

devon

WELL DETAILS: Fed 94Y

Ground Elevation: 3325.50
RKB Elevation: KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Rig Name: Nabors X04

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	393525.190	793224.330	32° 4' 45.37339 N	103° 31' 12.27147 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3217.81	7.18	277.90	3215.93	6.17	-44.48	1.00	277.90	-2.59
9017.81	7.18	277.90	8970.48	105.78	-762.33	0.00	0.00	-44.42
9735.62	0.00	0.00	9696.41	111.95	-806.81	1.00	180.00	-47.01
12066.26	0.00	0.00	12017.05	111.95	-806.81	0.00	0.00	-47.01
12962.56	89.63	180.01	12590.00	-457.31	-806.92	10.00	180.01	520.43
22576.69	89.63	180.01	12652.00	-10071.23	-808.77	0.00	0.00	10103.65

Fed_94Y_BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Fed_94Y_BHL	12652.00	-10071.23	-808.77	383453.980	792415.560
Fed_94Y_EOC	12590.00	-458.28	-808.77	393066.911	792415.562



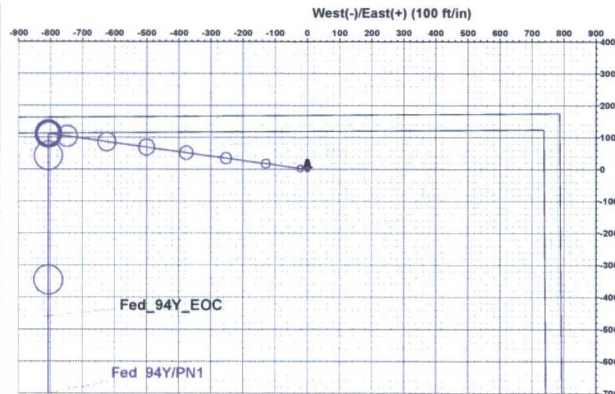
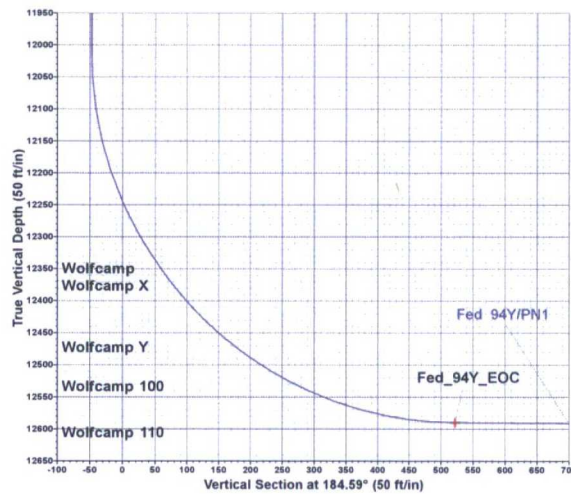
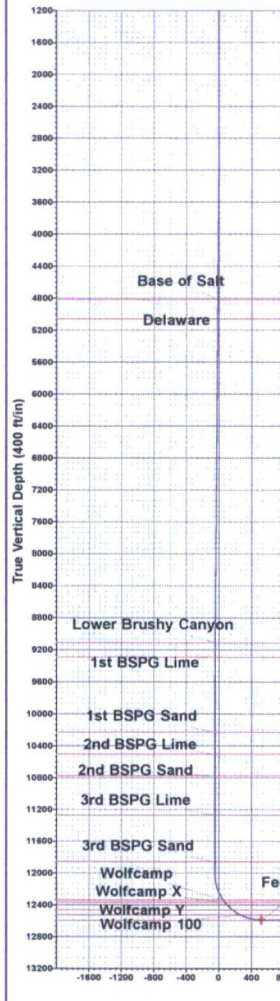
Azimuths to Grid North
True North: -0.43°
Magnetic North: 8.09°

Magnetic Field
Strength: 49340.1nT
Dip Angle: 60.31°
Date: 12/31/2004
Model: IGRF2000

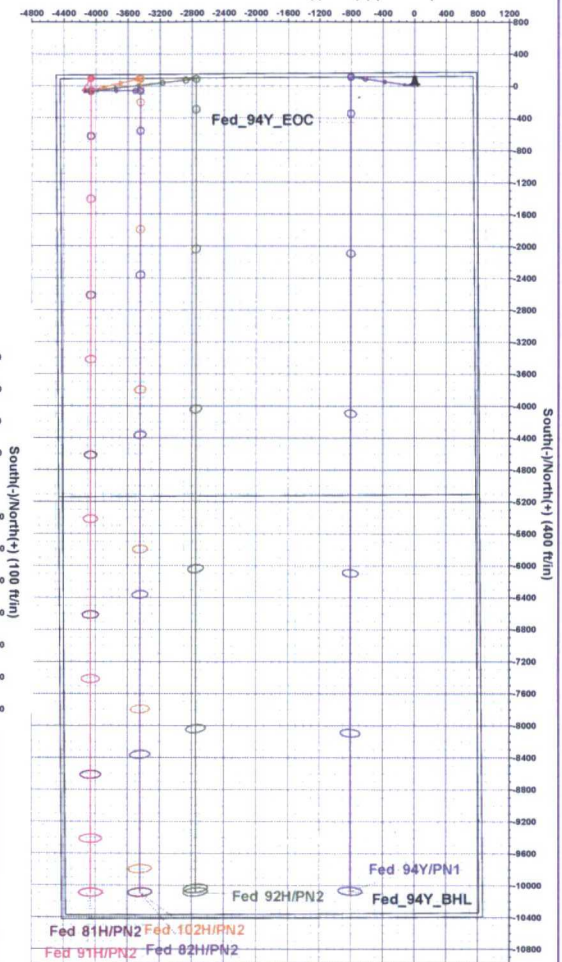
PROJECT DETAILS: Lea Co., NM
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level
Local North: Grid

Project: Lea Co., NM
Site: SeaWolf 1-12
Well: Fed 94Y
Wellbore: OH
Plan: PN1 (Fed 94Y/OH)



FORMATION TOP DETAILS		
TVD(ft)	MD(ft)	Formation
748.00	748.00	Rueflier
1084.00	1084.00	Top of Salt
4817.00	4817.00	Base of Salt
5059.00	5075.44	Delaware
9112.00	9160.24	Lower Brushy Canyon
9292.00	9340.90	1st BSPG Lime
10230.00	10279.21	1st BSPG Sand
10509.00	10554.21	2nd BSPG Lime
10778.00	10827.21	2nd BSPG Sand
11272.00	11321.21	3rd BSPG Lime
11868.00	11905.21	3rd BSPG Sand
12342.00	12411.77	Wolfcamp
12589.00	12445.25	Wolfcamp X
12485.00	12580.54	Wolfcamp Y
12528.00	12692.85	Wolfcamp 100
12598.00	14203.65	Wolfcamp 110





Devon Energy Corporation

Lea Co., NM
SeaWolf 1-12
Fed 94Y

OH

Plan: PN1

Standard Planning Report

23 August, 2017



NABORS

devon

WELL DETAILS: Fed 94Y

Ground Elevation: 3325.50
 RKB Elevation: X8+32' (Nabors X04) @ 3357.50ft (Nabors X04)
 Rig Name: Nabors X04

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	393525.190	793224.330	32° 4' 45.37339 N	103° 31' 12.27147 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3217.81	7.18	277.90	3216.93	6.17	-44.48	1.00	277.90	-2.58
3617.81	7.18	277.90	3616.93	6.17	-44.48	1.00	277.90	-2.58
3725.82	0.00	0.00	3686.41	111.95	-896.81	1.00	180.00	-47.81
12065.26	0.00	0.00	12067.05	111.95	-896.81	0.00	0.00	-47.81
12982.56	89.63	180.01	12089.00	-457.21	-898.92	10.00	180.01	520.43
22576.69	89.63	180.01	12652.00	-10671.23	-898.77	0.00	0.00	16163.65

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Fed_94Y_BHL	12652.00	-10671.23	-898.77	393525.190	793224.330
Fed_94Y_EOC	12390.00	-454.28	-898.77	393525.190	793224.330

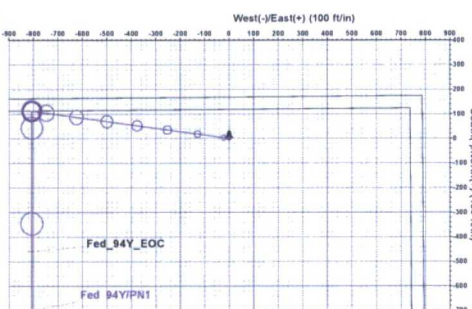
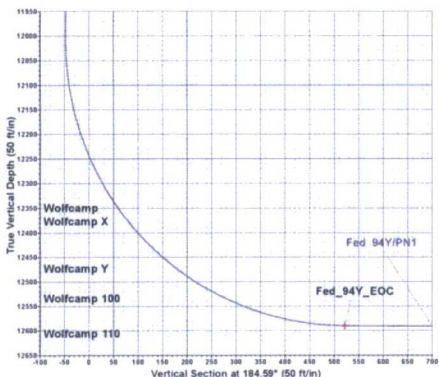
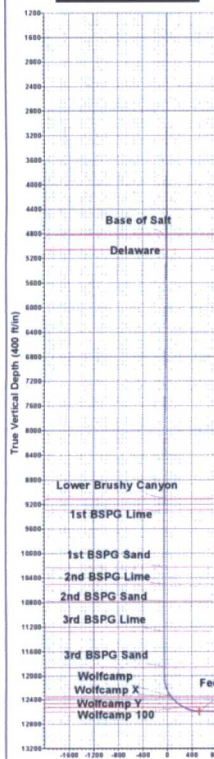


Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 9.09°
 Magnetic Field
 Strength: 43340.1nT
 Dip Angle: 60.31°
 Date: 12/31/2004
 Model: IGRF2000

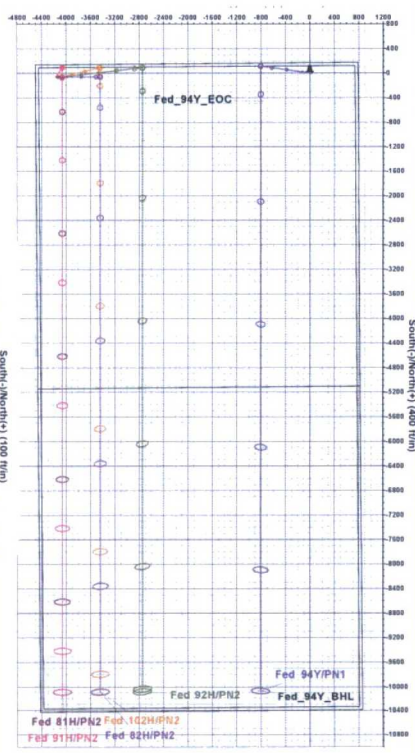
PROJECT DETAILS: Lea Co., NM
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level
 Local North: Grid

Project: Lea Co., NM
 Site: SeaWolf 1-12
 Well: Fed 94Y
 Wellbore: OH
 Plan: PN1 (Fed 94Y/OH)

NABORS



TVD(ft)	MD(ft)	Formation
762.00	762.00	Surface
4317.00	4317.00	Top of Salt
1084.00	1084.00	Base of Salt
9010.00	9010.00	Delaware
9112.00	9112.00	Lower Brushy Canyon
9212.00	9212.00	1st BSPG Lime
10220.00	10220.00	1st BSPG Sand
10505.00	10505.00	2nd BSPG Lime
10779.00	10779.00	2nd BSPG Sand
11712.00	11712.00	3rd BSPG Lime
11846.00	11846.00	3rd BSPG Sand
12065.00	12065.00	Wolfcamp X
12342.00	12342.00	Wolfcamp Y
12576.00	12576.00	Wolfcamp 100
12588.00	12588.00	Wolfcamp 110



Database:	RyanUSA_Compass	Local Co-ordinate Reference:	Well Fed 94Y
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Site:	SeaWolf 1-12	North Reference:	Grid
Well:	Fed 94Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PN1		

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

Well	Fed 94Y		
Well Position	+N/-S	61.50 ft	Northing:
	+E/-W	4,136.13 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Ground Level:
			3,325.50 ft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.53	60.31	49,340.07668149

Design	PN1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			184.59

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,217.81	7.18	277.90	3,215.93	6.17	-44.48	1.00	1.00	0.00	277.90	
9,017.81	7.18	277.90	8,970.48	105.78	-762.33	0.00	0.00	0.00	0.00	
9,735.62	0.00	0.00	9,686.41	111.95	-806.81	1.00	-1.00	0.00	180.00	
12,066.26	0.00	0.00	12,017.05	111.95	-806.81	0.00	0.00	0.00	0.00	
12,962.56	89.63	180.01	12,590.00	-457.31	-806.92	10.00	10.00	-20.08	180.01	
22,576.69	89.63	180.01	12,652.00	-10,071.23	-808.77	0.00	0.00	0.00	0.00	Fed_94H_BHL



Database:	RyanUSA_Compass	Local Co-ordinate Reference:	Well Fed 94Y
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Site:	SeaWolf 1-12	North Reference:	Grid
Well:	Fed 94Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PN1		

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
746.00	0.00	0.00	746.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,094.00	0.00	0.00	1,094.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	1.00	277.90	2,599.99	0.12	-0.86	-0.05	1.00	1.00	0.00
2,700.00	2.00	277.90	2,699.96	0.48	-3.46	-0.20	1.00	1.00	0.00
2,800.00	3.00	277.90	2,799.86	1.08	-7.78	-0.45	1.00	1.00	0.00
2,900.00	4.00	277.90	2,899.68	1.92	-13.82	-0.81	1.00	1.00	0.00
3,000.00	5.00	277.90	2,999.37	3.00	-21.60	-1.26	1.00	1.00	0.00
3,100.00	6.00	277.90	3,098.90	4.31	-31.09	-1.81	1.00	1.00	0.00
3,200.00	7.00	277.90	3,198.26	5.87	-42.30	-2.46	1.00	1.00	0.00
3,217.81	7.18	277.90	3,215.93	6.17	-44.48	-2.59	1.00	1.00	0.00
3,300.00	7.18	277.90	3,297.48	7.58	-54.65	-3.18	0.00	0.00	0.00
3,400.00	7.18	277.90	3,396.70	9.30	-67.03	-3.91	0.00	0.00	0.00
3,500.00	7.18	277.90	3,495.91	11.02	-79.41	-4.63	0.00	0.00	0.00
3,600.00	7.18	277.90	3,595.13	12.74	-91.78	-5.35	0.00	0.00	0.00
3,700.00	7.18	277.90	3,694.34	14.45	-104.16	-6.07	0.00	0.00	0.00
3,800.00	7.18	277.90	3,793.56	16.17	-116.54	-6.79	0.00	0.00	0.00
3,900.00	7.18	277.90	3,892.78	17.89	-128.91	-7.51	0.00	0.00	0.00
4,000.00	7.18	277.90	3,991.99	19.61	-141.29	-8.23	0.00	0.00	0.00
4,100.00	7.18	277.90	4,091.21	21.32	-153.67	-8.95	0.00	0.00	0.00
4,200.00	7.18	277.90	4,190.43	23.04	-166.04	-9.68	0.00	0.00	0.00
4,300.00	7.18	277.90	4,289.64	24.76	-178.42	-10.40	0.00	0.00	0.00
4,400.00	7.18	277.90	4,388.86	26.48	-190.80	-11.12	0.00	0.00	0.00
4,500.00	7.18	277.90	4,488.07	28.19	-203.17	-11.84	0.00	0.00	0.00
4,600.00	7.18	277.90	4,587.29	29.91	-215.55	-12.56	0.00	0.00	0.00

Database: RyanUSA_Compass
Company: Devon Energy Corporation
Project: Lea Co., NM
Site: SeaWolf 1-12
Well: Fed 94Y
Wellbore: OH
Design: PN1

Local Co-ordinate Reference: Well Fed 94Y
TVD Reference: KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
MD Reference: KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
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)
4,700.00	7.18	277.90	4,686.51	31.63	-227.93	-13.28	0.00	0.00	0.00
4,800.00	7.18	277.90	4,785.72	33.34	-240.30	-14.00	0.00	0.00	0.00
4,831.52	7.18	277.90	4,817.00	33.89	-244.21	-14.23	0.00	0.00	0.00
Base of Salt									
4,900.00	7.18	277.90	4,884.94	35.06	-252.68	-14.72	0.00	0.00	0.00
5,000.00	7.18	277.90	4,984.16	36.78	-265.06	-15.44	0.00	0.00	0.00
5,075.44	7.18	277.90	5,059.00	38.08	-274.39	-15.99	0.00	0.00	0.00
Delaware									
5,100.00	7.18	277.90	5,083.37	38.50	-277.43	-16.17	0.00	0.00	0.00
5,200.00	7.18	277.90	5,182.59	40.21	-289.81	-16.89	0.00	0.00	0.00
5,300.00	7.18	277.90	5,281.80	41.93	-302.19	-17.61	0.00	0.00	0.00
5,400.00	7.18	277.90	5,381.02	43.65	-314.56	-18.33	0.00	0.00	0.00
5,500.00	7.18	277.90	5,480.24	45.37	-326.94	-19.05	0.00	0.00	0.00
5,600.00	7.18	277.90	5,579.45	47.08	-339.32	-19.77	0.00	0.00	0.00
5,700.00	7.18	277.90	5,678.67	48.80	-351.70	-20.49	0.00	0.00	0.00
5,800.00	7.18	277.90	5,777.89	50.52	-364.07	-21.21	0.00	0.00	0.00
5,900.00	7.18	277.90	5,877.10	52.24	-376.45	-21.94	0.00	0.00	0.00
6,000.00	7.18	277.90	5,976.32	53.95	-388.83	-22.66	0.00	0.00	0.00
6,100.00	7.18	277.90	6,075.53	55.67	-401.20	-23.38	0.00	0.00	0.00
6,200.00	7.18	277.90	6,174.75	57.39	-413.58	-24.10	0.00	0.00	0.00
6,300.00	7.18	277.90	6,273.97	59.11	-425.96	-24.82	0.00	0.00	0.00
6,400.00	7.18	277.90	6,373.18	60.82	-438.33	-25.54	0.00	0.00	0.00
6,500.00	7.18	277.90	6,472.40	62.54	-450.71	-26.26	0.00	0.00	0.00
6,600.00	7.18	277.90	6,571.62	64.26	-463.09	-26.98	0.00	0.00	0.00
6,700.00	7.18	277.90	6,670.83	65.98	-475.46	-27.70	0.00	0.00	0.00
6,800.00	7.18	277.90	6,770.05	67.69	-487.84	-28.43	0.00	0.00	0.00
6,900.00	7.18	277.90	6,869.26	69.41	-500.22	-29.15	0.00	0.00	0.00
7,000.00	7.18	277.90	6,968.48	71.13	-512.59	-29.87	0.00	0.00	0.00
7,100.00	7.18	277.90	7,067.70	72.85	-524.97	-30.59	0.00	0.00	0.00
7,200.00	7.18	277.90	7,166.91	74.56	-537.35	-31.31	0.00	0.00	0.00
7,300.00	7.18	277.90	7,266.13	76.28	-549.72	-32.03	0.00	0.00	0.00
7,400.00	7.18	277.90	7,365.35	78.00	-562.10	-32.75	0.00	0.00	0.00
7,500.00	7.18	277.90	7,464.56	79.72	-574.48	-33.47	0.00	0.00	0.00
7,600.00	7.18	277.90	7,563.78	81.43	-586.85	-34.20	0.00	0.00	0.00
7,700.00	7.18	277.90	7,662.99	83.15	-599.23	-34.92	0.00	0.00	0.00
7,800.00	7.18	277.90	7,762.21	84.87	-611.61	-35.64	0.00	0.00	0.00
7,900.00	7.18	277.90	7,861.43	86.59	-623.99	-36.36	0.00	0.00	0.00
8,000.00	7.18	277.90	7,960.64	88.30	-636.36	-37.08	0.00	0.00	0.00
8,100.00	7.18	277.90	8,059.86	90.02	-648.74	-37.80	0.00	0.00	0.00
8,200.00	7.18	277.90	8,159.08	91.74	-661.12	-38.52	0.00	0.00	0.00
8,300.00	7.18	277.90	8,258.29	93.45	-673.49	-39.24	0.00	0.00	0.00
8,400.00	7.18	277.90	8,357.51	95.17	-685.87	-39.96	0.00	0.00	0.00
8,500.00	7.18	277.90	8,456.72	96.89	-698.25	-40.69	0.00	0.00	0.00
8,600.00	7.18	277.90	8,555.94	98.61	-710.62	-41.41	0.00	0.00	0.00
8,700.00	7.18	277.90	8,655.16	100.32	-723.00	-42.13	0.00	0.00	0.00
8,800.00	7.18	277.90	8,754.37	102.04	-735.38	-42.85	0.00	0.00	0.00
8,900.00	7.18	277.90	8,853.59	103.76	-747.75	-43.57	0.00	0.00	0.00
9,000.00	7.18	277.90	8,952.81	105.48	-760.13	-44.29	0.00	0.00	0.00
9,017.81	7.18	277.90	8,970.48	105.78	-762.33	-44.42	0.00	0.00	0.00
9,100.00	6.36	277.90	9,052.09	107.11	-771.93	-44.98	1.00	-1.00	0.00
9,160.24	5.75	277.90	9,112.00	107.99	-778.22	-45.35	1.00	-1.00	0.00
Lower Brushy Canyon									

Database: RyanUSA_Compass
Company: Devon Energy Corporation

Project: Lea Co., NM

Site: SeaWolf 1-12

Well: Fed 94Y

Wellbore: OH

Design: PN1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Fed 94Y

KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)

KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)

Grid

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)
9,200.00	5.36	277.90	9,151.57	108.52	-782.03	-45.57	1.00	-1.00	0.00
9,300.00	4.36	277.90	9,251.21	109.68	-790.42	-46.06	1.00	-1.00	0.00
9,340.90	3.95	277.90	9,292.00	110.09	-793.35	-46.23	1.00	-1.00	0.00
1st BSPG Lime									
9,400.00	3.36	277.90	9,350.98	110.60	-797.08	-46.44	1.00	-1.00	0.00
9,500.00	2.36	277.90	9,450.86	111.29	-802.02	-46.73	1.00	-1.00	0.00
9,600.00	1.36	277.90	9,550.80	111.73	-805.22	-46.92	1.00	-1.00	0.00
9,700.00	0.36	277.90	9,650.79	111.94	-806.70	-47.01	1.00	-1.00	0.00
9,735.62	0.00	0.00	9,686.41	111.95	-806.81	-47.01	1.00	-1.00	0.00
9,800.00	0.00	0.00	9,750.79	111.95	-806.81	-47.01	0.00	0.00	0.00
9,900.00	0.00	0.00	9,850.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,000.00	0.00	0.00	9,950.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,100.00	0.00	0.00	10,050.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,200.00	0.00	0.00	10,150.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,279.21	0.00	0.00	10,230.00	111.95	-806.81	-47.01	0.00	0.00	0.00
1st BSPG Sand									
10,300.00	0.00	0.00	10,250.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,400.00	0.00	0.00	10,350.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,500.00	0.00	0.00	10,450.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,554.21	0.00	0.00	10,505.00	111.95	-806.81	-47.01	0.00	0.00	0.00
2nd BSPG Lime									
10,600.00	0.00	0.00	10,550.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,700.00	0.00	0.00	10,650.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,800.00	0.00	0.00	10,750.79	111.95	-806.81	-47.01	0.00	0.00	0.00
10,827.21	0.00	0.00	10,778.00	111.95	-806.81	-47.01	0.00	0.00	0.00
2nd BSPG Sand									
10,900.00	0.00	0.00	10,850.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,000.00	0.00	0.00	10,950.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,100.00	0.00	0.00	11,050.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,200.00	0.00	0.00	11,150.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,300.00	0.00	0.00	11,250.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,321.21	0.00	0.00	11,272.00	111.95	-806.81	-47.01	0.00	0.00	0.00
3rd BSPG Lime									
11,400.00	0.00	0.00	11,350.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,500.00	0.00	0.00	11,450.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,600.00	0.00	0.00	11,550.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,700.00	0.00	0.00	11,650.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,800.00	0.00	0.00	11,750.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,900.00	0.00	0.00	11,850.79	111.95	-806.81	-47.01	0.00	0.00	0.00
11,905.21	0.00	0.00	11,856.00	111.95	-806.81	-47.01	0.00	0.00	0.00
3rd BSPG Sand									
12,000.00	0.00	0.00	11,950.79	111.95	-806.81	-47.01	0.00	0.00	0.00
12,066.26	0.00	0.00	12,017.05	111.95	-806.81	-47.01	0.00	0.00	0.00
12,100.00	3.37	180.01	12,050.77	110.96	-806.81	-46.02	10.00	10.00	0.00
12,150.00	8.37	180.01	12,100.49	105.85	-806.81	-40.92	10.00	10.00	0.00
12,200.00	13.37	180.01	12,149.58	96.42	-806.82	-31.52	10.00	10.00	0.00
12,250.00	18.37	180.01	12,197.66	82.74	-806.82	-17.90	10.00	10.00	0.00
12,300.00	23.37	180.01	12,244.36	64.93	-806.82	-0.14	10.00	10.00	0.00
12,350.00	28.37	180.01	12,289.33	43.12	-806.83	21.60	10.00	10.00	0.00
12,400.00	33.37	180.01	12,332.24	17.47	-806.83	47.17	10.00	10.00	0.00
12,411.77	34.55	180.01	12,342.00	10.90	-806.83	53.72	10.00	10.00	0.00



Database:	RyanUSA_Compass	Local Co-ordinate Reference:	Well Fed 94Y
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Site:	SeaWolf 1-12	North Reference:	Grid
Well:	Fed 94Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PN1		

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)
Wolfcamp									
12,445.25	37.90	180.01	12,369.00	-8.88	-806.84	73.44	10.00	10.00	0.00
Wolfcamp X									
12,450.00	38.37	180.01	12,372.74	-11.82	-806.84	76.37	10.00	10.00	0.00
12,500.00	43.37	180.01	12,410.53	-44.53	-806.84	108.97	10.00	10.00	0.00
12,550.00	48.37	180.01	12,445.33	-80.41	-806.85	144.74	10.00	10.00	0.00
12,580.54	51.43	180.01	12,465.00	-103.76	-806.86	168.02	10.00	10.00	0.00
Wolfcamp Y									
12,600.00	53.37	180.01	12,476.88	-119.18	-806.86	183.39	10.00	10.00	0.00
12,650.00	58.37	180.01	12,504.92	-160.56	-806.87	224.63	10.00	10.00	0.00
12,692.85	62.66	180.01	12,526.00	-197.85	-806.87	261.80	10.00	10.00	0.00
Wolfcamp 100									
12,700.00	63.37	180.01	12,529.25	-204.22	-806.87	268.16	10.00	10.00	0.00
12,750.00	68.37	180.01	12,549.68	-249.84	-806.88	313.63	10.00	10.00	0.00
12,766.26	70.00	180.01	12,555.45	-265.04	-806.89	328.78	10.00	10.00	0.00
70									
12,800.00	73.37	180.01	12,566.05	-297.07	-806.89	360.70	10.00	10.00	0.00
12,850.00	78.37	180.01	12,578.25	-345.54	-806.90	409.02	10.00	10.00	0.00
12,900.00	83.37	180.01	12,586.18	-394.89	-806.91	458.21	10.00	10.00	0.00
12,950.00	88.37	180.01	12,589.78	-444.75	-806.92	507.91	10.00	10.00	0.00
12,962.56	89.63	180.01	12,590.00	-457.31	-806.92	520.43	10.00	10.00	0.00
12,963.54	89.63	180.01	12,590.00	-458.28	-806.92	521.40	0.00	0.00	0.00
Fed_94H_EOC									
13,000.00	89.63	180.01	12,590.24	-494.74	-806.93	557.75	0.00	0.00	0.00
13,100.00	89.63	180.01	12,590.88	-594.74	-806.95	657.43	0.00	0.00	0.00
13,200.00	89.63	180.01	12,591.53	-694.74	-806.97	757.10	0.00	0.00	0.00
13,300.00	89.63	180.01	12,592.17	-794.74	-806.99	856.78	0.00	0.00	0.00
13,400.00	89.63	180.01	12,592.82	-894.73	-807.01	956.46	0.00	0.00	0.00
13,500.00	89.63	180.01	12,593.46	-994.73	-807.03	1,056.14	0.00	0.00	0.00
13,600.00	89.63	180.01	12,594.11	-1,094.73	-807.05	1,155.82	0.00	0.00	0.00
13,700.00	89.63	180.01	12,594.75	-1,194.73	-807.06	1,255.50	0.00	0.00	0.00
13,800.00	89.63	180.01	12,595.40	-1,294.73	-807.08	1,355.18	0.00	0.00	0.00
13,900.00	89.63	180.01	12,596.04	-1,394.72	-807.10	1,454.85	0.00	0.00	0.00
14,000.00	89.63	180.01	12,596.69	-1,494.72	-807.12	1,554.53	0.00	0.00	0.00
14,100.00	89.63	180.01	12,597.33	-1,594.72	-807.14	1,654.21	0.00	0.00	0.00
14,200.00	89.63	180.01	12,597.98	-1,694.72	-807.16	1,753.89	0.00	0.00	0.00
14,203.65	89.63	180.01	12,598.00	-1,698.37	-807.16	1,757.53	0.00	0.00	0.00
Wolfcamp 110									
14,300.00	89.63	180.01	12,598.62	-1,794.72	-807.18	1,853.57	0.00	0.00	0.00
14,400.00	89.63	180.01	12,599.27	-1,894.71	-807.20	1,953.25	0.00	0.00	0.00
14,500.00	89.63	180.01	12,599.91	-1,994.71	-807.22	2,052.93	0.00	0.00	0.00
14,600.00	89.63	180.01	12,600.56	-2,094.71	-807.24	2,152.60	0.00	0.00	0.00
14,700.00	89.63	180.01	12,601.20	-2,194.71	-807.26	2,252.28	0.00	0.00	0.00
14,800.00	89.63	180.01	12,601.85	-2,294.71	-807.28	2,351.96	0.00	0.00	0.00
14,900.00	89.63	180.01	12,602.49	-2,394.70	-807.30	2,451.64	0.00	0.00	0.00
15,000.00	89.63	180.01	12,603.14	-2,494.70	-807.31	2,551.32	0.00	0.00	0.00
15,100.00	89.63	180.01	12,603.78	-2,594.70	-807.33	2,651.00	0.00	0.00	0.00
15,200.00	89.63	180.01	12,604.43	-2,694.70	-807.35	2,750.68	0.00	0.00	0.00
15,300.00	89.63	180.01	12,605.07	-2,794.69	-807.37	2,850.35	0.00	0.00	0.00
15,400.00	89.63	180.01	12,605.72	-2,894.69	-807.39	2,950.03	0.00	0.00	0.00
15,500.00	89.63	180.01	12,606.36	-2,994.69	-807.41	3,049.71	0.00	0.00	0.00



Database:	RyanUSA_Compass	Local Co-ordinate Reference:	Well Fed 94Y
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Site:	SeaWolf 1-12	North Reference:	Grid
Well:	Fed 94Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PN1		

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)
15,600.00	89.63	180.01	12,607.01	-3,094.69	-807.43	3,149.39	0.00	0.00	0.00
15,700.00	89.63	180.01	12,607.65	-3,194.69	-807.45	3,249.07	0.00	0.00	0.00
15,800.00	89.63	180.01	12,608.30	-3,294.68	-807.47	3,348.75	0.00	0.00	0.00
15,900.00	89.63	180.01	12,608.94	-3,394.68	-807.49	3,448.43	0.00	0.00	0.00
16,000.00	89.63	180.01	12,609.59	-3,494.68	-807.51	3,548.10	0.00	0.00	0.00
16,100.00	89.63	180.01	12,610.23	-3,594.68	-807.53	3,647.78	0.00	0.00	0.00
16,200.00	89.63	180.01	12,610.88	-3,694.68	-807.55	3,747.46	0.00	0.00	0.00
16,300.00	89.63	180.01	12,611.52	-3,794.67	-807.56	3,847.14	0.00	0.00	0.00
16,400.00	89.63	180.01	12,612.17	-3,894.67	-807.58	3,946.82	0.00	0.00	0.00
16,500.00	89.63	180.01	12,612.81	-3,994.67	-807.60	4,046.50	0.00	0.00	0.00
16,600.00	89.63	180.01	12,613.45	-4,094.67	-807.62	4,146.18	0.00	0.00	0.00
16,700.00	89.63	180.01	12,614.10	-4,194.67	-807.64	4,245.85	0.00	0.00	0.00
16,800.00	89.63	180.01	12,614.74	-4,294.66	-807.66	4,345.53	0.00	0.00	0.00
16,900.00	89.63	180.01	12,615.39	-4,394.66	-807.68	4,445.21	0.00	0.00	0.00
17,000.00	89.63	180.01	12,616.03	-4,494.66	-807.70	4,544.89	0.00	0.00	0.00
17,100.00	89.63	180.01	12,616.68	-4,594.66	-807.72	4,644.57	0.00	0.00	0.00
17,200.00	89.63	180.01	12,617.32	-4,694.66	-807.74	4,744.25	0.00	0.00	0.00
17,300.00	89.63	180.01	12,617.97	-4,794.65	-807.76	4,843.93	0.00	0.00	0.00
17,400.00	89.63	180.01	12,618.61	-4,894.65	-807.78	4,943.60	0.00	0.00	0.00
17,500.00	89.63	180.01	12,619.26	-4,994.65	-807.80	5,043.28	0.00	0.00	0.00
17,600.00	89.63	180.01	12,619.90	-5,094.65	-807.81	5,142.96	0.00	0.00	0.00
17,700.00	89.63	180.01	12,620.55	-5,194.64	-807.83	5,242.64	0.00	0.00	0.00
17,800.00	89.63	180.01	12,621.19	-5,294.64	-807.85	5,342.32	0.00	0.00	0.00
17,900.00	89.63	180.01	12,621.84	-5,394.64	-807.87	5,442.00	0.00	0.00	0.00
18,000.00	89.63	180.01	12,622.48	-5,494.64	-807.89	5,541.68	0.00	0.00	0.00
18,100.00	89.63	180.01	12,623.13	-5,594.64	-807.91	5,641.35	0.00	0.00	0.00
18,200.00	89.63	180.01	12,623.77	-5,694.63	-807.93	5,741.03	0.00	0.00	0.00
18,300.00	89.63	180.01	12,624.42	-5,794.63	-807.95	5,840.71	0.00	0.00	0.00
18,400.00	89.63	180.01	12,625.06	-5,894.63	-807.97	5,940.39	0.00	0.00	0.00
18,500.00	89.63	180.01	12,625.71	-5,994.63	-807.99	6,040.07	0.00	0.00	0.00
18,600.00	89.63	180.01	12,626.35	-6,094.63	-808.01	6,139.75	0.00	0.00	0.00
18,700.00	89.63	180.01	12,627.00	-6,194.62	-808.03	6,239.43	0.00	0.00	0.00
18,800.00	89.63	180.01	12,627.64	-6,294.62	-808.05	6,339.10	0.00	0.00	0.00
18,900.00	89.63	180.01	12,628.29	-6,394.62	-808.06	6,438.78	0.00	0.00	0.00
19,000.00	89.63	180.01	12,628.93	-6,494.62	-808.08	6,538.46	0.00	0.00	0.00
19,100.00	89.63	180.01	12,629.58	-6,594.62	-808.10	6,638.14	0.00	0.00	0.00
19,200.00	89.63	180.01	12,630.22	-6,694.61	-808.12	6,737.82	0.00	0.00	0.00
19,300.00	89.63	180.01	12,630.87	-6,794.61	-808.14	6,837.50	0.00	0.00	0.00
19,400.00	89.63	180.01	12,631.51	-6,894.61	-808.16	6,937.18	0.00	0.00	0.00
19,500.00	89.63	180.01	12,632.16	-6,994.61	-808.18	7,036.85	0.00	0.00	0.00
19,600.00	89.63	180.01	12,632.80	-7,094.61	-808.20	7,136.53	0.00	0.00	0.00
19,700.00	89.63	180.01	12,633.45	-7,194.60	-808.22	7,236.21	0.00	0.00	0.00
19,800.00	89.63	180.01	12,634.09	-7,294.60	-808.24	7,335.89	0.00	0.00	0.00
19,900.00	89.63	180.01	12,634.74	-7,394.60	-808.26	7,435.57	0.00	0.00	0.00
20,000.00	89.63	180.01	12,635.38	-7,494.60	-808.28	7,535.25	0.00	0.00	0.00
20,100.00	89.63	180.01	12,636.03	-7,594.59	-808.30	7,634.93	0.00	0.00	0.00
20,200.00	89.63	180.01	12,636.67	-7,694.59	-808.31	7,734.60	0.00	0.00	0.00
20,300.00	89.63	180.01	12,637.32	-7,794.59	-808.33	7,834.28	0.00	0.00	0.00
20,400.00	89.63	180.01	12,637.96	-7,894.59	-808.35	7,933.96	0.00	0.00	0.00
20,500.00	89.63	180.01	12,638.61	-7,994.59	-808.37	8,033.64	0.00	0.00	0.00
20,600.00	89.63	180.01	12,639.25	-8,094.58	-808.39	8,133.32	0.00	0.00	0.00
20,700.00	89.63	180.01	12,639.90	-8,194.58	-808.41	8,233.00	0.00	0.00	0.00

Database: RyanUSA_Compass
Company: Devon Energy Corporation

Project: Lea Co., NM

Site: SeaWolf 1-12
Well: Fed 94Y
Wellbore: OH
Design: PN1

Local Co-ordinate Reference: Well Fed 94Y
TVD Reference: KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
MD Reference: KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
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)
20,800.00	89.63	180.01	12,640.54	-8,294.58	-808.43	8,332.68	0.00	0.00	0.00
20,900.00	89.63	180.01	12,641.19	-8,394.58	-808.45	8,432.35	0.00	0.00	0.00
21,000.00	89.63	180.01	12,641.83	-8,494.58	-808.47	8,532.03	0.00	0.00	0.00
21,100.00	89.63	180.01	12,642.48	-8,594.57	-808.49	8,631.71	0.00	0.00	0.00
21,200.00	89.63	180.01	12,643.12	-8,694.57	-808.51	8,731.39	0.00	0.00	0.00
21,300.00	89.63	180.01	12,643.77	-8,794.57	-808.53	8,831.07	0.00	0.00	0.00
21,400.00	89.63	180.01	12,644.41	-8,894.57	-808.55	8,930.75	0.00	0.00	0.00
21,500.00	89.63	180.01	12,645.06	-8,994.57	-808.56	9,030.43	0.00	0.00	0.00
21,600.00	89.63	180.01	12,645.70	-9,094.56	-808.58	9,130.10	0.00	0.00	0.00
21,700.00	89.63	180.01	12,646.35	-9,194.56	-808.60	9,229.78	0.00	0.00	0.00
21,800.00	89.63	180.01	12,646.99	-9,294.56	-808.62	9,329.46	0.00	0.00	0.00
21,900.00	89.63	180.01	12,647.64	-9,394.56	-808.64	9,429.14	0.00	0.00	0.00
22,000.00	89.63	180.01	12,648.28	-9,494.56	-808.66	9,528.82	0.00	0.00	0.00
22,100.00	89.63	180.01	12,648.93	-9,594.55	-808.68	9,628.50	0.00	0.00	0.00
22,200.00	89.63	180.01	12,649.57	-9,694.55	-808.70	9,728.18	0.00	0.00	0.00
22,300.00	89.63	180.01	12,650.22	-9,794.55	-808.72	9,827.85	0.00	0.00	0.00
22,400.00	89.63	180.01	12,650.86	-9,894.55	-808.74	9,927.53	0.00	0.00	0.00
22,500.00	89.63	180.01	12,651.51	-9,994.55	-808.76	10,027.21	0.00	0.00	0.00
22,576.69	89.63	180.01	12,652.00	-10,071.23	-808.77	10,103.65	0.00	0.00	0.00

Fed_94H_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_94H_EOC - plan misses target center by 1.85ft at 12963.54ft MD (12590.00 TVD, -458.28 N, -806.92 E) - Point	0.00	0.00	12,590.00	-458.28	-808.77	393,066.911	792,415.562	32° 4' 40.89882 N	103° 31' 21.71116 W
Fed_94H_BHL - plan hits target center - Point	0.00	0.00	12,652.00	-10,071.23	-808.77	383,453.980	792,415.560	32° 3' 5.77578 N	103° 31' 22.55014 W



Database:	RyanUSA_Compass	Local Co-ordinate Reference:	Well Fed 94Y
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3357.50ft (Nabors X04)
Site:	SeaWolf 1-12	North Reference:	Grid
Well:	Fed 94Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PN1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
746.00	746.00	Rustler			
1,094.00	1,094.00	Top of Salt			
4,831.52	4,817.00	Base of Salt			
5,075.44	5,059.00	Delaware			
9,160.24	9,112.00	Lower Brushy Canyon			
9,340.90	9,292.00	1st BSPG Lime			
10,279.21	10,230.00	1st BSPG Sand			
10,554.21	10,505.00	2nd BSPG Lime			
10,827.21	10,778.00	2nd BSPG Sand			
11,321.21	11,272.00	3rd BSPG Lime			
11,905.21	11,856.00	3rd BSPG Sand			
12,411.77	12,342.00	Wolfcamp			
12,445.25	12,369.00	Wolfcamp X			
12,580.54	12,465.00	Wolfcamp Y			
12,692.85	12,526.00	Wolfcamp 100			
14,203.65	12,598.00	Wolfcamp 110			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,766.26	12,555.45	-265.04	-806.89	70