

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised August 1, 2011

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-49709
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Devon Energy Production Company, L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 333 West Sheridan, Oklahoma City, OK 73102		7. Lease Name or Unit Agreement Name Spud Muffin 31 30
4. Well Location Unit Letter <u>N</u> : <u>475</u> feet from the <u>South</u> line and <u>2490</u> feet from the <u>West</u> line Section <u>31</u> Township <u>23S</u> Range <u>29E</u> NMPM County <u>Eddy</u>		8. Well Number 834H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 2961'		9. OGRID Number 6137
		10. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐

OTHER: SHL/BHL change ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., L.P. (Devon) respectfully requests to move SHL and BHL on the subject well. Please see attached revised C102, drill plan (break test variance included), and directional plan.

Permitted SHL: SESW 475 FSL, 2460 FWL, 31-23S-29E

Proposed SHL: SESW 475 FSL, 2490 FWL, 31-23S-29E

Permitted BHL: NWNE 20 FNL, 2350 FEL, 30-23S-29E

Proposed BHL: NWNE 20 FNL, 2310 FEL, 30-23S-29E

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Shayda Omoumi TITLE Regulatory Compliance Professional DATE 3/28/2024

Type or print name Shayda Omoumi E-mail address: shayda.omoumi@dvn.com PHONE: 405-552-3513

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

District I
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District IV
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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 30-015-49709	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 320827	⁵ Property Name SPUD MUFFIN 31 30	⁶ Well Number 834H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 2961.4

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	2490	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
B	30	23 S	29 E		20	NORTH	2310	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SPUD MUFFIN 31 30 834H EL. = 2961.4 GEODETTIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION N. = 456843.26 E. = 636870.44 LAT. = 32.2555594°N LONG. = 104.0242911°W KICK OFF POINT CALLS 40' FSL 2311' FEL N. = 456404.6 E. = 637358 LAT. = 32.25425602 LONG. = -104.02280080 FIRST TAKE POINT (PPP 1) 100' FSL, 2310' FEL N. = 456464.88 E. = 637358.40 LAT. = 32.2545154°N LONG. = 104.0227161°W LAST TAKE POINT 100' FNL, 2310' FEL N. = 466854.57 E. = 637240.28 LAT. = 32.2830760°N LONG. = 104.0230010°W BOTTOM OF HOLE 20' FNL, 2310' FEL N. = 466934.59 E. = 637240.03 LAT. = 32.2832960°N LONG. = 104.0230011°W CORNER COORDINATES TABLE NAD 83 NMSP EAST <table border="1"> <tr> <td>A - N. = 467039.80</td> <td>E. = 634382.44</td> </tr> <tr> <td>B - N. = 466963.00</td> <td>E. = 636940.42</td> </tr> <tr> <td>C - N. = 466889.85</td> <td>E. = 639549.68</td> </tr> <tr> <td>D - N. = 464237.89</td> <td>E. = 639558.14</td> </tr> <tr> <td>E - N. = 461601.10</td> <td>E. = 639566.56</td> </tr> <tr> <td>F - N. = 458974.88</td> <td>E. = 639618.59</td> </tr> <tr> <td>G - N. = 456348.63</td> <td>E. = 639670.65</td> </tr> <tr> <td>H - N. = 456367.27</td> <td>E. = 637021.56</td> </tr> <tr> <td>I - N. = 456385.89</td> <td>E. = 634380.54</td> </tr> <tr> <td>J - N. = 459021.23</td> <td>E. = 634383.17</td> </tr> <tr> <td>K - N. = 461705.34</td> <td>E. = 634385.85</td> </tr> <tr> <td>L - N. = 464365.66</td> <td>E. = 634388.03</td> </tr> <tr> <td>M - N. = 461649.00</td> <td>E. = 636913.10</td> </tr> </table> LEGEND --- SECTION LINE --- QUARTER LINE --- LEASE LINE --- WELL PATH	A - N. = 467039.80	E. = 634382.44	B - N. = 466963.00	E. = 636940.42	C - N. = 466889.85	E. = 639549.68	D - N. = 464237.89	E. = 639558.14	E - N. = 461601.10	E. = 639566.56	F - N. = 458974.88	E. = 639618.59	G - N. = 456348.63	E. = 639670.65	H - N. = 456367.27	E. = 637021.56	I - N. = 456385.89	E. = 634380.54	J - N. = 459021.23	E. = 634383.17	K - N. = 461705.34	E. = 634385.85	L - N. = 464365.66	E. = 634388.03	M - N. = 461649.00	E. = 636913.10	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Shayda Omoumi</i> 3/20/2024 Signature Date Shayda Omoumi Printed Name shayda.omoumi@dvn.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 20, 2024 Date of Survey <i>Shayda Omoumi</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 SURV. NO. 9415B
A - N. = 467039.80	E. = 634382.44																										
B - N. = 466963.00	E. = 636940.42																										
C - N. = 466889.85	E. = 639549.68																										
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M - N. = 461649.00	E. = 636913.10																										

Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: SPUD MUFFIN 31 30	Well Number 834H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	31	23S	29E		40	SOUTH	2311	EAST	EDDY
Latitude 32.25425602					Longitude -104.02280080				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	31	23S	29E		100	SOUTH	2310	EAST	EDDY
Latitude 32.2545154					Longitude 104.0227161				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	30	23S	29E		100	NORTH	2310	EAST	EDDY
Latitude 32.2830760					Longitude 104.0230010				NAD 83

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

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

API # 30-015-45268		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: SPUD MUFFIN 31 30	Well Number 624H

KZ 06/29/2018

Section 2 - Blowout Preventer Testing Procedure

Variance Request

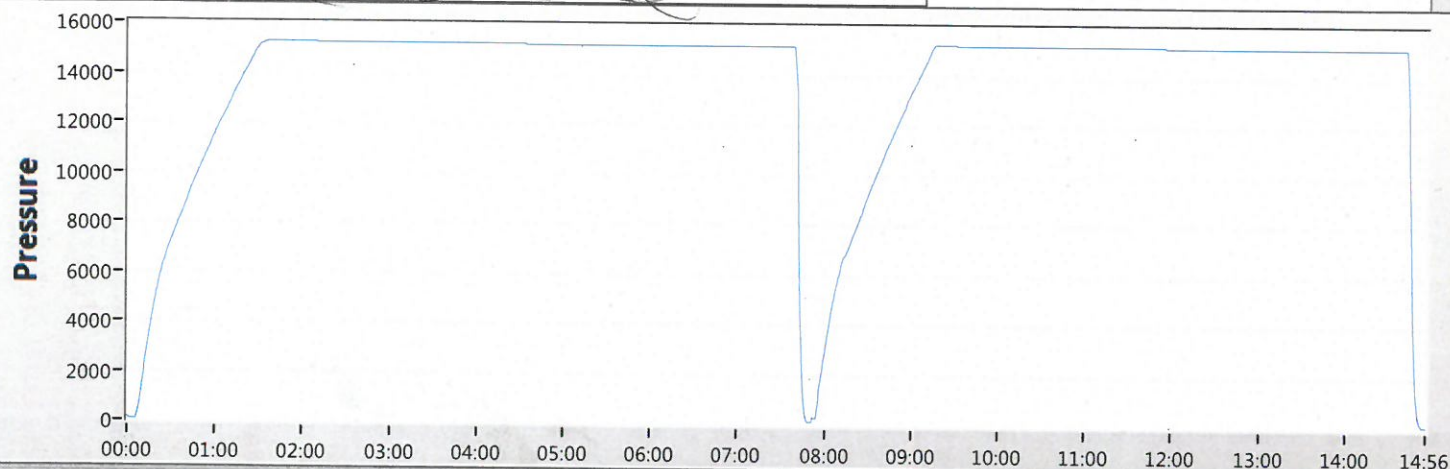
Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:
 1. Primary barrier remains fluid
 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third

Cactus
Wellhead2-9-17
E Bell

80.7 °F

15:49



50

Date 02-09-17

Tested By E.BELL

Transducer bay2

Transducer Serial 181504

Calibration Date 9/6/15

	Job#	Part#	Serial#	Description	Test Pressure
1	TRJ0006341-0007	116966	TRJ6341-7-1	ADPT,DRLG,CW,MBU-3T,13-5/8 10M	15000
2					
3					
4					
5				TRANSDUCER CALIBRATION DUE 03/13/2017	
6					
7					
8					



Start



Stop



Zero



Config



Save



Print

EXIT

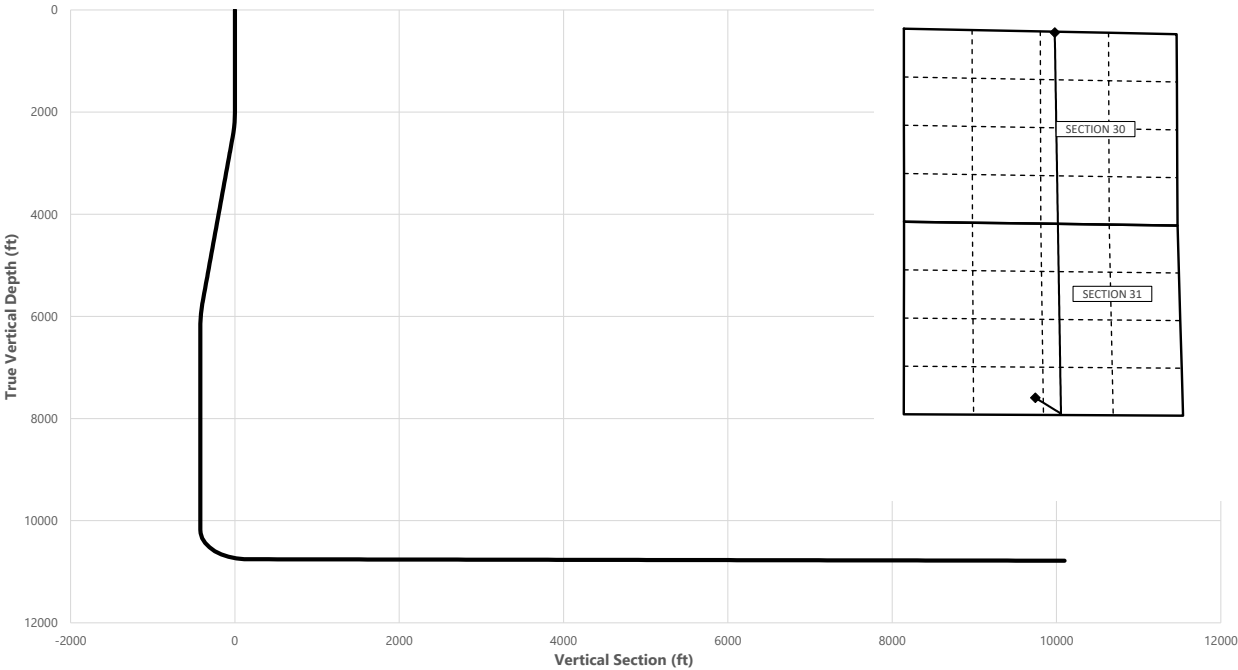
SPUD MUFFIN 31 30 834H



Well: SPUD MUFFIN 31 30 834H
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	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	132.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	132.00	2497.47	-29.12	32.34	-27.92	2.00	Hold Tangent
5774.25	10.00	132.00	5721.97	-409.57	454.87	-392.64	0.00	Drop to Vertical
6274.25	0.00	132.00	6219.44	-438.69	487.22	-420.56	2.00	Hold Vertical
10236.86	0.00	359.36	10182.04	-438.69	487.22	-420.56	0.00	KOP
11135.19	89.83	359.36	10755.00	132.56	480.83	150.07	10.00	Landing Point
21094.62	89.83	359.36	10784.00	10091.33	369.59	10098.10	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	114.00	114.00
Salt	469.00	469.00
Base of Salt	2547.25	2544.00
Delaware	2790.95	2784.00
Cherry Canyon	3694.68	3674.00
Brushy Canyon	5268.60	5224.00
1st Bone Spring Lime	6538.81	6484.00
Bone Spring 1st	7523.81	7469.00
Bone Spring 2nd	8323.81	8269.00
3rd Bone Spring Lime	8703.81	8649.00
Bone Spring 3rd	9408.81	9354.00
Wolfcamp / Point of Penetration	9813.81	9759.00
exit	21014.62	10783.78

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.2555	-104.0244	475' FSL, 2490' FWL of Sec 31 in T23S, R29E
KOP	10236.86	10182.04	32.2543	-104.0228	40' FSL, 2311' FEL of Sec 31 in T23S, R29E
Point of Penetration	9813.81	9759.00	32.2545	-104.0227	100' FSL, 2310' FEL of Sec 31 in T23S, R29E
Exit	21014.62	10783.78	32.2831	-104.0230	100' FNL, 2310' FEL of Sec 30 in T23S, R29E
BHL	21094.62	10784.00	32.2832	-104.0231	20' FNL, 2310' FEL of Sec 30 in T23S, R29E
	Y	X	MD		
KOP	456404.6	637358	10236.86		

SPUD MUFFIN 31 30 834H



Well: SPUD MUFFIN 31 30 834H
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	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	132.00	100.00	0.00	0.00	0.00	0.00	
114.00	0.00	132.00	114.00	0.00	0.00	0.00	0.00	Rustler
200.00	0.00	132.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	132.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	132.00	400.00	0.00	0.00	0.00	0.00	
469.00	0.00	132.00	469.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	132.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	132.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	132.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	132.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	132.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	132.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	132.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	132.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	132.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	132.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	132.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	132.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	132.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	132.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	132.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	132.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	132.00	2099.98	-1.17	1.30	-1.12	2.00	
2200.00	4.00	132.00	2199.84	-4.67	5.19	-4.48	2.00	
2300.00	6.00	132.00	2299.45	-10.50	11.66	-10.07	2.00	
2400.00	8.00	132.00	2398.70	-18.66	20.72	-17.88	2.00	
2500.00	10.00	132.00	2497.47	-29.12	32.34	-27.92	2.00	Hold Tangent
2547.25	10.00	132.00	2544.00	-34.61	38.44	-33.18	0.00	Base of Salt
2600.00	10.00	132.00	2595.95	-40.74	45.25	-39.06	0.00	
2700.00	10.00	132.00	2694.43	-52.36	58.15	-50.20	0.00	
2790.95	10.00	132.00	2784.00	-62.93	69.89	-60.33	0.00	Delaware
2800.00	10.00	132.00	2792.91	-63.98	71.06	-61.34	0.00	
2900.00	10.00	132.00	2891.39	-75.60	83.96	-72.48	0.00	
3000.00	10.00	132.00	2989.87	-87.22	96.87	-83.61	0.00	
3100.00	10.00	132.00	3088.35	-98.84	109.77	-94.75	0.00	
3200.00	10.00	132.00	3186.83	-110.46	122.68	-105.89	0.00	
3300.00	10.00	132.00	3285.31	-122.08	135.58	-117.03	0.00	
3400.00	10.00	132.00	3383.79	-133.70	148.48	-128.17	0.00	
3500.00	10.00	132.00	3482.27	-145.32	161.39	-139.31	0.00	
3600.00	10.00	132.00	3580.75	-156.93	174.29	-150.45	0.00	
3694.68	10.00	132.00	3674.00	-167.94	186.51	-161.00	0.00	Cherry Canyon
3700.00	10.00	132.00	3679.23	-168.55	187.20	-161.59	0.00	
3800.00	10.00	132.00	3777.72	-180.17	200.10	-172.73	0.00	
3900.00	10.00	132.00	3876.20	-191.79	213.01	-183.87	0.00	
4000.00	10.00	132.00	3974.68	-203.41	225.91	-195.01	0.00	
4100.00	10.00	132.00	4073.16	-215.03	238.82	-206.15	0.00	
4200.00	10.00	132.00	4171.64	-226.65	251.72	-217.29	0.00	
4300.00	10.00	132.00	4270.12	-238.27	264.63	-228.42	0.00	
4400.00	10.00	132.00	4368.60	-249.89	277.53	-239.56	0.00	
4500.00	10.00	132.00	4467.08	-261.51	290.44	-250.70	0.00	
4600.00	10.00	132.00	4565.56	-273.13	303.34	-261.84	0.00	
4700.00	10.00	132.00	4664.04	-284.75	316.24	-272.98	0.00	
4800.00	10.00	132.00	4762.52	-296.37	329.15	-284.12	0.00	
4900.00	10.00	132.00	4861.00	-307.99	342.05	-295.26	0.00	
5000.00	10.00	132.00	4959.48	-319.60	354.96	-306.40	0.00	
5100.00	10.00	132.00	5057.97	-331.22	367.86	-317.54	0.00	
5200.00	10.00	132.00	5156.45	-342.84	380.77	-328.68	0.00	
5268.60	10.00	132.00	5224.00	-350.81	389.62	-336.32	0.00	Brushy Canyon
5300.00	10.00	132.00	5254.93	-354.46	393.67	-339.82	0.00	
5400.00	10.00	132.00	5353.41	-366.08	406.58	-350.96	0.00	
5500.00	10.00	132.00	5451.89	-377.70	419.48	-362.09	0.00	
5600.00	10.00	132.00	5550.37	-389.32	432.39	-373.23	0.00	
5700.00	10.00	132.00	5648.85	-400.94	445.29	-384.37	0.00	
5774.25	10.00	132.00	5721.97	-409.57	454.87	-392.64	0.00	Drop to Vertical
5800.00	9.49	132.00	5747.35	-412.48	458.11	-395.44	2.00	
5900.00	7.49	132.00	5846.25	-422.36	469.07	-404.90	2.00	
6000.00	5.49	132.00	5945.61	-429.91	477.47	-412.15	2.00	
6100.00	3.49	132.00	6045.29	-435.15	483.28	-417.17	2.00	
6200.00	1.49	132.00	6145.20	-438.05	486.50	-419.95	2.00	

SPUD MUFFIN 31 30 834H



Well: SPUD MUFFIN 31 30 834H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

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

MD (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6274.25	0.00	132.00	6219.44	-438.69	487.22	-420.56	2.00	Hold Vertical
6300.00	0.00	359.36	6245.19	-438.69	487.22	-420.56	0.00	
6400.00	0.00	359.36	6345.19	-438.69	487.22	-420.56	0.00	
6500.00	0.00	359.36	6445.19	-438.69	487.22	-420.56	0.00	
6538.81	0.00	359.36	6484.00	-438.69	487.22	-420.56	0.00	1st Bone Spring Lime
6600.00	0.00	359.36	6545.19	-438.69	487.22	-420.56	0.00	
6700.00	0.00	359.36	6645.19	-438.69	487.22	-420.56	0.00	
6800.00	0.00	359.36	6745.19	-438.69	487.22	-420.56	0.00	
6900.00	0.00	359.36	6845.19	-438.69	487.22	-420.56	0.00	
7000.00	0.00	359.36	6945.19	-438.69	487.22	-420.56	0.00	
7100.00	0.00	359.36	7045.19	-438.69	487.22	-420.56	0.00	
7200.00	0.00	359.36	7145.19	-438.69	487.22	-420.56	0.00	
7300.00	0.00	359.36	7245.19	-438.69	487.22	-420.56	0.00	
7400.00	0.00	359.36	7345.19	-438.69	487.22	-420.56	0.00	
7500.00	0.00	359.36	7445.19	-438.69	487.22	-420.56	0.00	
7523.81	0.00	359.36	7469.00	-438.69	487.22	-420.56	0.00	Bone Spring 1st
7600.00	0.00	359.36	7545.19	-438.69	487.22	-420.56	0.00	
7700.00	0.00	359.36	7645.19	-438.69	487.22	-420.56	0.00	
7800.00	0.00	359.36	7745.19	-438.69	487.22	-420.56	0.00	
7900.00	0.00	359.36	7845.19	-438.69	487.22	-420.56	0.00	
8000.00	0.00	359.36	7945.19	-438.69	487.22	-420.56	0.00	
8100.00	0.00	359.36	8045.19	-438.69	487.22	-420.56	0.00	
8200.00	0.00	359.36	8145.19	-438.69	487.22	-420.56	0.00	
8300.00	0.00	359.36	8245.19	-438.69	487.22	-420.56	0.00	
8323.81	0.00	359.36	8269.00	-438.69	487.22	-420.56	0.00	Bone Spring 2nd
8400.00	0.00	359.36	8345.19	-438.69	487.22	-420.56	0.00	
8500.00	0.00	359.36	8445.19	-438.69	487.22	-420.56	0.00	
8600.00	0.00	359.36	8545.19	-438.69	487.22	-420.56	0.00	
8700.00	0.00	359.36	8645.19	-438.69	487.22	-420.56	0.00	
8703.81	0.00	359.36	8649.00	-438.69	487.22	-420.56	0.00	3rd Bone Spring Lime
8800.00	0.00	359.36	8745.19	-438.69	487.22	-420.56	0.00	
8900.00	0.00	359.36	8845.19	-438.69	487.22	-420.56	0.00	
9000.00	0.00	359.36	8945.19	-438.69	487.22	-420.56	0.00	
9100.00	0.00	359.36	9045.19	-438.69	487.22	-420.56	0.00	
9200.00	0.00	359.36	9145.19	-438.69	487.22	-420.56	0.00	
9300.00	0.00	359.36	9245.19	-438.69	487.22	-420.56	0.00	
9400.00	0.00	359.36	9345.19	-438.69	487.22	-420.56	0.00	
9408.81	0.00	359.36	9354.00	-438.69	487.22	-420.56	0.00	Bone Spring 3rd
9500.00	0.00	359.36	9445.19	-438.69	487.22	-420.56	0.00	
9600.00	0.00	359.36	9545.19	-438.69	487.22	-420.56	0.00	
9700.00	0.00	359.36	9645.19	-438.69	487.22	-420.56	0.00	
9800.00	0.00	359.36	9745.19	-438.69	487.22	-420.56	0.00	
9813.81	0.00	359.36	9759.00	-438.69	487.22	-420.56	0.00	Wolfcamp / Point of Penetration
9900.00	0.00	359.36	9845.19	-438.69	487.22	-420.56	0.00	
10000.00	0.00	359.36	9945.19	-438.69	487.22	-420.56	0.00	
10100.00	0.00	359.36	10045.19	-438.69	487.22	-420.56	0.00	
10200.00	0.00	359.36	10145.19	-438.69	487.22	-420.56	0.00	
10236.86	0.00	359.36	10182.04	-438.69	487.22	-420.56	0.00	KOP
10300.00	6.31	359.36	10245.06	-435.22	487.18	-417.09	10.00	
10400.00	16.31	359.36	10342.99	-415.62	486.96	-397.52	10.00	
10500.00	26.31	359.36	10436.03	-379.32	486.55	-361.26	10.00	
10600.00	36.31	359.36	10521.36	-327.42	485.97	-309.41	10.00	
10700.00	46.31	359.36	10596.37	-261.49	485.24	-243.55	10.00	
10800.00	56.31	359.36	10658.80	-183.53	484.36	-165.68	10.00	
10900.00	66.31	359.36	10706.74	-95.92	483.38	-78.17	10.00	
11000.00	76.31	359.36	10738.74	-1.32	482.33	16.34	10.00	
11100.00	86.31	359.36	10753.82	97.40	481.22	114.95	10.00	
11135.19	89.83	359.36	10755.00	132.56	480.83	150.07	10.00	Landing Point
11200.00	89.83	359.36	10755.19	197.37	480.11	214.81	0.00	
11300.00	89.83	359.36	10755.48	297.36	478.99	314.70	0.00	
11400.00	89.83	359.36	10755.77	397.36	477.87	414.58	0.00	
11500.00	89.83	359.36	10756.06	497.35	476.76	514.47	0.00	
11600.00	89.83	359.36	10756.35	597.34	475.64	614.35	0.00	
11700.00	89.83	359.36	10756.65	697.34	474.52	714.24	0.00	
11800.00	89.83	359.36	10756.94	797.33	473.40	814.12	0.00	
11900.00	89.83	359.36	10757.23	897.32	472.29	914.01	0.00	
12000.00	89.83	359.36	10757.52	997.32	471.17	1013.89	0.00	
12100.00	89.83	359.36	10757.81	1097.31	470.05	1113.78	0.00	
12200.00	89.83	359.36	10758.10	1197.30	468.93	1213.67	0.00	
12300.00	89.83	359.36	10758.39	1297.30	467.82	1313.55	0.00	

SPUD MUFFIN 31 30 834H



Well: SPUD MUFFIN 31 30 834H
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Wellbore: Permit Plan
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MD (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12400.00	89.83	359.36	10758.68	1397.29	466.70	1413.44	0.00	
12500.00	89.83	359.36	10758.98	1497.28	465.58	1513.32	0.00	
12600.00	89.83	359.36	10759.27	1597.28	464.46	1613.21	0.00	
12700.00	89.83	359.36	10759.56	1697.27	463.35	1713.09	0.00	
12800.00	89.83	359.36	10759.85	1797.26	462.23	1812.98	0.00	
12900.00	89.83	359.36	10760.14	1897.26	461.11	1912.86	0.00	
13000.00	89.83	359.36	10760.43	1997.25	459.99	2012.75	0.00	
13100.00	89.83	359.36	10760.72	2097.24	458.88	2112.63	0.00	
13200.00	89.83	359.36	10761.02	2197.24	457.76	2212.52	0.00	
13300.00	89.83	359.36	10761.31	2297.23	456.64	2312.40	0.00	
13400.00	89.83	359.36	10761.60	2397.22	455.52	2412.29	0.00	
13500.00	89.83	359.36	10761.89	2497.22	454.41	2512.18	0.00	
13600.00	89.83	359.36	10762.18	2597.21	453.29	2612.06	0.00	
13700.00	89.83	359.36	10762.47	2697.20	452.17	2711.95	0.00	
13800.00	89.83	359.36	10762.76	2797.20	451.05	2811.83	0.00	
13900.00	89.83	359.36	10763.05	2897.19	449.94	2911.72	0.00	
14000.00	89.83	359.36	10763.35	2997.18	448.82	3011.60	0.00	
14100.00	89.83	359.36	10763.64	3097.18	447.70	3111.49	0.00	
14200.00	89.83	359.36	10763.93	3197.17	446.58	3211.37	0.00	
14300.00	89.83	359.36	10764.22	3297.16	445.47	3311.26	0.00	
14400.00	89.83	359.36	10764.51	3397.16	444.35	3411.14	0.00	
14500.00	89.83	359.36	10764.80	3497.15	443.23	3511.03	0.00	
14600.00	89.83	359.36	10765.09	3597.14	442.11	3610.92	0.00	
14700.00	89.83	359.36	10765.38	3697.14	441.00	3710.80	0.00	
14800.00	89.83	359.36	10765.68	3797.13	439.88	3810.69	0.00	
14900.00	89.83	359.36	10765.97	3897.12	438.76	3910.57	0.00	
15000.00	89.83	359.36	10766.26	3997.12	437.64	4010.46	0.00	
15100.00	89.83	359.36	10766.55	4097.11	436.53	4110.34	0.00	
15200.00	89.83	359.36	10766.84	4197.10	435.41	4210.23	0.00	
15300.00	89.83	359.36	10767.13	4297.10	434.29	4310.11	0.00	
15400.00	89.83	359.36	10767.42	4397.09	433.17	4410.00	0.00	
15500.00	89.83	359.36	10767.72	4497.08	432.06	4509.88	0.00	
15600.00	89.83	359.36	10768.01	4597.08	430.94	4609.77	0.00	
15700.00	89.83	359.36	10768.30	4697.07	429.82	4709.66	0.00	
15800.00	89.83	359.36	10768.59	4797.06	428.70	4809.54	0.00	
15900.00	89.83	359.36	10768.88	4897.06	427.59	4909.43	0.00	
16000.00	89.83	359.36	10769.17	4997.05	426.47	5009.31	0.00	
16100.00	89.83	359.36	10769.46	5097.04	425.35	5109.20	0.00	
16200.00	89.83	359.36	10769.75	5197.04	424.23	5209.08	0.00	
16300.00	89.83	359.36	10770.05	5297.03	423.12	5308.97	0.00	
16400.00	89.83	359.36	10770.34	5397.02	422.00	5408.85	0.00	
16500.00	89.83	359.36	10770.63	5497.02	420.88	5508.74	0.00	
16600.00	89.83	359.36	10770.92	5597.01	419.76	5608.62	0.00	
16700.00	89.83	359.36	10771.21	5697.00	418.65	5708.51	0.00	
16800.00	89.83	359.36	10771.50	5797.00	417.53	5808.39	0.00	
16900.00	89.83	359.36	10771.79	5896.99	416.41	5908.28	0.00	
17000.00	89.83	359.36	10772.09	5996.98	415.29	6008.17	0.00	
17100.00	89.83	359.36	10772.38	6096.98	414.18	6108.05	0.00	
17200.00	89.83	359.36	10772.67	6196.97	413.06	6207.94	0.00	
17300.00	89.83	359.36	10772.96	6296.96	411.94	6307.82	0.00	
17400.00	89.83	359.36	10773.25	6396.96	410.82	6407.71	0.00	
17500.00	89.83	359.36	10773.54	6496.95	409.71	6507.59	0.00	
17600.00	89.83	359.36	10773.83	6596.94	408.59	6607.48	0.00	
17700.00	89.83	359.36	10774.12	6696.94	407.47	6707.36	0.00	
17800.00	89.83	359.36	10774.42	6796.93	406.35	6807.25	0.00	
17900.00	89.83	359.36	10774.71	6896.92	405.24	6907.13	0.00	
18000.00	89.83	359.36	10775.00	6996.92	404.12	7007.02	0.00	
18100.00	89.83	359.36	10775.29	7096.91	403.00	7106.91	0.00	
18200.00	89.83	359.36	10775.58	7196.90	401.88	7206.79	0.00	
18300.00	89.83	359.36	10775.87	7296.90	400.77	7306.68	0.00	
18400.00	89.83	359.36	10776.16	7396.89	399.65	7406.56	0.00	
18500.00	89.83	359.36	10776.45	7496.88	398.53	7506.45	0.00	
18600.00	89.83	359.36	10776.75	7596.88	397.41	7606.33	0.00	
18700.00	89.83	359.36	10777.04	7696.87	396.30	7706.22	0.00	
18800.00	89.83	359.36	10777.33	7796.86	395.18	7806.10	0.00	
18900.00	89.83	359.36	10777.62	7896.86	394.06	7905.99	0.00	
19000.00	89.83	359.36	10777.91	7996.85	392.94	8005.87	0.00	
19100.00	89.83	359.36	10778.20	8096.84	391.83	8105.76	0.00	
19200.00	89.83	359.36	10778.49	8196.84	390.71	8205.65	0.00	
19300.00	89.83	359.36	10778.79	8296.83	389.59	8305.53	0.00	

SPUD MUFFIN 31 30 834H



Well: SPUD MUFFIN 31 30 834H
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	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19400.00	89.83	359.36	10779.08	8396.82	388.47	8405.42	0.00	
19500.00	89.83	359.36	10779.37	8496.82	387.36	8505.30	0.00	
19600.00	89.83	359.36	10779.66	8596.81	386.24	8605.19	0.00	
19700.00	89.83	359.36	10779.95	8696.80	385.12	8705.07	0.00	
19800.00	89.83	359.36	10780.24	8796.80	384.00	8804.96	0.00	
19900.00	89.83	359.36	10780.53	8896.79	382.89	8904.84	0.00	
20000.00	89.83	359.36	10780.82	8996.78	381.77	9004.73	0.00	
20100.00	89.83	359.36	10781.12	9096.78	380.65	9104.61	0.00	
20200.00	89.83	359.36	10781.41	9196.77	379.53	9204.50	0.00	
20300.00	89.83	359.36	10781.70	9296.76	378.42	9304.38	0.00	
20400.00	89.83	359.36	10781.99	9396.76	377.30	9404.27	0.00	
20500.00	89.83	359.36	10782.28	9496.75	376.18	9504.16	0.00	
20600.00	89.83	359.36	10782.57	9596.74	375.06	9604.04	0.00	
20700.00	89.83	359.36	10782.86	9696.74	373.95	9703.93	0.00	
20800.00	89.83	359.36	10783.16	9796.73	372.83	9803.81	0.00	
20900.00	89.83	359.36	10783.45	9896.72	371.71	9903.70	0.00	
21000.00	89.83	359.36	10783.74	9996.72	370.59	10003.58	0.00	
21014.62	89.83	359.36	10783.78	10011.33	370.43	10018.18	0.00	exit
21094.62	89.83	359.36	10784.00	10091.33	369.59	10098.10	0.00	BHL

SPUD MUFFIN 31 30 834H

1. Geologic Formations

TVD of target	10784	Pilot hole depth	N/A
MD at TD:	21095	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
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.

SPUD MUFFIN 31 30 834H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	139	0	139
9 7/8	8 5/8	32	P110HSCY	MOFXL	0	10136	0	10136
7 7/8	5 1/2	20	P110	DWC/C-IS+	0	21095	0	10784

•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	374	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	564	5268	13.2	1.44	Tail: Class H / C + additives
Production	117	8237	9	3.27	Lead: Class H / C + additives
	1437	10237	13.2	1.44	Tail: Class H / C + additives

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

SPUD MUFFIN 31 30 834H

4. Pressure Control Equipment (Three String Design)

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

SPUD MUFFIN 31 30 834H

5. Mud Program (Three String Design)

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5888
Abnormal temperature	No

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

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

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

SPUD MUFFIN 31 30 834H

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 nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

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

CONDITIONS

Action 327571

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 327571
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	4/11/2024