

The Devon logo consists of the word "devon" in a white, lowercase, sans-serif font, positioned to the left of three horizontal orange bars of varying lengths.

devon

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 08 2017

RECEIVED

Devon Energy Corporation

Lea Co., NM
SeaWolf 1-12
Fed 102H

OH

Plan: PN3

Standard Planning Report

04 October, 2017



NABORS



Database: RyanUSA_Compass
Company: Devon Energy Corporation
Project: Lea Co., NM
Site: SeaWolf 1-12
Well: Fed 102H
Wellbore: OH
Design: PN3

Local Co-ordinate Reference: Well Fed 102H
TVD Reference: RT=32 @ 3351.00ft (Nabors X-04)
MD Reference: RT=32 @ 3351.00ft (Nabors X-04)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea Co., NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SeaWolf 1-12				
Site Position:		Northing:	393,463.690 usft	Latitude:	32° 4' 45.07085 N
From:	Map	Easting:	789,088.210 usft	Longitude:	103° 32' 0.34763 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	Fed 102H					
Well Position	+N/-S	0.49 ft	Northing:	393,464.180 usft	Latitude:	32° 4' 45.07129 N
	+E/-W	59.98 ft	Easting:	789,148.190 usft	Longitude:	103° 31' 59.65049 W
Position Uncertainty		2.00 ft	Wellhead Elevation:		Ground Level:	3,319.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/10/2017	6.80	59.82	47,933.80000000

Design	PN3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	1,024.50	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
1,024.50	0.80	233.37	1,024.38	-11.50	-7.32	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	1,999.85	-15.56	-12.79	0.08	-0.08	0.00	180.00	
2,633.99	6.34	76.69	2,632.55	-7.50	21.31	1.00	1.00	0.00	76.69	
7,900.96	6.34	76.69	7,867.30	126.39	587.30	0.00	0.00	0.00	0.00	
8,534.95	0.00	0.00	8,500.00	134.46	621.40	1.00	-1.00	0.00	180.00	
11,974.00	0.00	0.00	11,939.05	134.46	621.40	0.00	0.00	0.00	0.00	
12,605.62	15.50	179.95	12,563.00	49.54	621.47	2.45	2.45	0.00	179.95	
12,635.62	15.50	179.95	12,591.91	41.53	621.48	0.00	0.00	0.00	0.00	
13,261.37	90.59	179.95	12,941.75	-423.48	621.91	12.00	12.00	0.00	0.00	
22,868.40	90.59	179.95	12,843.00	-10,030.00	630.95	0.00	0.00	0.00	0.00	Fed 102H_BHL



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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.50	0.60	208.37	159.50	-0.73	-0.40	0.73	0.38	0.38	0.00
249.70	0.70	212.37	249.69	-1.62	-0.92	1.62	0.12	0.11	4.43
344.60	0.60	166.37	344.59	-2.59	-1.11	2.59	0.54	-0.11	-48.47
439.10	0.40	199.37	439.08	-3.38	-1.10	3.38	0.36	-0.21	34.92
564.90	0.80	250.37	564.88	-4.09	-2.08	4.09	0.50	0.32	40.54
658.50	1.30	226.37	658.46	-5.04	-3.46	5.04	0.70	0.53	-25.64
753.50	1.20	209.37	753.44	-6.65	-4.73	6.65	0.40	-0.11	-17.89
847.90	1.40	204.37	847.81	-8.56	-5.69	8.56	0.24	0.21	-5.30
942.30	1.10	204.37	942.19	-10.44	-6.54	10.44	0.32	-0.32	0.00
950.11	1.06	206.36	950.00	-10.57	-6.60	10.57	0.68	-0.48	25.45
10 3/4"									
1,024.50	0.80	233.37	1,024.38	-11.50	-7.32	11.50	0.68	-0.35	36.31
1,100.00	0.74	233.37	1,099.87	-12.11	-8.14	12.11	0.08	-0.08	0.00
1,200.00	0.66	233.37	1,199.87	-12.83	-9.11	12.83	0.08	-0.08	0.00
1,300.00	0.57	233.37	1,299.86	-13.47	-9.97	13.47	0.08	-0.08	0.00
1,329.14	0.55	233.37	1,329.00	-13.64	-10.20	13.64	0.08	-0.08	0.00
Top of Salt									
1,400.00	0.49	233.37	1,399.86	-14.03	-10.72	14.03	0.08	-0.08	0.00
1,500.00	0.41	233.37	1,499.85	-14.50	-11.35	14.50	0.08	-0.08	0.00
1,600.00	0.33	233.37	1,599.85	-14.88	-11.87	14.88	0.08	-0.08	0.00
1,700.00	0.25	233.37	1,699.85	-15.18	-12.27	15.18	0.08	-0.08	0.00
1,800.00	0.16	233.37	1,799.85	-15.39	-12.56	15.39	0.08	-0.08	0.00
1,900.00	0.08	233.37	1,899.85	-15.52	-12.73	15.52	0.08	-0.08	0.00
2,000.00	0.00	0.00	1,999.85	-15.56	-12.79	15.56	0.08	-0.08	0.00
2,100.00	1.00	76.69	2,099.84	-15.36	-11.94	15.36	1.00	1.00	0.00
2,200.00	2.00	76.69	2,199.81	-14.76	-9.39	14.76	1.00	1.00	0.00
2,300.00	3.00	76.69	2,299.71	-13.76	-5.15	13.76	1.00	1.00	0.00
2,400.00	4.00	76.69	2,399.52	-12.35	0.79	12.35	1.00	1.00	0.00
2,500.00	5.00	76.69	2,499.21	-10.55	8.43	10.55	1.00	1.00	0.00
2,600.00	6.00	76.69	2,598.75	-8.34	17.76	8.34	1.00	1.00	0.00
2,633.99	6.34	76.69	2,632.55	-7.50	21.31	7.50	1.00	1.00	0.00
2,700.00	6.34	76.69	2,698.15	-5.82	28.40	5.82	0.00	0.00	0.00
2,800.00	6.34	76.69	2,797.54	-3.28	39.15	3.28	0.00	0.00	0.00
2,900.00	6.34	76.69	2,896.93	-0.74	49.90	0.74	0.00	0.00	0.00
3,000.00	6.34	76.69	2,996.32	1.81	60.64	-1.81	0.00	0.00	0.00
3,100.00	6.34	76.69	3,095.71	4.35	71.39	-4.35	0.00	0.00	0.00
3,200.00	6.34	76.69	3,195.09	6.89	82.13	-6.89	0.00	0.00	0.00
3,300.00	6.34	76.69	3,294.48	9.43	92.88	-9.43	0.00	0.00	0.00
3,400.00	6.34	76.69	3,393.87	11.97	103.63	-11.97	0.00	0.00	0.00
3,500.00	6.34	76.69	3,493.26	14.52	114.37	-14.52	0.00	0.00	0.00
3,600.00	6.34	76.69	3,592.65	17.06	125.12	-17.06	0.00	0.00	0.00
3,700.00	6.34	76.69	3,692.04	19.60	135.86	-19.60	0.00	0.00	0.00
3,800.00	6.34	76.69	3,791.42	22.14	146.61	-22.14	0.00	0.00	0.00
3,900.00	6.34	76.69	3,890.81	24.69	157.36	-24.69	0.00	0.00	0.00
4,000.00	6.34	76.69	3,990.20	27.23	168.10	-27.23	0.00	0.00	0.00
4,100.00	6.34	76.69	4,089.59	29.77	178.85	-29.77	0.00	0.00	0.00
4,200.00	6.34	76.69	4,188.98	32.31	189.59	-32.31	0.00	0.00	0.00
4,300.00	6.34	76.69	4,288.37	34.85	200.34	-34.85	0.00	0.00	0.00
4,400.00	6.34	76.69	4,387.76	37.40	211.09	-37.40	0.00	0.00	0.00
4,500.00	6.34	76.69	4,487.14	39.94	221.83	-39.94	0.00	0.00	0.00
4,600.00	6.34	76.69	4,586.53	42.48	232.58	-42.48	0.00	0.00	0.00
4,700.00	6.34	76.69	4,685.92	45.02	243.32	-45.02	0.00	0.00	0.00
4,800.00	6.34	76.69	4,785.31	47.56	254.07	-47.56	0.00	0.00	0.00



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4,900.00	6.34	76.69	4,884.70	50.11	264.82	-50.11	0.00	0.00	0.00
5,000.00	6.34	76.69	4,984.09	52.65	275.56	-52.65	0.00	0.00	0.00
5,100.00	6.34	76.69	5,083.47	55.19	286.31	-55.19	0.00	0.00	0.00
5,175.99	6.34	76.69	5,159.00	57.12	294.47	-57.12	0.00	0.00	0.00
Base of Salt - Delaware									
5,200.00	6.34	76.69	5,182.86	57.73	297.05	-57.73	0.00	0.00	0.00
5,300.00	6.34	76.69	5,282.25	60.27	307.80	-60.27	0.00	0.00	0.00
5,400.00	6.34	76.69	5,381.64	62.82	318.55	-62.82	0.00	0.00	0.00
5,500.00	6.34	76.69	5,481.03	65.36	329.29	-65.36	0.00	0.00	0.00
5,600.00	6.34	76.69	5,580.42	67.90	340.04	-67.90	0.00	0.00	0.00
5,700.00	6.34	76.69	5,679.80	70.44	350.78	-70.44	0.00	0.00	0.00
5,800.00	6.34	76.69	5,779.19	72.99	361.53	-72.99	0.00	0.00	0.00
5,900.00	6.34	76.69	5,878.58	75.53	372.28	-75.53	0.00	0.00	0.00
6,000.00	6.34	76.69	5,977.97	78.07	383.02	-78.07	0.00	0.00	0.00
6,100.00	6.34	76.69	6,077.36	80.61	393.77	-80.61	0.00	0.00	0.00
6,200.00	6.34	76.69	6,176.75	83.15	404.52	-83.15	0.00	0.00	0.00
6,300.00	6.34	76.69	6,276.14	85.70	415.26	-85.70	0.00	0.00	0.00
6,400.00	6.34	76.69	6,375.52	88.24	426.01	-88.24	0.00	0.00	0.00
6,500.00	6.34	76.69	6,474.91	90.78	436.75	-90.78	0.00	0.00	0.00
6,600.00	6.34	76.69	6,574.30	93.32	447.50	-93.32	0.00	0.00	0.00
6,700.00	6.34	76.69	6,673.69	95.86	458.25	-95.86	0.00	0.00	0.00
6,800.00	6.34	76.69	6,773.08	98.41	468.99	-98.41	0.00	0.00	0.00
6,900.00	6.34	76.69	6,872.47	100.95	479.74	-100.95	0.00	0.00	0.00
7,000.00	6.34	76.69	6,971.85	103.49	490.48	-103.49	0.00	0.00	0.00
7,100.00	6.34	76.69	7,071.24	106.03	501.23	-106.03	0.00	0.00	0.00
7,200.00	6.34	76.69	7,170.63	108.57	511.98	-108.57	0.00	0.00	0.00
7,300.00	6.34	76.69	7,270.02	111.12	522.72	-111.12	0.00	0.00	0.00
7,400.00	6.34	76.69	7,369.41	113.66	533.47	-113.66	0.00	0.00	0.00
7,500.00	6.34	76.69	7,468.80	116.20	544.21	-116.20	0.00	0.00	0.00
7,600.00	6.34	76.69	7,568.19	118.74	554.96	-118.74	0.00	0.00	0.00
7,700.00	6.34	76.69	7,667.57	121.28	565.71	-121.28	0.00	0.00	0.00
7,800.00	6.34	76.69	7,766.96	123.83	576.45	-123.83	0.00	0.00	0.00
7,900.96	6.34	76.69	7,867.30	126.39	587.30	-126.39	0.00	0.00	0.00
8,000.00	5.35	76.69	7,965.83	128.72	597.12	-128.72	1.00	-1.00	0.00
8,100.00	4.35	76.69	8,065.47	130.66	605.34	-130.66	1.00	-1.00	0.00
8,200.00	3.35	76.69	8,165.24	132.21	611.88	-132.21	1.00	-1.00	0.00
8,300.00	2.35	76.69	8,265.12	133.35	616.71	-133.35	1.00	-1.00	0.00
8,400.00	1.35	76.69	8,365.06	134.09	619.85	-134.09	1.00	-1.00	0.00
8,500.00	0.35	76.69	8,465.05	134.44	621.30	-134.44	1.00	-1.00	0.00
8,534.95	0.00	0.00	8,500.00	134.46	621.40	-134.46	1.00	-1.00	0.00
8,600.00	0.00	0.00	8,565.05	134.46	621.40	-134.46	0.00	0.00	0.00
8,700.00	0.00	0.00	8,665.05	134.46	621.40	-134.46	0.00	0.00	0.00
8,800.00	0.00	0.00	8,765.05	134.46	621.40	-134.46	0.00	0.00	0.00
8,900.00	0.00	0.00	8,865.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,000.00	0.00	0.00	8,965.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,100.00	0.00	0.00	9,065.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,191.95	0.00	0.00	9,157.00	134.46	621.40	-134.46	0.00	0.00	0.00
Lower Brushy Canyon									
9,200.00	0.00	0.00	9,165.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,300.00	0.00	0.00	9,265.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,354.95	0.00	0.00	9,320.00	134.46	621.40	-134.46	0.00	0.00	0.00
1st BSPG Lime									
9,400.00	0.00	0.00	9,365.05	134.46	621.40	-134.46	0.00	0.00	0.00



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9,500.00	0.00	0.00	9,465.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,600.00	0.00	0.00	9,565.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,700.00	0.00	0.00	9,665.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,800.00	0.00	0.00	9,765.05	134.46	621.40	-134.46	0.00	0.00	0.00
9,900.00	0.00	0.00	9,865.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,000.00	0.00	0.00	9,965.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,100.00	0.00	0.00	10,065.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,200.00	0.00	0.00	10,165.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,300.00	0.00	0.00	10,265.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,303.95	0.00	0.00	10,269.00	134.46	621.40	-134.46	0.00	0.00	0.00
1st BSPG Sand									
10,400.00	0.00	0.00	10,365.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,500.00	0.00	0.00	10,465.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,550.95	0.00	0.00	10,516.00	134.46	621.40	-134.46	0.00	0.00	0.00
2nd BSPG Lime									
10,600.00	0.00	0.00	10,565.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,700.00	0.00	0.00	10,665.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,800.00	0.00	0.00	10,765.05	134.46	621.40	-134.46	0.00	0.00	0.00
10,851.95	0.00	0.00	10,817.00	134.46	621.40	-134.46	0.00	0.00	0.00
2nd BSPG Sand									
10,900.00	0.00	0.00	10,865.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,000.00	0.00	0.00	10,965.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,100.00	0.00	0.00	11,065.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,200.00	0.00	0.00	11,165.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,300.00	0.00	0.00	11,265.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,312.95	0.00	0.00	11,278.00	134.46	621.40	-134.46	0.00	0.00	0.00
3rd BSPG Lime									
11,400.00	0.00	0.00	11,365.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,500.00	0.00	0.00	11,465.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,600.00	0.00	0.00	11,565.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,700.00	0.00	0.00	11,665.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,800.00	0.00	0.00	11,765.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,900.00	0.00	0.00	11,865.05	134.46	621.40	-134.46	0.00	0.00	0.00
11,935.95	0.00	0.00	11,901.00	134.46	621.40	-134.46	0.00	0.00	0.00
3rd BSPG Sand									
11,974.00	0.00	0.00	11,939.05	134.46	621.40	-134.46	0.00	0.00	0.00
Fed 102H_KOP									
12,000.00	0.64	179.95	11,965.05	134.32	621.40	-134.32	2.45	2.45	0.00
12,100.00	3.09	179.95	12,064.99	131.06	621.40	-131.06	2.45	2.45	0.00
12,200.00	5.55	179.95	12,164.70	123.53	621.41	-123.53	2.45	2.45	0.00
12,300.00	8.00	179.95	12,263.99	111.74	621.42	-111.74	2.45	2.45	0.00
12,390.15	10.21	179.95	12,353.00	97.47	621.43	-97.47	2.45	2.45	0.00
Wolfcamp									
12,400.00	10.45	179.95	12,362.69	95.70	621.43	-95.70	2.45	2.45	0.00
12,416.59	10.86	179.95	12,379.00	92.64	621.44	-92.64	2.45	2.45	0.00
Wolfcamp X									
12,496.29	12.82	179.95	12,457.00	76.28	621.45	-76.28	2.45	2.45	0.00
Wolfcamp Y									
12,500.00	12.91	179.95	12,460.61	75.46	621.45	-75.46	2.45	2.45	0.00
12,574.55	14.74	179.95	12,533.00	57.65	621.47	-57.65	2.45	2.45	0.00
Wolfcamp 110									
12,605.62	15.50	179.95	12,563.00	49.54	621.47	-49.54	2.45	2.45	0.00
12,635.62	15.50	179.95	12,591.91	41.53	621.48	-41.53	0.00	0.00	0.00



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Site: SeaWolf 1-12
Well: Fed 102H
Wellbore: OH
Design: PN3

Local Co-ordinate Reference: Well Fed 102H
TVD Reference: RT=32 @ 3351.00ft (Nabors X-04)
MD Reference: RT=32 @ 3351.00ft (Nabors X-04)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Fed 102H_T1									
12,650.00	17.23	179.95	12,605.70	37.48	621.48	-37.48	12.00	12.00	0.00
12,675.00	20.23	179.95	12,629.38	29.45	621.49	-29.45	12.00	12.00	0.00
12,700.00	23.23	179.95	12,652.60	20.20	621.50	-20.20	12.00	12.00	0.00
12,701.53	23.41	179.95	12,654.00	19.60	621.50	-19.60	12.00	12.00	0.00
Wolfcamp 120									
12,725.00	26.23	179.95	12,675.30	9.74	621.51	-9.74	12.00	12.00	0.00
12,750.00	29.23	179.95	12,697.43	-1.88	621.52	1.88	12.00	12.00	0.00
12,775.00	32.23	179.95	12,718.92	-14.66	621.53	14.66	12.00	12.00	0.00
12,800.00	35.23	179.95	12,739.71	-28.54	621.54	28.54	12.00	12.00	0.00
12,811.47	36.60	179.95	12,749.00	-35.26	621.55	35.26	12.00	12.00	0.00
Wolfcamp 130									
12,825.00	38.23	179.95	12,759.74	-43.48	621.56	43.48	12.00	12.00	0.00
12,850.00	41.23	179.95	12,778.97	-59.46	621.57	59.46	12.00	12.00	0.00
12,875.00	44.23	179.95	12,797.33	-76.42	621.59	76.42	12.00	12.00	0.00
12,900.00	47.23	179.95	12,814.78	-94.32	621.60	94.32	12.00	12.00	0.00
12,925.00	50.23	179.95	12,831.27	-113.10	621.62	113.10	12.00	12.00	0.00
12,950.00	53.23	179.95	12,846.76	-132.73	621.64	132.73	12.00	12.00	0.00
12,975.00	56.23	179.95	12,861.19	-153.13	621.66	153.13	12.00	12.00	0.00
12,987.49	57.72	179.95	12,868.00	-163.60	621.67	163.60	12.00	12.00	0.00
Wolfcamp 200									
13,000.00	59.23	179.95	12,874.54	-174.27	621.68	174.27	12.00	12.00	0.00
13,025.00	62.23	179.95	12,886.77	-196.07	621.70	196.07	12.00	12.00	0.00
13,050.00	65.23	179.95	12,897.83	-218.49	621.72	218.49	12.00	12.00	0.00
13,075.00	68.23	179.95	12,907.71	-241.45	621.74	241.45	12.00	12.00	0.00
13,100.00	71.23	179.95	12,916.37	-264.90	621.76	264.90	12.00	12.00	0.00
13,125.00	74.23	179.95	12,923.79	-288.77	621.79	288.77	12.00	12.00	0.00
13,150.00	77.23	179.95	12,929.96	-312.99	621.81	312.99	12.00	12.00	0.00
13,175.00	80.23	179.95	12,934.85	-337.51	621.83	337.51	12.00	12.00	0.00
13,200.00	83.23	179.95	12,938.44	-362.25	621.85	362.25	12.00	12.00	0.00
13,225.00	86.23	179.95	12,940.74	-387.14	621.88	387.14	12.00	12.00	0.00
13,250.00	89.23	179.95	12,941.73	-412.11	621.90	412.11	12.00	12.00	0.00
13,261.37	90.59	179.95	12,941.75	-423.48	621.91	423.48	12.00	12.00	0.00
Fed 102H_EOC									
13,300.00	90.59	179.95	12,941.35	-462.11	621.95	462.11	0.00	0.00	0.00
13,400.00	90.59	179.95	12,940.33	-562.11	622.04	562.11	0.00	0.00	0.00
13,500.00	90.59	179.95	12,939.30	-662.10	622.14	662.10	0.00	0.00	0.00
13,600.00	90.59	179.95	12,938.27	-762.10	622.23	762.10	0.00	0.00	0.00
13,700.00	90.59	179.95	12,937.24	-862.09	622.32	862.09	0.00	0.00	0.00
13,800.00	90.59	179.95	12,936.22	-962.09	622.42	962.09	0.00	0.00	0.00
13,900.00	90.59	179.95	12,935.19	-1,062.08	622.51	1,062.08	0.00	0.00	0.00
14,000.00	90.59	179.95	12,934.16	-1,162.08	622.61	1,162.08	0.00	0.00	0.00
14,100.00	90.59	179.95	12,933.13	-1,262.07	622.70	1,262.07	0.00	0.00	0.00
14,200.00	90.59	179.95	12,932.10	-1,362.06	622.79	1,362.06	0.00	0.00	0.00
14,300.00	90.59	179.95	12,931.08	-1,462.06	622.89	1,462.06	0.00	0.00	0.00
14,400.00	90.59	179.95	12,930.05	-1,562.05	622.98	1,562.05	0.00	0.00	0.00
14,500.00	90.59	179.95	12,929.02	-1,662.05	623.08	1,662.05	0.00	0.00	0.00
14,600.00	90.59	179.95	12,927.99	-1,762.04	623.17	1,762.04	0.00	0.00	0.00
14,700.00	90.59	179.95	12,926.96	-1,862.04	623.27	1,862.04	0.00	0.00	0.00
14,800.00	90.59	179.95	12,925.94	-1,962.03	623.36	1,962.03	0.00	0.00	0.00
14,900.00	90.59	179.95	12,924.91	-2,062.03	623.45	2,062.03	0.00	0.00	0.00
15,000.00	90.59	179.95	12,923.88	-2,162.02	623.55	2,162.02	0.00	0.00	0.00
15,100.00	90.59	179.95	12,922.85	-2,262.02	623.64	2,262.02	0.00	0.00	0.00



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Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,200.00	90.59	179.95	12,921.82	-2,362.01	623.74	2,362.01	0.00	0.00	0.00
15,300.00	90.59	179.95	12,920.80	-2,462.01	623.83	2,462.01	0.00	0.00	0.00
15,400.00	90.59	179.95	12,919.77	-2,562.00	623.92	2,562.00	0.00	0.00	0.00
15,500.00	90.59	179.95	12,918.74	-2,662.00	624.02	2,662.00	0.00	0.00	0.00
15,600.00	90.59	179.95	12,917.71	-2,761.99	624.11	2,761.99	0.00	0.00	0.00
15,700.00	90.59	179.95	12,916.68	-2,861.98	624.21	2,861.98	0.00	0.00	0.00
15,800.00	90.59	179.95	12,915.66	-2,961.98	624.30	2,961.98	0.00	0.00	0.00
15,900.00	90.59	179.95	12,914.63	-3,061.97	624.39	3,061.97	0.00	0.00	0.00
16,000.00	90.59	179.95	12,913.60	-3,161.97	624.49	3,161.97	0.00	0.00	0.00
16,100.00	90.59	179.95	12,912.57	-3,261.96	624.58	3,261.96	0.00	0.00	0.00
16,200.00	90.59	179.95	12,911.55	-3,361.96	624.68	3,361.96	0.00	0.00	0.00
16,300.00	90.59	179.95	12,910.52	-3,461.95	624.77	3,461.95	0.00	0.00	0.00
16,400.00	90.59	179.95	12,909.49	-3,561.95	624.86	3,561.95	0.00	0.00	0.00
16,500.00	90.59	179.95	12,908.46	-3,661.94	624.96	3,661.94	0.00	0.00	0.00
16,600.00	90.59	179.95	12,907.43	-3,761.94	625.05	3,761.94	0.00	0.00	0.00
16,700.00	90.59	179.95	12,906.41	-3,861.93	625.15	3,861.93	0.00	0.00	0.00
16,800.00	90.59	179.95	12,905.38	-3,961.93	625.24	3,961.93	0.00	0.00	0.00
16,900.00	90.59	179.95	12,904.35	-4,061.92	625.34	4,061.92	0.00	0.00	0.00
17,000.00	90.59	179.95	12,903.32	-4,161.92	625.43	4,161.92	0.00	0.00	0.00
17,100.00	90.59	179.95	12,902.29	-4,261.91	625.52	4,261.91	0.00	0.00	0.00
17,200.00	90.59	179.95	12,901.27	-4,361.90	625.62	4,361.90	0.00	0.00	0.00
17,300.00	90.59	179.95	12,900.24	-4,461.90	625.71	4,461.90	0.00	0.00	0.00
17,400.00	90.59	179.95	12,899.21	-4,561.89	625.81	4,561.89	0.00	0.00	0.00
17,500.00	90.59	179.95	12,898.18	-4,661.89	625.90	4,661.89	0.00	0.00	0.00
17,600.00	90.59	179.95	12,897.15	-4,761.88	625.99	4,761.88	0.00	0.00	0.00
17,700.00	90.59	179.95	12,896.13	-4,861.88	626.09	4,861.88	0.00	0.00	0.00
17,800.00	90.59	179.95	12,895.10	-4,961.87	626.18	4,961.87	0.00	0.00	0.00
17,900.00	90.59	179.95	12,894.07	-5,061.87	626.28	5,061.87	0.00	0.00	0.00
18,000.00	90.59	179.95	12,893.04	-5,161.86	626.37	5,161.86	0.00	0.00	0.00
18,100.00	90.59	179.95	12,892.02	-5,261.86	626.46	5,261.86	0.00	0.00	0.00
18,200.00	90.59	179.95	12,890.99	-5,361.85	626.56	5,361.85	0.00	0.00	0.00
18,300.00	90.59	179.95	12,889.96	-5,461.85	626.65	5,461.85	0.00	0.00	0.00
18,400.00	90.59	179.95	12,888.93	-5,561.84	626.75	5,561.84	0.00	0.00	0.00
18,500.00	90.59	179.95	12,887.90	-5,661.84	626.84	5,661.84	0.00	0.00	0.00
18,600.00	90.59	179.95	12,886.88	-5,761.83	626.93	5,761.83	0.00	0.00	0.00
18,700.00	90.59	179.95	12,885.85	-5,861.82	627.03	5,861.82	0.00	0.00	0.00
18,800.00	90.59	179.95	12,884.82	-5,961.82	627.12	5,961.82	0.00	0.00	0.00
18,900.00	90.59	179.95	12,883.79	-6,061.81	627.22	6,061.81	0.00	0.00	0.00
19,000.00	90.59	179.95	12,882.76	-6,161.81	627.31	6,161.81	0.00	0.00	0.00
19,100.00	90.59	179.95	12,881.74	-6,261.80	627.40	6,261.80	0.00	0.00	0.00
19,200.00	90.59	179.95	12,880.71	-6,361.80	627.50	6,361.80	0.00	0.00	0.00
19,300.00	90.59	179.95	12,879.68	-6,461.79	627.59	6,461.79	0.00	0.00	0.00
19,400.00	90.59	179.95	12,878.65	-6,561.79	627.69	6,561.79	0.00	0.00	0.00
19,500.00	90.59	179.95	12,877.62	-6,661.78	627.78	6,661.78	0.00	0.00	0.00
19,600.00	90.59	179.95	12,876.60	-6,761.78	627.88	6,761.78	0.00	0.00	0.00
19,700.00	90.59	179.95	12,875.57	-6,861.77	627.97	6,861.77	0.00	0.00	0.00
19,800.00	90.59	179.95	12,874.54	-6,961.77	628.06	6,961.77	0.00	0.00	0.00
19,900.00	90.59	179.95	12,873.51	-7,061.76	628.16	7,061.76	0.00	0.00	0.00
20,000.00	90.59	179.95	12,872.48	-7,161.76	628.25	7,161.76	0.00	0.00	0.00
20,100.00	90.59	179.95	12,871.46	-7,261.75	628.35	7,261.75	0.00	0.00	0.00
20,200.00	90.59	179.95	12,870.43	-7,361.74	628.44	7,361.74	0.00	0.00	0.00
20,300.00	90.59	179.95	12,869.40	-7,461.74	628.53	7,461.74	0.00	0.00	0.00
20,400.00	90.59	179.95	12,868.37	-7,561.73	628.63	7,561.73	0.00	0.00	0.00
20,500.00	90.59	179.95	12,867.35	-7,661.73	628.72	7,661.73	0.00	0.00	0.00



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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
20,600.00	90.59	179.95	12,866.32	-7,761.72	628.82	7,761.72	0.00	0.00	0.00
20,700.00	90.59	179.95	12,865.29	-7,861.72	628.91	7,861.72	0.00	0.00	0.00
20,800.00	90.59	179.95	12,864.26	-7,961.71	629.00	7,961.71	0.00	0.00	0.00
20,900.00	90.59	179.95	12,863.23	-8,061.71	629.10	8,061.71	0.00	0.00	0.00
21,000.00	90.59	179.95	12,862.21	-8,161.70	629.19	8,161.70	0.00	0.00	0.00
21,100.00	90.59	179.95	12,861.18	-8,261.70	629.29	8,261.70	0.00	0.00	0.00
21,200.00	90.59	179.95	12,860.15	-8,361.69	629.38	8,361.69	0.00	0.00	0.00
21,300.00	90.59	179.95	12,859.12	-8,461.69	629.47	8,461.69	0.00	0.00	0.00
21,400.00	90.59	179.95	12,858.09	-8,561.68	629.57	8,561.68	0.00	0.00	0.00
21,500.00	90.59	179.95	12,857.07	-8,661.68	629.66	8,661.68	0.00	0.00	0.00
21,600.00	90.59	179.95	12,856.04	-8,761.67	629.76	8,761.67	0.00	0.00	0.00
21,700.00	90.59	179.95	12,855.01	-8,861.67	629.85	8,861.67	0.00	0.00	0.00
21,800.00	90.59	179.95	12,853.98	-8,961.66	629.94	8,961.66	0.00	0.00	0.00
21,900.00	90.59	179.95	12,852.95	-9,061.65	630.04	9,061.65	0.00	0.00	0.00
22,000.00	90.59	179.95	12,851.93	-9,161.65	630.13	9,161.65	0.00	0.00	0.00
22,100.00	90.59	179.95	12,850.90	-9,261.64	630.23	9,261.64	0.00	0.00	0.00
22,200.00	90.59	179.95	12,849.87	-9,361.64	630.32	9,361.64	0.00	0.00	0.00
22,300.00	90.59	179.95	12,848.84	-9,461.63	630.42	9,461.63	0.00	0.00	0.00
22,400.00	90.59	179.95	12,847.81	-9,561.63	630.51	9,561.63	0.00	0.00	0.00
22,500.00	90.59	179.95	12,846.79	-9,661.62	630.60	9,661.62	0.00	0.00	0.00
22,600.00	90.59	179.95	12,845.76	-9,761.62	630.70	9,761.62	0.00	0.00	0.00
22,700.00	90.59	179.95	12,844.73	-9,861.61	630.79	9,861.61	0.00	0.00	0.00
22,800.00	90.59	179.95	12,843.70	-9,961.61	630.89	9,961.61	0.00	0.00	0.00
22,868.40	90.59	179.95	12,843.00	-10,030.00	630.95	10,030.00	0.00	0.00	0.00

Fed 102H_BHL

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Fed 102H_KOP - plan hits target center - Point	0.00	0.00	11,939.05	134.46	621.40	393,598.640	789,769.589	32° 4' 46.35615 N	103° 31' 52.41685 W
Fed 102H_T1 - plan hits target center - Point	0.00	0.00	12,591.91	41.53	621.48	393,505.707	789,769.670	32° 4' 45.43655 N	103° 31' 52.42393 W
Fed 102H_BHL - plan hits target center - Point	0.00	0.00	12,843.00	-10,030.00	630.95	383,434.200	789,779.139	32° 3' 5.77486 N	103° 31' 53.18366 W
Fed 102H_EOC - plan hits target center - Point	0.00	0.00	12,941.75	-423.48	621.91	393,040.701	789,770.099	32° 4' 40.83513 N	103° 31' 52.45913 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
950.11	950.00	10 3/4"	10-3/4	12-1/4



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MD Reference:
North Reference:
Survey Calculation Method:

Well Fed 102H
RT=32 @ 3351.00ft (Nabors X-04)
RT=32 @ 3351.00ft (Nabors X-04)
Grid
Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
976.11	976.00	Rustler			
1,329.14	1,329.00	Top of Salt			
5,175.99	5,159.00	Base of Salt			
5,175.99	5,159.00	Delaware			
9,191.95	9,157.00	Lower Brushy Canyon			
9,354.95	9,320.00	1st BSPG Lime			
10,303.95	10,269.00	1st BSPG Sand			
10,550.95	10,516.00	2nd BSPG Lime			
10,851.95	10,817.00	2nd BSPG Sand			
11,312.95	11,278.00	3rd BSPG Lime			
11,935.95	11,901.00	3rd BSPG Sand			
12,390.15	12,353.00	Wolfcamp			
12,416.59	12,379.00	Wolfcamp X			
12,496.29	12,457.00	Wolfcamp Y			
12,574.55	12,533.00	Wolfcamp 110			
12,701.53	12,654.00	Wolfcamp 120			
12,811.47	12,749.00	Wolfcamp 130			
12,987.49	12,868.00	Wolfcamp 200			

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company
LEASE NO.:	NMNM114988
WELL NAME & NO.:	Seawolf 1-12 Fed 102H
SURFACE HOLE FOOTAGE:	200'/N & 420'/W
BOTTOM HOLE FOOTAGE:	200'/S & 1650'/W
LOCATION:	Section 1, T.26 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

Potash	☒ None	☒ Secretary	☒ R-111-P
Cave/Karst Potential	☒ Low	☒ Medium	☒ High
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	☒ Conventional	☒ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

All previous COAs still apply except for the following:

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least **8 hours**. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

1. The 10 3/4 inch surface casing shall be set at approximately 1000 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7 5/8 inch intermediate casing is:

Operator has proposed DV tool at depth of 4900', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to

prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the **5 1/2** inch production casing is:

- Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7 5/8** intermediate casing shoe shall be **10,000 (10M)** psi. **Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)**
4. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
5. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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