<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**

Form C-101 August 1, 2011

Permit 287447

APPLICATION FOR PERMIT TO DRIL	_, RE-ENTER, DEEPEN	I, PLUGBACK	, OR ADD A ZONE
--------------------------------	---------------------	-------------	-----------------

Operator Name and Address	2. OGRID Number							
DEVON ENERGY PRODUCTION CO	6137							
333 West Sheridan Ave.	3. API Number							
Oklahoma City, OK 73102		30-015-47572						
4. Property Code	5. Property Name	6. Well No.						
320827	SPUD MUFFIN 31 30	235H						

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	31	23S	29E	0	625	S	1835	E	Eddy

8. Proposed Bottom Hole Location

I	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	В	30	23S	29E	В	20	N	1320	E	Eddv

9. Pool Information

CEDAR CANYON;BONE SPRING	11520	

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2959
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	18860	Bone Spring		6/1/2021
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	17.5	13.375	48	139	139	0
Int1	12.25	9.625	40	2644	420	0
Prod	8.75	5.5	17	18860	2591	2144

Casing/Cement Program: Additional Comments

Int 1 Intermediate Squeeze Sks - As Needed TOC @ Surf WT 9.0 YLD 3.3 Slurry Description - Squeeze Lead: Class C Cement + additives Sks - 266 TOC @ Surf WT 9.0 YLD 3.3 Slurry Description - Lead: Class C Cement + additives Sks - 154 TOC @ 500' above shoe WT 13.2 YLD 1.4 Slurry Description - Tail: Class H / C + additives

22. Proposed Blowout Prevention Program

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

knowledge and be	Signature:			OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Jeff Walla		Approved By:	Scott Cox		
Title:	Supervisor Land		Title:	Petroleum Engineer Supervis	sor	
Email Address: Jeff.Walla@dvn.com			Approved Date:	10/27/2020 Expiration Date: 10/27/2022		
Date:	10/13/2020	Conditions of Appr	oval Attached	_		

District I

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Phone: (575) 748-1283 Fax: (575) 748-9720

District IV

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

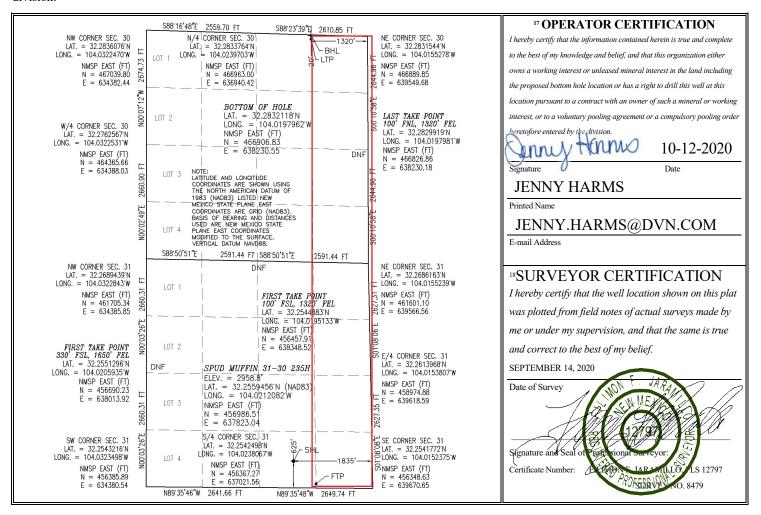
Santa Fe, NM 87505

¹ API Numb	er	² Pool Code					
11520 CEDAR CANYON;BONE S		SPRING					
⁴ Property Code		5 Pı	⁶ Well Number				
		SPUD N	MUFFIN 31-30	235H			
⁷ OGRID No.		8 O	⁹ Elevation				
6137	DEVO	N ENERGY PRO	2958.8				

¹⁰ Surface Location

					Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	31	23 S	29 E		625	SOUTH	1835	EAST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	30	23 S	29 E		20	NORTH	1320	EAST	EDDY
12 Dedicated Acre	s 13 Joint	or Infill 14	Consolidatio	n Code			15 Order No.		
320									

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.



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District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 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**

		GAS CAPTURE	PLAN			
Date: 10/27/2020						
☑ Original	Operator & OGRID No.:	[6137] DEVON ENERGY PRODU	CTION COMPANY, LP			
☐ Amended - Reason for Amendment:						
This Gas Capture Plan outlines ac Note: Form C-129 must be submit Well(s)/Production Facility – Nam The well(s) that will be located at t	ted and approved prior to exceed	ling 60 days allowed by Rule (Sub			complete to flew	zone, re-irau) activity.
Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SPUD MUFFIN 31 30 #235H	30-015-47572	O-31-23S-29E	0625S 1835E	3	None	
Gathering System and Pipeline N Well(s) will be connected to a pro- DCP OPERATING COMPANY, LP Mexico. It will require 2000' to DCP OPERATING COMPANY. I.	duction facility after flowback ope and will be connected to <u>D</u> of pipeline to connect the facility to	rations are complete, if gas transp CP OPERATING COMPANY, LP <u>High/Low Pressure</u> gathering : estimated first production date fo	High/Low Pressure system. DEVON ENERGY	gathering system lo / PRODUCTION CO	cated in <u>Lea</u> MPANY, LP	County, New provides (periodically

Flowback Strategy

DEVON ENERGY PRODUCTION COMPANY, LP

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP OPERATING COMPANY, LP system at that time. Based on current information, it is DEVON ENERGY PRODUCTION COMPANY, LP's belief the system can take this gas upon completion of the well(s).

have periodic conference calls to discuss changes to drilling and completion

Processing Plant located in Sec. 05, Twn. 21S, Rng. 36E, Lea

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

schedules. Gas from these wells will be processed at DCP OPERATING COMPANY, LP

- Power Generation On lease
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

and DCP OPERATING COMPANY, LP

New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

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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 Comments

Permit 287447

PERMIT COMMENTS

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-015-47572
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	SPUD MUFFIN 31 30 #235H

Created By	Comment	Comment Date
drebecca	C-102, Plats, Drilling Plan, Directional Plan, GCP & H2S Plan attached in Sec 7 - Forms.	10/12/2020

Form APD Conditions

Permit 287447

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

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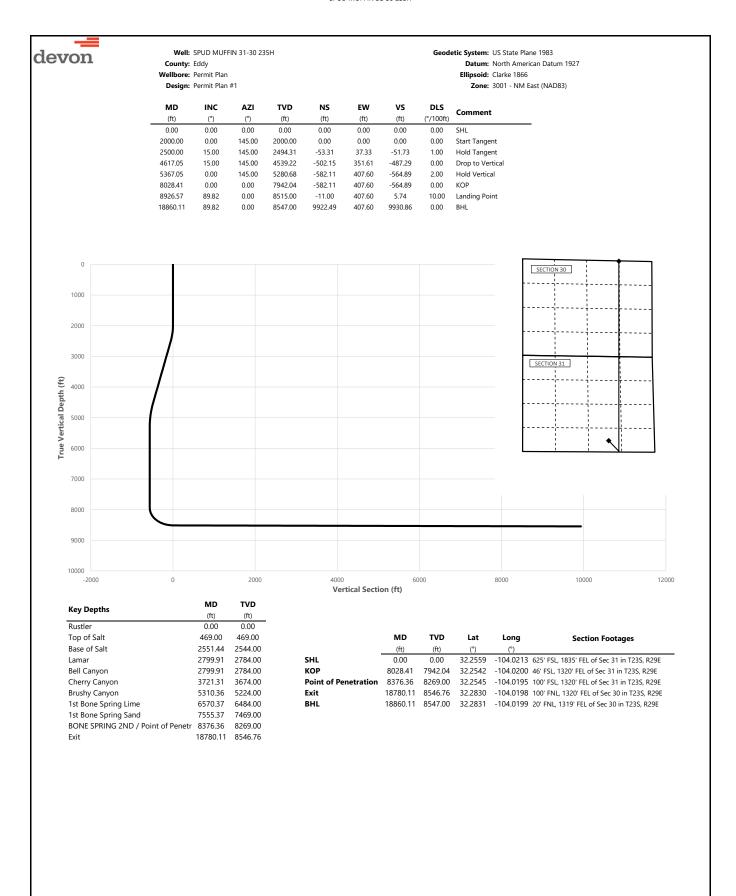
1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-015-47572
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	SPUD MUFFIN 31 30 #235H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Will require a administrative order for non-standard location prior to placing the well on production.
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days
kpickford	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





Well: SPUD MUFFIN 31-30 235H

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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

	Design:	Permit Plan	1#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(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	145.00	100.00	0.00	0.00	0.00	0.00	
114.00	0.00	145.00	114.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	145.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	145.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	145.00	400.00	0.00	0.00	0.00	0.00	
469.00	0.00	145.00	469.00	0.00	0.00	0.00	0.00	Top of Salt
500.00	0.00	145.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	145.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	145.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	145.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	145.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	145.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	145.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	145.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	145.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	145.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	145.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	145.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	145.00	1700.00	0.00	0.00	0.00	0.00	
1800.00 1900.00	0.00	145.00 145.00	1800.00 1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	145.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	3.00	145.00	2099.95	-2.14	1.50	-2.08	3.00	Start rangent
2200.00	6.00	145.00	2199.63	-8.57	6.00	-8.32	3.00	
2300.00	9.00	145.00	2298.77	-19.26	13.49	-18.69	3.00	
2400.00	12.00	145.00	2397.08	-34.19	23.94	-33.18	3.00	
2500.00	15.00	145.00	2494.31	-53.31	37.33	-51.73	1.00	Hold Tangent
2551.44	15.00	145.00	2544.00	-64.21	44.96	-62.32	0.00	Base of Salt
2600.00	15.00	145.00	2590.90	-74.51	52.17	-72.30	0.00	
2700.00	15.00	145.00	2687.49	-95.71	67.02	-92.88	0.00	
2799.91	15.00	145.00	2784.00	-116.89	81.85	-113.43	0.00	Lamar, Bell Canyon
2800.00	15.00	145.00	2784.09	-116.91	81.86	-113.45	0.00	
2900.00	15.00	145.00	2880.68	-138.11	96.71	-134.03	0.00	
3000.00	15.00	145.00	2977.27	-159.31	111.55	-154.60	0.00	
3100.00	15.00	145.00	3073.86	-180.51	126.40	-175.17	0.00	
3200.00	15.00	145.00	3170.46	-201.72	141.24	-195.75	0.00	
3300.00	15.00	145.00	3267.05	-222.92	156.09	-216.32	0.00	
3400.00	15.00	145.00	3363.64	-244.12	170.93	-236.90	0.00	
3500.00	15.00	145.00	3460.23	-265.32	185.78	-257.47	0.00	
3600.00	15.00	145.00	3556.83	-286.52	200.62	-278.04	0.00	
3700.00	15.00	145.00	3653.42	-307.72	215.47	-298.62	0.00	Character Control
3721.31	15.00	145.00	3674.00	-312.24	218.63	-303.00	0.00	Cherry Canyon
3800.00	15.00	145.00	3750.01	-328.92	230.32	-319.19	0.00	
3900.00	15.00	145.00	3846.60	-350.12	245.16	-339.77	0.00	
4000.00 4100.00	15.00 15.00	145.00 145.00	3943.20 4039.79	-371.33 -392.53	260.01 274.85	-360.34 -380.91	0.00	
4200.00	15.00	145.00	4136.38	-392.53 -413.73	289.70	-401.49	0.00	
4300.00	15.00	145.00	4232.97	-413.73 -434.93	304.54	-422.06	0.00	
4400.00	15.00	145.00	4329.57	-456.13	319.39	-442.64	0.00	
4500.00	15.00	145.00	4426.16	-477.33	334.23	-463.21	0.00	
4600.00	15.00	145.00	4522.75	-498.53	349.08	-483.78	0.00	
4617.05	15.00	145.00	4539.22	-502.15	351.61	-487.29	0.00	Drop to Vertical
4700.00	13.34	145.00	4619.64	-518.78	363.26	-503.44	2.00	
4800.00	11.34	145.00	4717.33	-536.29	375.51	-520.42	2.00	
4900.00	9.34	145.00	4815.70	-550.99	385.81	-534.69	2.00	
5000.00	7.34	145.00	4914.64	-562.87	394.13	-546.22	2.00	
5100.00	5.34	145.00	5014.02	-571.92	400.46	-555.00	2.00	
5200.00	3.34	145.00	5113.73	-578.12	404.81	-561.02	2.00	
5300.00	1.34	145.00	5213.64	-581.47	407.15	-564.27	2.00	
5310.36	1.13	145.00	5224.00	-581.65	407.28	-564.44	2.00	Brushy Canyon
5367.05	0.00	145.00	5280.68	-582.11	407.60	-564.89	2.00	Hold Vertical
5400.00	0.00	0.00	5313.63	-582.11	407.60	-564.89	0.00	
5500.00	0.00	0.00	5413.63	-582.11	407.60	-564.89	0.00	
5600.00	0.00	0.00	5513.63	-582.11	407.60	-564.89	0.00	
5700.00	0.00	0.00	5613.63 5712.62	-582.11 582.11	407.60	-564.89	0.00	
5800.00 5900.00	0.00	0.00	5713.63 5813.63	-582.11 -582.11	407.60 407.60	-564.89 -564.89	0.00	
6000.00	0.00	0.00	5913.63	-582.11 -582.11	407.60	-564.89 -564.89	0.00	
6100.00	0.00	0.00	6013.63	-582.11	407.60	-564.89	0.00	
3100.00	5.00	5.50	5515.05	JUL. 11	.57.50	504.05	3.00	

.Devon - Internal



Well: SPUD MUFFIN 31-30 235H

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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

	Design:	Permit Pla	n # I				Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS				
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
6200.00	0.00	0.00	6113.63	-582.11	407.60	-564.89	0.00				
6300.00	0.00	0.00	6213.63	-582.11	407.60	-564.89	0.00				
6400.00	0.00	0.00	6313.63	-582.11	407.60	-564.89	0.00				
6500.00	0.00	0.00	6413.63	-582.11	407.60	-564.89	0.00				
6570.37	0.00	0.00	6484.00	-582.11	407.60	-564.89	0.00	1st Bone Spring Lime			
6600.00	0.00	0.00	6513.63	-582.11	407.60	-564.89	0.00				
6700.00	0.00	0.00	6613.63	-582.11	407.60	-564.89	0.00				
6800.00	0.00	0.00	6713.63	-582.11	407.60	-564.89	0.00				
6900.00	0.00	0.00	6813.63	-582.11	407.60	-564.89	0.00				
7000.00	0.00	0.00	6913.63	-582.11	407.60	-564.89	0.00				
7100.00	0.00	0.00	7013.63	-582.11	407.60	-564.89	0.00				
7200.00	0.00	0.00	7113.63	-582.11	407.60	-564.89	0.00				
7300.00	0.00	0.00	7213.63	-582.11	407.60	-564.89	0.00				
7400.00	0.00	0.00	7313.63	-582.11	407.60	-564.89	0.00				
7500.00	0.00	0.00	7413.63	-582.11	407.60	-564.89	0.00				
7555.37	0.00	0.00	7469.00	-582.11	407.60	-564.89	0.00	1st Bone Spring Sand			
7600.00	0.00	0.00	7513.63	-582.11	407.60	-564.89	0.00				
7700.00	0.00	0.00	7613.63	-582.11	407.60	-564.89	0.00				
7800.00	0.00	0.00	7713.63	-582.11	407.60	-564.89	0.00				
7900.00	0.00	0.00	7813.63	-582.11	407.60	-564.89	0.00				
8000.00	0.00	0.00	7913.63	-582.11	407.60	-564.89	0.00	VOD			
8028.41	0.00	0.00	7942.04	-582.11	407.60	-564.89	0.00	KOP			
8100.00	7.16	0.00	8013.45	-577.64	407.60	-560.43	10.00				
8200.00 8300.00	17.16	0.00	8111.08	-556.61 -518.94	407.60	-539.41 -501.77	10.00 10.00				
8376.36	27.16 34.80	0.00	8203.58 8269.00	-316.94 -479.66	407.60 407.60	-462.53	10.00	BONE SPRING 2ND / Point of Penetration			
8400.00	37.16	0.00	8288.13	-465.78	407.60	-448.66	10.00	BONE SPRING ZND / Politic of Perfectiation			
8500.00	47.16	0.00	8362.16	-398.75	407.60	-381.68	10.00				
8600.00	57.16	0.00	8423.43	-319.87	407.60	-302.88	10.00				
8700.00	67.16	0.00	8470.07	-231.56	407.60	-214.64	10.00				
8800.00	77.16	0.00	8500.67	-136.49	407.60	-119.65	10.00				
8900.00	87.16	0.00	8514.30	-37.55	407.60	-20.79	10.00				
8926.57	89.82	0.00	8515.00	-11.00	407.60	5.74	10.00	Landing Point			
9000.00	89.82	0.00	8515.24	62.44	407.60	79.11	0.00				
9100.00	89.82	0.00	8515.56	162.44	407.60	179.03	0.00				
9200.00	89.82	0.00	8515.88	262.43	407.60	278.94	0.00				
9300.00	89.82	0.00	8516.20	362.43	407.60	378.86	0.00				
9400.00	89.82	0.00	8516.53	462.43	407.60	478.77	0.00				
9500.00	89.82	0.00	8516.85	562.43	407.60	578.69	0.00				
9600.00	89.82	0.00	8517.17	662.43	407.60	678.60	0.00				
9700.00	89.82	0.00	8517.49	762.43	407.60	778.52	0.00				
9800.00	89.82	0.00	8517.81	862.43	407.60	878.43	0.00				
9900.00	89.82	0.00	8518.14	962.43	407.60	978.35	0.00				
10000.00	89.82	0.00	8518.46	1062.43	407.60	1078.27	0.00				
10100.00	89.82	0.00	8518.78	1162.43	407.60	1178.18	0.00				
10200.00	89.82	0.00	8519.10	1262.43	407.60	1278.10	0.00				
10300.00	89.82	0.00	8519.43	1362.43	407.60	1378.01	0.00				
10400.00	89.82	0.00	8519.75	1462.43	407.60	1477.93	0.00				
10500.00	89.82	0.00	8520.07	1562.43	407.60	1577.84	0.00				
10600.00	89.82	0.00	8520.39	1662.43	407.60	1677.76	0.00				
10700.00	89.82	0.00	8520.72	1762.43	407.60	1777.67	0.00				
10800.00	89.82	0.00	8521.04	1862.43	407.60	1877.59	0.00				
10900.00	89.82	0.00	8521.36	1962.43	407.60	1977.50	0.00				
11000.00	89.82	0.00	8521.68	2062.43	407.60	2077.42	0.00				
11100.00	89.82	0.00	8522.00	2162.42	407.60	2177.33	0.00				
11200.00	89.82	0.00	8522.33	2262.42	407.60	2277.25	0.00				
11300.00	89.82	0.00	8522.65	2362.42	407.60	2377.16	0.00				
11400.00	89.82	0.00	8522.97	2462.42	407.60	2477.08	0.00				
11500.00	89.82	0.00	8523.29	2562.42	407.60	2576.99	0.00				
11600.00	89.82	0.00	8523.62	2662.42	407.60	2676.91	0.00				
11700.00	89.82	0.00	8523.94	2762.42	407.60	2776.82	0.00				
11800.00	89.82	0.00	8524.26	2862.42	407.60	2876.74	0.00				
11900.00	89.82	0.00	8524.58	2962.42	407.60	2976.65	0.00				
12000.00	89.82	0.00	8524.90 8525.22	3062.42	407.60	3076.57	0.00				
12100.00 12200.00	89.82 89.82	0.00	8525.23 8525.55	3162.42 3262.42	407.60 407.60	3176.48 3276.40	0.00				
12300.00	89.82 89.82	0.00	8525.55 8525.87	3262.42	407.60	3276.40	0.00				
12400.00	89.82	0.00	8526.19	3462.42	407.60	3476.23	0.00				
12500.00	89.82	0.00	8526.52	3562.42	407.60	3576.15	0.00				
12600.00	89.82	0.00	8526.84	3662.42	407.60	3676.06	0.00				
000.00	23.02	3.00	-320.07		. 37.00	22.0.00	5.50				

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Well: SPUD MUFFIN 31-30 235H

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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INIC	471	TVD	NC	F)A/	ve	DIC	
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12700.00	(°) 89.82	0.00	8527.16	3762.42	407.60	3775.98	0.00	
12800.00	89.82	0.00	8527.48	3862.42	407.60	3875.89	0.00	
12900.00	89.82	0.00	8527.81	3962.42	407.60	3975.81	0.00	
13000.00	89.82	0.00	8528.13	4062.41	407.60	4075.72	0.00	
13100.00	89.82	0.00	8528.45	4162.41	407.60	4175.64	0.00	
13200.00	89.82	0.00	8528.77	4262.41	407.60	4275.55	0.00	
13300.00	89.82	0.00	8529.09	4362.41	407.60	4375.47	0.00	
13400.00	89.82	0.00	8529.42	4462.41	407.60	4475.38	0.00	
13500.00	89.82	0.00	8529.74	4562.41	407.60	4575.30	0.00	
13600.00	89.82	0.00	8530.06	4662.41	407.60	4675.21	0.00	
13700.00	89.82	0.00	8530.38	4762.41	407.60	4775.13	0.00	
13800.00 13900.00	89.82 89.82	0.00	8530.71 8531.03	4862.41 4962.41	407.60 407.60	4875.04 4974.96	0.00	
14000.00	89.82	0.00	8531.35	5062.41	407.60	5074.87	0.00	
14100.00	89.82	0.00	8531.67	5162.41	407.60	5174.79	0.00	
14200.00	89.82	0.00	8531.99	5262.41	407.60	5274.70	0.00	
14300.00	89.82	0.00	8532.32	5362.41	407.60	5374.62	0.00	
14400.00	89.82	0.00	8532.64	5462.41	407.60	5474.53	0.00	
14500.00	89.82	0.00	8532.96	5562.41	407.60	5574.45	0.00	
14600.00	89.82	0.00	8533.28	5662.41	407.60	5674.36	0.00	
14700.00	89.82	0.00	8533.61	5762.41	407.60	5774.28	0.00	
14800.00	89.82	0.00	8533.93	5862.41	407.60	5874.20	0.00	
14900.00	89.82	0.00	8534.25	5962.41	407.60	5974.11	0.00	
15000.00	89.82	0.00	8534.57	6062.40	407.60	6074.03	0.00	
15100.00	89.82	0.00	8534.90	6162.40	407.60	6173.94	0.00	
15200.00 15300.00	89.82 89.82	0.00	8535.22 8535.54	6262.40 6362.40	407.60 407.60	6273.86 6373.77	0.00	
15400.00	89.82	0.00	8535.86	6462.40	407.60	6473.69	0.00	
15500.00	89.82	0.00	8536.18	6562.40	407.60	6573.60	0.00	
15600.00	89.82	0.00	8536.51	6662.40	407.60	6673.52	0.00	
15700.00	89.82	0.00	8536.83	6762.40	407.60	6773.43	0.00	
15800.00	89.82	0.00	8537.15	6862.40	407.60	6873.35	0.00	
15900.00	89.82	0.00	8537.47	6962.40	407.60	6973.26	0.00	
16000.00	89.82	0.00	8537.80	7062.40	407.60	7073.18	0.00	
16100.00	89.82	0.00	8538.12	7162.40	407.60	7173.09	0.00	
16200.00	89.82	0.00	8538.44	7262.40	407.60	7273.01	0.00	
16300.00	89.82	0.00	8538.76	7362.40	407.60	7372.92	0.00	
16400.00	89.82	0.00	8539.08	7462.40	407.60	7472.84	0.00	
16500.00 16600.00	89.82 89.82	0.00	8539.41 8539.73	7562.40 7662.40	407.60 407.60	7572.75 7672.67	0.00	
16700.00	89.82	0.00	8540.05	7762.40	407.60	7772.58	0.00	
16800.00	89.82	0.00	8540.37	7862.40	407.60	7872.50	0.00	
16900.00	89.82	0.00	8540.70	7962.39	407.60	7972.41	0.00	
17000.00	89.82	0.00	8541.02	8062.39	407.60	8072.33	0.00	
17100.00	89.82	0.00	8541.34	8162.39	407.60	8172.25	0.00	
17200.00	89.82	0.00	8541.66	8262.39	407.60	8272.16	0.00	
17300.00	89.82	0.00	8541.99	8362.39	407.60	8372.08	0.00	
17400.00	89.82	0.00	8542.31	8462.39	407.60	8471.99	0.00	
17500.00	89.82	0.00	8542.63	8562.39	407.60	8571.91	0.00	
17600.00	89.82	0.00	8542.95	8662.39	407.60	8671.82	0.00	
17700.00 17800.00	89.82 89.82	0.00	8543.27 8543.60	8762.39	407.60 407.60	8771.74	0.00	
17900.00	89.82	0.00	8543.92	8862.39 8962.39	407.60	8871.65 8971.57	0.00	
18000.00	89.82	0.00	8544.24	9062.39	407.60	9071.48	0.00	
18100.00	89.82	0.00	8544.56	9162.39	407.60	9171.40	0.00	
18200.00	89.82	0.00	8544.89	9262.39	407.60	9271.31	0.00	
18300.00	89.82	0.00	8545.21	9362.39	407.60	9371.23	0.00	
18400.00	89.82	0.00	8545.53	9462.39	407.60	9471.14	0.00	
18500.00	89.82	0.00	8545.85	9562.39	407.60	9571.06	0.00	
18600.00	89.82	0.00	8546.17	9662.39	407.60	9670.97	0.00	
18700.00	89.82	0.00	8546.50	9762.39	407.60	9770.89	0.00	
18780.11	89.82	0.00	8546.76	9842.49	407.60	9850.93	0.00	Exit
18800.00	89.82	0.00	8546.82	9862.38	407.60	9870.80	0.00	DI II
18860.11	89.82	0.00	8547.00	9922.49	407.60	9930.86	0.00	BHL

.Devon - Internal

devon

Well: SPUD MUFFIN 31-30 235H

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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)

MD INC AZI TVD EW ٧S NS DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (°/100ft)

Devon - Internal 5 of 5

SPUD MUFFIN 31-30 235H

1. Geologic Formations

TVD of target	8547	Pilot hole depth	N/A
MD at TD:	18860	Deepest expected fresh water	

Basin

E	Depth	Water/Mineral	II 1 - *
Formation	(TVD) from KB	Bearing/Target Zone?	Hazards*
Rustler	114	ZOAC V	
Top of Salt	469		
Base of Salt	2544		
Lamar	2784		
Bell Canyon	2784		
Cherry Canyon	3674		
Brushy Canyon	5224		
1st Bone Spring Lime	6484		
1st Bone Spring Sand	7469		
BONE SPRING 2ND	8269		
#REF!	#REF!		

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

SPUD MUFFIN 31-30 235H

2. Casing Program

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	ВТС	0	139	0	139
12 1/4	9 5/8	40	J-55	ВТС	0	2644	0	2644
8 3/4	5 1/2	17	P110	ВТС	0	18860	0	8547

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	139	Surf	13.2	1.4	Lead: Class C Cement + additives
T., 1	266	Surf	9.0	3.3	Lead: Class C Cement + additives
Int 1	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	266	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	501	500' tieback	9.0	3.3	Lead: Class H /C + additives
Froduction	2090	KOP	13.2	1.4	Tail: Class H / C + additives

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
			Anı	nular	X	50% of rated working pressure
Int 1	13-58"	5M	Blind Ram		X	
IIIC I	13-36	J1V1	Pipe Ram			5M
			Doub	le Ram	X	J1V1
			Other*			
			Anı	nular	X	50% of rated working pressure
Production	13-5/8"	Blind Ram X				
rioduction	13-3/6	3101	Pipe	Ram		5M
		Double Ram Other*	X	JIVI		
			Other*			
			Annul	ar (5M)		
			Blind Ram Pipe Ram Double Ram Other*			

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing					
	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	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4000
Abnormal temperature	No

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

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

N H2S is present Y H2S plan attached.	-	ire o militer e m	measured values and formations will be provided to the BEIT.
Y H2S plan attached.	N		H2S is present
	Y	,	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

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

Attachments	1
X	Directional Plan
	Other, describe



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

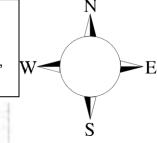
Spud Muffin 31-30 235H

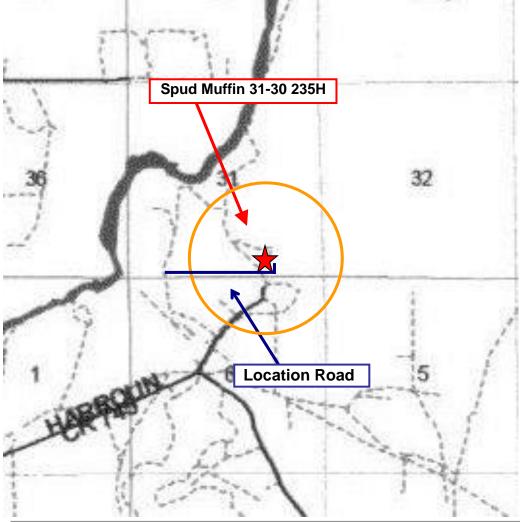
Sec-31 T-23S R-29E 625' FSL & 1835' FEL LAT. = 32.2559456' N (NAD83) LONG = 104.0212082' W

Eddy County NM

Spud Muffin 31-30 235H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S 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	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit	Hazardous Limit	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 and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

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:

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

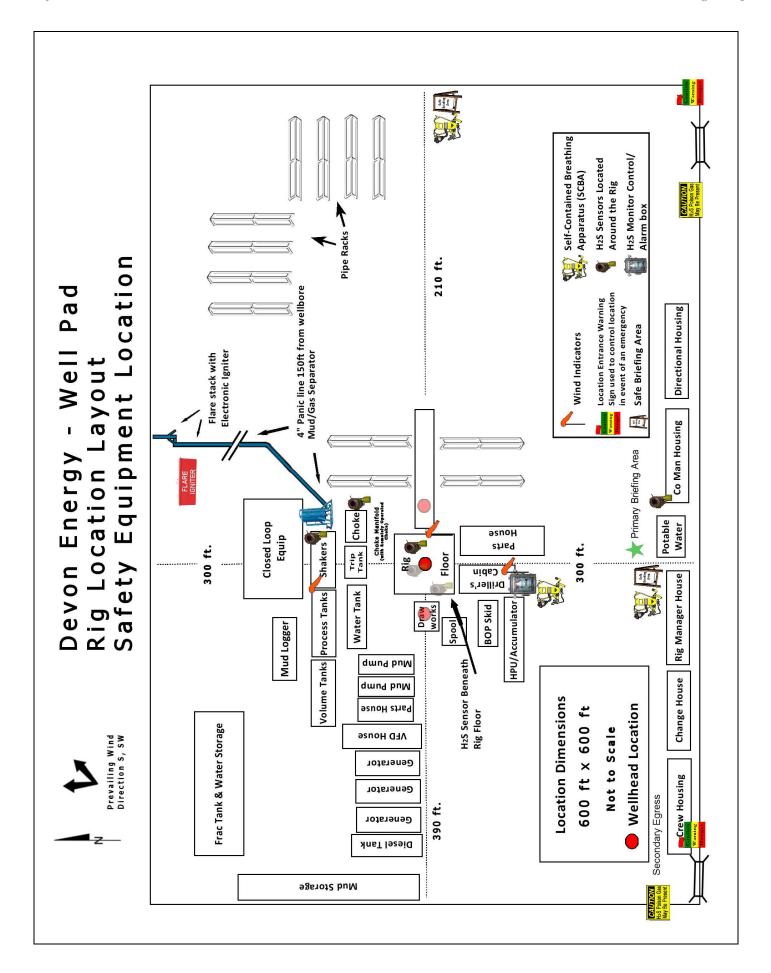
7. Well testing:

- 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.

Devon En	ergy Corp. Company Call List	
Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
Agency	Call List	
<u>Lea</u>	Hobbs	
<u>County</u> (575)	Lea County Communication Authority State Police	393-3981 392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy</u>	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department LEPC (Local Emergency Planning Committee)	885-3125 887-3798
	US Bureau of Land Management	887-6544
	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	(000) =00 : : : 0
	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
Give	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with Dave Small





District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

Date: October 8, 2020	
⊠ Original	Devon & OGRID No.: <u>Devon Energy Production Co., L.P.</u> 6137
☐ Amended - Reason for Amendment:	
This Gas Capture Plan outlines actions to be tak (new drill, recomplete to new zone, re-frac) acti	ten by the Devon to reduce well/production facility flaring/venting for new completion vity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API		SHL FOO			Expected MCF/D	Flared or Vented	СТВ	
SPUD MUFFIN 31-30 FED COM 231H		23S-29E-31	195	FSL	1353	FWL			Spud Muffin 31 CTB 1
SPUD MUFFIN 31-30 FED COM 232H		23S-29E-31	195	FSL	1383	FWL			Spud Muffin 31 CTB 1
SPUD MUFFIN 31-30 233H		23S-29E-31	195	FSL	1413	FWL			Spud Muffin 31 CTB 1
SPUD MUFFIN 31-30 234H		23S-29E-31	625	FSL	1865	FEL			Spud Muffin 31 CTB 2
SPUD MUFFIN 31-30 235H		23S-29E-31	625	FSL	1835	FEL			Spud Muffin 31 CTB 2
SPUD MUFFIN 31-30 236H		23S-29E-31	625	FSL	1805	FEL			Spud Muffin 31 CTB 2

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if DCP system is in place. The gas produced from production facility is dedicated to <u>DCP</u> and will be connected to <u>DCP</u> low/high pressure gathering system located in Lea County, New Mexico. It will require 1000' to DCP lateral for the Spud Muffin 31 CTB 1, and 2000' for the Spud Muffin 31 CTB 2 to DCP pipeline to connect the facility to low/high pressure gathering system. Devon will build the line to DCP and then after the line is ready for service, Devon give the to DCP for operations. <u>Devon</u> provides (periodically) to <u>DCP</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Devon</u> and <u>DCP</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>DCP</u> Processing Plant located in the reference table. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>DCP</u> system at that time. Based on current information, it is <u>Devon's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Reference Table:

DCP Plant locations

Artesia Sec. 7, T18S, R28E, Eunice Sec. 5, T21S, R36E Linam Sec. 6, T19S, R37E Zia II Sec. 19, T19S, R32E 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

<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

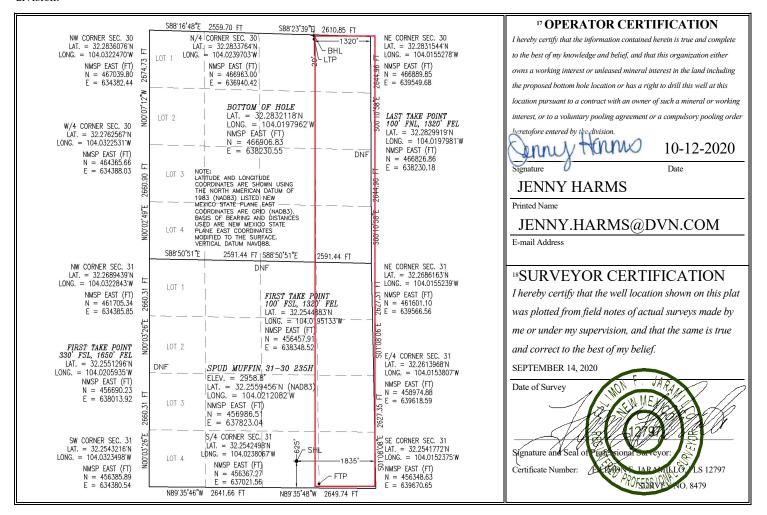
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name						
		11520	E SPRING						
⁴ Property Code		⁵ P1	operty Name	⁶ Well Number					
		SPUD MUFFIN 31-30							
⁷ OGRID No.		8 O _l	⁹ Elevation						
6137		DEVON ENERGY PRO	DDUCTION COMPANY, L.P.	2958.8					

¹⁰ Surface Location

UL or lot no.	Section	Township	Township Range Lo		Feet from the	North/South line	Feet from the	East/West line	County		
O	31	23 S	29 E		625 SOUTH		1835	EAST	EDDY		
¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
В	30	23 S	29 E		20	NORTH	1320	EAST	EDDY		
12 Dedicated Acre	Dedicated Acres 13 Joint or Infill 14 Consolidation Code				¹⁵ Order No.						
320											

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.



Intent	X	As Drill	ed											
API#]											
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.						Proper		Well Number						
						SPUD MUFFIN 31-30							235H	
Kick O	off Point (KOP)												
UL	Section 31	Township 23S	Range 29E	Lot	Feet 46 FSL		om N/S		et 320 FEL	From	ı E/W	County EDDY		
Latitude Lone						ıde		13	520 FEL			NAD 83		
					-104.	0200								
First T	ake Poin	t (FTP)												
UL P	Section Township Range Lot 23S 29E			Feet 100		om N/S OUTH			From E/W EAST		County EDDY			
Latitu	^{de} 32.254	4883		•	Longitu	104.0	1951	33				NAD 83	NAD 83	
UL B	Section 30	Township 23S	Range 29E	Lot	Feet 100	From N NOR1	I/S F	eet L320	From I	E/W	Count EDD	y Y		
Latitu		829919			Longitu	itude NAD NAD						83		
		defining w nfill well?	ell for the	Horizo	ontal Spa	icing Uni	t?	NC	0					
	l is yes p ng Unit.	olease prov	vide API it	f availa	ible, Ope	erator N	lame a	and we	ell numb	er fo	r Defir	ning well	for Horizontal	
Operator Name:						Property Name:							Well Number	

KZ 06/29/2018