

Well Name: MUSKIE 23-11 FED COM	Well Location: T26S / R34E / SEC 23 / SENW / 32.029792 / -103.443792	County or Parish/State: LEA / NM
Well Number: 9H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM100568	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547419	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2755304

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/06/2023

Time Sundry Submitted: 02:19

Date proposed operation will begin: 10/06/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: SHL change from 2316 FNL & 1662 FWL to 2316 FNL & 1642 FWL, both 23-26S-34E. Casing and cement program unchanged. Please see attached revised C-102, and drilling & directional plans.

NOI Attachments

Procedure Description

MUSKIE_23_11_FED_COM_9H_C_102_SHL_NOI_20231024090141.pdf

Muskie_23_11_Fed_Com_9H_Directional_Plan_08_22_23_20231006141657.pdf

Muskie_23_11_Fed_Com_9H_Drl_Plan_20231006141656.pdf

Well Number: 9H**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMNM100568**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3002547419**Well Status:** Approved Application for
Permit to Drill**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: REBECCA DEAL**Signed on:** OCT 24, 2023 09:02 AM**Name:** DEVON ENERGY PRODUCTION COMPANY LP**Title:** Regulatory Analyst**Street Address:** 333 W SHERIDAN AVE**City:** OKLAHOMA CITY**State:** OK**Phone:** (303) 299-1406**Email address:** REBECCA.DEAL@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:** 11/17/2023**Signature:** Chris Walls

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47419	Pool Code 96661	Pool Name HARDIN TANK; BONE SPRING
Property Code 328845	Property Name MUSKIE 23-11 FED COM	Well Number 9H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3208.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	23	26-S	34-E		2316	NORTH	1642	WEST	LEA

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
D	11	26-S	34-E		20	NORTH	500	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
800			

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

MUSKIE 23-11 FED COM 9H

EL: 3208.9'
N:375711.84
E:816950.27
LAT:32.029793
LON:103.443954

KICK OFF POINT
CALLS: 2558' FNL, 500' FWL

N: 375465
E: 815810
LAT: 32.0290
LON: -103.4477

FIRST TAKE POINT (PPP 1)

2539' FNL 500' FWL SEC. 23
N:375483.66
E:815810.16
LAT:32.029192
LON:103.447638

LAST TAKE POINT

100' FNL 500' FWL SEC. 11
N:388484.61
E:815700.12
LAT:32.064929
LON:103.447649

BOTTOM OF HOLE

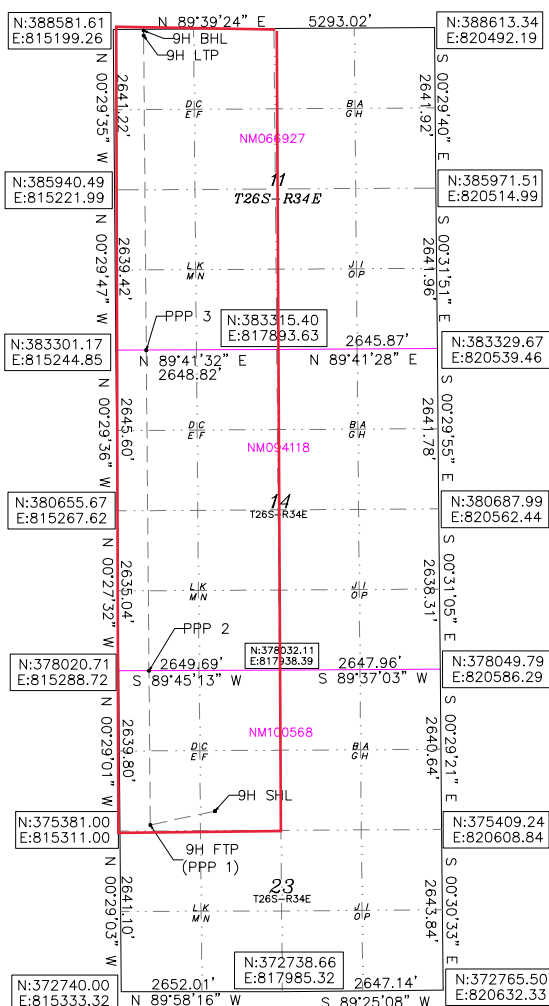
N:388564.61
E:815699.43
LAT:32.065149
LON:103.447649

(PPP 2)

0' FSL 500' FWL SEC. 14
N:378022.86
E:815788.66
LAT:32.036171
LON:103.447641

(PPP 3)

0' FSL 499' FWL SEC. 11
N:383303.85
E:815743.97
LAT:32.050688
LON:103.447645



OPERATOR CERTIFICATION

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

Rebecca Deal 10/6/2023
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

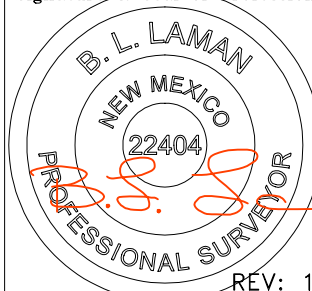
SURVEYOR CERTIFICATION

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

07/2023

Date of Survey

Signature & Seal of Professional Surveyor



REV: 10/06/23

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☒ As Drilled ☐

API # 30-025-47419		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: MUSKIE 23-11 FED COM	Well Number 9H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	23	26S	34E		2558	FNL	500	FWL	LEA
Latitude 32.0290					Longitude -103.4477				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	23	26-S	34-E		2539	NORTH	660	WEST	LEA
Latitude 32.029190					Longitude 103.447122				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	11	26-S	34-E		100	NORTH	660	WEST	LEA
Latitude 32.064928					Longitude 103.447133				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒Is this well an infill well? ☐

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

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: MUSKIE 23-11 FED COM	Well Number 12H

KZ 06/29/2018

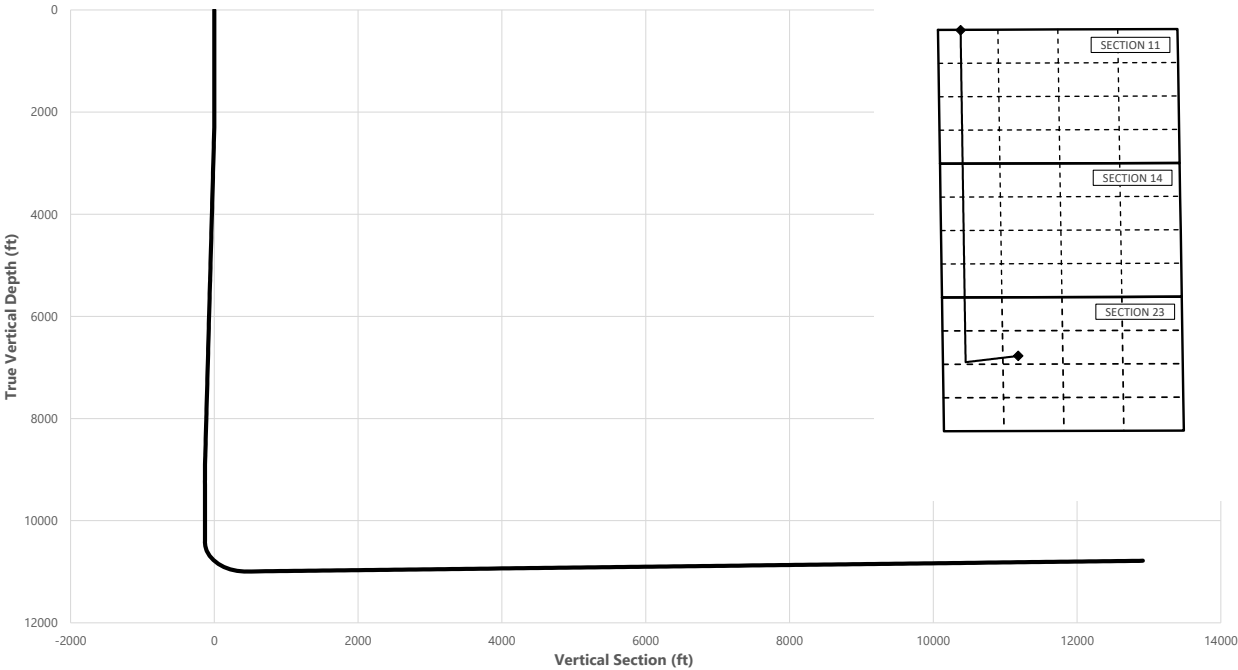
Muskie 23-11 Fed Com 9H



Well: Muskie 23-11 Fed Com 9H
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	258.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	258.00	2497.47	-9.05	-42.57	-4.82	2.00	Hold Tangent
8827.87	10.00	258.00	8729.20	-237.51	-1117.38	-126.41	0.00	Drop to Vertical
9327.87	0.00	258.00	9226.67	-246.56	-1159.95	-131.23	2.00	Hold Vertical
10523.33	0.00	359.52	10422.12	-246.56	-1159.95	-131.23	0.00	KOP
11432.94	90.96	359.52	10995.00	335.99	-1164.89	448.98	10.00	Landing Point
23951.85	90.96	359.52	10785.00	12852.69	-1270.84	12915.37	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	890.00	890.00
Salt	1250.00	1250.00
Base of Salt	5041.14	5000.00
Delaware	5345.77	5300.00
Cherry Canyon	6396.73	6335.00
Brushy Canyon	8062.03	7975.00
1st Bone Spring Lime	9506.20	9405.00
Bone Spring 1st / Point of Penetratic	10672.90	10570.00
exit	23871.85	10786.36

SHL
KOP
Point of Penetration
Exit
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.0297	-103.4440	2316' FNL, 1662' FWL of Sec 23 in T26S, R34E
10523.33	10422.12	32.0290	-103.4477	2558' FNL, 500' FWL of Sec 23 in T26S, R34E
10672.90	10570.00	32.0292	-103.4476	2539' FNL, 500' FWL of Sec 23 in T26S, R34E
23871.85	10786.36	32.0649	-103.4476	100' FNL, 500' FWL of Sec 11 in T26S, R34E
23951.85	10785.00	32.0651	-103.4477	20' FNL, 500' FWL of Sec 11 in T26S, R34E

	Y	X	MD
KOP	375465	815810	10523.33

Muskie 23-11 Fed Com 9H



Well: Muskie 23-11 Fed Com 9H
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	258.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	258.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	258.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	258.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	258.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	258.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	258.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	258.00	800.00	0.00	0.00	0.00	0.00	
890.00	0.00	258.00	890.00	0.00	0.00	0.00	0.00	Rustler
900.00	0.00	258.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	258.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	258.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	258.00	1200.00	0.00	0.00	0.00	0.00	
1250.00	0.00	258.00	1250.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	258.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	258.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	258.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	258.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	258.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	258.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	258.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	258.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	258.00	2099.98	-0.36	-1.71	-0.19	2.00	
2200.00	4.00	258.00	2199.84	-1.45	-6.83	-0.77	2.00	
2300.00	6.00	258.00	2299.45	-3.26	-15.35	-1.74	2.00	
2400.00	8.00	258.00	2398.70	-5.80	-27.27	-3.09	2.00	
2500.00	10.00	258.00	2497.47	-9.05	-42.57	-4.82	2.00	Hold Tangent
2600.00	10.00	258.00	2595.95	-12.66	-59.56	-6.74	0.00	
2700.00	10.00	258.00	2694.43	-16.27	-76.54	-8.66	0.00	
2800.00	10.00	258.00	2792.91	-19.88	-93.53	-10.58	0.00	
2900.00	10.00	258.00	2891.39	-23.49	-110.51	-12.50	0.00	
3000.00	10.00	258.00	2989.87	-27.10	-127.50	-14.42	0.00	
3100.00	10.00	258.00	3088.35	-30.71	-144.48	-16.35	0.00	
3200.00	10.00	258.00	3186.83	-34.32	-161.47	-18.27	0.00	
3300.00	10.00	258.00	3285.31	-37.93	-178.45	-20.19	0.00	
3400.00	10.00	258.00	3383.79	-41.54	-195.44	-22.11	0.00	
3500.00	10.00	258.00	3482.27	-45.15	-212.42	-24.03	0.00	
3600.00	10.00	258.00	3580.75	-48.76	-229.41	-25.95	0.00	
3700.00	10.00	258.00	3679.23	-52.37	-246.40	-27.87	0.00	
3800.00	10.00	258.00	3777.72	-55.98	-263.38	-29.80	0.00	
3900.00	10.00	258.00	3876.20	-59.59	-280.37	-31.72	0.00	
4000.00	10.00	258.00	3974.68	-63.21	-297.35	-33.64	0.00	
4100.00	10.00	258.00	4073.16	-66.82	-314.34	-35.56	0.00	
4200.00	10.00	258.00	4171.64	-70.43	-331.32	-37.48	0.00	
4300.00	10.00	258.00	4270.12	-74.04	-348.31	-39.40	0.00	
4400.00	10.00	258.00	4368.60	-77.65	-365.29	-41.33	0.00	
4500.00	10.00	258.00	4467.08	-81.26	-382.28	-43.25	0.00	
4600.00	10.00	258.00	4565.56	-84.87	-399.26	-45.17	0.00	
4700.00	10.00	258.00	4664.04	-88.48	-416.25	-47.09	0.00	
4800.00	10.00	258.00	4762.52	-92.09	-433.23	-49.01	0.00	
4900.00	10.00	258.00	4861.00	-95.70	-450.22	-50.93	0.00	
5000.00	10.00	258.00	4959.48	-99.31	-467.20	-52.85	0.00	
5041.14	10.00	258.00	5000.00	-100.79	-474.19	-53.65	0.00	Base of Salt
5100.00	10.00	258.00	5057.97	-102.92	-484.19	-54.78	0.00	
5200.00	10.00	258.00	5156.45	-106.53	-501.18	-56.70	0.00	
5300.00	10.00	258.00	5254.93	-110.14	-518.16	-58.62	0.00	
5345.77	10.00	258.00	5300.00	-111.79	-525.93	-59.50	0.00	Delaware
5400.00	10.00	258.00	5353.41	-113.75	-535.15	-60.54	0.00	
5500.00	10.00	258.00	5451.89	-117.36	-552.13	-62.46	0.00	
5600.00	10.00	258.00	5550.37	-120.97	-569.12	-64.38	0.00	
5700.00	10.00	258.00	5648.85	-124.58	-586.10	-66.31	0.00	
5800.00	10.00	258.00	5747.33	-128.19	-603.09	-68.23	0.00	
5900.00	10.00	258.00	5845.81	-131.80	-620.07	-70.15	0.00	
6000.00	10.00	258.00	5944.29	-135.41	-637.06	-72.07	0.00	
6100.00	10.00	258.00	6042.77	-139.02	-654.04	-73.99	0.00	
6200.00	10.00	258.00	6141.25	-142.63	-671.03	-75.91	0.00	
6300.00	10.00	258.00	6239.73	-146.24	-688.01	-77.84	0.00	
6396.73	10.00	258.00	6335.00	-149.74	-704.44	-79.69	0.00	Cherry Canyon
6400.00	10.00	258.00	6338.22	-149.85	-705.00	-79.76	0.00	

Muskie 23-11 Fed Com 9H



Well: Muskie 23-11 Fed Com 9H
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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)	
6500.00	10.00	258.00	6436.70	-153.47	-721.98	-81.68	0.00	
6600.00	10.00	258.00	6535.18	-157.08	-738.97	-83.60	0.00	
6700.00	10.00	258.00	6633.66	-160.69	-755.96	-85.52	0.00	
6800.00	10.00	258.00	6732.14	-164.30	-772.94	-87.44	0.00	
6900.00	10.00	258.00	6830.62	-167.91	-789.93	-89.36	0.00	
7000.00	10.00	258.00	6929.10	-171.52	-806.91	-91.29	0.00	
7100.00	10.00	258.00	7027.58	-175.13	-823.90	-93.21	0.00	
7200.00	10.00	258.00	7126.06	-178.74	-840.88	-95.13	0.00	
7300.00	10.00	258.00	7224.54	-182.35	-857.87	-97.05	0.00	
7400.00	10.00	258.00	7323.02	-185.96	-874.85	-98.97	0.00	
7500.00	10.00	258.00	7421.50	-189.57	-891.84	-100.89	0.00	
7600.00	10.00	258.00	7519.99	-193.18	-908.82	-102.82	0.00	
7700.00	10.00	258.00	7618.47	-196.79	-925.81	-104.74	0.00	
7800.00	10.00	258.00	7716.95	-200.40	-942.79	-106.66	0.00	
7900.00	10.00	258.00	7815.43	-204.01	-959.78	-108.58	0.00	
8000.00	10.00	258.00	7913.91	-207.62	-976.76	-110.50	0.00	
8062.03	10.00	258.00	7975.00	-209.86	-987.30	-111.69	0.00	Brushy Canyon
8100.00	10.00	258.00	8012.39	-211.23	-993.75	-112.42	0.00	
8200.00	10.00	258.00	8110.87	-214.84	-1010.74	-114.34	0.00	
8300.00	10.00	258.00	8209.35	-218.45	-1027.72	-116.27	0.00	
8400.00	10.00	258.00	8307.83	-222.06	-1044.71	-118.19	0.00	
8500.00	10.00	258.00	8406.31	-225.67	-1061.69	-120.11	0.00	
8600.00	10.00	258.00	8504.79	-229.28	-1078.68	-122.03	0.00	
8700.00	10.00	258.00	8603.27	-232.89	-1095.66	-123.95	0.00	
8800.00	10.00	258.00	8701.75	-236.50	-1112.65	-125.87	0.00	
8827.87	10.00	258.00	8729.20	-237.51	-1117.38	-126.41	0.00	Drop to Vertical
8900.00	8.56	258.00	8800.39	-239.93	-1128.76	-127.69	2.00	
9000.00	6.56	258.00	8899.51	-242.66	-1141.62	-129.15	2.00	
9100.00	4.56	258.00	8999.04	-244.67	-1151.09	-130.22	2.00	
9200.00	2.56	258.00	9098.84	-245.96	-1157.16	-130.91	2.00	
9300.00	0.56	258.00	9198.80	-246.53	-1159.82	-131.21	2.00	
9327.87	0.00	258.00	9226.67	-246.56	-1159.95	-131.23	2.00	Hold Vertical
9400.00	0.00	359.52	9298.80	-246.56	-1159.95	-131.22	0.00	
9500.00	0.00	359.52	9398.80	-246.56	-1159.95	-131.22	0.00	
9506.20	0.00	359.52	9405.00	-246.56	-1159.95	-131.22	0.00	1st Bone Spring Lime
9600.00	0.00	359.52	9498.80	-246.56	-1159.95	-131.22	0.00	
9700.00	0.00	359.52	9598.80	-246.56	-1159.95	-131.22	0.00	
9800.00	0.00	359.52	9698.80	-246.56	-1159.95	-131.22	0.00	
9900.00	0.00	359.52	9798.80	-246.56	-1159.95	-131.22	0.00	
10000.00	0.00	359.52	9898.80	-246.56	-1159.95	-131.22	0.00	
10100.00	0.00	359.52	9998.80	-246.56	-1159.95	-131.22	0.00	
10200.00	0.00	359.52	10098.80	-246.56	-1159.95	-131.22	0.00	
10300.00	0.00	359.52	10198.80	-246.56	-1159.95	-131.22	0.00	
10400.00	0.00	359.52	10298.80	-246.56	-1159.95	-131.22	0.00	
10500.00	0.00	359.52	10398.80	-246.56	-1159.95	-131.22	0.00	
10523.33	0.00	359.52	10422.12	-246.56	-1159.95	-131.23	0.00	KOP
10600.00	7.67	359.52	10498.57	-241.43	-1160.00	-126.12	10.00	
10672.90	14.96	359.52	10570.00	-227.14	-1160.12	-111.89	10.00	Bone Spring 1st / Point of Penetration
10700.00	17.67	359.52	10596.01	-219.53	-1160.18	-104.31	10.00	
10800.00	27.67	359.52	10688.17	-181.05	-1160.51	-65.97	10.00	
10900.00	37.67	359.52	10772.24	-127.14	-1160.97	-12.28	10.00	
11000.00	47.67	359.52	10845.68	-59.45	-1161.54	55.13	10.00	
11100.00	57.67	359.52	10906.25	19.96	-1162.21	134.22	10.00	
11200.00	67.67	359.52	10952.11	108.67	-1162.96	222.58	10.00	
11300.00	77.67	359.52	10981.86	204.01	-1163.77	317.53	10.00	
11400.00	87.67	359.52	10994.61	303.06	-1164.61	416.19	10.00	
11432.94	90.96	359.52	10995.00	335.99	-1164.89	448.98	10.00	Landing Point
11500.00	90.96	359.52	10993.88	403.04	-1165.45	515.77	0.00	
11600.00	90.96	359.52	10992.20	503.03	-1166.30	615.35	0.00	
11700.00	90.96	359.52	10990.52	603.01	-1167.15	714.93	0.00	
11800.00	90.96	359.52	10988.84	702.99	-1167.99	814.51	0.00	
11900.00	90.96	359.52	10987.17	802.97	-1168.84	914.09	0.00	
12000.00	90.96	359.52	10985.49	902.95	-1169.69	1013.67	0.00	
12100.00	90.96	359.52	10983.81	1002.94	-1170.53	1113.25	0.00	
12200.00	90.96	359.52	10982.13	1102.92	-1171.38	1212.83	0.00	
12300.00	90.96	359.52	10980.46	1202.90	-1172.23	1312.41	0.00	
12400.00	90.96	359.52	10978.78	1302.88	-1173.08	1411.99	0.00	
12500.00	90.96	359.52	10977.10	1402.87	-1173.92	1511.57	0.00	
12600.00	90.96	359.52	10975.42	1502.85	-1174.77	1611.15	0.00	
12700.00	90.96	359.52	10973.75	1602.83	-1175.62	1710.73	0.00	

Muskie 23-11 Fed Com 9H



Well: Muskie 23-11 Fed Com 9H
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)	
12800.00	90.96	359.52	10972.07	1702.81	-1176.46	1810.31	0.00	
12900.00	90.96	359.52	10970.39	1802.80	-1177.31	1909.89	0.00	
13000.00	90.96	359.52	10968.72	1902.78	-1178.16	2009.47	0.00	
13100.00	90.96	359.52	10967.04	2002.76	-1179.00	2109.05	0.00	
13200.00	90.96	359.52	10965.36	2102.74	-1179.85	2208.63	0.00	
13300.00	90.96	359.52	10963.68	2202.72	-1180.70	2308.21	0.00	
13400.00	90.96	359.52	10962.01	2302.71	-1181.54	2407.79	0.00	
13500.00	90.96	359.52	10960.33	2402.69	-1182.39	2507.38	0.00	
13600.00	90.96	359.52	10958.65	2502.67	-1183.24	2606.96	0.00	
13700.00	90.96	359.52	10956.97	2602.65	-1184.08	2706.54	0.00	
13800.00	90.96	359.52	10955.30	2702.64	-1184.93	2806.12	0.00	
13900.00	90.96	359.52	10953.62	2802.62	-1185.78	2905.70	0.00	
14000.00	90.96	359.52	10951.94	2902.60	-1186.63	3005.28	0.00	
14100.00	90.96	359.52	10950.26	3002.58	-1187.47	3104.86	0.00	
14200.00	90.96	359.52	10948.59	3102.57	-1188.32	3204.44	0.00	
14300.00	90.96	359.52	10946.91	3202.55	-1189.17	3304.02	0.00	
14400.00	90.96	359.52	10945.23	3302.53	-1190.01	3403.60	0.00	
14500.00	90.96	359.52	10943.56	3402.51	-1190.86	3503.18	0.00	
14600.00	90.96	359.52	10941.88	3502.50	-1191.71	3602.76	0.00	
14700.00	90.96	359.52	10940.20	3602.48	-1192.55	3702.34	0.00	
14800.00	90.96	359.52	10938.52	3702.46	-1193.40	3801.92	0.00	
14900.00	90.96	359.52	10936.85	3802.44	-1194.25	3901.50	0.00	
15000.00	90.96	359.52	10935.17	3902.42	-1195.09	4001.08	0.00	
15100.00	90.96	359.52	10933.49	4002.41	-1195.94	4100.66	0.00	
15200.00	90.96	359.52	10931.81	4102.39	-1196.79	4200.24	0.00	
15300.00	90.96	359.52	10930.14	4202.37	-1197.64	4299.82	0.00	
15400.00	90.96	359.52	10928.46	4302.35	-1198.48	4399.40	0.00	
15500.00	90.96	359.52	10926.78	4402.34	-1199.33	4498.98	0.00	
15600.00	90.96	359.52	10925.10	4502.32	-1200.18	4598.57	0.00	
15700.00	90.96	359.52	10923.43	4602.30	-1201.02	4698.15	0.00	
15800.00	90.96	359.52	10921.75	4702.28	-1201.87	4797.73	0.00	
15900.00	90.96	359.52	10920.07	4802.27	-1202.72	4897.31	0.00	
16000.00	90.96	359.52	10918.40	4902.25	-1203.56	4996.89	0.00	
16100.00	90.96	359.52	10916.72	5002.23	-1204.41	5096.47	0.00	
16200.00	90.96	359.52	10915.04	5102.21	-1205.26	5196.05	0.00	
16300.00	90.96	359.52	10913.36	5202.20	-1206.10	5295.63	0.00	
16400.00	90.96	359.52	10911.69	5302.18	-1206.95	5395.21	0.00	
16500.00	90.96	359.52	10910.01	5402.16	-1207.80	5494.79	0.00	
16600.00	90.96	359.52	10908.33	5502.14	-1208.64	5594.37	0.00	
16700.00	90.96	359.52	10906.65	5602.12	-1209.49	5693.95	0.00	
16800.00	90.96	359.52	10904.98	5702.11	-1210.34	5793.53	0.00	
16900.00	90.96	359.52	10903.30	5802.09	-1211.19	5893.11	0.00	
17000.00	90.96	359.52	10901.62	5902.07	-1212.03	5992.69	0.00	
17100.00	90.96	359.52	10899.94	6002.05	-1212.88	6092.27	0.00	
17200.00	90.96	359.52	10898.27	6102.04	-1213.73	6191.85	0.00	
17300.00	90.96	359.52	10896.59	6202.02	-1214.57	6291.43	0.00	
17400.00	90.96	359.52	10894.91	6302.00	-1215.42	6391.01	0.00	
17500.00	90.96	359.52	10893.24	6401.98	-1216.27	6490.59	0.00	
17600.00	90.96	359.52	10891.56	6501.97	-1217.11	6590.17	0.00	
17700.00	90.96	359.52	10889.88	6601.95	-1217.96	6689.76	0.00	
17800.00	90.96	359.52	10888.20	6701.93	-1218.81	6789.34	0.00	
17900.00	90.96	359.52	10886.53	6801.91	-1219.65	6888.92	0.00	
18000.00	90.96	359.52	10884.85	6901.90	-1220.50	6988.50	0.00	
18100.00	90.96	359.52	10883.17	7001.88	-1221.35	7088.08	0.00	
18200.00	90.96	359.52	10881.49	7101.86	-1222.19	7187.66	0.00	
18300.00	90.96	359.52	10879.82	7201.84	-1223.04	7287.24	0.00	
18400.00	90.96	359.52	10878.14	7301.82	-1223.89	7386.82	0.00	
18500.00	90.96	359.52	10876.46	7401.81	-1224.74	7486.40	0.00	
18600.00	90.96	359.52	10874.78	7501.79	-1225.58	7585.98	0.00	
18700.00	90.96	359.52	10873.11	7601.77	-1226.43	7685.56	0.00	
18800.00	90.96	359.52	10871.43	7701.75	-1227.28	7785.14	0.00	
18900.00	90.96	359.52	10869.75	7801.74	-1228.12	7884.72	0.00	
19000.00	90.96	359.52	10868.08	7901.72	-1228.97	7984.30	0.00	
19100.00	90.96	359.52	10866.40	8001.70	-1229.82	8083.88	0.00	
19200.00	90.96	359.52	10864.72	8101.68	-1230.66	8183.46	0.00	
19300.00	90.96	359.52	10863.04	8201.67	-1231.51	8283.04	0.00	
19400.00	90.96	359.52	10861.37	8301.65	-1232.36	8382.62	0.00	
19500.00	90.96	359.52	10859.69	8401.63	-1233.20	8482.20	0.00	
19600.00	90.96	359.52	10858.01	8501.61	-1234.05	8581.78	0.00	
19700.00	90.96	359.52	10856.33	8601.60	-1234.90	8681.36	0.00	

Muskie 23-11 Fed Com 9H



Well: Muskie 23-11 Fed Com 9H
County: Lea
Wellbore: Permit Plan
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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)	
19800.00	90.96	359.52	10854.66	8701.58	-1235.74	8780.94	0.00	
19900.00	90.96	359.52	10852.98	8801.56	-1236.59	8880.53	0.00	
20000.00	90.96	359.52	10851.30	8901.54	-1237.44	8980.11	0.00	
20100.00	90.96	359.52	10849.62	9001.52	-1238.29	9079.69	0.00	
20200.00	90.96	359.52	10847.95	9101.51	-1239.13	9179.27	0.00	
20300.00	90.96	359.52	10846.27	9201.49	-1239.98	9278.85	0.00	
20400.00	90.96	359.52	10844.59	9301.47	-1240.83	9378.43	0.00	
20500.00	90.96	359.52	10842.92	9401.45	-1241.67	9478.01	0.00	
20600.00	90.96	359.52	10841.24	9501.44	-1242.52	9577.59	0.00	
20700.00	90.96	359.52	10839.56	9601.42	-1243.37	9677.17	0.00	
20800.00	90.96	359.52	10837.88	9701.40	-1244.21	9776.75	0.00	
20900.00	90.96	359.52	10836.21	9801.38	-1245.06	9876.33	0.00	
21000.00	90.96	359.52	10834.53	9901.37	-1245.91	9975.91	0.00	
21100.00	90.96	359.52	10832.85	10001.35	-1246.75	10075.49	0.00	
21200.00	90.96	359.52	10831.17	10101.33	-1247.60	10175.07	0.00	
21300.00	90.96	359.52	10829.50	10201.31	-1248.45	10274.65	0.00	
21400.00	90.96	359.52	10827.82	10301.29	-1249.30	10374.23	0.00	
21500.00	90.96	359.52	10826.14	10401.28	-1250.14	10473.81	0.00	
21600.00	90.96	359.52	10824.46	10501.26	-1250.99	10573.39	0.00	
21700.00	90.96	359.52	10822.79	10601.24	-1251.84	10672.97	0.00	
21800.00	90.96	359.52	10821.11	10701.22	-1252.68	10772.55	0.00	
21900.00	90.96	359.52	10819.43	10801.21	-1253.53	10872.13	0.00	
22000.00	90.96	359.52	10817.76	10901.19	-1254.38	10971.72	0.00	
22100.00	90.96	359.52	10816.08	11001.17	-1255.22	11071.30	0.00	
22200.00	90.96	359.52	10814.40	11101.15	-1256.07	11170.88	0.00	
22300.00	90.96	359.52	10812.72	11201.14	-1256.92	11270.46	0.00	
22400.00	90.96	359.52	10811.05	11301.12	-1257.76	11370.04	0.00	
22500.00	90.96	359.52	10809.37	11401.10	-1258.61	11469.62	0.00	
22600.00	90.96	359.52	10807.69	11501.08	-1259.46	11569.20	0.00	
22700.00	90.96	359.52	10806.01	11601.07	-1260.30	11668.78	0.00	
22800.00	90.96	359.52	10804.34	11701.05	-1261.15	11768.36	0.00	
22900.00	90.96	359.52	10802.66	11801.03	-1262.00	11867.94	0.00	
23000.00	90.96	359.52	10800.98	11901.01	-1262.85	11967.52	0.00	
23100.00	90.96	359.52	10799.30	12000.99	-1263.69	12067.10	0.00	
23200.00	90.96	359.52	10797.63	12100.98	-1264.54	12166.68	0.00	
23300.00	90.96	359.52	10795.95	12200.96	-1265.39	12266.26	0.00	
23400.00	90.96	359.52	10794.27	12300.94	-1266.23	12365.84	0.00	
23500.00	90.96	359.52	10792.60	12400.92	-1267.08	12465.42	0.00	
23600.00	90.96	359.52	10790.92	12500.91	-1267.93	12565.00	0.00	
23700.00	90.96	359.52	10789.24	12600.89	-1268.77	12664.58	0.00	
23800.00	90.96	359.52	10787.56	12700.87	-1269.62	12764.16	0.00	
23871.85	90.96	359.52	10786.36	12772.70	-1270.23	12835.71	0.00	exit
23900.00	90.96	359.52	10785.89	12800.85	-1270.47	12863.74	0.00	
23951.85	90.96	359.52	10785.00	12852.69	-1270.84	12915.37	0.00	BHL

Muskie 23-11 Fed Com 9H

1. Geologic Formations

TVD of target	10786	Pilot hole depth	N/A
MD at TD:	23952	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	890		
Salt	1250		
Base of Salt	5000		
Delaware	5300		
Cherry Canyon	6335		
Brushy Canyon	7975		
1st Bone Spring Lime	9405		
Bone Spring 1st	10570		

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

Muskie 23-11 Fed Com 9H

2. Casing Program

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	BTC	0	915	0	915
12 1/4	9 5/8	40	J-55	BTC	0	5100	0	5100
8 3/4	5 1/2	17	P110	BTC	0	23952	0	10786

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	701	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	564	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4600	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	733	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	564	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4600	13.2	1.4	Tail: Class H / C + additives
Production	505	4600	9.0	3.3	Lead: Class H / C + additives
	2591	10523	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

Muskie 23-11 Fed Com 9H

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	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*		

Muskie 23-11 Fed Com 9H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	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	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5048
Abnormal temperature	No

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

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 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.

Muskie 23-11 Fed Com 9H

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 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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 286886

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 286886
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/20/2023