Rec'd 11/30/2020 - NMOCD

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM77046

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
ALEUTIAN 10-3 FED COM 613H

2. Name of Operator
DEVON ENERGY PRODUCTION COM LP
Contact: JENNY HARMS
E-Mail: jennifer.harms@dvn.com

9. API Well No.
30-015-47398-00-X1

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

3b. Phone No. (include area code)
Ph: 405-552-6560

10. Field and Pool or Exploratory Area
WC-015G-08 S233102C-WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 10 T23S R31E SWSE 640FSL 1747FEL
32.313503 N Lat, 103.762779 W Lon

11. County or Parish, State
EDDY COUNTY, 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 to Original APD
	☐ 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed 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 determined that the site is ready for final inspection.

TVD/MD CHANGE

Devon Energy Production Co., L.P. (Devon) respectfully requests to change the TVD/MD on the subject well. Please see attached revised Drill plan, directional plan.

PERMITTED TVD/MD: 11415/21686
PROPOSED TVD/MD: 11620/21946

Accepted - KMS NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #537576 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COM LP, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/19/2020 (21PP0615SE)

Name *(Printed/Typed)* JENNY HARMS — Title REGULATORY COMPLIANCE ANALYST

Signature (Electronic Submission) — Date 11/16/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By LONG VO — Title PETROLEUM ENGINEER — Date 11/22/2020

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

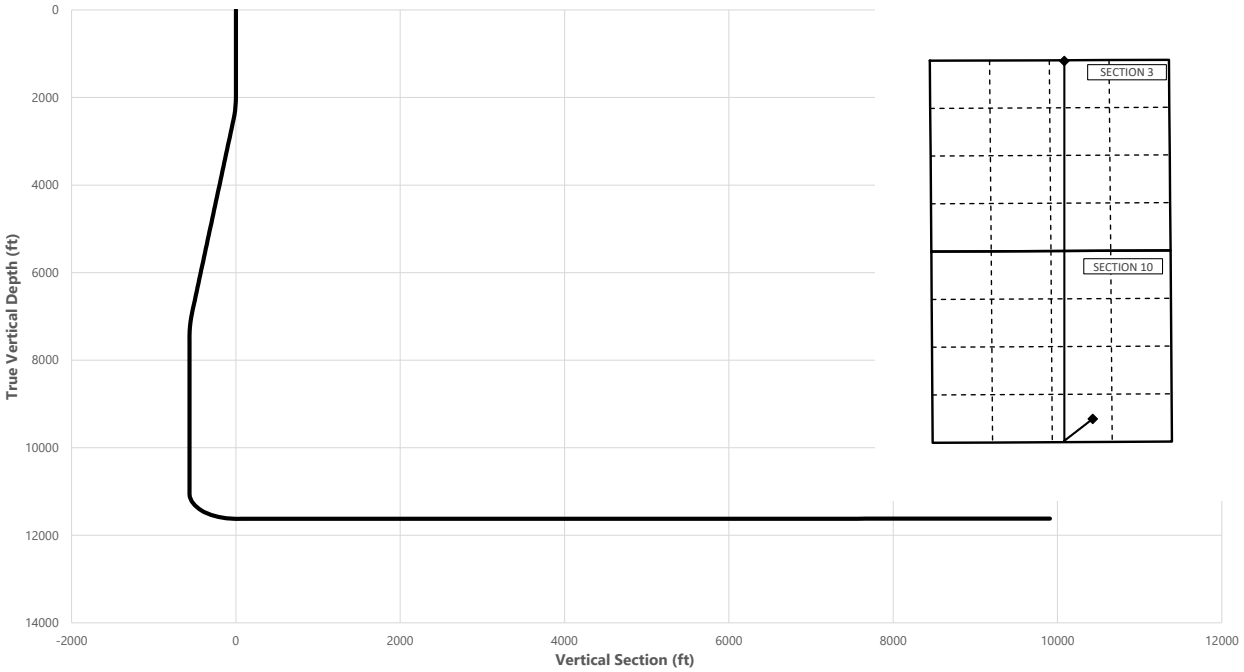
Revisions to Operator-Submitted EC Data for Sundry Notice #537576

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM077046	NMNM77046
Agreement:		
Operator:	DEVON ENERGY PRODUCTION CO LP 333 W SHERIDAN AVE OKLAHOMA CITY, OK 73102 Ph: 405-552-6560	DEVON ENERGY PRODUCTION COM LP 333 WEST SHERIDAN AVENUE OKLAHOMA CITY, OK 73102 Ph: 405 552 6571
Admin Contact:	JENNY HARMS REGULATORY COMPLIANCE ANALYST E-Mail: jennifer.harms@dvn.com Ph: 405-552-6560	JENNY HARMS REGULATORY COMPLIANCE ANALYST E-Mail: jennifer.harms@dvn.com Ph: 405-552-6560
Tech Contact:	JENNY HARMS REGULATORY COMPLIANCE ANALYST E-Mail: jennifer.harms@dvn.com Ph: 405-552-6560	JENNY HARMS REGULATORY COMPLIANCE ANALYST E-Mail: jennifer.harms@dvn.com Ph: 405-552-6560
Location: State: County:	 NM EDDY	 NM EDDY
Field/Pool:	WC-015 G-08 S233102C; WOL	WC-015G-08 S233102C-WOLFCAMP
Well/Facility:	ALEUTIAN 10-3 FED COM 613H Sec 10 T23S R31E SWSE 640FSL 1747FEL	ALEUTIAN 10-3 FED COM 613H Sec 10 T23S R31E SWSE 640FSL 1747FEL 32.313503 N Lat, 103.762779 W Lon

Well: ALEUTIAN 10-3 FED COM 613H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

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

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	226.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	226.00	2497.47	-30.23	-31.31	-28.19	1.00	Hold Tangent
7020.45	10.00	226.00	6949.24	-575.52	-595.97	-536.63	0.00	Drop to Vertical
7520.45	0.00	226.00	7446.71	-605.75	-627.27	-564.82	2.00	Hold Vertical
11125.79	0.00	0.00	11052.04	-605.75	-627.27	-564.82	0.00	KOP
12026.08	90.03	0.00	11625.00	-32.50	-627.27	7.27	10.00	Landing Point
21946.28	90.03	0.00	11620.00	9887.69	-627.27	9907.57	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	0.00	0.00
Salt	885.00	885.00
Lamar	4086.64	4060.00
Bell Canyon	4086.64	4060.00
Cherry Canyon	5228.99	5185.00
Brushy Canyon	6549.05	6485.00
1st Bone Spring Lime	8208.75	8135.00
Bone Spring 1st	9308.75	9235.00
Bone Spring 2nd	9808.75	9735.00
3rd Bone Spring Lime	10358.75	10285.00
Bone Spring 3rd	11058.75	10985.00
Woflcamp / Point of Penetration	11572.71	11455.00
Exit	21866.28	11620.05

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.3134	-103.7629	640' FSL, 1747' FEL of Sec 10 in T23S, R31E
KOP	11125.79	11052.04	32.3118	-103.7649	38' FSL, 2310' FEL of Sec 10 in T23S, R31E
Point of Penetration	11572.71	11455.00	32.3120	-103.7646	100' FSL, 2310' FEL of Sec 10 in T23S, R31E
Exit	21866.28	11620.05	32.3405	-103.7646	100' FNL, 2310' FEL of Sec 3 in T23S, R31E
BHL	21946.28	11620.00	32.3406	-103.7647	20' FNL, 2310' FEL of Sec 3 in T23S, R31E

devon

Well: ALEUTIAN 10-3 FED COM 613H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

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

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	226.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	226.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	226.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	226.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	226.00	500.00	0.00	0.00	0.00	0.00	
545.00	0.00	226.00	545.00	0.00	0.00	0.00	0.00	Rustler
600.00	0.00	226.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	226.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	226.00	800.00	0.00	0.00	0.00	0.00	
885.00	0.00	226.00	885.00	0.00	0.00	0.00	0.00	Salt
900.00	0.00	226.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	226.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	226.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	226.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	226.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	226.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	226.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	226.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	226.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	226.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	226.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	226.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	226.00	2099.98	-1.21	-1.26	-1.13	2.00	
2200.00	4.00	226.00	2199.84	-4.85	-5.02	-4.52	2.00	
2300.00	6.00	226.00	2299.45	-10.90	-11.29	-10.17	2.00	
2400.00	8.00	226.00	2398.70	-19.37	-20.06	-18.06	2.00	
2500.00	10.00	226.00	2497.47	-30.23	-31.31	-28.19	1.00	Hold Tangent
2600.00	10.00	226.00	2595.95	-42.30	-43.80	-39.44	0.00	
2700.00	10.00	226.00	2694.43	-54.36	-56.29	-50.69	0.00	
2800.00	10.00	226.00	2792.91	-66.42	-68.78	-61.93	0.00	
2900.00	10.00	226.00	2891.39	-78.48	-81.27	-73.18	0.00	
3000.00	10.00	226.00	2989.87	-90.55	-93.76	-84.43	0.00	
3100.00	10.00	226.00	3088.35	-102.61	-106.25	-95.68	0.00	
3200.00	10.00	226.00	3186.83	-114.67	-118.75	-106.92	0.00	
3300.00	10.00	226.00	3285.31	-126.73	-131.24	-118.17	0.00	
3400.00	10.00	226.00	3383.79	-138.80	-143.73	-129.42	0.00	
3500.00	10.00	226.00	3482.27	-150.86	-156.22	-140.67	0.00	
3600.00	10.00	226.00	3580.75	-162.92	-168.71	-151.91	0.00	
3700.00	10.00	226.00	3679.23	-174.99	-181.20	-163.16	0.00	
3800.00	10.00	226.00	3777.72	-187.05	-193.69	-174.41	0.00	
3900.00	10.00	226.00	3876.20	-199.11	-206.18	-185.66	0.00	
4000.00	10.00	226.00	3974.68	-211.17	-218.67	-196.90	0.00	
4086.64	10.00	226.00	4060.00	-221.62	-229.50	-206.65	0.00	Lamar, Bell Canyon
4100.00	10.00	226.00	4073.16	-223.24	-231.17	-208.15	0.00	
4200.00	10.00	226.00	4171.64	-235.30	-243.66	-219.40	0.00	
4300.00	10.00	226.00	4270.12	-247.36	-256.15	-230.65	0.00	
4400.00	10.00	226.00	4368.60	-259.42	-268.64	-241.89	0.00	
4500.00	10.00	226.00	4467.08	-271.49	-281.13	-253.14	0.00	
4600.00	10.00	226.00	4565.56	-283.55	-293.62	-264.39	0.00	
4700.00	10.00	226.00	4664.04	-295.61	-306.11	-275.64	0.00	
4800.00	10.00	226.00	4762.52	-307.67	-318.60	-286.88	0.00	
4900.00	10.00	226.00	4861.00	-319.74	-331.10	-298.13	0.00	
5000.00	10.00	226.00	4959.48	-331.80	-343.59	-309.38	0.00	
5100.00	10.00	226.00	5057.97	-343.86	-356.08	-320.63	0.00	
5200.00	10.00	226.00	5156.45	-355.92	-368.57	-331.88	0.00	
5228.99	10.00	226.00	5185.00	-359.42	-372.19	-335.14	0.00	Cherry Canyon
5300.00	10.00	226.00	5254.93	-367.99	-381.06	-343.12	0.00	
5400.00	10.00	226.00	5353.41	-380.05	-393.55	-354.37	0.00	
5500.00	10.00	226.00	5451.89	-392.11	-406.04	-365.62	0.00	
5600.00	10.00	226.00	5550.37	-404.18	-418.53	-376.87	0.00	
5700.00	10.00	226.00	5648.85	-416.24	-431.02	-388.11	0.00	
5800.00	10.00	226.00	5747.33	-428.30	-443.52	-399.36	0.00	
5900.00	10.00	226.00	5845.81	-440.36	-456.01	-410.61	0.00	
6000.00	10.00	226.00	5944.29	-452.43	-468.50	-421.86	0.00	
6100.00	10.00	226.00	6042.77	-464.49	-480.99	-433.10	0.00	
6200.00	10.00	226.00	6141.25	-476.55	-493.48	-444.35	0.00	
6300.00	10.00	226.00	6239.73	-488.61	-505.97	-455.60	0.00	
6400.00	10.00	226.00	6338.22	-500.68	-518.46	-466.85	0.00	
6500.00	10.00	226.00	6436.70	-512.74	-530.95	-478.09	0.00	

devon

Well: ALEUTIAN 10-3 FED COM 613H
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
6549.05	10.00	226.00	6485.00	-518.66	-537.08	-483.61	0.00	Brushy Canyon
6600.00	10.00	226.00	6535.18	-524.80	-543.44	-489.34	0.00	
6700.00	10.00	226.00	6633.66	-536.86	-555.94	-500.59	0.00	
6800.00	10.00	226.00	6732.14	-548.93	-568.43	-511.84	0.00	
6900.00	10.00	226.00	6830.62	-560.99	-580.92	-523.08	0.00	
7000.00	10.00	226.00	6929.10	-573.05	-593.41	-534.33	0.00	
7020.45	10.00	226.00	6949.24	-575.52	-595.97	-536.63	0.00	Drop to Vertical
7100.00	8.41	226.00	7027.76	-584.36	-605.12	-544.87	2.00	
7200.00	6.41	226.00	7126.92	-593.31	-614.39	-553.22	2.00	
7300.00	4.41	226.00	7226.47	-599.86	-621.18	-559.33	2.00	
7400.00	2.41	226.00	7326.29	-603.99	-625.45	-563.18	2.00	
7500.00	0.41	226.00	7426.26	-605.70	-627.22	-564.77	2.00	
7520.45	0.00	226.00	7446.71	-605.75	-627.27	-564.82	2.00	Hold Vertical
7600.00	0.00	0.00	7526.25	-605.75	-627.27	-564.82	0.00	
7700.00	0.00	0.00	7626.25	-605.75	-627.27	-564.82	0.00	
7800.00	0.00	0.00	7726.25	-605.75	-627.27	-564.82	0.00	
7900.00	0.00	0.00	7826.25	-605.75	-627.27	-564.82	0.00	
8000.00	0.00	0.00	7926.25	-605.75	-627.27	-564.82	0.00	
8100.00	0.00	0.00	8026.25	-605.75	-627.27	-564.82	0.00	
8200.00	0.00	0.00	8126.25	-605.75	-627.27	-564.82	0.00	
8208.75	0.00	0.00	8135.00	-605.75	-627.27	-564.82	0.00	1st Bone Spring Lime
8300.00	0.00	0.00	8226.25	-605.75	-627.27	-564.82	0.00	
8400.00	0.00	0.00	8326.25	-605.75	-627.27	-564.82	0.00	
8500.00	0.00	0.00	8426.25	-605.75	-627.27	-564.82	0.00	
8600.00	0.00	0.00	8526.25	-605.75	-627.27	-564.82	0.00	
8700.00	0.00	0.00	8626.25	-605.75	-627.27	-564.82	0.00	
8800.00	0.00	0.00	8726.25	-605.75	-627.27	-564.82	0.00	
8900.00	0.00	0.00	8826.25	-605.75	-627.27	-564.82	0.00	
9000.00	0.00	0.00	8926.25	-605.75	-627.27	-564.82	0.00	
9100.00	0.00	0.00	9026.25	-605.75	-627.27	-564.82	0.00	
9200.00	0.00	0.00	9126.25	-605.75	-627.27	-564.82	0.00	
9300.00	0.00	0.00	9226.25	-605.75	-627.27	-564.82	0.00	
9308.75	0.00	0.00	9235.00	-605.75	-627.27	-564.82	0.00	Bone Spring 1st
9400.00	0.00	0.00	9326.25	-605.75	-627.27	-564.82	0.00	
9500.00	0.00	0.00	9426.25	-605.75	-627.27	-564.82	0.00	
9600.00	0.00	0.00	9526.25	-605.75	-627.27	-564.82	0.00	
9700.00	0.00	0.00	9626.25	-605.75	-627.27	-564.82	0.00	
9800.00	0.00	0.00	9726.25	-605.75	-627.27	-564.82	0.00	
9808.75	0.00	0.00	9735.00	-605.75	-627.27	-564.82	0.00	Bone Spring 2nd
9900.00	0.00	0.00	9826.25	-605.75	-627.27	-564.82	0.00	
10000.00	0.00	0.00	9926.25	-605.75	-627.27	-564.82	0.00	
10100.00	0.00	0.00	10026.25	-605.75	-627.27	-564.82	0.00	
10200.00	0.00	0.00	10126.25	-605.75	-627.27	-564.82	0.00	
10300.00	0.00	0.00	10226.25	-605.75	-627.27	-564.82	0.00	
10358.75	0.00	0.00	10285.00	-605.75	-627.27	-564.82	0.00	3rd Bone Spring Lime
10400.00	0.00	0.00	10326.25	-605.75	-627.27	-564.82	0.00	
10500.00	0.00	0.00	10426.25	-605.75	-627.27	-564.82	0.00	
10600.00	0.00	0.00	10526.25	-605.75	-627.27	-564.82	0.00	
10700.00	0.00	0.00	10626.25	-605.75	-627.27	-564.82	0.00	
10800.00	0.00	0.00	10726.25	-605.75	-627.27	-564.82	0.00	
10900.00	0.00	0.00	10826.25	-605.75	-627.27	-564.82	0.00	
11000.00	0.00	0.00	10926.25	-605.75	-627.27	-564.82	0.00	
11058.75	0.00	0.00	10985.00	-605.75	-627.27	-564.82	0.00	Bone Spring 3rd
11100.00	0.00	0.00	11026.25	-605.75	-627.27	-564.82	0.00	
11125.79	0.00	0.00	11052.04	-605.75	-627.27	-564.82	0.00	KOP
11200.00	7.42	0.00	11126.05	-600.95	-627.27	-560.03	10.00	
11300.00	17.42	0.00	11223.58	-579.47	-627.27	-538.59	10.00	
11400.00	27.42	0.00	11315.91	-541.38	-627.27	-500.58	10.00	
11500.00	37.42	0.00	11400.21	-487.83	-627.27	-447.14	10.00	
11572.71	44.69	0.00	11455.00	-440.11	-627.27	-399.51	10.00	Woflcamp / Point of Penetration
11600.00	47.42	0.00	11473.94	-420.46	-627.27	-379.90	10.00	
11700.00	57.42	0.00	11534.85	-341.31	-627.27	-300.91	10.00	
11800.00	67.42	0.00	11581.08	-252.78	-627.27	-212.56	10.00	
11900.00	77.42	0.00	11611.25	-157.57	-627.27	-117.54	10.00	
12000.00	87.42	0.00	11624.42	-58.57	-627.27	-18.74	10.00	
12026.08	90.03	0.00	11625.00	-32.50	-627.27	7.27	10.00	Landing Point
12100.00	90.03	0.00	11624.96	41.42	-627.27	81.05	0.00	
12200.00	90.03	0.00	11624.91	141.42	-627.27	180.85	0.00	
12300.00	90.03	0.00	11624.86	241.42	-627.27	280.65	0.00	
12400.00	90.03	0.00	11624.81	341.42	-627.27	380.45	0.00	

devon

Well: ALEUTIAN 10-3 FED COM 613H
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
12500.00	90.03	0.00	11624.76	441.42	-627.27	480.25	0.00	
12600.00	90.03	0.00	11624.71	541.42	-627.27	580.05	0.00	
12700.00	90.03	0.00	11624.66	641.42	-627.27	679.85	0.00	
12800.00	90.03	0.00	11624.61	741.42	-627.27	779.65	0.00	
12900.00	90.03	0.00	11624.56	841.42	-627.27	879.45	0.00	
13000.00	90.03	0.00	11624.51	941.42	-627.27	979.25	0.00	
13100.00	90.03	0.00	11624.46	1041.42	-627.27	1079.05	0.00	
13200.00	90.03	0.00	11624.41	1141.42	-627.27	1178.84	0.00	
13300.00	90.03	0.00	11624.36	1241.42	-627.27	1278.64	0.00	
13400.00	90.03	0.00	11624.31	1341.42	-627.27	1378.44	0.00	
13500.00	90.03	0.00	11624.26	1441.42	-627.27	1478.24	0.00	
13600.00	90.03	0.00	11624.21	1541.42	-627.27	1578.04	0.00	
13700.00	90.03	0.00	11624.16	1641.42	-627.27	1677.84	0.00	
13800.00	90.03	0.00	11624.11	1741.42	-627.27	1777.64	0.00	
13900.00	90.03	0.00	11624.06	1841.42	-627.27	1877.44	0.00	
14000.00	90.03	0.00	11624.01	1941.42	-627.27	1977.24	0.00	
14100.00	90.03	0.00	11623.96	2041.42	-627.27	2077.04	0.00	
14200.00	90.03	0.00	11623.91	2141.42	-627.27	2176.84	0.00	
14300.00	90.03	0.00	11623.86	2241.42	-627.27	2276.64	0.00	
14400.00	90.03	0.00	11623.81	2341.42	-627.27	2376.44	0.00	
14500.00	90.03	0.00	11623.76	2441.42	-627.27	2476.24	0.00	
14600.00	90.03	0.00	11623.71	2541.42	-627.27	2576.04	0.00	
14700.00	90.03	0.00	11623.66	2641.42	-627.27	2675.83	0.00	
14800.00	90.03	0.00	11623.61	2741.42	-627.27	2775.63	0.00	
14900.00	90.03	0.00	11623.56	2841.42	-627.27	2875.43	0.00	
15000.00	90.03	0.00	11623.51	2941.42	-627.27	2975.23	0.00	
15100.00	90.03	0.00	11623.45	3041.42	-627.27	3075.03	0.00	
15200.00	90.03	0.00	11623.40	3141.42	-627.27	3174.83	0.00	
15300.00	90.03	0.00	11623.35	3241.42	-627.27	3274.63	0.00	
15400.00	90.03	0.00	11623.30	3341.42	-627.27	3374.43	0.00	
15500.00	90.03	0.00	11623.25	3441.42	-627.27	3474.23	0.00	
15600.00	90.03	0.00	11623.20	3541.42	-627.27	3574.03	0.00	
15700.00	90.03	0.00	11623.15	3641.42	-627.27	3673.83	0.00	
15800.00	90.03	0.00	11623.10	3741.42	-627.27	3773.63	0.00	
15900.00	90.03	0.00	11623.05	3841.42	-627.27	3873.43	0.00	
16000.00	90.03	0.00	11623.00	3941.42	-627.27	3973.23	0.00	
16100.00	90.03	0.00	11622.95	4041.42	-627.27	4073.03	0.00	
16200.00	90.03	0.00	11622.90	4141.42	-627.27	4172.82	0.00	
16300.00	90.03	0.00	11622.85	4241.42	-627.27	4272.62	0.00	
16400.00	90.03	0.00	11622.80	4341.42	-627.27	4372.42	0.00	
16500.00	90.03	0.00	11622.75	4441.42	-627.27	4472.22	0.00	
16600.00	90.03	0.00	11622.70	4541.42	-627.27	4572.02	0.00	
16700.00	90.03	0.00	11622.65	4641.42	-627.27	4671.82	0.00	
16800.00	90.03	0.00	11622.60	4741.42	-627.27	4771.62	0.00	
16900.00	90.03	0.00	11622.55	4841.42	-627.27	4871.42	0.00	
17000.00	90.03	0.00	11622.50	4941.42	-627.27	4971.22	0.00	
17100.00	90.03	0.00	11622.45	5041.42	-627.27	5071.02	0.00	
17200.00	90.03	0.00	11622.40	5141.42	-627.27	5170.82	0.00	
17300.00	90.03	0.00	11622.35	5241.42	-627.27	5270.62	0.00	
17400.00	90.03	0.00	11622.30	5341.42	-627.27	5370.42	0.00	
17500.00	90.03	0.00	11622.25	5441.42	-627.27	5470.22	0.00	
17600.00	90.03	0.00	11622.20	5541.42	-627.27	5570.02	0.00	
17700.00	90.03	0.00	11622.15	5641.42	-627.27	5669.82	0.00	
17800.00	90.03	0.00	11622.10	5741.42	-627.27	5769.61	0.00	
17900.00	90.03	0.00	11622.05	5841.42	-627.27	5869.41	0.00	
18000.00	90.03	0.00	11622.00	5941.42	-627.27	5969.21	0.00	
18100.00	90.03	0.00	11621.95	6041.42	-627.27	6069.01	0.00	
18200.00	90.03	0.00	11621.90	6141.42	-627.27	6168.81	0.00	
18300.00	90.03	0.00	11621.85	6241.42	-627.27	6268.61	0.00	
18400.00	90.03	0.00	11621.80	6341.42	-627.27	6368.41	0.00	
18500.00	90.03	0.00	11621.75	6441.42	-627.27	6468.21	0.00	
18600.00	90.03	0.00	11621.70	6541.42	-627.27	6568.01	0.00	
18700.00	90.03	0.00	11621.65	6641.42	-627.27	6667.81	0.00	
18800.00	90.03	0.00	11621.59	6741.42	-627.27	6767.61	0.00	
18900.00	90.03	0.00	11621.54	6841.42	-627.27	6867.41	0.00	
19000.00	90.03	0.00	11621.49	6941.42	-627.27	6967.21	0.00	
19100.00	90.03	0.00	11621.44	7041.42	-627.27	7067.01	0.00	
19200.00	90.03	0.00	11621.39	7141.42	-627.27	7166.81	0.00	
19300.00	90.03	0.00	11621.34	7241.42	-627.27	7266.60	0.00	
19400.00	90.03	0.00	11621.29	7341.42	-627.27	7366.40	0.00	

devon

Well: ALEUTIAN 10-3 FED COM 613H
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
19500.00	90.03	0.00	11621.24	7441.42	-627.27	7466.20	0.00	
19600.00	90.03	0.00	11621.19	7541.42	-627.27	7566.00	0.00	
19700.00	90.03	0.00	11621.14	7641.42	-627.27	7665.80	0.00	
19800.00	90.03	0.00	11621.09	7741.42	-627.27	7765.60	0.00	
19900.00	90.03	0.00	11621.04	7841.42	-627.27	7865.40	0.00	
20000.00	90.03	0.00	11620.99	7941.42	-627.27	7965.20	0.00	
20100.00	90.03	0.00	11620.94	8041.42	-627.27	8065.00	0.00	
20200.00	90.03	0.00	11620.89	8141.42	-627.27	8164.80	0.00	
20300.00	90.03	0.00	11620.84	8241.42	-627.27	8264.60	0.00	
20400.00	90.03	0.00	11620.79	8341.42	-627.27	8364.40	0.00	
20500.00	90.03	0.00	11620.74	8441.42	-627.27	8464.20	0.00	
20600.00	90.03	0.00	11620.69	8541.42	-627.27	8564.00	0.00	
20700.00	90.03	0.00	11620.64	8641.42	-627.27	8663.80	0.00	
20800.00	90.03	0.00	11620.59	8741.42	-627.27	8763.60	0.00	
20900.00	90.03	0.00	11620.54	8841.42	-627.27	8863.39	0.00	
21000.00	90.03	0.00	11620.49	8941.42	-627.27	8963.19	0.00	
21100.00	90.03	0.00	11620.44	9041.42	-627.27	9062.99	0.00	
21200.00	90.03	0.00	11620.39	9141.42	-627.27	9162.79	0.00	
21300.00	90.03	0.00	11620.34	9241.42	-627.27	9262.59	0.00	
21400.00	90.03	0.00	11620.29	9341.42	-627.27	9362.39	0.00	
21500.00	90.03	0.00	11620.24	9441.42	-627.27	9462.19	0.00	
21600.00	90.03	0.00	11620.19	9541.42	-627.27	9561.99	0.00	
21700.00	90.03	0.00	11620.14	9641.42	-627.27	9661.79	0.00	
21800.00	90.03	0.00	11620.09	9741.42	-627.27	9761.59	0.00	
21866.28	90.03	0.00	11620.05	9807.69	-627.27	9827.73	0.00	Exit
21900.00	90.03	0.00	11620.04	9841.42	-627.27	9861.39	0.00	
21946.28	90.03	0.00	11620.00	9887.69	-627.27	9907.57	0.00	BHL

1. Geologic Formations

TVD of target	11620	Pilot hole depth	N/A
MD at TD:	21946	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	545		
Salt	885		
Lamar	4060		
Bell Canyon	4060		
Cherry Canyon	5185		
Brushy Canyon	6485		
1st Bone Spring Lime	8135		
Bone Spring 1st	9235		
Bone Spring 2nd	9735		
3rd Bone Spring Lime	10285		
Bone Spring 3rd	10985		
Woflcamp	11455		

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

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	570	0	570
9 7/8	8 5/8	32	P110	TLW	0	10985	0	10985
7 7/8	5 1/2	17	P110	BTC	0	21946	0	11620

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	451	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	405	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	405	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	9126	9	3.27	Lead: Class H /C + additives
	1432	11126	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

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

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6345
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

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

Attachments

X Directional Plan

_____ Other, describe