool Code 39350	³ Pool Name LIVINGSTON RIDGE; BONE SPRING
⁴ Property Code	⁵ Property Name ALEUTIAN 10-3 FED COM	⁶ Well Number 214H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3418.2

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	23 S	31 E		315	SOUTH	850	EAST	EDDY

¹¹ 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
1	3	23 S	31 E		119	NORTH	913	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

NW CORNER SEC. 3 LAT. = 32.3407440°N LONG. = 103.7742605°W NMSP EAST (FT) N = 488145.31 E = 714000.60 W/4 CORNER SEC. 3 LAT. = 32.3335111°N LONG. = 103.7742496°W NMSP EAST (FT) N = 485514.03 E = 714017.69 NW CORNER SEC. 10 LAT. = 32.3262527°N LONG. = 103.7742368°W NMSP EAST (FT) N = 482873.50 E = 714035.43 W/4 CORNER SEC. 10 LAT. = 32.3189960°N LONG. = 103.7742333°W NMSP EAST (FT) N = 480233.55 E = 714050.30 SW CORNER SEC. 10 LAT. = 32.3117375°N LONG. = 103.7742310°W NMSP EAST (FT) N = 477592.96 E = 714064.76		N89°43'46"E 2641.24 FT DNF BHL LTP AS-DRILLED LAST TAKE POINT 214' FSL, 912' FEL LAT. = 32.3401493°N LONG. = 103.7601118°W NMSP EAST (FT) N = 487952.04 E = 718371.47 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD88. AS-DRILLED FIRST TAKE POINT 494' FSL, 1118' FEL LAT. = 32.3131018°N LONG. = 103.7607426°W NMSP EAST (FT) N = 478111.29 E = 718229.26 AS-DRILLED KOP 186' FSL, 1229' FEL LAT. = 32.3122549°N LONG. = 103.7611009°W NMSP EAST (FT) N = 477802.61 E = 718120.21 S/4 CORNER SEC. 10 LAT. = 32.3117422°N LONG. = 103.7656802°W NMSP EAST (FT) KOP N = 477608.56 E = 716706.45		NE CORNER SEC. 3 LAT. = 32.3407356°N LONG. = 103.7571603°W NMSP EAST (FT) N = 488170.26 E = 719281.88 E/4 CORNER SEC. 3 LAT. = 32.3335234°N LONG. = 103.7571441°W NMSP EAST (FT) N = 485546.51 E = 719301.00 NE CORNER SEC. 10 LAT. = 32.3262643°N LONG. = 103.7571278°W NMSP EAST (FT) N = 482905.72 E = 719320.25 E/4 CORNER SEC. 10 LAT. = 32.3190067°N LONG. = 103.7571257°W NMSP EAST (FT) N = 480265.44 E = 719335.09 SE CORNER SEC. 10 LAT. = 32.3117463°N LONG. = 103.7571237°W NMSP EAST (FT) N = 477624.13 E = 719349.92	
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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jenny Harms 9-7-2019
Signature Date

Jenny Harms
Printed Name

Jenny.Harms@dvn.com
E-mail Address

¹⁸ 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.

AUGUST 22, 2019
Date of Survey

MONTE F. JARAMILLO
Signature and Seal of Professional Surveyor
Certificate Number 15339
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15339

RECEIVED

SEP 12 2019

DISTRICT II-ARTESIA O.C.D.

Intent ☐ As Drilled ☒

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	ALEUTIAN 10-3 FED COM	214H

Kick Off Point (KOP)

UL P	Section 10	Township 23S	Range 31E	Lot	Feet 186	From N/S SOUTH	Feet 1229	From E/W EAST	County EDDY
Latitude 32.3122549					Longitude 103.7611009			NAD 83	

First Take Point (FTP)

UL P	Section 10	Township 23S	Range 31E	Lot	Feet 494	From N/S SOUTH	Feet 1118	From E/W EAST	County EDDY
Latitude 32.3131018					Longitude 103.7607426			NAD 83	

Last Take Point (LTP)

UL	Section 3	Township 23S	Range 31E	Lot 1	Feet 214	From N/S NORTH	Feet 912	From E/W EAST	County EDDY
Latitude 32.3401493					Longitude 103.7601118			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

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SEP 12 2019

DISTRICT//ARTESIAO.C.D.

Devon Energy

Eddy County, NM (NAD83 NME)

Aleutian 10-3 Fed Com

214H

OH

Design: OH

Regulatory Report (Grid)

16 August, 2019

This survey is correct to the best of my knowledge and is supported by actual field data.

Hawkeye Saylor

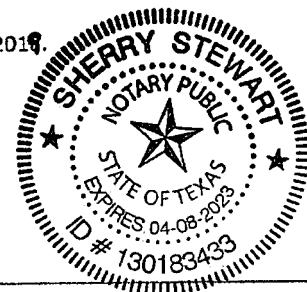
Notarized this date 16th of August, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling, Intl

Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Aleutian 10-3 Fed Com		
Site Position:		Northing:	477,934.12 usft
From:	Map	Easting:	718,498.47 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 45.399 N
		Longitude:	103° 45' 35.547 W
		Grid Convergence:	0.31 °

Well	214H					
Well Position	+N/-S	0.00 usft	Northing:	477,934.12 usft	Latitude:	32° 18' 45.399 N
	+E/-W	0.00 usft	Easting:	718,498.47 usft	Longitude:	103° 45' 35.547 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,418.00 usft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	HDGM	3/5/2019	6.85	60.03	48,005	

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(bearing)	
	0.00	0.00	0.00	359.36	

Survey Program	Date 8/16/2019				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
195.00	20,452.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
195.00	0.51	257.90	195.00	-0.17	-0.18	-0.85	0.26	257.90	0.87	
241.85	0.69	261.44	241.84	-0.25	-0.27	-1.33	0.39	258.63	1.36	
333.09	0.70	256.36	333.08	-0.45	-0.48	-2.42	0.07	258.75	2.46	
425.00	0.64	262.12	424.98	-0.64	-0.68	-3.47	0.10	258.86	3.54	
518.00	0.68	263.15	517.98	-0.77	-0.82	-4.53	0.04	259.74	4.61	
587.00	0.68	246.22	586.97	-0.98	-1.03	-5.31	0.29	258.98	5.41	
698.00	0.71	254.81	697.96	-1.41	-1.48	-6.58	0.10	257.32	6.74	
790.00	0.93	269.43	789.95	-1.55	-1.64	-7.88	0.33	258.26	8.05	
882.00	0.96	261.03	881.94	-1.66	-1.76	-9.38	0.15	259.35	9.55	
973.00	0.90	266.21	972.93	-1.81	-1.93	-10.85	0.11	259.91	11.02	
1,065.00	0.87	266.79	1,064.92	-1.88	-2.02	-12.27	0.03	260.66	12.43	
1,157.00	0.84	267.82	1,156.91	-1.93	-2.08	-13.64	0.04	261.32	13.80	
1,248.00	0.71	274.26	1,247.90	-1.90	-2.07	-14.87	0.17	262.09	15.01	
1,338.00	0.45	280.01	1,337.89	-1.79	-1.96	-15.77	0.30	262.91	15.90	
1,429.00	0.55	274.67	1,428.89	-1.68	-1.87	-16.56	0.12	263.57	16.67	
1,522.00	0.68	264.44	1,521.89	-1.69	-1.88	-17.55	0.18	263.88	17.66	
1,613.00	0.67	259.48	1,612.88	-1.82	-2.03	-18.62	0.07	263.77	18.73	
1,703.00	0.44	274.28	1,702.88	-1.88	-2.10	-19.48	0.30	263.84	19.59	
1,798.00	0.47	240.54	1,797.87	-2.04	-2.27	-20.18	0.28	263.59	20.31	
1,893.00	0.37	270.38	1,892.87	-2.22	-2.46	-20.83	0.25	263.27	20.97	
1,988.00	0.44	263.84	1,987.87	-2.25	-2.49	-21.50	0.09	263.38	21.64	
2,083.00	0.51	220.25	2,082.86	-2.61	-2.86	-22.13	0.38	262.65	22.32	
2,177.00	0.48	217.45	2,176.86	-3.23	-3.49	-22.64	0.04	261.24	22.91	
2,272.00	0.57	238.69	2,271.86	-3.79	-4.05	-23.29	0.22	260.14	23.64	
2,366.00	0.38	260.17	2,365.85	-4.08	-4.34	-23.99	0.27	259.74	24.38	
2,459.00	0.48	265.76	2,458.85	-4.15	-4.43	-24.69	0.12	259.83	25.08	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
2,555.00	2.33	263.73	2,554.82	-4.37	-4.67	-27.03	1.93	260.20	27.43	
2,648.00	3.71	254.77	2,647.69	-5.31	-5.67	-31.81	1.56	259.90	32.31	
2,742.00	4.95	257.62	2,741.42	-6.90	-7.33	-38.71	1.34	259.27	39.39	
2,837.00	6.43	260.74	2,835.95	-8.53	-9.07	-47.96	1.59	259.29	48.81	
2,931.00	6.67	271.37	2,929.34	-9.13	-9.79	-58.61	1.31	260.52	59.42	
3,027.00	7.71	265.45	3,024.58	-9.37	-10.16	-70.61	1.33	261.81	71.33	
3,121.00	8.69	250.17	3,117.63	-12.14	-13.07	-83.57	2.53	261.11	84.59	
3,216.00	8.94	247.22	3,211.51	-17.28	-18.37	-97.13	0.54	259.29	98.85	
3,311.00	9.05	247.64	3,305.34	-22.83	-24.07	-110.85	0.13	257.75	113.43	
3,407.00	8.67	243.26	3,400.20	-28.80	-30.19	-124.29	0.81	256.35	127.91	
3,502.00	8.04	241.45	3,494.19	-35.06	-36.59	-136.52	0.72	255.00	141.34	
3,597.00	7.29	234.91	3,588.34	-41.58	-43.23	-147.29	1.21	253.64	153.50	
3,691.00	6.94	227.26	3,681.62	-48.76	-50.51	-156.34	1.07	252.09	164.30	
3,784.00	6.69	238.10	3,773.96	-55.34	-57.19	-165.07	1.41	250.89	174.69	
3,879.00	6.76	241.91	3,868.31	-60.79	-62.75	-174.70	0.48	250.24	185.62	
3,974.00	6.28	231.74	3,962.70	-66.54	-68.60	-183.71	1.31	249.52	196.10	
4,069.00	6.17	227.78	4,057.14	-73.10	-75.25	-191.57	0.47	248.56	205.82	
4,164.00	6.04	224.13	4,151.60	-80.04	-82.26	-198.83	0.43	247.52	215.18	
4,238.00	5.64	222.56	4,225.22	-85.45	-87.74	-204.00	0.58	246.73	222.07	
4,351.00	5.14	224.96	4,337.72	-93.04	-95.41	-211.33	0.49	245.70	231.87	
4,446.00	5.30	235.34	4,432.33	-98.47	-100.91	-217.95	1.01	245.16	240.18	
4,541.00	6.18	246.42	4,526.85	-102.92	-105.46	-226.25	1.49	245.01	249.62	
4,636.00	6.61	249.97	4,621.26	-106.73	-109.37	-236.07	0.61	245.14	260.18	
4,731.00	6.63	250.56	4,715.63	-110.31	-113.07	-246.38	0.07	245.35	271.09	
4,825.00	6.53	248.55	4,809.01	-113.96	-116.83	-256.47	0.27	245.51	281.83	
4,919.00	6.86	249.10	4,902.37	-117.80	-120.79	-266.69	0.36	245.63	292.77	
5,014.00	7.14	247.13	4,996.66	-122.00	-125.11	-277.43	0.39	245.73	304.33	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
5,108.00	7.09	247.41	5,089.94	-126.38	-129.61	-288.17	0.06	245.78	315.97	
5,202.00	6.59	244.13	5,183.27	-130.85	-134.19	-298.38	0.67	245.79	327.16	
5,297.00	6.86	244.35	5,277.61	-135.57	-139.02	-308.40	0.29	245.73	338.28	
5,391.00	6.47	242.90	5,370.98	-140.30	-143.87	-318.17	0.45	245.67	349.19	
5,485.00	6.27	241.99	5,464.40	-145.02	-148.69	-327.42	0.24	245.58	359.60	
5,580.00	6.49	243.65	5,558.81	-149.74	-153.51	-336.81	0.30	245.50	370.14	
5,675.00	6.25	245.33	5,653.22	-154.17	-158.05	-346.32	0.32	245.47	380.68	
5,769.00	6.19	243.92	5,746.67	-158.43	-162.41	-355.52	0.17	245.45	390.86	
5,863.00	6.41	244.80	5,840.10	-162.79	-166.88	-364.82	0.26	245.42	401.18	
5,958.00	4.32	249.97	5,934.68	-166.18	-170.36	-372.98	2.26	245.45	410.05	
6,053.00	3.93	254.52	6,029.43	-168.20	-172.45	-379.48	0.54	245.56	416.83	
6,148.00	3.60	265.83	6,124.23	-169.22	-173.54	-385.59	0.85	245.77	422.85	
6,243.00	3.23	266.00	6,219.06	-169.56	-173.94	-391.24	0.39	246.03	428.16	
6,337.00	1.19	251.00	6,312.99	-170.03	-174.45	-394.80	2.24	246.16	431.63	
6,432.00	1.32	262.11	6,407.96	-170.47	-174.92	-396.82	0.29	246.21	433.66	
6,527.00	0.94	311.40	6,502.95	-170.09	-174.55	-398.49	1.06	246.34	435.04	
6,621.00	1.15	328.65	6,596.93	-168.76	-173.24	-399.56	0.40	246.56	435.50	
6,716.00	1.06	303.27	6,691.92	-167.45	-171.94	-400.79	0.52	246.78	436.11	
6,811.00	1.08	296.98	6,786.90	-166.55	-171.05	-402.32	0.13	246.97	437.17	
6,905.00	1.88	356.69	6,880.87	-164.60	-169.11	-403.20	1.73	247.25	437.23	
7,000.00	1.75	354.41	6,975.82	-161.60	-166.11	-403.43	0.16	247.62	436.29	
7,095.00	1.90	12.92	7,070.78	-158.62	-163.13	-403.22	0.64	247.97	434.97	
7,189.00	2.09	13.55	7,164.72	-155.44	-159.95	-402.47	0.20	248.33	433.09	
7,283.00	2.19	8.90	7,258.65	-152.01	-156.51	-401.79	0.21	248.72	431.20	
7,376.00	1.94	3.08	7,351.59	-148.69	-153.18	-401.43	0.35	249.11	429.66	
7,471.00	1.83	3.82	7,446.54	-145.57	-150.06	-401.24	0.12	249.49	428.39	
7,566.00	1.70	357.73	7,541.50	-142.65	-147.14	-401.20	0.24	249.86	427.33	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
7,661.00	1.56	358.38	7,636.46	-139.95	-144.44	-401.29	0.15	250.20	426.49	
7,755.00	1.49	356.39	7,730.43	-137.45	-141.94	-401.40	0.09	250.53	425.76	
7,848.00	1.93	44.28	7,823.39	-135.13	-139.61	-400.39	1.55	250.78	424.03	
7,943.00	2.29	60.45	7,918.32	-133.08	-137.53	-397.62	0.73	250.92	420.73	
8,038.00	2.34	56.29	8,013.25	-131.10	-135.52	-394.35	0.18	251.03	416.99	
8,133.00	1.60	62.13	8,108.19	-129.44	-133.82	-391.57	0.81	251.13	413.80	
8,226.00	1.42	65.26	8,201.16	-128.37	-132.73	-389.37	0.21	251.18	411.38	
8,321.00	1.21	63.21	8,296.13	-127.45	-131.79	-387.41	0.23	251.21	409.21	
8,415.00	1.10	63.70	8,390.11	-126.62	-130.94	-385.71	0.12	251.25	407.33	
8,510.00	0.84	86.45	8,485.10	-126.19	-130.49	-384.20	0.48	251.24	405.76	
8,604.00	0.24	71.86	8,579.10	-126.10	-130.39	-383.33	0.65	251.21	404.90	
8,698.00	0.57	90.92	8,673.09	-126.05	-130.34	-382.67	0.37	251.19	404.26	
8,794.00	1.00	69.70	8,769.08	-125.78	-130.05	-381.41	0.53	251.17	402.97	
8,888.00	0.85	74.36	8,863.07	-125.33	-129.58	-379.97	0.18	251.17	401.46	
8,982.00	0.89	69.80	8,957.06	-124.90	-129.14	-378.61	0.09	251.17	400.03	
9,075.00	1.09	67.10	9,050.05	-124.33	-128.55	-377.12	0.22	251.18	398.43	
9,170.00	0.73	69.70	9,145.04	-123.78	-127.99	-375.72	0.38	251.19	396.92	
9,263.00	0.32	135.79	9,238.03	-123.77	-127.97	-374.98	0.72	251.16	396.22	
9,358.00	0.47	162.17	9,333.03	-124.33	-128.53	-374.68	0.24	251.07	396.11	
9,453.00	0.40	158.02	9,428.03	-125.01	-129.21	-374.43	0.08	250.96	396.10	
9,547.00	0.69	212.53	9,522.02	-125.79	-129.99	-374.62	0.60	250.86	396.53	
9,642.00	1.44	229.68	9,617.01	-127.04	-131.24	-375.83	0.85	250.75	398.09	
9,719.00	1.56	238.86	9,693.98	-128.18	-132.41	-377.47	0.35	250.67	400.02	
9,738.00	1.60	235.14	9,712.97	-128.47	-132.69	-377.91	0.58	250.65	400.53	
9,833.00	2.75	353.93	9,807.93	-126.94	-131.19	-379.24	3.99	250.92	401.29	
9,880.00	6.01	5.63	9,854.79	-123.37	-127.62	-379.12	7.16	251.40	400.02	
9,928.00	8.08	15.51	9,902.43	-117.63	-121.86	-377.97	4.98	252.13	397.13	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
9,975.00	10.92	19.06	9,948.78	-110.27	-114.47	-375.63	6.17	253.05	392.68	
10,023.00	14.12	21.34	9,995.63	-100.56	-104.72	-372.01	6.74	254.28	386.47	
10,055.00	16.64	22.08	10,026.48	-92.71	-96.84	-368.87	7.90	255.29	381.37	
10,087.00	21.11	21.33	10,056.76	-83.13	-87.22	-365.05	13.99	256.56	375.32	
10,118.00	25.70	22.71	10,085.20	-71.78	-75.81	-360.42	14.91	258.12	368.31	
10,165.00	33.80	22.65	10,125.97	-50.38	-54.31	-351.44	17.23	261.22	355.61	
10,212.00	40.08	22.73	10,163.52	-24.46	-28.26	-340.55	13.36	265.26	341.72	
10,259.00	46.81	19.34	10,197.62	5.57	1.90	-329.01	15.15	270.33	329.02	
10,307.00	53.54	18.34	10,228.35	40.31	36.77	-317.13	14.11	276.61	319.25	
10,354.00	57.70	18.37	10,254.88	76.98	73.58	-304.92	8.85	283.57	313.67	
10,401.00	62.10	19.08	10,278.45	115.33	112.08	-291.86	9.45	291.01	312.64	
10,448.00	70.27	19.28	10,297.41	155.75	152.65	-277.74	17.39	298.79	316.93	
10,496.00	78.11	19.78	10,310.48	199.06	196.15	-262.31	16.36	306.79	327.54	
10,568.00	82.44	20.33	10,322.64	265.43	262.79	-237.98	6.06	317.84	354.53	
10,662.00	85.15	21.64	10,332.80	352.29	350.03	-204.52	3.20	329.70	405.40	
10,756.00	86.20	19.97	10,339.88	439.53	437.65	-171.23	2.09	338.63	469.95	
10,851.00	88.29	17.44	10,344.45	529.05	527.51	-140.80	3.45	345.06	545.98	
10,945.00	91.51	14.82	10,344.62	619.04	617.79	-114.69	4.42	349.48	628.35	
11,037.00	93.06	11.06	10,340.95	708.37	707.37	-94.11	4.42	352.42	713.60	
11,129.00	94.36	9.06	10,334.99	798.58	797.76	-78.07	2.59	354.41	801.57	
11,221.00	93.65	5.92	10,328.57	889.42	888.74	-66.11	3.49	355.75	891.19	
11,313.00	89.97	6.00	10,325.66	980.75	980.18	-56.57	4.00	356.70	981.81	
11,406.00	89.60	4.99	10,326.01	1,073.21	1,072.75	-47.66	1.16	357.46	1,073.81	
11,497.00	89.26	2.76	10,326.91	1,163.92	1,163.53	-41.51	2.48	357.96	1,164.27	
11,589.00	88.96	359.35	10,328.34	1,255.86	1,255.49	-39.82	3.72	358.18	1,256.12	
11,681.00	90.54	359.09	10,328.75	1,347.85	1,347.48	-41.07	1.74	358.25	1,348.10	
11,773.00	88.69	358.97	10,329.36	1,439.84	1,439.46	-42.63	2.02	358.30	1,440.09	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
11,863.00	90.40	359.68	10,330.08	1,529.84	1,529.45	-43.69	2.06	358.36	1,530.07	
11,953.00	89.70	359.41	10,330.00	1,619.84	1,619.44	-44.40	0.83	358.43	1,620.05	
12,045.00	88.16	359.69	10,331.72	1,711.82	1,711.42	-45.12	1.70	358.49	1,712.01	
12,138.00	89.26	0.67	10,333.81	1,804.78	1,804.39	-44.83	1.58	358.58	1,804.95	
12,229.00	89.83	359.81	10,334.53	1,895.77	1,895.39	-44.45	1.13	358.66	1,895.91	
12,319.00	87.98	357.78	10,336.25	1,985.74	1,985.34	-46.34	3.05	358.66	1,985.88	
12,414.00	88.86	357.31	10,338.87	2,080.65	2,080.22	-50.41	1.05	358.61	2,080.83	
12,509.00	91.54	358.47	10,338.54	2,175.61	2,175.14	-53.91	3.07	358.58	2,175.81	
12,602.00	90.07	359.32	10,337.24	2,268.59	2,268.11	-55.70	1.83	358.59	2,268.80	
12,697.00	89.00	358.31	10,338.01	2,363.58	2,363.09	-57.67	1.55	358.60	2,363.79	
12,792.00	88.69	357.76	10,339.92	2,458.54	2,458.01	-60.92	0.66	358.58	2,458.77	
12,887.00	87.66	358.63	10,342.95	2,553.47	2,552.91	-63.91	1.42	358.57	2,553.71	
12,981.00	89.60	359.71	10,345.19	2,647.44	2,646.87	-65.27	2.36	358.59	2,647.68	
13,075.00	89.23	0.59	10,346.15	2,741.42	2,740.87	-65.03	1.02	358.64	2,741.64	
13,171.00	90.23	0.60	10,346.61	2,837.40	2,836.86	-64.03	1.04	358.71	2,837.58	
13,265.00	89.63	0.72	10,346.72	2,931.37	2,930.85	-62.95	0.65	358.77	2,931.53	
13,359.00	87.72	359.39	10,348.89	3,025.33	3,024.82	-62.86	2.48	358.81	3,025.47	
13,453.00	90.00	359.89	10,350.77	3,119.31	3,118.79	-63.45	2.48	358.83	3,119.44	
13,547.00	89.73	358.96	10,350.99	3,213.31	3,212.79	-64.39	1.03	358.85	3,213.43	
13,641.00	88.16	358.27	10,352.72	3,307.28	3,306.74	-66.66	1.82	358.85	3,307.41	
13,736.00	89.80	358.83	10,354.41	3,402.25	3,401.69	-69.07	1.82	358.84	3,402.39	
13,831.00	89.09	359.79	10,355.33	3,497.24	3,496.68	-70.21	1.26	358.85	3,497.38	
13,926.00	89.63	359.72	10,356.39	3,592.24	3,591.67	-70.62	0.57	358.87	3,592.37	
14,021.00	90.54	1.56	10,356.25	3,687.21	3,686.66	-69.55	2.16	358.92	3,687.32	
14,115.00	90.23	359.78	10,355.62	3,781.18	3,780.65	-68.46	1.92	358.96	3,781.27	
14,210.00	90.17	358.80	10,355.29	3,876.17	3,875.64	-69.63	1.03	358.97	3,876.26	
14,304.00	90.70	359.28	10,354.57	3,970.17	3,969.62	-71.21	0.76	358.97	3,970.26	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
14,399.00	90.80	359.04	10,353.33	4,065.16	4,064.60	-72.60	0.27	358.98	4,065.25	
14,494.00	91.44	359.38	10,351.47	4,160.14	4,159.58	-73.91	0.76	358.98	4,160.23	
14,589.00	91.24	358.61	10,349.25	4,255.11	4,254.53	-75.58	0.84	358.98	4,255.21	
14,683.00	89.43	358.86	10,348.70	4,349.10	4,348.51	-77.65	1.94	358.98	4,349.20	
14,777.00	89.46	358.10	10,349.61	4,443.09	4,442.47	-80.14	0.81	358.97	4,443.19	
14,872.00	89.76	358.51	10,350.26	4,538.07	4,537.42	-82.95	0.53	358.95	4,538.18	
14,966.00	89.43	357.76	10,350.92	4,632.04	4,631.37	-86.01	0.87	358.94	4,632.17	
15,061.00	90.60	357.94	10,350.90	4,727.01	4,726.30	-89.58	1.25	358.91	4,727.15	
15,156.00	91.11	358.80	10,349.48	4,821.98	4,821.25	-92.28	1.05	358.90	4,822.13	
15,250.00	91.04	358.48	10,347.72	4,915.96	4,915.21	-94.51	0.35	358.90	4,916.12	
15,344.00	91.14	357.76	10,345.93	5,009.92	5,009.14	-97.59	0.77	358.88	5,010.09	
15,439.00	90.37	358.24	10,344.68	5,104.88	5,104.07	-100.91	0.96	358.87	5,105.07	
15,532.00	90.50	358.23	10,343.97	5,197.86	5,197.03	-103.77	0.14	358.86	5,198.06	
15,626.00	90.34	358.32	10,343.28	5,291.84	5,290.98	-106.60	0.20	358.85	5,292.06	
15,722.00	89.97	359.80	10,343.02	5,387.84	5,386.97	-108.18	1.59	358.85	5,388.05	
15,816.00	90.20	1.07	10,342.88	5,481.82	5,480.96	-107.46	1.37	358.88	5,482.01	
15,910.00	87.96	1.06	10,344.39	5,575.76	5,574.93	-105.72	2.38	358.91	5,575.93	
16,005.00	88.45	1.53	10,347.37	5,670.66	5,669.85	-103.57	0.71	358.95	5,670.80	
16,100.00	88.86	1.84	10,349.60	5,765.55	5,764.79	-100.78	0.54	359.00	5,765.67	
16,195.00	89.76	2.16	10,350.74	5,860.44	5,859.72	-97.46	1.01	359.05	5,860.53	
16,289.00	90.30	2.95	10,350.69	5,954.30	5,953.63	-93.27	1.02	359.10	5,954.36	
16,384.00	89.87	0.36	10,350.55	6,049.21	6,048.58	-90.53	2.76	359.14	6,049.26	
16,479.00	90.13	0.12	10,350.55	6,144.20	6,143.58	-90.13	0.37	359.16	6,144.24	
16,573.00	90.57	0.71	10,349.98	6,238.18	6,237.57	-89.45	0.78	359.18	6,238.21	
16,668.00	90.50	359.76	10,349.09	6,333.17	6,332.57	-89.06	1.00	359.19	6,333.19	
16,762.00	90.33	359.12	10,348.41	6,427.16	6,426.56	-89.98	0.70	359.20	6,427.19	
16,856.00	90.74	358.94	10,347.53	6,521.16	6,520.54	-91.57	0.48	359.20	6,521.18	

Scientific Drilling, Intl
Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
16,950.00	90.94	358.22	10,346.15	6,615.14	6,614.50	-93.90	0.79	359.19	6,615.17	
17,045.00	91.64	359.28	10,344.01	6,710.11	6,709.45	-95.97	1.34	359.18	6,710.14	
17,139.00	89.66	358.11	10,342.95	6,804.09	6,803.42	-98.11	2.45	359.17	6,804.12	
17,233.00	89.56	357.96	10,343.59	6,898.06	6,897.36	-101.34	0.19	359.16	6,898.10	
17,328.00	90.00	358.23	10,343.95	6,993.04	6,992.31	-104.49	0.54	359.14	6,993.09	
17,335.13	90.04	358.21	10,343.95	7,000.17	6,999.44	-104.71	0.56	359.14	7,000.22	
T1[AI214H]										
17,423.00	90.47	357.99	10,343.56	7,088.01	7,087.25	-107.63	0.56	359.13	7,088.07	
17,516.00	89.10	358.27	10,343.91	7,180.99	7,180.20	-110.66	1.50	359.12	7,181.05	
17,612.00	89.30	357.85	10,345.25	7,276.95	7,276.14	-113.91	0.48	359.10	7,277.03	
17,706.00	89.43	357.70	10,346.29	7,370.91	7,370.06	-117.56	0.21	359.09	7,371.00	
17,799.00	89.73	357.66	10,346.97	7,463.87	7,462.98	-121.32	0.33	359.07	7,463.97	
17,894.00	90.77	358.21	10,346.56	7,558.84	7,557.92	-124.75	1.24	359.05	7,558.95	
17,989.00	91.41	358.36	10,344.75	7,653.80	7,652.86	-127.59	0.69	359.04	7,653.92	
18,083.00	90.74	358.55	10,342.99	7,747.77	7,746.80	-130.12	0.74	359.04	7,747.90	
18,178.00	91.04	358.44	10,341.51	7,842.75	7,841.76	-132.62	0.34	359.03	7,842.88	
18,272.00	90.70	359.74	10,340.09	7,936.74	7,935.73	-134.11	1.43	359.03	7,936.87	
18,367.00	90.34	0.75	10,339.22	8,031.72	8,030.73	-133.71	1.13	359.05	8,031.84	
18,461.00	91.61	1.94	10,337.62	8,125.65	8,124.69	-131.50	1.85	359.07	8,125.75	
18,555.00	90.37	1.66	10,336.00	8,219.55	8,218.62	-128.55	1.35	359.10	8,219.63	
18,650.00	89.93	1.28	10,335.75	8,314.48	8,313.59	-126.11	0.61	359.13	8,314.55	
18,745.00	90.37	1.11	10,335.50	8,409.43	8,408.57	-124.13	0.50	359.15	8,409.49	
18,839.00	90.60	1.18	10,334.71	8,503.38	8,502.55	-122.25	0.26	359.18	8,503.43	
18,934.00	91.07	0.80	10,333.32	8,598.33	8,597.52	-120.61	0.64	359.20	8,598.37	
19,028.00	90.30	1.26	10,332.20	8,692.29	8,691.50	-118.92	0.95	359.22	8,692.31	
19,123.00	90.94	1.58	10,331.17	8,787.22	8,786.46	-116.57	0.75	359.24	8,787.24	
19,217.00	88.32	1.78	10,331.78	8,881.13	8,880.41	-113.81	2.80	359.27	8,881.14	

Scientific Drilling, Intl Regulatory Report (Grid)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 214H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Site:	Aleutian 10-3 Fed Com	MD Reference:	KB = 25' @ 3443.00usft (Rig KB)
Well:	214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
19,312.00	89.13	1.86	10,333.89	8,976.02	8,975.34	-110.79	0.86	359.29	8,976.03
19,406.00	89.73	1.01	10,334.83	9,069.95	9,069.31	-108.44	1.11	359.31	9,069.95
19,499.00	89.23	0.19	10,335.67	9,162.93	9,162.30	-107.47	1.03	359.33	9,162.93
19,593.00	89.90	359.97	10,336.39	9,256.91	9,256.29	-107.33	0.75	359.34	9,256.92
19,687.00	90.67	359.79	10,335.92	9,350.91	9,350.29	-107.53	0.84	359.34	9,350.91
19,782.00	90.50	358.56	10,334.95	9,445.90	9,445.27	-108.90	1.31	359.34	9,445.90
19,873.00	90.71	357.39	10,333.99	9,536.87	9,536.21	-112.11	1.31	359.33	9,536.87
19,969.00	91.11	357.74	10,332.46	9,632.81	9,632.11	-116.19	0.55	359.31	9,632.81
20,064.00	91.07	357.75	10,330.65	9,727.75	9,727.02	-119.93	0.04	359.29	9,727.76
20,158.00	91.55	357.79	10,328.51	9,821.69	9,820.93	-123.59	0.51	359.28	9,821.70
20,252.00	90.44	358.48	10,326.87	9,915.66	9,914.86	-126.65	1.39	359.27	9,915.67
20,269.19	90.54	358.61	10,326.73	9,932.84	9,932.04	-127.08	0.98	359.27	9,932.86
BHL[AI\214H]									
20,347.00	91.01	359.22	10,325.67	10,010.64	10,009.83	-128.55	0.98	359.26	10,010.66
FINAL MWD Surveys (20347.00'MD)									
20,452.00	91.01	359.22	10,323.82	10,115.63	10,114.81	-129.98	0.00	359.26	10,115.64
FINAL Proj. to Bit (20452.00' MD) - BHL.FINAL[AI\214H]									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,347.00	10,325.67	10,009.83	-128.55	FINAL MWD Surveys (20347.00'MD)
20,452.00	10,323.82	10,114.81	-129.98	FINAL Proj. to Bit (20452.00' MD)

Checked By: _____	Approved By: _____	Date: _____
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