

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) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 356055

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-025-52337
4. Property Code 314247	5. Property Name NORTH THISTLE 15 10 STATE COM	6. Well No. 503H

7. Surface Location

UL - Lot B	Section 10	Township 23S	Range 33E	Lot Idn B	Feet From 550	N/S Line N	Feet From 1799	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot O	Section 15	Township 23S	Range 33E	Lot Idn O	Feet From 20	N/S Line S	Feet From 1933	E/W Line E	County Lea
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9. Pool Information

BRINNINSTOOL;BONE SPRING	7320
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3600
16. Multiple N	17. Proposed Depth 22083	18. Formation Bone Spring	19. Contractor	20. Spud Date 12/31/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	45.5	1162	697	0
Int1	9.875	8.625	32	11247	968	0
Prod	7.875	5.5	20	22083	1461	10747

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Blind	5000	5000	
Double Ram	5000	5000	
Annular	5000	5000	
Blind	5000	5000	
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Jeff Walla	Approved By: Paul F Kautz
Title: Supervisor Land	Title: Geologist
Email Address: Jeff.Walla@dmn.com	Approved Date: 12/19/2023 Expiration Date: 12/19/2025
Date: 12/15/2023 Phone: 575-748-9925	Conditions of Approval Attached

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 7320	Pool Name BRINNINSTOOL;BONE SPRING
Property Code	Property Name NORTH THISTLE 15-10 STATE COM	Well Number 503H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3599.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	23-S	33-E		550	NORTH	1799	EAST	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
0	15	23-S	33-E		20	SOUTH	1933	EAST	LEA

Dedicated Acres 640	Joint or Infill	Consolidation Code	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

NORTH THISTLE 15-10 STATE COM 503H EL:3599.5' GEODETIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION N:482828.86 E:780985.05 LAT:32.324984 LON:103.557508 KICK OFF POINT CALLS: 59' FNL, 1934' FEL N: 483322 E: 780847 LAT: 32.3262 LON: 103.5580 FIRST TAKE POINT (PPP 1) 100' FNL 1933' FEL SEC. 10 N:483277.61 E:780847.97 LAT:32.326220 LON:103.557941 LAST TAKE POINT 100' FSL 1933' FEL SEC. 15 N:472915.29 E:780926.71 LAT:32.297736 LON:103.557929 BOTTOM OF HOLE N:472835.29 E:780927.32 LAT:32.297516 LON:103.557929 A = N:483357.66 E:777494.32 B = N:483371.16 E:780150.63 C = N:483395.50 E:782780.10 D = N:480752.40 E:782801.00 E = N:478110.23 E:782819.94 F = N:475468.20 E:782840.20 G = N:472826.18 E:782860.45 H = N:472811.30 E:780219.55 I = N:472796.69 E:777577.35 J = N:475436.03 E:777556.56 K = N:478077.69 E:777535.68 L = N:478095.15 E:780174.27		OPERATOR CERTIFICATION <i>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.</i> <u>Rebecca Deal</u> 12/5/2023 Signature Date Rebecca Deal, Regulatory Analyst Printed Name Rebecca.deal@dm.com E-mail Address SURVEYOR CERTIFICATION <i>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.</i> 11/2023 DATE OF SURVEY Signature & Seal of Professional Surveyor 11/16/2023 Certificate No. 23261 A. DeHOYOS DRAWN BY: CM
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Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: NORTH THISTLE 15-10 STATE COM	Well Number 503H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	10	25S	33E		59	FNL	1934	FEL	LEA
Latitude 32.3262					Longitude -103.5580				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	10	25-S	33-E		100	NORTH	1933	EAST	LEA
Latitude 32.326220					Longitude 103.557941				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	15	25-S	33-E		100	SOUTH	1933	EAST	LEA
Latitude 32.297736					Longitude 103.557929				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, L.P.	Property Name: NORTH THISTLE 15-10 STATE COM	Well Number 5H

KZ 06/29/2018

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

Form APD Comments

Permit 356055

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102		API Number: 30-025-52337
		Well: NORTH THISTLE 15 10 STATE COM #503H
Created By	Comment	Comment Date
rdeal	Please see attached C-102, Drill Plan, Directional Plan, H2S Plan, & NGMP.	12/15/2023

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Santa Fe, NM 87505

Form APD Conditions

Permit 356055

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102	API Number: 30-025-52337
	Well: NORTH THISTLE 15 10 STATE COM #503H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

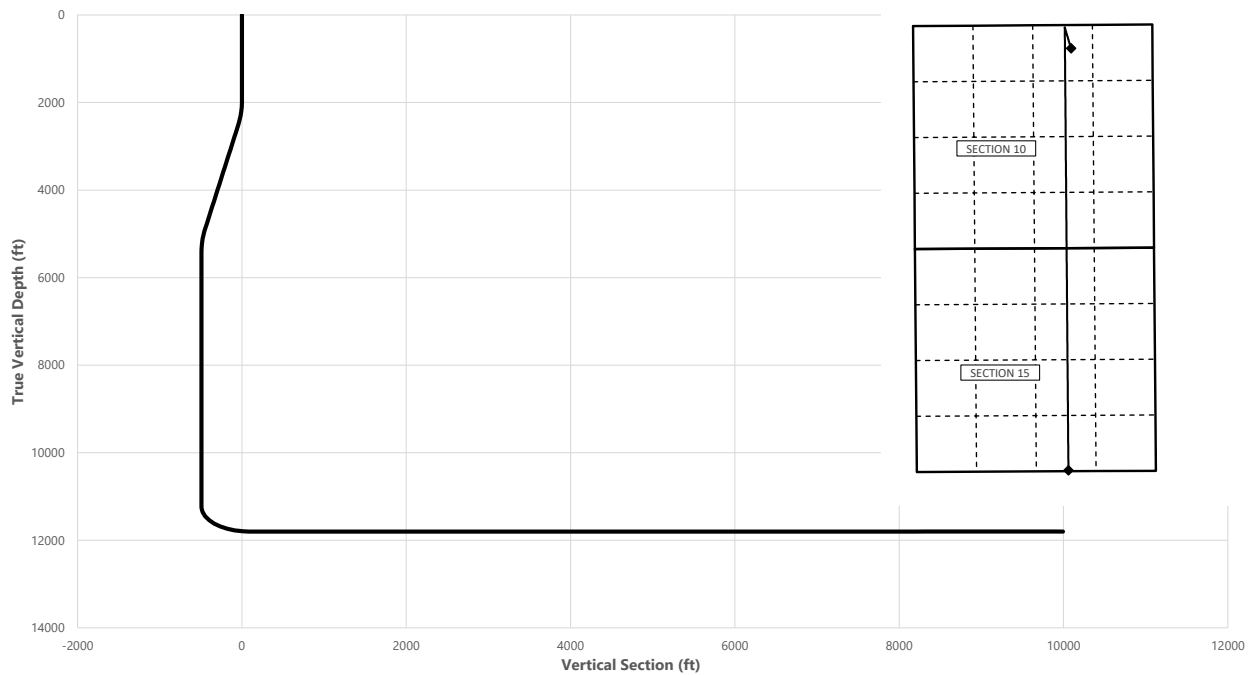
NORTH THISTLE 15-10 STATE COM 503H



Well: NORTH THISTLE 15-10 STATE COM 503H
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 (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	344.33	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	344.33	2497.47	41.90	-11.76	-41.84	2.00	Hold Tangent
4946.62	10.00	344.33	4906.91	450.97	-126.51	-450.23	0.00	Drop to Vertical
5446.62	0.00	344.33	5404.38	492.87	-138.26	-492.06	2.00	Hold Vertical
11269.28	0.00	179.56	11227.04	492.87	-138.26	-492.06	0.00	KOP
12169.28	90.00	179.56	11800.00	-80.07	-133.86	80.84	10.00	Landing Point
22083.07	90.00	179.56	11800.00	-9993.57	-57.73	9993.74	0.00	BHL

**Key Depths**

	MD (ft)	TVD (ft)
Rustler	1137.00	1137.00
Salt	1620.00	1620.00
Base of Salt	1620.00	1620.00
Delaware	5147.70	5106.00
Cherry Canyon	6104.24	6062.00
Brushy Canyon	7303.24	7261.00
Bone Spring 1st	9044.24	9002.00
Bone Spring 2nd	10709.24	10667.00
Bone Spring 3rd Lime / Point of Penetration	11340.42	11298.00
exit	22003.07	11800.01

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.3249	-103.5576	550' FNL, 1799' FEL of Sec 10 in T23S, R33E
11269.28	11227.04	32.3262	-103.5580	59' FNL, 1934' FEL of Sec 10 in T23S, R33E
11340.42	11298.00	32.3262	-103.5579	100' FNL, 1933' FEL of Sec 10 in T23S, R33E
22003.07	11800.01	32.2977	-103.5579	100' FSL, 1933' FEL of Sec 15 in T23S, R33E
22083.07	11800.00	32.2974	-103.5580	20' FSL, 1933' FEL of Sec 15 in T23S, R33E

	Y	X	MD
KOP	483322	780847	11269.28

NORTH THISTLE 15-10 STATE COM 503H



Well: NORTH THISTLE 15-10 STATE COM 503H
 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	344.33	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	344.33	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	344.33	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	344.33	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	344.33	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	344.33	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	344.33	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	344.33	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	344.33	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	344.33	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	344.33	1100.00	0.00	0.00	0.00	0.00	
1137.00	0.00	344.33	1137.00	0.00	0.00	0.00	0.00	Rustler
1200.00	0.00	344.33	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	344.33	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	344.33	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	344.33	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	344.33	1600.00	0.00	0.00	0.00	0.00	
1620.00	0.00	344.33	1620.00	0.00	0.00	0.00	0.00	Salt, Base of Salt
1700.00	0.00	344.33	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	344.33	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	344.33	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	344.33	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	344.33	2099.98	1.68	-0.47	-1.68	2.00	
2200.00	4.00	344.33	2199.84	6.72	-1.88	-6.71	2.00	
2300.00	6.00	344.33	2299.45	15.11	-4.24	-15.09	2.00	
2400.00	8.00	344.33	2398.70	26.84	-7.53	-26.80	2.00	
2500.00	10.00	344.33	2497.47	41.90	-11.76	-41.84	2.00	Hold Tangent
2600.00	10.00	344.33	2595.95	58.62	-16.45	-58.53	0.00	
2700.00	10.00	344.33	2694.43	75.34	-21.14	-75.22	0.00	
2800.00	10.00	344.33	2792.91	92.06	-25.83	-91.91	0.00	
2900.00	10.00	344.33	2891.39	108.78	-30.52	-108.60	0.00	
3000.00	10.00	344.33	2989.87	125.50	-35.21	-125.30	0.00	
3100.00	10.00	344.33	3088.35	142.22	-39.90	-141.99	0.00	
3200.00	10.00	344.33	3186.83	158.94	-44.59	-158.68	0.00	
3300.00	10.00	344.33	3285.31	175.66	-49.28	-175.37	0.00	
3400.00	10.00	344.33	3383.79	192.38	-53.97	-192.06	0.00	
3500.00	10.00	344.33	3482.27	209.10	-58.66	-208.76	0.00	
3600.00	10.00	344.33	3580.75	225.82	-63.35	-225.45	0.00	
3700.00	10.00	344.33	3679.23	242.54	-68.04	-242.14	0.00	
3800.00	10.00	344.33	3777.72	259.26	-72.73	-258.83	0.00	
3900.00	10.00	344.33	3876.20	275.98	-77.42	-275.52	0.00	
4000.00	10.00	344.33	3974.68	292.70	-82.11	-292.22	0.00	
4100.00	10.00	344.33	4073.16	309.42	-86.80	-308.91	0.00	
4200.00	10.00	344.33	4171.64	326.13	-91.49	-325.60	0.00	
4300.00	10.00	344.33	4270.12	342.85	-96.18	-342.29	0.00	
4400.00	10.00	344.33	4368.60	359.57	-100.87	-358.98	0.00	
4500.00	10.00	344.33	4467.08	376.29	-105.56	-375.68	0.00	
4600.00	10.00	344.33	4565.56	393.01	-110.25	-392.37	0.00	
4700.00	10.00	344.33	4664.04	409.73	-114.94	-409.06	0.00	
4800.00	10.00	344.33	4762.52	426.45	-119.63	-425.75	0.00	
4900.00	10.00	344.33	4861.00	443.17	-124.32	-442.44	0.00	
4946.62	10.00	344.33	4906.91	450.97	-126.51	-450.23	0.00	Drop to Vertical
5000.00	8.93	344.33	4959.57	459.42	-128.88	-458.67	2.00	
5100.00	6.93	344.33	5058.61	472.71	-132.60	-471.93	2.00	
5147.70	5.98	344.33	5106.00	477.87	-134.05	-477.09	2.00	Delaware
5200.00	4.93	344.33	5158.07	482.66	-135.40	-481.87	2.00	
5300.00	2.93	344.33	5257.83	489.26	-137.25	-488.46	2.00	
5400.00	0.93	344.33	5357.76	492.50	-138.16	-491.70	2.00	
5446.62	0.00	344.33	5404.38	492.87	-138.26	-492.06	2.00	Hold Vertical
5500.00	0.00	179.56	5457.76	492.87	-138.26	-492.06	0.00	
5600.00	0.00	179.56	5557.76	492.87	-138.26	-492.06	0.00	
5700.00	0.00	179.56	5657.76	492.87	-138.26	-492.06	0.00	
5800.00	0.00	179.56	5757.76	492.87	-138.26	-492.06	0.00	
5900.00	0.00	179.56	5857.76	492.87	-138.26	-492.06	0.00	
6000.00	0.00	179.56	5957.76	492.87	-138.26	-492.06	0.00	
6100.00	0.00	179.56	6057.76	492.87	-138.26	-492.06	0.00	
6104.24	0.00	179.56	6062.00	492.87	-138.26	-492.06	0.00	Cherry Canyon
6200.00	0.00	179.56	6157.76	492.87	-138.26	-492.06	0.00	
6300.00	0.00	179.56	6257.76	492.87	-138.26	-492.06	0.00	

NORTH THISTLE 15-10 STATE COM 503H



Well: NORTH THISTLE 15-10 STATE COM 503H
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 (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	0.00	179.56	6357.76	492.87	-138.26	-492.06	0.00	
6500.00	0.00	179.56	6457.76	492.87	-138.26	-492.06	0.00	
6600.00	0.00	179.56	6557.76	492.87	-138.26	-492.06	0.00	
6700.00	0.00	179.56	6657.76	492.87	-138.26	-492.06	0.00	
6800.00	0.00	179.56	6757.76	492.87	-138.26	-492.06	0.00	
6900.00	0.00	179.56	6857.76	492.87	-138.26	-492.06	0.00	
7000.00	0.00	179.56	6957.76	492.87	-138.26	-492.06	0.00	
7100.00	0.00	179.56	7057.76	492.87	-138.26	-492.06	0.00	
7200.00	0.00	179.56	7157.76	492.87	-138.26	-492.06	0.00	
7300.00	0.00	179.56	7257.76	492.87	-138.26	-492.06	0.00	
7303.24	0.00	179.56	7261.00	492.87	-138.26	-492.06	0.00	Brushy Canyon
7400.00	0.00	179.56	7357.76	492.87	-138.26	-492.06	0.00	
7500.00	0.00	179.56	7457.76	492.87	-138.26	-492.06	0.00	
7600.00	0.00	179.56	7557.76	492.87	-138.26	-492.06	0.00	
7700.00	0.00	179.56	7657.76	492.87	-138.26	-492.06	0.00	
7800.00	0.00	179.56	7757.76	492.87	-138.26	-492.06	0.00	
7900.00	0.00	179.56	7857.76	492.87	-138.26	-492.06	0.00	
8000.00	0.00	179.56	7957.76	492.87	-138.26	-492.06	0.00	
8100.00	0.00	179.56	8057.76	492.87	-138.26	-492.06	0.00	
8200.00	0.00	179.56	8157.76	492.87	-138.26	-492.06	0.00	
8300.00	0.00	179.56	8257.76	492.87	-138.26	-492.06	0.00	
8400.00	0.00	179.56	8357.76	492.87	-138.26	-492.06	0.00	
8500.00	0.00	179.56	8457.76	492.87	-138.26	-492.06	0.00	
8600.00	0.00	179.56	8557.76	492.87	-138.26	-492.06	0.00	
8700.00	0.00	179.56	8657.76	492.87	-138.26	-492.06	0.00	
8800.00	0.00	179.56	8757.76	492.87	-138.26	-492.06	0.00	
8900.00	0.00	179.56	8857.76	492.87	-138.26	-492.06	0.00	
9000.00	0.00	179.56	8957.76	492.87	-138.26	-492.06	0.00	
9044.24	0.00	179.56	9002.00	492.87	-138.26	-492.06	0.00	Bone Spring 1st
9100.00	0.00	179.56	9057.76	492.87	-138.26	-492.06	0.00	
9200.00	0.00	179.56	9157.76	492.87	-138.26	-492.06	0.00	
9300.00	0.00	179.56	9257.76	492.87	-138.26	-492.06	0.00	
9400.00	0.00	179.56	9357.76	492.87	-138.26	-492.06	0.00	
9500.00	0.00	179.56	9457.76	492.87	-138.26	-492.06	0.00	
9600.00	0.00	179.56	9557.76	492.87	-138.26	-492.06	0.00	
9700.00	0.00	179.56	9657.76	492.87	-138.26	-492.06	0.00	
9800.00	0.00	179.56	9757.76	492.87	-138.26	-492.06	0.00	
9900.00	0.00	179.56	9857.76	492.87	-138.26	-492.06	0.00	
10000.00	0.00	179.56	9957.76	492.87	-138.26	-492.06	0.00	
10100.00	0.00	179.56	10057.76	492.87	-138.26	-492.06	0.00	
10200.00	0.00	179.56	10157.76	492.87	-138.26	-492.06	0.00	
10300.00	0.00	179.56	10257.76	492.87	-138.26	-492.06	0.00	
10400.00	0.00	179.56	10357.76	492.87	-138.26	-492.06	0.00	
10500.00	0.00	179.56	10457.76	492.87	-138.26	-492.06	0.00	
10600.00	0.00	179.56	10557.76	492.87	-138.26	-492.06	0.00	
10700.00	0.00	179.56	10657.76	492.87	-138.26	-492.06	0.00	
10709.24	0.00	179.56	10667.00	492.87	-138.26	-492.06	0.00	Bone Spring 2nd
10800.00	0.00	179.56	10757.76	492.87	-138.26	-492.06	0.00	
10900.00	0.00	179.56	10857.76	492.87	-138.26	-492.06	0.00	
11000.00	0.00	179.56	10957.76	492.87	-138.26	-492.06	0.00	
11100.00	0.00	179.56	11057.76	492.87	-138.26	-492.06	0.00	
11200.00	0.00	179.56	11157.76	492.87	-138.26	-492.06	0.00	
11269.28	0.00	179.56	11227.04	492.87	-138.26	-492.06	0.00	KOP
11300.00	3.07	179.56	11257.75	492.05	-138.25	-491.24	10.00	
11340.42	7.11	179.56	11298.00	488.46	-138.23	-487.65	10.00	Bone Spring 3rd Lime / Point of Penetration
11400.00	13.07	179.56	11356.63	478.02	-138.15	-477.22	10.00	
11500.00	23.07	179.56	11451.58	447.04	-137.91	-446.24	10.00	
11600.00	33.07	179.56	11539.70	400.05	-137.55	-399.24	10.00	
11700.00	43.07	179.56	11618.32	338.46	-137.07	-337.66	10.00	
11800.00	53.07	179.56	11685.06	264.16	-136.50	-263.37	10.00	
11900.00	63.07	179.56	11737.88	179.40	-135.85	-178.61	10.00	
12000.00	73.07	179.56	11775.17	86.75	-135.14	-85.97	10.00	
12100.00	83.07	179.56	11795.82	-10.96	-134.39	11.74	10.00	
12169.28	90.00	179.56	11800.00	-80.07	-133.86	80.84	10.00	Landing Point
12200.00	90.00	179.56	11800.00	-110.79	-133.63	111.56	0.00	
12300.00	90.00	179.56	11800.00	-210.79	-132.86	211.55	0.00	
12400.00	90.00	179.56	11800.00	-310.78	-132.09	311.54	0.00	
12500.00	90.00	179.56	11800.00	-410.78	-131.32	411.53	0.00	
12600.00	90.00	179.56	11800.00	-510.78	-130.55	511.52	0.00	
12700.00	90.00	179.56	11800.00	-610.77	-129.78	611.51	0.00	

NORTH THISTLE 15-10 STATE COM 503H



Well: NORTH THISTLE 15-10 STATE COM 503H
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 (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	179.56	11800.00	-710.77	-129.02	711.51	0.00	
12900.00	90.00	179.56	11800.00	-810.77	-128.25	811.50	0.00	
13000.00	90.00	179.56	11800.00	-910.77	-127.48	911.49	0.00	
13100.00	90.00	179.56	11800.00	-1010.76	-126.71	1011.48	0.00	
13200.00	90.00	179.56	11800.00	-1110.76	-125.94	1111.47	0.00	
13300.00	90.00	179.56	11800.00	-1210.76	-125.17	1211.46	0.00	
13400.00	90.00	179.56	11800.00	-1310.75	-124.41	1311.45	0.00	
13500.00	90.00	179.56	11800.00	-1410.75	-123.64	1411.44	0.00	
13600.00	90.00	179.56	11800.00	-1510.75	-122.87	1511.43	0.00	
13700.00	90.00	179.56	11800.00	-1610.75	-122.10	1611.42	0.00	
13800.00	90.00	179.56	11800.00	-1710.74	-121.33	1711.41	0.00	
13900.00	90.00	179.56	11800.00	-1810.74	-120.57	1811.41	0.00	
14000.00	90.00	179.56	11800.00	-1910.74	-119.80	1911.40	0.00	
14100.00	90.00	179.56	11800.00	-2010.73	-119.03	2011.39	0.00	
14200.00	90.00	179.56	11800.00	-2110.73	-118.26	2111.38	0.00	
14300.00	90.00	179.56	11800.00	-2210.73	-117.49	2211.37	0.00	
14400.00	90.00	179.56	11800.00	-2310.72	-116.72	2311.36	0.00	
14500.00	90.00	179.56	11800.00	-2410.72	-115.96	2411.35	0.00	
14600.00	90.00	179.56	11800.00	-2510.72	-115.19	2511.34	0.00	
14700.00	90.00	179.56	11800.00	-2610.72	-114.42	2611.33	0.00	
14800.00	90.00	179.56	11800.00	-2710.71	-113.65	2711.32	0.00	
14900.00	90.00	179.56	11800.00	-2810.71	-112.88	2811.32	0.00	
15000.00	90.00	179.56	11800.00	-2910.71	-112.12	2911.31	0.00	
15100.00	90.00	179.56	11800.00	-3010.70	-111.35	3011.30	0.00	
15200.00	90.00	179.56	11800.00	-3110.70	-110.58	3111.29	0.00	
15300.00	90.00	179.56	11800.00	-3210.70	-109.81	3211.28	0.00	
15400.00	90.00	179.56	11800.00	-3310.69	-109.04	3311.27	0.00	
15500.00	90.00	179.56	11800.00	-3410.69	-108.27	3411.26	0.00	
15600.00	90.00	179.56	11800.00	-3510.69	-107.51	3511.25	0.00	
15700.00	90.00	179.56	11800.00	-3610.69	-106.74	3611.24	0.00	
15800.00	90.00	179.56	11800.00	-3710.68	-105.97	3711.23	0.00	
15900.00	90.00	179.56	11800.00	-3810.68	-105.20	3811.22	0.00	
16000.00	90.00	179.56	11800.01	-3910.68	-104.43	3911.22	0.00	
16100.00	90.00	179.56	11800.01	-4010.67	-103.67	4011.21	0.00	
16200.00	90.00	179.56	11800.01	-4110.67	-102.90	4111.20	0.00	
16300.00	90.00	179.56	11800.01	-4210.67	-102.13	4211.19	0.00	
16400.00	90.00	179.56	11800.01	-4310.67	-101.36	4311.18	0.00	
16500.00	90.00	179.56	11800.01	-4410.66	-100.59	4411.17	0.00	
16600.00	90.00	179.56	11800.01	-4510.66	-99.82	4511.16	0.00	
16700.00	90.00	179.56	11800.01	-4610.66	-99.06	4611.15	0.00	
16800.00	90.00	179.56	11800.01	-4710.65	-98.29	4711.14	0.00	
16900.00	90.00	179.56	11800.01	-4810.65	-97.52	4811.13	0.00	
17000.00	90.00	179.56	11800.01	-4910.65	-96.75	4911.12	0.00	
17100.00	90.00	179.56	11800.01	-5010.64	-95.98	5011.12	0.00	
17200.00	90.00	179.56	11800.01	-5110.64	-95.22	5111.11	0.00	
17300.00	90.00	179.56	11800.01	-5210.64	-94.45	5211.10	0.00	
17400.00	90.00	179.56	11800.01	-5310.64	-93.68	5311.09	0.00	
17500.00	90.00	179.56	11800.01	-5410.63	-92.91	5411.08	0.00	
17600.00	90.00	179.56	11800.01	-5510.63	-92.14	5511.07	0.00	
17700.00	90.00	179.56	11800.01	-5610.63	-91.37	5611.06	0.00	
17800.00	90.00	179.56	11800.01	-5710.62	-90.61	5711.05	0.00	
17900.00	90.00	179.56	11800.01	-5810.62	-89.84	5811.04	0.00	
18000.00	90.00	179.56	11800.01	-5910.62	-89.07	5911.03	0.00	
18100.00	90.00	179.56	11800.01	-6010.62	-88.30	6011.03	0.00	
18200.00	90.00	179.56	11800.01	-6110.61	-87.53	6111.02	0.00	
18300.00	90.00	179.56	11800.01	-6210.61	-86.76	6211.01	0.00	
18400.00	90.00	179.56	11800.01	-6310.61	-86.00	6311.00	0.00	
18500.00	90.00	179.56	11800.01	-6410.60	-85.23	6410.99	0.00	
18600.00	90.00	179.56	11800.01	-6510.60	-84.46	6510.98	0.00	
18700.00	90.00	179.56	11800.01	-6610.60	-83.69	6610.97	0.00	
18800.00	90.00	179.56	11800.01	-6710.59	-82.92	6710.96	0.00	
18900.00	90.00	179.56	11800.01	-6810.59	-82.16	6810.95	0.00	
19000.00	90.00	179.56	11800.01	-6910.59	-81.39	6910.94	0.00	
19100.00	90.00	179.56	11800.01	-7010.59	-80.62	7010.93	0.00	
19200.00	90.00	179.56	11800.01	-7110.58	-79.85	7110.93	0.00	
19300.00	90.00	179.56	11800.01	-7210.58	-79.08	7210.92	0.00	
19400.00	90.00	179.56	11800.01	-7310.58	-78.31	7310.91	0.00	
19500.00	90.00	179.56	11800.01	-7410.57	-77.55	7410.90	0.00	
19600.00	90.00	179.56	11800.01	-7510.57	-76.78	7510.89	0.00	
19700.00	90.00	179.56	11800.01	-7610.57	-76.01	7610.88	0.00	

NORTH THISTLE 15-10 STATE COM 503H



Well: NORTH THISTLE 15-10 STATE COM 503H
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)	
19800.00	90.00	179.56	11800.01	-7710.57	-75.24	7710.87	0.00	
19900.00	90.00	179.56	11800.01	-7810.56	-74.47	7810.86	0.00	
20000.00	90.00	179.56	11800.01	-7910.56	-73.71	7910.85	0.00	
20100.00	90.00	179.56	11800.01	-8010.56	-72.94	8010.84	0.00	
20200.00	90.00	179.56	11800.01	-8110.55	-72.17	8110.83	0.00	
20300.00	90.00	179.56	11800.01	-8210.55	-71.40	8210.83	0.00	
20400.00	90.00	179.56	11800.01	-8310.55	-70.63	8310.82	0.00	
20500.00	90.00	179.56	11800.01	-8410.54	-69.86	8410.81	0.00	
20600.00	90.00	179.56	11800.01	-8510.54	-69.10	8510.80	0.00	
20700.00	90.00	179.56	11800.01	-8610.54	-68.33	8610.79	0.00	
20800.00	90.00	179.56	11800.01	-8710.54	-67.56	8710.78	0.00	
20900.00	90.00	179.56	11800.01	-8810.53	-66.79	8810.77	0.00	
21000.00	90.00	179.56	11800.01	-8910.53	-66.02	8910.76	0.00	
21100.00	90.00	179.56	11800.01	-9010.53	-65.26	9010.75	0.00	
21200.00	90.00	179.56	11800.01	-9110.52	-64.49	9110.74	0.00	
21300.00	90.00	179.56	11800.01	-9210.52	-63.72	9210.74	0.00	
21400.00	90.00	179.56	11800.01	-9310.52	-62.95	9310.73	0.00	
21500.00	90.00	179.56	11800.01	-9410.51	-62.18	9410.72	0.00	
21600.00	90.00	179.56	11800.01	-9510.51	-61.41	9510.71	0.00	
21700.00	90.00	179.56	11800.01	-9610.51	-60.65	9610.70	0.00	
21800.00	90.00	179.56	11800.01	-9710.51	-59.88	9710.69	0.00	
21900.00	90.00	179.56	11800.01	-9810.50	-59.11	9810.68	0.00	
22000.00	90.00	179.56	11800.01	-9910.50	-58.34	9910.67	0.00	
22003.07	90.00	179.56	11800.01	-9913.57	-58.32	9913.74	0.00	exit
22083.07	90.00	179.56	11800.00	-9993.57	-57.73	9993.74	0.00	BHL

NORTH THISTLE 15-10 STATE COM 503H

1. Geologic Formations

TVD of target	11800	Pilot hole depth	N/A
MD at TD:	22083	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1137		
Salt	1620		
Base of Salt	1620		
Delaware	5106		
Cherry Canyon	6062		
Brushy Canyon	7261		
Bone Spring 1st	9002		
Bone Spring 2nd	10667		
Bone Spring 3rd Lime	11298		

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

NORTH THISTLE 15-10 STATE COM 503H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	1162	0	1162
9 7/8	8 5/8	32	P110	Sprint FJ	0	11247	0	11247
7 7/8	5 1/2	20	P110	DWC/C-IS+	0	22083	0	11800

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

3. Cementing Program (Primary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy canyon to surface.

Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	697	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	511	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	459	7303	13.2	1.44	Tail: Class H / C + additives
Production	30	10747	9	3.27	Lead: Class H / C + additives
	1431	11269	13.2	1.44	Tail: Class H / C + additives

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

NORTH THISTLE 15-10 STATE COM 503H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:	
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	5M	Annular (5M)		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

NORTH THISTLE 15-10 STATE COM 503H

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5522
Abnormal temperature	No

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

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

N	H ₂ S is present
Y	H ₂ S plan attached.

NORTH THISTLE 15-10 STATE COM 503H

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. 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



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

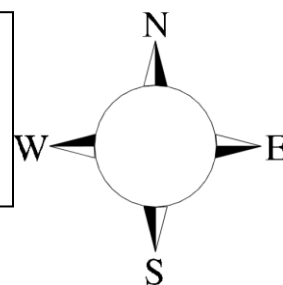
North Thistle 15-10 State Com 503H

**Sec-10 T-23S R-33E
550' FNL & 1799' FEL
LAT. = 32.324984° N (NAD83)
LONG = 103.557508° W**

Lea County NM

North Thistle 15-10 State Com 503H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm **ROE = 3000'** (Radius of Exposure)
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan.

There will be weekly H₂S and well control drills for all personnel in each crew.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

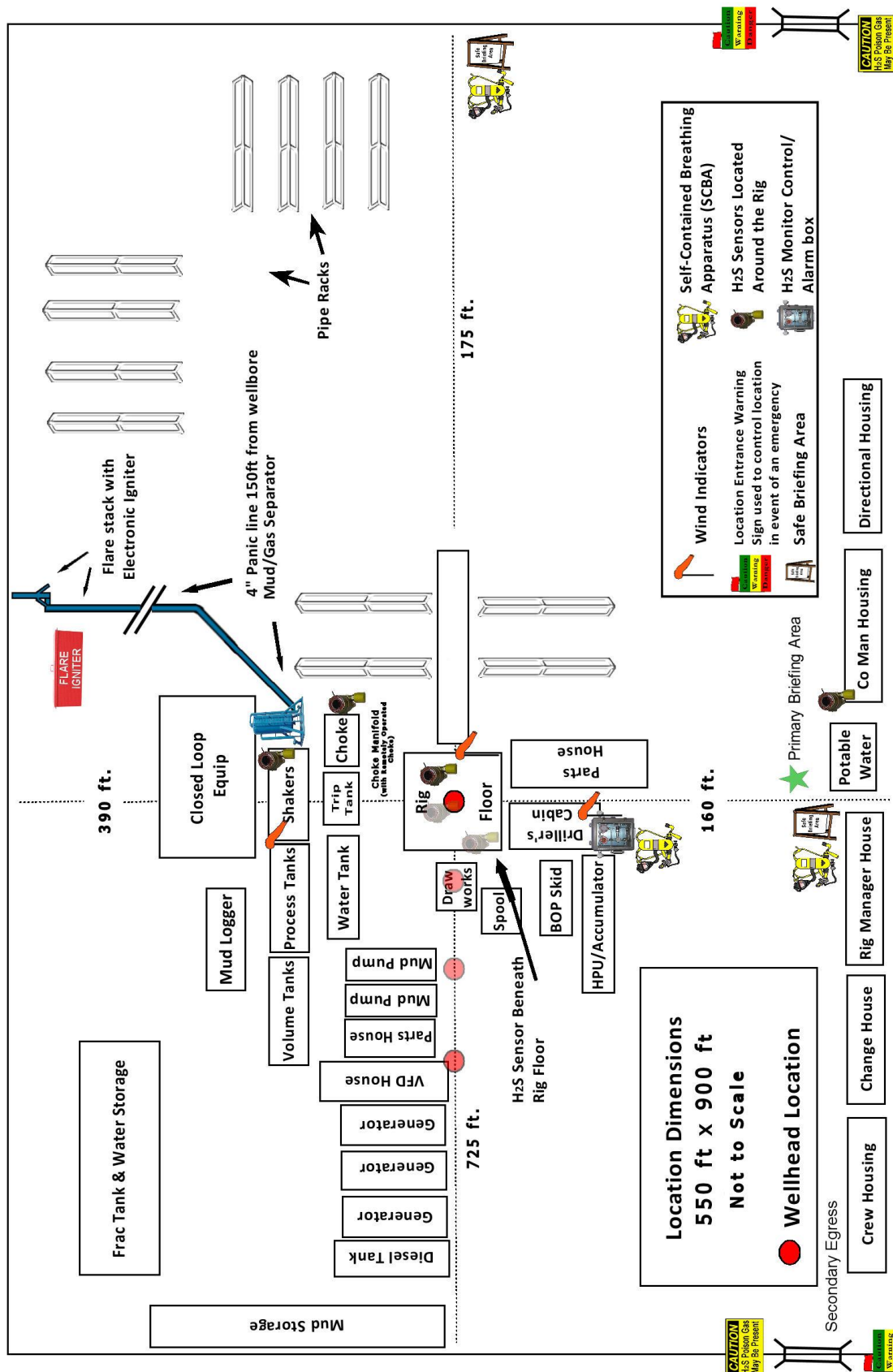
<u>Devon Energy Corp. Company Call List</u>			
Employee/Company Contact Representative	Position	Phone Number	After Hours Number
Jonathan Fisher (North)	Drilling Manager	832-967-7912	
Jason Hildebrand (South)	Drilling Manager	405-552-6514	
Rich Downey	Drilling VP	405-228-2415	
Josh Harvey	EHS Manager	405-228-2440	918-500-5536
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145
Robert Glover	EHS Professional	575-703-5712	575-703-5712
Lane Frank	Lead EHS	580-579-7052	580-579-7052
Rickey Porter	Lead EHS	903-720-8315	903-720-8315
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046
Brock Vise	Lead EHS	918-413-3291	918-413-3291

Agency Call List		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	397-9265
	State Police	885-3138
	City Police	397-9265
	Sheriff's Office	396-3611
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Closed)	393-0002
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	234-5972
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
<u>Give GPS position:</u>	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118

Prepared in conjunction with
Dave Small



prevailing Wind
Direction S, SW



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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 7320	Pool Name BRINNINSTOOL;BONE SPRING
Property Code	Property Name NORTH THISTLE 15-10 STATE COM	Well Number 503H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3599.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	23-S	33-E		550	NORTH	1799	EAST	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
0	15	23-S	33-E		20	SOUTH	1933	EAST	LEA

Dedicated Acres 640	Joint or Infill	Consolidation Code	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

NORTH THISTLE 15-10 STATE COM 503H EL: 3599.5' GEODETIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION N: 482828.86 E: 780985.05 LAT: 32.324984 LON: 103.557508 KICK OFF POINT CALLS: 59' FNL, 1934' FEL N: 483322 E: 780847 LAT: 32.3262 LON: 103.5580 FIRST TAKE POINT (PPP 1) 100' FNL 1933' FEL SEC. 10 N: 483277.61 E: 780847.97 LAT: 32.326220 LON: 103.557941 LAST TAKE POINT 100' FSL 1933' FEL SEC. 15 N: 472915.29 E: 780926.71 LAT: 32.297736 LON: 103.557929 BOTTOM OF HOLE N: 472835.29 E: 780927.32 LAT: 32.297516 LON: 103.557929 A = N: 483357.66 E: 777494.32 B = N: 483371.16 E: 780150.63 C = N: 483395.50 E: 782780.10 D = N: 480752.40 E: 782801.00 E = N: 478110.23 E: 782819.94 F = N: 475468.20 E: 782840.20 G = N: 472826.18 E: 782860.45 H = N: 472811.30 E: 780219.55 I = N: 472796.69 E: 777577.35 J = N: 475436.03 E: 777556.56 K = N: 478077.69 E: 777535.68 L = N: 478095.15 E: 780174.27		OPERATOR CERTIFICATION <i>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.</i> <u>Rebecca Deal</u> 12/5/2023 Signature Date Rebecca Deal, Regulatory Analyst Printed Name Rebecca.deal@dm.com E-mail Address SURVEYOR CERTIFICATION <i>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.</i> 11/2023 DATE OF SURVEY Signature & Seal of Professional Surveyor 11/16/2023 Certificate No. 23261 A. DeHOYOS DRAWN BY: CM
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Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: NORTH THISTLE 15-10 STATE COM	Well Number 503H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	10	25S	33E		59	FNL	1934	FEL	LEA
Latitude 32.3262					Longitude -103.5580				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	10	25-S	33-E		100	NORTH	1933	EAST	LEA
Latitude 32.326220					Longitude 103.557941				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	15	25-S	33-E		100	SOUTH	1933	EAST	LEA
Latitude 32.297736					Longitude 103.557929				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, L.P.	Property Name: NORTH THISTLE 15-10 STATE COM	Well Number 5H

KZ 06/29/2018

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Devon Energy Production Company, L.P. **OGRID:** 6137 **Date:** 12 / 5 / 2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached						

IV. Central Delivery Point Name: PARSELTONGUE 10 CTB 1 [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See Attached						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:



Printed Name: Jeff Walla

Title: Surface Land and Regulatory Manager

E-mail Address:

Date:

Phone:

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

PARSELTONGUE 10 CTB 1					
Well Name	API	SHL - STR & Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
NORTH THISTLE 10 STATE COM 213H		10-23S-33E, 564 FNL & 535 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 201H		10-23S-33E, 215 FNL & 1423 FWL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 202H		10-23S-33E, 550 FNL & 1859 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 203H		10-23S-33E, 564 FNL & 595 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 211H		10-23S-33E, 215 FNL & 1453 FWL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 212H		10-23S-33E, 550 FNL & 1829 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 501H		10-23S-33E, 215 FNL & 1393 FWL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 502H		10-23S-33E, 550 FNL & 1889 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 503H		10-23S-33E, 550 FNL & 1799 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 504H		10-23S-33E, 564 FNL & 565 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 512H		10-23S-33E, 215 FNL & 1483 FWL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd
NORTH THISTLE 15-10 STATE COM 513H		10-23S-33E, 564 FNL & 625 FEL	(+/-) 1307 bopd	(+/-) 914 mcf	(+/-) 1960 bwpd

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
NORTH THISTLE 10 STATE COM 213H		11/15/2024	12/15/2024	4/14/2025	4/14/2025	4/14/2025
NORTH THISTLE 15-10 STATE COM 201H		1/29/2025	2/28/2025	6/28/2025	6/28/2025	6/28/2025
NORTH THISTLE 15-10 STATE COM 202H		12/17/2024	1/16/2025	5/16/2025	5/16/2025	5/16/2025
NORTH THISTLE 15-10 STATE COM 203H		12/23/2024	1/22/2025	5/22/2025	5/22/2025	5/22/2025
NORTH THISTLE 15-10 STATE COM 211H		12/20/2024	1/19/2025	5/19/2025	5/19/2025	5/19/2025
NORTH THISTLE 15-10 STATE COM 212H		11/30/2024	12/30/2024	4/29/2025	4/29/2025	4/29/2025
NORTH THISTLE 15-10 STATE COM 501H		1/6/2025	2/5/2025	6/5/2025	6/5/2025	6/5/2025
NORTH THISTLE 15-10 STATE COM 502H		1/23/2025	2/22/2025	6/22/2025	6/22/2025	6/22/2025
NORTH THISTLE 15-10 STATE COM 503H		12/31/2024	1/30/2025	5/30/2025	5/30/2025	5/30/2025
NORTH THISTLE 15-10 STATE COM 504H		1/6/2025	2/5/2025	6/5/2025	6/5/2025	6/5/2025
NORTH THISTLE 15-10 STATE COM 512H		11/1/2024	12/1/2024	3/31/2025	3/31/2025	3/31/2025
NORTH THISTLE 15-10 STATE COM 513H		11/7/2024	12/7/2024	4/6/2025	4/6/2025	4/6/2025

*Dates and Volumes are subject to change



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.