

Submit a 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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-51514
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name NORTH THISTLE 3 34 STATE COM
8. Well Number 504H
9. OGRID Number 6137
10. Pool name or Wildcat BRINNINSTOOL;BONE SPRING
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3542

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP	
3. Address of Operator 333 W SHERIDAN AVE OKLAHOMA CITY, OK 73102	
4. Well Location Unit Letter A : 695 feet from the NORTH line and 1279 feet from the EAST line Section 34 Township 22S Range 33E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3542	

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: NAME CHANGE ☐	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.

Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD:

Casing program change to slim hole design: Surface, Intermediate, and Production Casing size changes. Cement volume changes to accommodate casing change. Offline cement variance request.

Please see attached revised drilling & directional plans, and supporting documentation.

Spud Date:

Rig Release Date:

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

SIGNATURE Rebecca Deal TITLE REGULATORY PROFESSIONAL DATE 03/04/2024

Type or print name Rebecca Deal E-mail address: rebecca.deal@dv.com PHONE: 405-228-8492

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

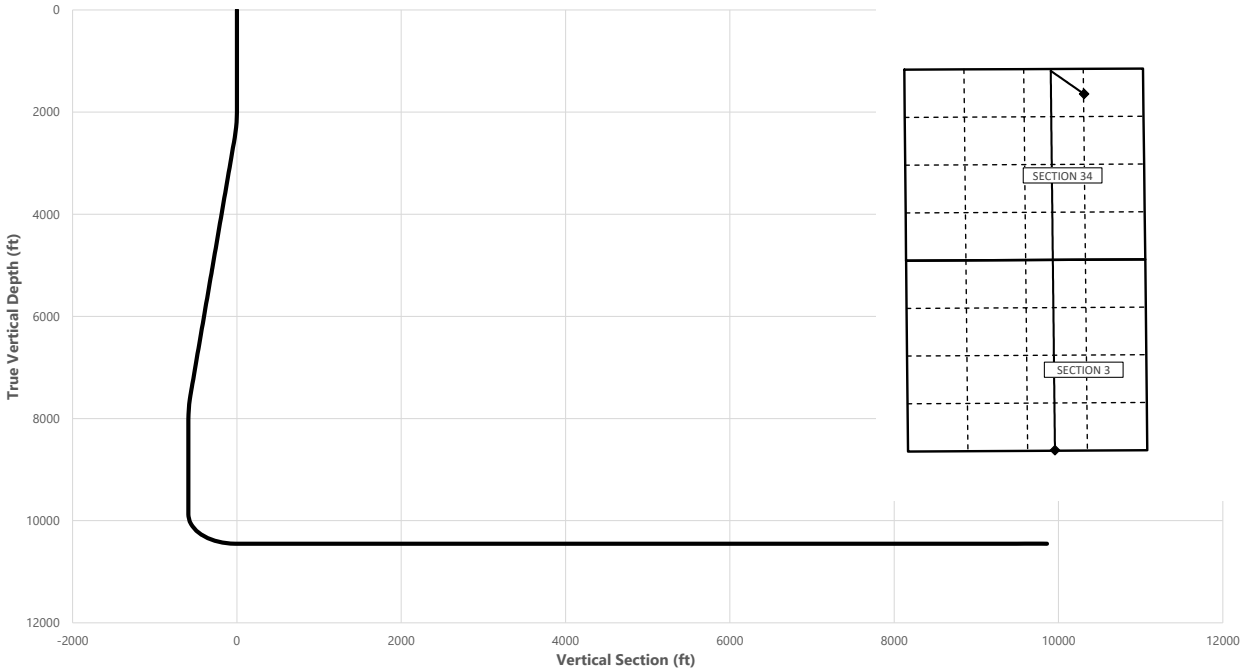
NORTH THISTLE 3 34 STATE COM 403H



Well: NORTH THISTLE 3 34 STATE COM 403H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

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

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	311.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	311.00	2497.47	28.55	-32.85	-26.35	2.00	Hold Tangent
7616.86	10.00	311.00	7536.59	611.48	-703.43	-564.31	0.00	Drop to Vertical
8116.86	0.00	311.00	8034.05	640.04	-736.28	-590.66	2.00	Hold Vertical
9959.85	0.00	179.49	9877.04	640.04	-736.28	-590.66	0.00	KOP
10859.85	90.00	179.49	10450.00	67.10	-731.18	-19.27	10.00	Landing Point
20766.34	90.00	179.49	10450.00	-9839.00	-643.00	9859.99	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	1012.00	1012.00
Salt	1236.00	1236.00
Base of Salt	5115.27	5073.00
Delaware	5115.27	5073.00
Cherry Canyon	6121.55	6064.00
Brushy Canyon	7462.93	7385.00
1st Bone Spring Lime	9013.81	8931.00
Bone Spring 1st	10156.65	10070.00
Bone Spring Lime 2nd / Point of Pen	10406.77	10280.00
exit	20686.34	10450.01

	MD	TVD	Lat	Long	Section Footages
	(ft)	(ft)	(°)	(°)	
SHL	0.00	0.00	32.3535	-103.5561	695' FNL, 1309' FEL of Sec 34 in T22S, R33E
KOP	9959.85	9877.04	32.3553	-103.5584	51' FNL, 2039' FEL of Sec 34 in T22S, R33E
Point of Penetration	10406.77	10280.00	32.3552	-103.5583	100' FNL, 2040' FEL of Sec 34 in T22S, R33E
Exit	20686.34	10450.01	32.3268	-103.5583	100' FNL, 2040' FEL of Sec 3 in T23S, R33E
BHL	20766.34	10450.00	32.3265	-103.5584	20' FSL, 2040' FEL of Sec 3 in T23S, R33E

	Y	X	MD
KOP	493875	780647	9959.85

NORTH THISTLE 3 34 STATE COM 403H



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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	311.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	311.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	311.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	311.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	311.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	311.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	311.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	311.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	311.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	311.00	1000.00	0.00	0.00	0.00	0.00	
1012.00	0.00	311.00	1012.00	0.00	0.00	0.00	0.00	Rustler
1100.00	0.00	311.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	311.00	1200.00	0.00	0.00	0.00	0.00	
1236.00	0.00	311.00	1236.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	311.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	311.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	311.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	311.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	311.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	311.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	311.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	311.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	311.00	2099.98	1.14	-1.32	-1.06	2.00	
2200.00	4.00	311.00	2199.84	4.58	-5.27	-4.23	2.00	
2300.00	6.00	311.00	2299.45	10.30	-11.84	-9.50	2.00	
2400.00	8.00	311.00	2398.70	18.29	-21.04	-16.88	2.00	
2500.00	10.00	311.00	2497.47	28.55	-32.85	-26.35	2.00	Hold Tangent
2600.00	10.00	311.00	2595.95	39.95	-45.95	-36.86	0.00	
2700.00	10.00	311.00	2694.43	51.34	-59.06	-47.38	0.00	
2800.00	10.00	311.00	2792.91	62.73	-72.16	-57.89	0.00	
2900.00	10.00	311.00	2891.39	74.12	-85.27	-68.40	0.00	
3000.00	10.00	311.00	2989.87	85.51	-98.37	-78.92	0.00	
3100.00	10.00	311.00	3088.35	96.91	-111.48	-89.43	0.00	
3200.00	10.00	311.00	3186.83	108.30	-124.58	-99.94	0.00	
3300.00	10.00	311.00	3285.31	119.69	-137.69	-110.46	0.00	
3400.00	10.00	311.00	3383.79	131.08	-150.80	-120.97	0.00	
3500.00	10.00	311.00	3482.27	142.48	-163.90	-131.48	0.00	
3600.00	10.00	311.00	3580.75	153.87	-177.01	-142.00	0.00	
3700.00	10.00	311.00	3679.23	165.26	-190.11	-152.51	0.00	
3800.00	10.00	311.00	3777.72	176.65	-203.22	-163.02	0.00	
3900.00	10.00	311.00	3876.20	188.05	-216.32	-173.54	0.00	
4000.00	10.00	311.00	3974.68	199.44	-229.43	-184.05	0.00	
4100.00	10.00	311.00	4073.16	210.83	-242.53	-194.56	0.00	
4200.00	10.00	311.00	4171.64	222.22	-255.64	-205.08	0.00	
4300.00	10.00	311.00	4270.12	233.61	-268.74	-215.59	0.00	
4400.00	10.00	311.00	4368.60	245.01	-281.85	-226.10	0.00	
4500.00	10.00	311.00	4467.08	256.40	-294.96	-236.62	0.00	
4600.00	10.00	311.00	4565.56	267.79	-308.06	-247.13	0.00	
4700.00	10.00	311.00	4664.04	279.18	-321.17	-257.64	0.00	
4800.00	10.00	311.00	4762.52	290.58	-334.27	-268.16	0.00	
4900.00	10.00	311.00	4861.00	301.97	-347.38	-278.67	0.00	
5000.00	10.00	311.00	4959.48	313.36	-360.48	-289.18	0.00	
5100.00	10.00	311.00	5057.97	324.75	-373.59	-299.70	0.00	
5115.27	10.00	311.00	5073.00	326.49	-375.59	-301.30	0.00	Base of Salt, Delaware
5200.00	10.00	311.00	5156.45	336.14	-386.69	-310.21	0.00	
5300.00	10.00	311.00	5254.93	347.54	-399.80	-320.72	0.00	
5400.00	10.00	311.00	5353.41	358.93	-412.90	-331.24	0.00	
5500.00	10.00	311.00	5451.89	370.32	-426.01	-341.75	0.00	
5600.00	10.00	311.00	5550.37	381.71	-439.12	-352.26	0.00	
5700.00	10.00	311.00	5648.85	393.11	-452.22	-362.78	0.00	
5800.00	10.00	311.00	5747.33	404.50	-465.33	-373.29	0.00	
5900.00	10.00	311.00	5845.81	415.89	-478.43	-383.80	0.00	
6000.00	10.00	311.00	5944.29	427.28	-491.54	-394.32	0.00	
6100.00	10.00	311.00	6042.77	438.68	-504.64	-404.83	0.00	
6121.55	10.00	311.00	6064.00	441.13	-507.47	-407.10	0.00	Cherry Canyon
6200.00	10.00	311.00	6141.25	450.07	-517.75	-415.34	0.00	
6300.00	10.00	311.00	6239.73	461.46	-530.85	-425.86	0.00	
6400.00	10.00	311.00	6338.22	472.85	-543.96	-436.37	0.00	
6500.00	10.00	311.00	6436.70	484.24	-557.06	-446.89	0.00	

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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6600.00	10.00	311.00	6535.18	495.64	-570.17	-457.40	0.00	
6700.00	10.00	311.00	6633.66	507.03	-583.28	-467.91	0.00	
6800.00	10.00	311.00	6732.14	518.42	-596.38	-478.43	0.00	
6900.00	10.00	311.00	6830.62	529.81	-609.49	-488.94	0.00	
7000.00	10.00	311.00	6929.10	541.21	-622.59	-499.45	0.00	
7100.00	10.00	311.00	7027.58	552.60	-635.70	-509.97	0.00	
7200.00	10.00	311.00	7126.06	563.99	-648.80	-520.48	0.00	
7300.00	10.00	311.00	7224.54	575.38	-661.91	-530.99	0.00	
7400.00	10.00	311.00	7323.02	586.77	-675.01	-541.51	0.00	
7462.93	10.00	311.00	7385.00	593.94	-683.26	-548.12	0.00	Brushy Canyon
7500.00	10.00	311.00	7421.50	598.17	-688.12	-552.02	0.00	
7600.00	10.00	311.00	7519.99	609.56	-701.22	-562.53	0.00	
7616.86	10.00	311.00	7536.59	611.48	-703.43	-564.31	0.00	Drop to Vertical
7700.00	8.34	311.00	7618.66	620.17	-713.43	-572.33	2.00	
7800.00	6.34	311.00	7717.84	628.55	-723.07	-580.06	2.00	
7900.00	4.34	311.00	7817.40	634.65	-730.09	-585.69	2.00	
8000.00	2.34	311.00	7917.23	638.47	-734.48	-589.22	2.00	
8100.00	0.34	311.00	8017.19	640.00	-736.24	-590.63	2.00	
8116.86	0.00	311.00	8034.05	640.04	-736.28	-590.66	2.00	Hold Vertical
8200.00	0.00	179.49	8117.19	640.04	-736.28	-590.66	0.00	
8300.00	0.00	179.49	8217.19	640.04	-736.28	-590.66	0.00	
8400.00	0.00	179.49	8317.19	640.04	-736.28	-590.66	0.00	
8500.00	0.00	179.49	8417.19	640.04	-736.28	-590.66	0.00	
8600.00	0.00	179.49	8517.19	640.04	-736.28	-590.66	0.00	
8700.00	0.00	179.49	8617.19	640.04	-736.28	-590.66	0.00	
8800.00	0.00	179.49	8717.19	640.04	-736.28	-590.66	0.00	
8900.00	0.00	179.49	8817.19	640.04	-736.28	-590.66	0.00	
9000.00	0.00	179.49	8917.19	640.04	-736.28	-590.66	0.00	
9013.81	0.00	179.49	8931.00	640.04	-736.28	-590.66	0.00	1st Bone Spring Lime
9100.00	0.00	179.49	9017.19	640.04	-736.28	-590.66	0.00	
9200.00	0.00	179.49	9117.19	640.04	-736.28	-590.66	0.00	
9300.00	0.00	179.49	9217.19	640.04	-736.28	-590.66	0.00	
9400.00	0.00	179.49	9317.19	640.04	-736.28	-590.66	0.00	
9500.00	0.00	179.49	9417.19	640.04	-736.28	-590.66	0.00	
9600.00	0.00	179.49	9517.19	640.04	-736.28	-590.66	0.00	
9700.00	0.00	179.49	9617.19	640.04	-736.28	-590.66	0.00	
9800.00	0.00	179.49	9717.19	640.04	-736.28	-590.66	0.00	
9900.00	0.00	179.49	9817.19	640.04	-736.28	-590.66	0.00	
9959.85	0.00	179.49	9877.04	640.04	-736.28	-590.66	0.00	KOP
10000.00	4.02	179.49	9917.16	638.63	-736.27	-589.26	10.00	
10100.00	14.02	179.49	10015.80	622.98	-736.13	-573.65	10.00	
10156.65	19.68	179.49	10070.00	606.57	-735.98	-557.28	10.00	Bone Spring 1st
10200.00	24.02	179.49	10110.22	590.44	-735.84	-541.20	10.00	
10300.00	34.02	179.49	10197.56	542.00	-735.41	-492.89	10.00	
10400.00	44.02	179.49	10275.16	479.13	-734.85	-430.19	10.00	
10406.77	44.69	179.49	10280.00	474.40	-734.80	-425.47	10.00	Bone Spring Lime 2nd / Point of Penetration
10500.00	54.02	179.49	10340.66	403.74	-734.17	-355.00	10.00	
10600.00	64.02	179.49	10392.08	318.12	-733.41	-269.62	10.00	
10700.00	74.02	179.49	10427.85	224.88	-732.58	-176.62	10.00	
10800.00	84.02	179.49	10446.88	126.84	-731.71	-78.85	10.00	
10859.85	90.00	179.49	10450.00	67.10	-731.18	-19.27	10.00	Landing Point
10900.00	90.00	179.49	10450.00	26.95	-730.82	20.77	0.00	
11000.00	90.00	179.49	10450.00	-73.05	-729.93	120.49	0.00	
11100.00	90.00	179.49	10450.00	-173.04	-729.04	220.22	0.00	
11200.00	90.00	179.49	10450.00	-273.04	-728.15	319.94	0.00	
11300.00	90.00	179.49	10450.00	-373.03	-727.26	419.67	0.00	
11400.00	90.00	179.49	10450.00	-473.03	-726.37	519.39	0.00	
11500.00	90.00	179.49	10450.00	-573.03	-725.48	619.12	0.00	
11600.00	90.00	179.49	10450.00	-673.02	-724.59	718.84	0.00	
11700.00	90.00	179.49	10450.00	-773.02	-723.70	818.57	0.00	
11800.00	90.00	179.49	10450.00	-873.01	-722.81	918.29	0.00	
11900.00	90.00	179.49	10450.00	-973.01	-721.92	1018.02	0.00	
12000.00	90.00	179.49	10450.00	-1073.01	-721.03	1117.74	0.00	
12100.00	90.00	179.49	10450.00	-1173.00	-720.14	1217.47	0.00	
12200.00	90.00	179.49	10450.00	-1273.00	-719.25	1317.19	0.00	
12300.00	90.00	179.49	10450.00	-1372.99	-718.36	1416.92	0.00	
12400.00	90.00	179.49	10450.00	-1472.99	-717.47	1516.64	0.00	
12500.00	90.00	179.49	10450.00	-1572.99	-716.57	1616.37	0.00	
12600.00	90.00	179.49	10450.00	-1672.98	-715.68	1716.09	0.00	
12700.00	90.00	179.49	10450.00	-1772.98	-714.79	1815.82	0.00	

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
12800.00	90.00	179.49	10450.00	-1872.97	-713.90	1915.54	0.00	
12900.00	90.00	179.49	10450.00	-1972.97	-713.01	2015.27	0.00	
13000.00	90.00	179.49	10450.00	-2072.97	-712.12	2114.99	0.00	
13100.00	90.00	179.49	10450.00	-2172.96	-711.23	2214.72	0.00	
13200.00	90.00	179.49	10450.00	-2272.96	-710.34	2314.44	0.00	
13300.00	90.00	179.49	10450.00	-2372.95	-709.45	2414.17	0.00	
13400.00	90.00	179.49	10450.00	-2472.95	-708.56	2513.89	0.00	
13500.00	90.00	179.49	10450.00	-2572.95	-707.67	2613.62	0.00	
13600.00	90.00	179.49	10450.00	-2672.94	-706.78	2713.34	0.00	
13700.00	90.00	179.49	10450.00	-2772.94	-705.89	2813.07	0.00	
13800.00	90.00	179.49	10450.00	-2872.93	-705.00	2912.79	0.00	
13900.00	90.00	179.49	10450.00	-2972.93	-704.11	3012.52	0.00	
14000.00	90.00	179.49	10450.00	-3072.93	-703.22	3112.24	0.00	
14100.00	90.00	179.49	10450.00	-3172.92	-702.33	3211.97	0.00	
14200.00	90.00	179.49	10450.00	-3272.92	-701.44	3311.70	0.00	
14300.00	90.00	179.49	10450.00	-3372.91	-700.55	3411.42	0.00	
14400.00	90.00	179.49	10450.00	-3472.91	-699.66	3511.15	0.00	
14500.00	90.00	179.49	10450.00	-3572.91	-698.77	3610.87	0.00	
14600.00	90.00	179.49	10450.00	-3672.90	-697.88	3710.60	0.00	
14700.00	90.00	179.49	10450.01	-3772.90	-696.99	3810.32	0.00	
14800.00	90.00	179.49	10450.01	-3872.89	-696.10	3910.05	0.00	
14900.00	90.00	179.49	10450.01	-3972.89	-695.21	4009.77	0.00	
15000.00	90.00	179.49	10450.01	-4072.89	-694.32	4109.50	0.00	
15100.00	90.00	179.49	10450.01	-4172.88	-693.43	4209.22	0.00	
15200.00	90.00	179.49	10450.01	-4272.88	-692.53	4308.95	0.00	
15300.00	90.00	179.49	10450.01	-4372.87	-691.64	4408.67	0.00	
15400.00	90.00	179.49	10450.01	-4472.87	-690.75	4508.40	0.00	
15500.00	90.00	179.49	10450.01	-4572.87	-689.86	4608.12	0.00	
15600.00	90.00	179.49	10450.01	-4672.86	-688.97	4707.85	0.00	
15700.00	90.00	179.49	10450.01	-4772.86	-688.08	4807.57	0.00	
15800.00	90.00	179.49	10450.01	-4872.86	-687.19	4907.30	0.00	
15900.00	90.00	179.49	10450.01	-4972.85	-686.30	5007.02	0.00	
16000.00	90.00	179.49	10450.01	-5072.85	-685.41	5106.75	0.00	
16100.00	90.00	179.49	10450.01	-5172.84	-684.52	5206.47	0.00	
16200.00	90.00	179.49	10450.01	-5272.84	-683.63	5306.20	0.00	
16300.00	90.00	179.49	10450.01	-5372.84	-682.74	5405.92	0.00	
16400.00	90.00	179.49	10450.01	-5472.83	-681.85	5505.65	0.00	
16500.00	90.00	179.49	10450.01	-5572.83	-680.96	5605.37	0.00	
16600.00	90.00	179.49	10450.01	-5672.82	-680.07	5705.10	0.00	
16700.00	90.00	179.49	10450.01	-5772.82	-679.18	5804.82	0.00	
16800.00	90.00	179.49	10450.01	-5872.82	-678.29	5904.55	0.00	
16900.00	90.00	179.49	10450.01	-5972.81	-677.40	6004.27	0.00	
17000.00	90.00	179.49	10450.01	-6072.81	-676.51	6104.00	0.00	
17100.00	90.00	179.49	10450.01	-6172.80	-675.62	6203.72	0.00	
17200.00	90.00	179.49	10450.01	-6272.80	-674.73	6303.45	0.00	
17300.00	90.00	179.49	10450.01	-6372.80	-673.84	6403.17	0.00	
17400.00	90.00	179.49	10450.01	-6472.79	-672.95	6502.90	0.00	
17500.00	90.00	179.49	10450.01	-6572.79	-672.06	6602.62	0.00	
17600.00	90.00	179.49	10450.01	-6672.78	-671.17	6702.35	0.00	
17700.00	90.00	179.49	10450.01	-6772.78	-670.28	6802.07	0.00	
17800.00	90.00	179.49	10450.01	-6872.78	-669.39	6901.80	0.00	
17900.00	90.00	179.49	10450.01	-6972.77	-668.49	7001.52	0.00	
18000.00	90.00	179.49	10450.01	-7072.77	-667.60	7101.25	0.00	
18100.00	90.00	179.49	10450.01	-7172.76	-666.71	7200.97	0.00	
18200.00	90.00	179.49	10450.01	-7272.76	-665.82	7300.70	0.00	
18300.00	90.00	179.49	10450.01	-7372.76	-664.93	7400.42	0.00	
18400.00	90.00	179.49	10450.01	-7472.75	-664.04	7500.15	0.00	
18500.00	90.00	179.49	10450.01	-7572.75	-663.15	7599.87	0.00	
18600.00	90.00	179.49	10450.01	-7672.74	-662.26	7699.60	0.00	
18700.00	90.00	179.49	10450.01	-7772.74	-661.37	7799.32	0.00	
18800.00	90.00	179.49	10450.01	-7872.74	-660.48	7899.05	0.00	
18900.00	90.00	179.49	10450.01	-7972.73	-659.59	7998.78	0.00	
19000.00	90.00	179.49	10450.01	-8072.73	-658.70	8098.50	0.00	
19100.00	90.00	179.49	10450.01	-8172.72	-657.81	8198.23	0.00	
19200.00	90.00	179.49	10450.01	-8272.72	-656.92	8297.95	0.00	
19300.00	90.00	179.49	10450.01	-8372.72	-656.03	8397.68	0.00	
19400.00	90.00	179.49	10450.01	-8472.71	-655.14	8497.40	0.00	
19500.00	90.00	179.49	10450.01	-8572.71	-654.25	8597.13	0.00	
19600.00	90.00	179.49	10450.01	-8672.70	-653.36	8696.85	0.00	
19700.00	90.00	179.49	10450.01	-8772.70	-652.47	8796.58	0.00	



Well: NORTH THISTLE 3 34 STATE COM 403H

County: Lea

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19800.00	90.00	179.49	10450.01	-8872.70	-651.58	8896.30	0.00	
19900.00	90.00	179.49	10450.01	-8972.69	-650.69	8996.03	0.00	
20000.00	90.00	179.49	10450.01	-9072.69	-649.80	9095.75	0.00	
20100.00	90.00	179.49	10450.01	-9172.68	-648.91	9195.48	0.00	
20200.00	90.00	179.49	10450.01	-9272.68	-648.02	9295.20	0.00	
20300.00	90.00	179.49	10450.01	-9372.68	-647.13	9394.93	0.00	
20400.00	90.00	179.49	10450.01	-9472.67	-646.24	9494.65	0.00	
20500.00	90.00	179.49	10450.01	-9572.67	-645.34	9594.38	0.00	
20600.00	90.00	179.49	10450.01	-9672.66	-644.45	9694.10	0.00	
20686.34	90.00	179.49	10450.01	-9759.00	-643.69	9780.21	0.00	exit
20700.00	90.00	179.49	10450.01	-9772.66	-643.56	9793.83	0.00	
20766.34	90.00	179.49	10450.00	-9839.00	-643.00	9859.99	0.00	BHL

NORTH THISTLE 3 34 STATE COM 403H

1. Geologic Formations

TVD of target	10450	Pilot hole depth	N/A
MD at TD:	20766	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1012		
Salt	1236		
Base of Salt	5073		
Delaware	5073		
Cherry Canyon	6064		
Brushy Canyon	7385		
1st Bone Spring Lime	8931		
Bone Spring 1st	10070		
Bone Spring Lime 2nd	10280		

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

NORTH THISTLE 3 34 STATE COM 403H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	1037	0	1037
11	8 5/8	32	J-55	BTC	0	5173	0	5173
7 7/8 x 6 3/4	5 1/2	20	P110EC	SPRINT TC SC	0	20766	0	10450

**7 7/8" Hole to KOP x 6 3/4" Curve/Lateral

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

3. Cementing Program (3-String Primary Design)

Casing	# Sk	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	788	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	514	Surf	9.0	3.3	Lead: Class C Cement + additives
	124	4673	13.2	1.4	Tail: Class H / C + additives
Production	307	4673	9.0	3.3	Lead: Class H / C + additives
	689	9960	13.2	1.4	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

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	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	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*		

NORTH THISTLE 3 34 STATE COM 403H

5. Mud Program (Three String Design)

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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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	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4891
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.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

<u>X</u>	Directional Plan
<u> </u>	Other, describe

Offline Cementing

Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

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 319752

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 319752
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/4/2024