Form C-101 August 1, 2011

Permit 362489

<u>District I</u> 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

PLICATION FOR PERMIT TO DRILL	RE-ENTER DEEDEN	A DILICRACK	OR ADD A ZONE

Operator Name and Address	1 Operator Name and Address						
DEVON ENERGY PRODUCTION CO	2. OGRID Number 6137						
333 West Sheridan Ave. Oklahoma City, OK 73102	3. API Number 30-015-54966						
4. Property Code	5. Property Name	6. Well No.					
320826	SPUD MUFFIN 31 30 COM	823H					

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	31	23S	29E		475	S	2460	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section Township		Range Lot Idn		Feet From N/S Line		Feet From	E/W Line	County
С	30	23S	29E	С	20	N	2090	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS) 98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		Private	2961
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20821	Wolfcamp		7/1/2024
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

	21. Froposed Casing and Cement Frogram										
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC					
Surf	14.75	10.75	45.5	139	104	0					
Int1	9.875	8.625	32	9852	905	0					
Prod	7 875	5.5	20	20821	1555	7952					

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer					
Annular	5000	2500						
Blind	5000	5000						
Double Ram	5000	5000						
Annular	5000	2500						
Blind	5000	5000						
Double Ram	5000	5000						

knowledge and	belief. I have complied with 19.15.14.9 (A)	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSER	VATION DIVISION	
Printed Name:	Electronically filed by Jeff Walla		Approved By:	Ward Rikala		
Title:	Supervisor Land		Title:			
Email Address:	Jeff.Walla@dvn.com		Approved Date:	4/24/2024	Expiration Date: 4/24/2026	
Date:	4/12/2024	Phone: 575-748-9925	Conditions of Approval Attached			

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

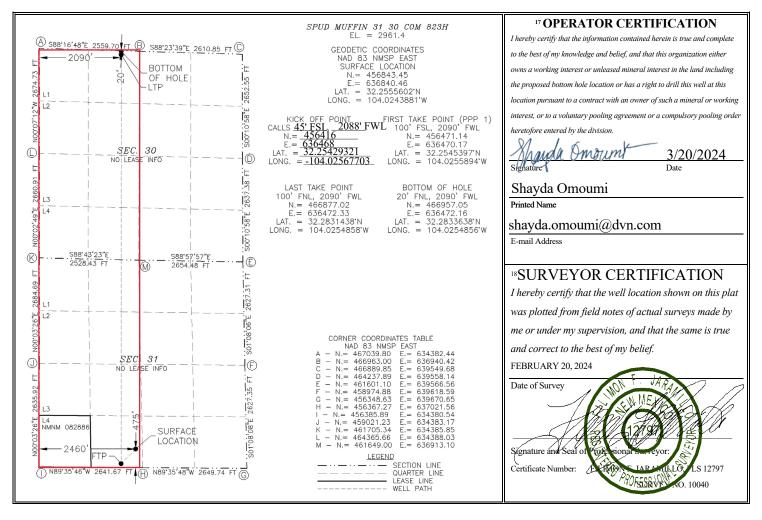
¹ API Number		² Pool Code			
30-015-54966		98220	PURPLE SAGE; WOLFCA	MP (GAS)	
⁴ Property Code		⁵ Pr	⁶ Well Number		
320826		SPUD MUFF	823H		
⁷ OGRID No.		8 O _I	⁹ Elevation		
6137		DEVON ENERGY PRODUCTION COMPANY, L.P.			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
N	31	23 S	29 E		475	SOUTH	2460	WEST	EDDY	
	¹¹ Bottom Hole Location If Different From Surface									

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	23 S	29 E		20	NORTH	2090	WEST	EDDY
12 Dedicated Acres	13 Joint	or Infill	14 Consolidation	n Code			15 Order No.		
632.38									

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.



Inten	t X	As Dril	led											
API#	ł													
DE\	Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.						Property Name: SPUD MUFFIN 31 30 COM							Well Number 823H
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County	
N	31	23S	29E		45		SOU	TH	2088	1	WES	Т	EDDY	
Latitu 32.254	ude 129321				Longitu -104.025		3						NAD 83	
					<u> </u>								l	
First ⁻	Take Poir	nt (FTP)												
UL N	Section 31	Township 23S	Range 29E	Lot	Feet 100		From N		Feet 209		From	n E/W ST	County EDDY	
Latitu					Longitu	ıde					NAD			
32.2	254539	7			104.0)255	894						83	
Last 1 UL C	Section	t (LTP) Township 23S	Range 29E	Lot	Feet 100		n N/S RTH	Feet		From WES		Count		
Latitu	ude				Longitu	ıde						NAD		
32.4	283143	0			104.0	J Z 34	-000					83		
		defining v	vell for th	e Horiz	zontal Sp	pacing	g Unit?		N]				
ls this	s well an	infill well?		Υ										
	ll is yes p ng Unit.	lease provi	ide API if	availak	ole, Oper	rator	Name	and v	vell n	umbei	for [Definiı	ng well fo	r Horizontal
API #	0-015-45	266												
Ope	rator Na	me:				Prop	erty N	ame	:					Well Number
	DEVON EI	NERGY PRO Y, L.P.	DUCTION	١		SPUD MUFFIN 31 30 COM						622H		
														K7 06/20/201

KZ 06/29/2018

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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**

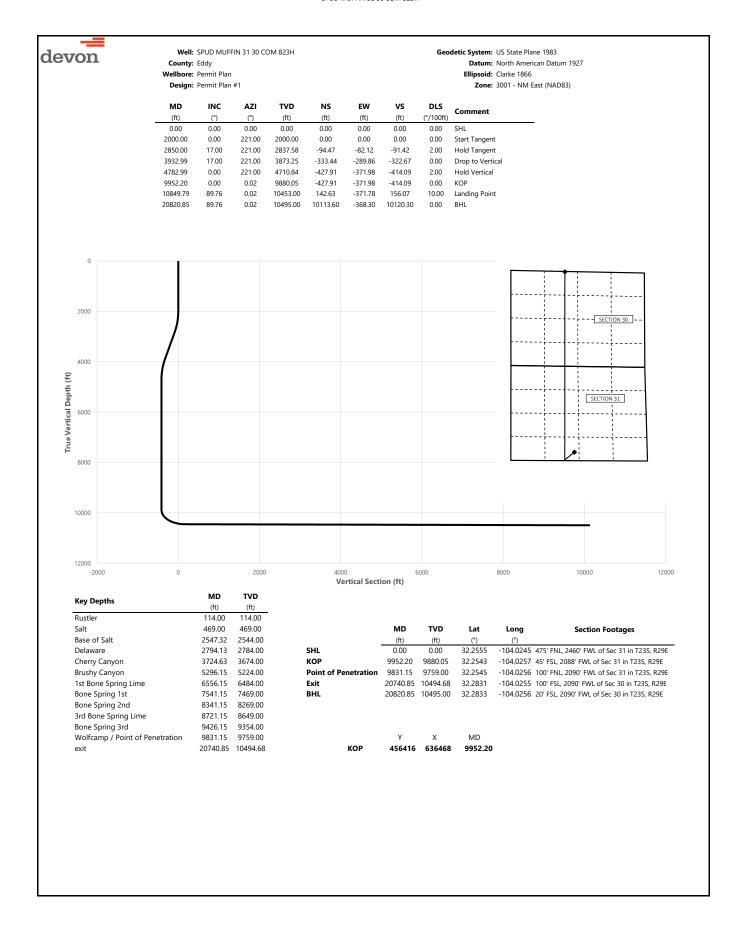
Form APD Conditions

Permit 362489

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-015-54966
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	SPUD MUFFIN 31 30 COM #823H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud





County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

	Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	6
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	221.00	100.00	0.00	0.00	0.00	0.00	
114.00	0.00	221.00	114.00	0.00	0.00	0.00	0.00	Rustler
200.00 300.00	0.00	221.00 221.00	200.00 300.00	0.00	0.00	0.00	0.00	
400.00	0.00	221.00	400.00	0.00	0.00	0.00	0.00	
469.00	0.00	221.00	469.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	221.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	221.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	221.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	221.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	221.00	900.00	0.00	0.00	0.00	0.00	
1000.00 1100.00	0.00	221.00 221.00	1000.00 1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	221.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	221.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	221.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	221.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	221.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	221.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	221.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	221.00	1900.00	0.00	0.00	0.00	0.00	Charle Tananana
2000.00 2100.00	0.00 2.00	221.00 221.00	2000.00 2099.98	0.00 -1.32	0.00 -1.14	0.00 -1.27	0.00 2.00	Start Tangent
2200.00	4.00	221.00	2199.84	-5.27	-4.58	-5.10	2.00	
2300.00	6.00	221.00	2299.45	-11.84	-10.30	-11.46	2.00	
2400.00	8.00	221.00	2398.70	-21.04	-18.29	-20.36	2.00	
2500.00	10.00	221.00	2497.47	-32.85	-28.55	-31.79	2.00	
2547.32	10.95	221.00	2544.00	-39.34	-34.20	-38.07	2.00	Base of Salt
2600.00	12.00	221.00	2595.62	-47.25	-41.07	-45.72	2.00	
2700.00 2794.13	14.00	221.00	2693.06	-64.22 -82.54	-55.83 -71.75	-62.15 -79.87	2.00 2.00	Delaware
2800.00	15.88 16.00	221.00 221.00	2784.00 2789.64	-83.76	-71.73	-79.87 -81.05	2.00	Delaware
2850.00	17.00	221.00	2837.58	-94.47	-82.12	-91.42	2.00	Hold Tangent
2900.00	17.00	221.00	2885.40	-105.51	-91.71	-102.10	0.00	.
3000.00	17.00	221.00	2981.03	-127.57	-110.90	-123.45	0.00	
3100.00	17.00	221.00	3076.66	-149.64	-130.08	-144.80	0.00	
3200.00	17.00	221.00	3172.29	-171.70	-149.26	-166.16	0.00	
3300.00	17.00	221.00	3267.92	-193.77	-168.44	-187.51	0.00	
3400.00 3500.00	17.00 17.00	221.00 221.00	3363.55 3459.18	-215.83 -237.90	-187.62 -206.80	-208.86 -230.22	0.00	
3600.00	17.00	221.00	3554.81	-259.96	-225.98	-251.57	0.00	
3700.00	17.00	221.00	3650.44	-282.03	-245.16	-272.92	0.00	
3724.63	17.00	221.00	3674.00	-287.47	-249.89	-278.18	0.00	Cherry Canyon
3800.00	17.00	221.00	3746.07	-304.10	-264.35	-294.27	0.00	
3900.00	17.00	221.00	3841.70	-326.16	-283.53	-315.63	0.00	
3932.99	17.00	221.00	3873.25	-333.44	-289.86	-322.67	0.00	Drop to Vertical
4000.00 4100.00	15.66	221.00	3937.56	-347.66 266.76	-302.22	-336.43	2.00	
4200.00	13.66 11.66	221.00 221.00	4034.30 4131.86	-366.76 -383.30	-318.82 -333.20	-354.91 -370.92	2.00 2.00	
4300.00	9.66	221.00	4230.13	-397.26	-345.33	-384.43	2.00	
4400.00	7.66	221.00	4328.98	-408.62	-355.21	-395.42	2.00	
4500.00	5.66	221.00	4428.31	-417.37	-362.82	-403.89	2.00	
4600.00	3.66	221.00	4527.97	-423.50	-368.15	-409.83	2.00	
4700.00	1.66	221.00	4627.86	-427.01	-371.19	-413.21	2.00	m toward
4782.99 4800.00	0.00	221.00 0.02	4710.84 4727.85	-427.91 -427.91	-371.98 -371.98	-414.09 -414.09	2.00 0.00	Hold Vertical
4900.00	0.00	0.02	4827.85	-427.91	-371.98	-414.09	0.00	
5000.00	0.00	0.02	4927.85	-427.91	-371.98	-414.09	0.00	
5100.00	0.00	0.02	5027.85	-427.91	-371.98	-414.09	0.00	
5200.00	0.00	0.02	5127.85	-427.91	-371.98	-414.09	0.00	
5296.15	0.00	0.02	5224.00	-427.91	-371.98	-414.09	0.00	Brushy Canyon
5300.00	0.00	0.02	5227.85	-427.91	-371.98	-414.09	0.00	
5400.00	0.00	0.02	5327.85	-427.91	-371.98	-414.09 414.00	0.00	
5500.00 5600.00	0.00	0.02 0.02	5427.85 5527.85	-427.91 -427.91	-371.98 -371.98	-414.09 -414.09	0.00	
5700.00	0.00	0.02	5627.85	-427.91 -427.91	-371.98	-414.09 -414.09	0.00	
5800.00	0.00	0.02	5727.85	-427.91	-371.98	-414.09	0.00	
5900.00	0.00	0.02	5827.85	-427.91	-371.98	-414.09	0.00	
6000.00	0.00	0.02	5927.85	-427.91	-371.98	-414.09	0.00	



County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

	Design.							
MD	INC	AZI	TVD	NS	EW	VS	DLS	C
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6100.00	0.00	0.02	6027.85	-427.91	-371.98	-414.09	0.00	
6200.00	0.00	0.02	6127.85	-427.91	-371.98	-414.09	0.00	
6300.00	0.00	0.02	6227.85	-427.91	-371.98	-414.09	0.00	
6400.00	0.00	0.02	6327.85	-427.91	-371.98	-414.09	0.00	
6500.00	0.00	0.02	6427.85	-427.91	-371.98	-414.09	0.00	
6556.15	0.00	0.02	6484.00	-427.91	-371.98	-414.09	0.00	1st Bone Spring Lime
6600.00	0.00	0.02	6527.85	-427.91	-371.98	-414.09	0.00	
6700.00	0.00	0.02	6627.85	-427.91	-371.98	-414.09	0.00	
6800.00	0.00	0.02	6727.85	-427.91	-371.98	-414.09	0.00	
6900.00	0.00	0.02	6827.85	-427.91	-371.98	-414.09	0.00	
7000.00	0.00	0.02		-427.91				
			6927.85		-371.98	-414.09	0.00	
7100.00	0.00	0.02	7027.85	-427.91	-371.98	-414.09	0.00	
7200.00	0.00	0.02	7127.85	-427.91	-371.98	-414.09	0.00	
7300.00	0.00	0.02	7227.85	-427.91	-371.98	-414.09	0.00	
7400.00	0.00	0.02	7327.85	-427.91	-371.98	-414.09	0.00	
7500.00	0.00	0.02	7427.85	-427.91	-371.98	-414.09	0.00	
7541.15	0.00	0.02	7469.00	-427.91	-371.98	-414.09	0.00	Bone Spring 1st
7600.00	0.00	0.02	7527.85	-427.91	-371.98	-414.09	0.00	
7700.00	0.00	0.02	7627.85	-427.91	-371.98	-414.09	0.00	
7800.00	0.00	0.02	7727.85	-427.91	-371.98	-414.09	0.00	
7900.00	0.00	0.02	7827.85	-427.91	-371.98	-414.09	0.00	
8000.00	0.00	0.02	7927.85	-427.91	-371.98	-414.09	0.00	
8100.00	0.00	0.02	8027.85	-427.91	-371.98	-414.09	0.00	
8200.00	0.00	0.02	8127.85	-427.91	-371.98	-414.09	0.00	
8300.00	0.00	0.02	8227.85	-427.91	-371.98	-414.09	0.00	
8341.15	0.00	0.02	8269.00	-427.91	-371.98	-414.09	0.00	Bone Spring 2nd
8400.00	0.00	0.02	8327.85	-427.91	-371.98	-414.09	0.00	50.10 Sp.11.1g 2.11d
8500.00	0.00	0.02	8427.85	-427.91	-371.98	-414.09	0.00	
8600.00	0.00	0.02	8527.85	-427.91	-371.98	-414.09	0.00	
		0.02					0.00	
8700.00	0.00		8627.85	-427.91 427.01	-371.98	-414.09		2nd Bana Carina Lina
8721.15	0.00	0.02	8649.00	-427.91	-371.98	-414.09	0.00	3rd Bone Spring Lime
8800.00	0.00	0.02	8727.85	-427.91	-371.98	-414.09	0.00	
8900.00	0.00	0.02	8827.85	-427.91	-371.98	-414.09	0.00	
9000.00	0.00	0.02	8927.85	-427.91	-371.98	-414.09	0.00	
9100.00	0.00	0.02	9027.85	-427.91	-371.98	-414.09	0.00	
9200.00	0.00	0.02	9127.85	-427.91	-371.98	-414.09	0.00	
9300.00	0.00	0.02	9227.85	-427.91	-371.98	-414.09	0.00	
9400.00	0.00	0.02	9327.85	-427.91	-371.98	-414.09	0.00	
9426.15	0.00	0.02	9354.00	-427.91	-371.98	-414.09	0.00	Bone Spring 3rd
9500.00	0.00	0.02	9427.85	-427.91	-371.98	-414.09	0.00	
9600.00	0.00	0.02	9527.85	-427.91	-371.98	-414.09	0.00	
9700.00	0.00	0.02	9627.85	-427.91	-371.98	-414.09	0.00	
9800.00	0.00	0.02	9727.85	-427.91	-371.98	-414.09	0.00	
9831.15	0.00	0.02	9759.00	-427.91	-371.98	-414.09	0.00	Wolfcamp / Point of Penetration
9900.00	0.00	0.02	9827.85	-427.91	-371.98	-414.09	0.00	
9952.20	0.00	0.02	9880.05	-427.91	-371.98	-414.09	0.00	KOP
10000.00	4.78	0.02	9927.79	-427.91 -425.92	-371.98	-412.10	10.00	
10100.00	4.78 14.78			-425.92 -408.96	-371.96 -371.97	-412.10 -395.15	10.00	
		0.02	10026.21					
10200.00	24.78	0.02	10120.19	-375.16	-371.96	-361.37	10.00	
10300.00	34.78	0.02	10206.88	-325.56	-371.94	-311.80	10.00	
10400.00	44.78	0.02	10283.63	-261.65	-371.92	-247.94	10.00	
10500.00	54.78	0.02	10348.12	-185.39	-371.90	-171.74	10.00	
10600.00	64.78	0.02	10398.39	-99.09	-371.86	-85.49	10.00	
10700.00	74.78	0.02	10432.91	-5.37	-371.83	8.16	10.00	
10800.00	84.78	0.02	10450.63	92.91	-371.80	106.38	10.00	
10849.79	89.76	0.02	10453.00	142.63	-371.78	156.07	10.00	Landing Point
10900.00	89.76	0.02	10453.21	192.84	-371.76	206.24	0.00	
11000.00	89.76	0.02	10453.63	292.84	-371.73	306.18	0.00	
11100.00	89.76	0.02	10454.05	392.84	-371.69	406.11	0.00	
11200.00	89.76	0.02	10454.48	492.84	-371.66	506.04	0.00	
11300.00	89.76	0.02	10454.90	592.84	-371.62	605.97	0.00	
11400.00	89.76	0.02	10455.32	692.84	-371.59	705.90	0.00	
11500.00	89.76	0.02	10455.74	792.84	-371.55	805.83	0.00	
11600.00	89.76	0.02	10456.16	892.84	-371.52	905.76	0.00	
11700.00	89.76		10456.16	992.83	-371.32	1005.70	0.00	
		0.02						
11800.00	89.76	0.02	10457.00	1092.83	-371.45	1105.63	0.00	
11900.00	89.76	0.02	10457.43	1192.83	-371.41	1205.56	0.00	
12000.00	89.76	0.02	10457.85	1292.83	-371.38	1305.49	0.00	
				1392.83	-371.34	1405.42	0.00	
12100.00 12200.00	89.76 89.76	0.02 0.02	10458.27 10458.69	1492.83	-371.31	1505.35	0.00	



County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

	Design: Permit Plan #1							Zone: 3001 - NM East (NAD83)			
MD	INC	AZI	TVD	NS	EW	vs	DLS				
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
2300.00	89.76	0.02	10459.11	1592.83	-371.27	1605.29	0.00				
2400.00	89.76	0.02	10459.53	1692.83	-371.24	1705.22	0.00				
2500.00	89.76	0.02	10459.95	1792.83	-371.20	1805.15	0.00				
2600.00	89.76	0.02	10459.93	1892.83	-371.20	1905.08	0.00				
2700.00	89.76	0.02	10460.80	1992.83	-371.17	2005.01	0.00				
2800.00	89.76	0.02	10461.22	2092.82	-371.10	2104.94	0.00				
2900.00	89.76	0.02	10461.64	2192.82	-371.06	2204.88	0.00				
3000.00	89.76	0.02	10462.06	2292.82	-371.03	2304.81	0.00				
3100.00	89.76	0.02	10462.48	2392.82	-371.00	2404.74	0.00				
3200.00	89.76	0.02	10462.90	2492.82	-370.96	2504.67	0.00				
3300.00	89.76	0.02	10463.32	2592.82	-370.93	2604.60	0.00				
3400.00	89.76	0.02	10463.75	2692.82	-370.89	2704.53	0.00				
3500.00	89.76	0.02	10464.17	2792.82	-370.86	2804.47	0.00				
3600.00	89.76	0.02	10464.59	2892.82	-370.82	2904.40	0.00				
3700.00	89.76	0.02	10465.01	2992.82	-370.79	3004.33	0.00				
3800.00	89.76	0.02	10465.43	3092.82	-370.75	3104.26	0.00				
3900.00	89.76	0.02	10465.85	3192.81	-370.72	3204.19	0.00				
4000.00	89.76	0.02	10466.27	3292.81	-370.68	3304.12	0.00				
4100.00	89.76	0.02	10466.69	3392.81	-370.65	3404.05	0.00				
4200.00	89.76	0.02	10467.12	3492.81	-370.61	3503.99	0.00				
4300.00	89.76	0.02	10467.54	3592.81	-370.58	3603.92	0.00				
4400.00	89.76	0.02	10467.96	3692.81	-370.54	3703.85	0.00				
4500.00	89.76	0.02	10468.38	3792.81	-370.51	3803.78	0.00				
4600.00	89.76	0.02	10468.80	3892.81	-370.47	3903.71	0.00				
4700.00	89.76	0.02	10469.22	3992.81	-370.44	4003.64	0.00				
4800.00	89.76	0.02	10469.64	4092.81	-370.40	4103.58	0.00				
4900.00	89.76	0.02	10470.07	4192.81	-370.37	4203.51	0.00				
5000.00	89.76	0.02	10470.49	4292.81	-370.33	4303.44	0.00				
5100.00	89.76	0.02	10470.43	4392.80	-370.30	4403.37	0.00				
5200.00	89.76	0.02	10470.31	4492.80	-370.36		0.00				
						4503.30					
5300.00	89.76	0.02	10471.75	4592.80	-370.23	4603.23	0.00				
5400.00	89.76	0.02	10472.17	4692.80	-370.19	4703.17	0.00				
5500.00	89.76	0.02	10472.59	4792.80	-370.16	4803.10	0.00				
5600.00	89.76	0.02	10473.02	4892.80	-370.12	4903.03	0.00				
5700.00	89.76	0.02	10473.44	4992.80	-370.09	5002.96	0.00				
5800.00	89.76	0.02	10473.86	5092.80	-370.05	5102.89	0.00				
5900.00	89.76	0.02	10474.28	5192.80	-370.02	5202.82	0.00				
6000.00	89.76	0.02	10474.70	5292.80	-369.98	5302.75	0.00				
6100.00	89.76	0.02	10475.12	5392.80	-369.95	5402.69	0.00				
6200.00	89.76	0.02	10475.54	5492.79	-369.91	5502.62	0.00				
6300.00	89.76	0.02	10475.96	5592.79	-369.88	5602.55	0.00				
6400.00	89.76	0.02	10476.39	5692.79	-369.84	5702.48	0.00				
6500.00	89.76	0.02	10476.81	5792.79	-369.81	5802.41	0.00				
6600.00	89.76	0.02	10477.23	5892.79	-369.77	5902.34	0.00				
6700.00	89.76	0.02	10477.65	5992.79	-369.74	6002.28	0.00				
6800.00	89.76	0.02	10478.07	6092.79	-369.70	6102.21	0.00				
6900.00	89.76	0.02	10478.49	6192.79	-369.67	6202.14	0.00				
7000.00	89.76	0.02	10478.91	6292.79	-369.63	6302.07	0.00				
7100.00	89.76	0.02	10479.34	6392.79	-369.60	6402.00	0.00				
7200.00	89.76	0.02	10479.76	6492.79	-369.56	6501.93	0.00				
7300.00	89.76	0.02	10480.18	6592.78	-369.53	6601.87	0.00				
7400.00	89.76	0.02	10480.10	6692.78	-369.49	6701.80	0.00				
7500.00	89.76	0.02	10480.00	6792.78	-369.49	6801.73	0.00				
7600.00	89.76	0.02	10481.44	6892.78	-369.42	6901.66	0.00				
7700.00	89.76	0.02	10481.86	6992.78	-369.39	7001.59	0.00				
7800.00	89.76	0.02	10482.28	7092.78	-369.35	7101.52	0.00				
7900.00	89.76	0.02	10482.71	7192.78	-369.32	7201.46	0.00				
8000.00	89.76	0.02	10483.13	7292.78	-369.28	7301.39	0.00				
8100.00	89.76	0.02	10483.55	7392.78	-369.25	7401.32	0.00				
8200.00	89.76	0.02	10483.97	7492.78	-369.21	7501.25	0.00				
8300.00	89.76	0.02	10484.39	7592.78	-369.18	7601.18	0.00				
8400.00	89.76	0.02	10484.81	7692.77	-369.15	7701.11	0.00				
8500.00	89.76	0.02	10485.23	7792.77	-369.11	7801.04	0.00				
8600.00	89.76	0.02	10485.66	7892.77	-369.08	7900.98	0.00				
8700.00	89.76	0.02	10486.08	7992.77	-369.04	8000.91	0.00				
	89.76	0.02	10486.50	8092.77	-369.01	8100.84	0.00				
00.0088	05.70	-		8192.77	-368.97	8200.77	0.00				
		0.02	10486.92								
8900.00	89.76	0.02 0.02	10486.92 10487.34			8300.70	0.00				
8900.00 9000.00	89.76 89.76	0.02	10487.34	8292.77	-368.94	8300.70 8400.63	0.00				
8900.00	89.76					8300.70 8400.63 8500.57	0.00 0.00 0.00				



County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19300.00	89.76	0.02	10488.61	8592.77	-368.83	8600.50	0.00	_
19400.00	89.76	0.02	10489.03	8692.77	-368.80	8700.43	0.00	
19500.00	89.76	0.02	10489.45	8792.76	-368.76	8800.36	0.00	
19600.00	89.76	0.02	10489.87	8892.76	-368.73	8900.29	0.00	
19700.00	89.76	0.02	10490.29	8992.76	-368.69	9000.22	0.00	
19800.00	89.76	0.02	10490.71	9092.76	-368.66	9100.16	0.00	
19900.00	89.76	0.02	10491.13	9192.76	-368.62	9200.09	0.00	
20000.00	89.76	0.02	10491.55	9292.76	-368.59	9300.02	0.00	
20100.00	89.76	0.02	10491.98	9392.76	-368.55	9399.95	0.00	
20200.00	89.76	0.02	10492.40	9492.76	-368.52	9499.88	0.00	
20300.00	89.76	0.02	10492.82	9592.76	-368.48	9599.81	0.00	
20400.00	89.76	0.02	10493.24	9692.76	-368.45	9699.74	0.00	
20500.00	89.76	0.02	10493.66	9792.76	-368.41	9799.68	0.00	
20600.00	89.76	0.02	10494.08	9892.76	-368.38	9899.61	0.00	
20700.00	89.76	0.02	10494.50	9992.75	-368.34	9999.54	0.00	
20740.85	89.76	0.02	10494.68	10033.60	-368.33	10040.36	0.00	exit
20800.00	89.76	0.02	10494.93	10092.75	-368.31	10099.47	0.00	
20820.85	89.76	0.02	10495.00	10113.60	-368.30	10120.30	0.00	BHL

SPUD MUFFIN 31 30 COM 823H

1. Geologic Formations

TVD of target	10495	Pilot hole depth	N/A
MD at TD:	20821	Deepest expected fresh water	

Basin

Dasin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	114		
Salt	469		
Base of Salt	2544		
Delaware	2784		
Cherry Canyon	3674		
Brushy Canyon	5224		
1st Bone Spring Lime	6484		
Bone Spring 1st	7469		
Bone Spring 2nd	8269		
3rd Bone Spring Lime	8649		
Bone Spring 3rd	9354		
Wolfcamp	9759		
			_

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	139	0	139
9 7/8	8 5/8	32	P110HSCY	MOFXL	0	9852	0	9852
7 7/8	5 1/2	20	P110	DWC/C-IS+	0	20821	0	10495

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

3. Cementing Program (Primary Design)

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

Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	104	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	376	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIIt I	529	5296	13.2	1.44	Tail: Class H / C + additives
Production	117	7952	9	3.27	Lead: Class H /C + additives
Floduction	1438	9952	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:	
			Annular		X	50% of rated working pressure	
Int 1	13-5/8"	5M	Blind	d Ram	X		
IIIt I	13-3/6	3111		Ram		5M	
			Doub	le Ram	X	3101	
			Other*				
	13-5/8" 5M	Annular (5M)		X	50% of rated working pressure		
Production		5M	Blind Ram		X		
Troduction		3101	Pipe Ram Double Ram			5M	
					X	3101	
			Other*				
			Annul	ar (5M)			
		Bline		d Ram			
			Pipe	Ram			
			Double Ram				
			Other*				
N A variance is requested for	or the use of a diverter on the surface casing. See attached for schematic.						
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system						

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5730
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM

measured va	nues und formations will be provided to the BEM.
	H2S is present
Y	H2S plan attached.

SPUD MUFFIN 31 30 COM 823H

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 pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachme	ents
X	Directional Plan
	Other, describe



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

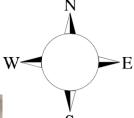
Spud Muffin 31 30 Com 823H

Sec-31 T-23S R-29E 475' FSL & 2460' FWL LAT. = 32.2555602 N (NAD83) LONG = 104.0243881 W

Eddy County NM

Spud Muffin 31 30 Com 823H

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
 - o 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	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit	nazaruous Liinit	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 H_2S 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 H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- 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.

Fire extinguishers are located at various locations around the rig. First Aid supplies are located in the top doghouse and the rig manger's office.

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 10 ppm. Sensor locations:

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

4. 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.

5. 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.

6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.

All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

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

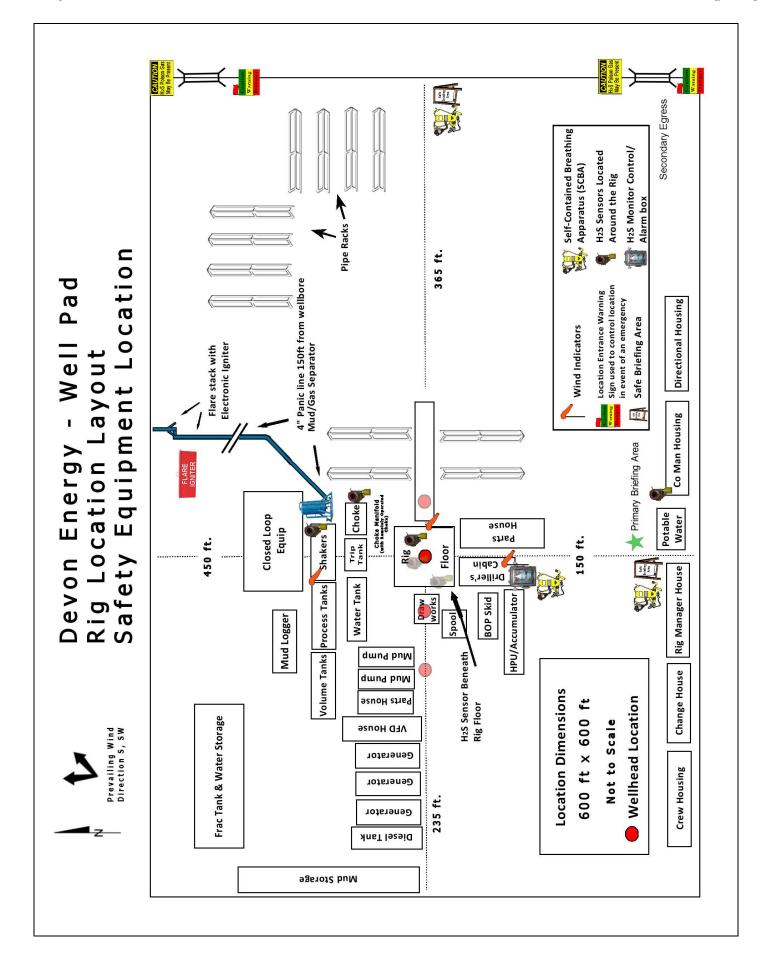
8. Well testing:

- 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.

Devon En	ergy Corp. Company C	all List						
	ee/Company Contact Representative	Position	Phone Number	After Hours Number				
Jonathan	Fisher (North)	Drilling Manager	832-967-7912					
Jason Hild	debrand (South)	Drilling Manager	405-552-6514					
Rich Dowr		Drilling VP	405-228-2415					
Josh Harv		EHS Manger	405-228-2440	918-500-5536				
Laura Wrig		EHS Supervisor	405-552-5334	832-969-8145				
Robert Glo		EHS Professional	575-703-5712	575-703-5712				
Lane Fran		Lead EHS	580-579-7052	580-579-7052				
Rickey Po		Lead EHS	903-720-8315	903-720-8315				
Brock Vise	9	Lead EHS	918-413-3291	918-413-3291				
Agency	Call List							
Lea	Hobbs							
County	Lea County Communic	ation Authority		397-9265				
<u>(575)</u>	State Police			885-3138				
	City Police			397-9265				
	Sheriff's Office			396-3611				
		Ambulance 9 ⁻						
	Fire Department		397-9308					
	LEPC (Local Emergen	cy Planning Committe	ee)	393-2870 393-6161				
		NMOCD						
	US Bureau of Land Ma	nagement (Hobbs Of	fice Closed)	393-0002				
Eddy	Carlsbad							
County	State Police			885-3137				
<u>(575)</u>	City Police		885-2111					
		Sheriff's Office						
	Ambulance		911					
	Fire Department		885-3125					
	LEPC (Local Emergen	<u> </u>		887-3798				
	US Bureau of Land M	anagement (Carlsba	ad)	(575)-706-1920				
	DIM OFO			(575)-234-5909				
	BLM – CFO BLM – PET Petroleur	n Engineering Tech	ON CALL -	(575) 234-5972 (575) 689-5981				
	Cement Notifications	•		(373) 669-3961				
	NM Emergency Respo	nse Commission (Sa	nta Fe)	(505) 476-9600				
	24 HR		(505) 827-9126					
	National Emergency R		(800) 424-8802					
	National Pollution Cont		(703) 872-6000					
	For Oil Spills (800) 280-7118							
	Emergency Services							
	Wild Well Control			(281) 784-4700				
	Cudd Pressure Control	(91	5) 699-0139	(915) 563-3356				
	Halliburton	,	(575) 746-2757					
	B. J. Services			(575) 746-3569				

Give	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
position:	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
	BNSF Railroad Resource Operations	800-832-5452
	NM OSHA – Santa Fe	505-222-9595
	NM OSHA (Reporting)	877-610-6742
		505-476-8700

Prepared in conjunction with Dave Small



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: 3 / 26 / 2024							
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	If Other, please describe:						
III. Well(s): Provide the be recompleted from a si					vells proposed to	be drille	ed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated duced Water BBL/D
See Attached							
	IV. Central Delivery Point Name: SEE ATTACHMENTS [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 Completion Initial Flow First Production Date Commencement Date Back Date 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. \square 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	\square will \square will not have	capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first	st production.		

XIII. Line Pressure. Operator \square does \square 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).

l Attach (Onerator's nl	an to man	age productio	on in respoi	ise to the incre	eased line pressure

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	ided 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 info	rmation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a) power generation for grid; **(b)** (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; **(f)** reinjection for temporary storage; reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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:							

NATURAL GAS MANAGEMENT PLAN												
Section 1 - Plan Description												
i. Well(s): Provide the following informat	ion for each new or recompleted well or set	of wells propo	sed to be drill	ed or proposed	to be recomp	leted from a	single well pac	or connec	ted to a central delive	ry point.		
											Anticipated	Anticipated
										Anticipated	Gas	Produced Water
/ell Name	Central Delivery Point Name:	API	ULSTR			FOOTAGES				Oil BBL/D	MCF/D	BBL/D
PUD MUFFIN 31 30 COM 823H	Spud Muffin 31 CTB 1			23S-29E-31	475	475 FSL 2460 FWL			WOLFCAMP	(+/-)807bopd/(+/-)5932mcfd/(-		/(+/-)3305bwpd
. Anticipated Schedule: Provide the follow	wing information for each new or recomplet	ed well or set o	f wells propo	sed to be drille	d or proposed	to be recomp	oleted from a s	ingle well	pad or connected to a	central deliver	y point.	
					Completion		First					
				TD Reached	Commencem		Production					
'ell Name		API	Spud Date	Date	ent Date	back Date	Date					
PUD MUFFIN 31 30 COM 823H			7/1/2024	7/31/2024	11/28/2024	11/28/2024	11/28/2024					
dates above 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.