



WELL DETAILS: 8 Fed 3H

Ground Elevation: 3446.90
RKB Elevation: KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Rig Name: Nabors X04

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 414851.320 769983.930 32° 8' 18.05816 N 103° 35' 40.68020 W

Project: Lea Co., NM
Site: Flagler
Well: 8 Fed 3H
Wellbore: OH
Plan: PN1 (8 Fed 3H/OH)



SECTION DETAILS

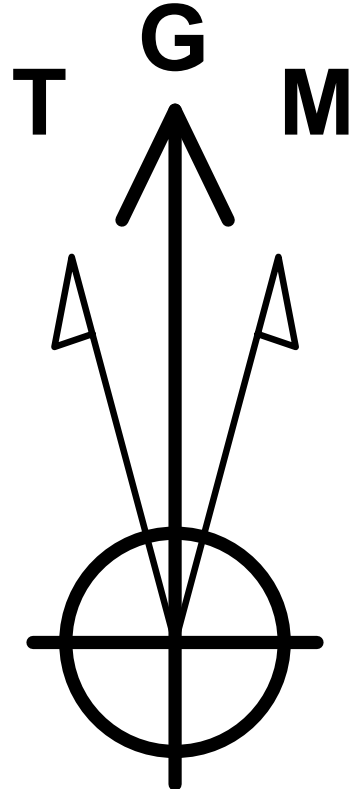
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00
5312.40	4.69	244.19	5312.05	-5.56	-11.49	1.50	244.19	-5.56
8699.62	4.69	244.19	8687.95	-126.04	-260.61	0.00	0.00	-126.04
9012.02	0.00	0.00	9000.00	-131.60	-272.10	1.50	180.00	-131.60
11889.06	0.00	0.00	11877.04	-131.60	-272.10	0.00	0.00	-131.60
12789.06	90.00	360.00	12450.00	441.36	-272.10	10.00	360.00	441.36
17115.32	90.00	360.00	12450.00	4767.62	-272.10	0.00	0.00	4767.62

Fed 3H_KOP

Fed 3H_BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Fed 3H_BHL	12450.00	4767.62	-272.10	419618.930	769711.830
Fed 3H_KOP	11877.04	-131.60	-272.10	414719.720	769711.831

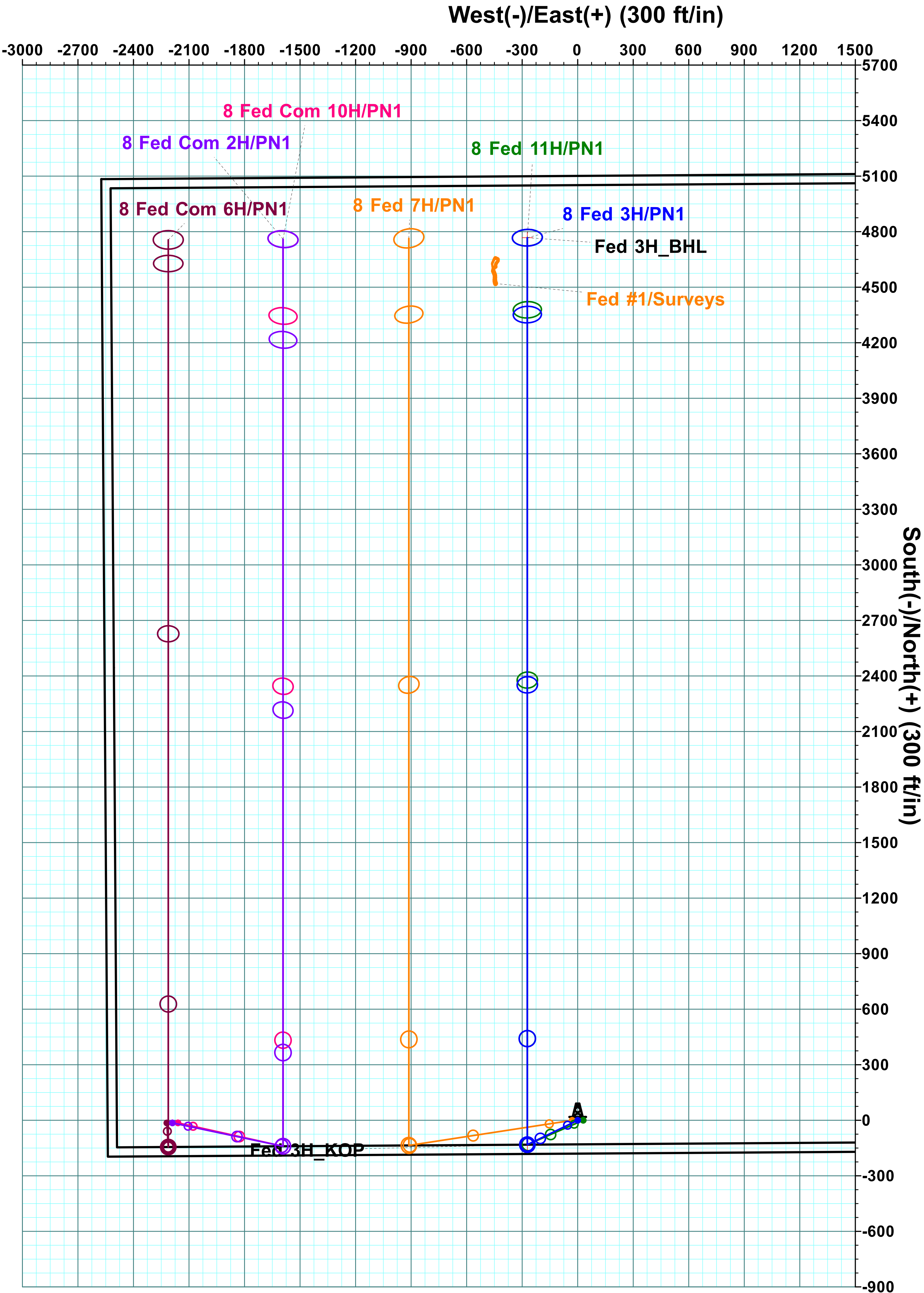
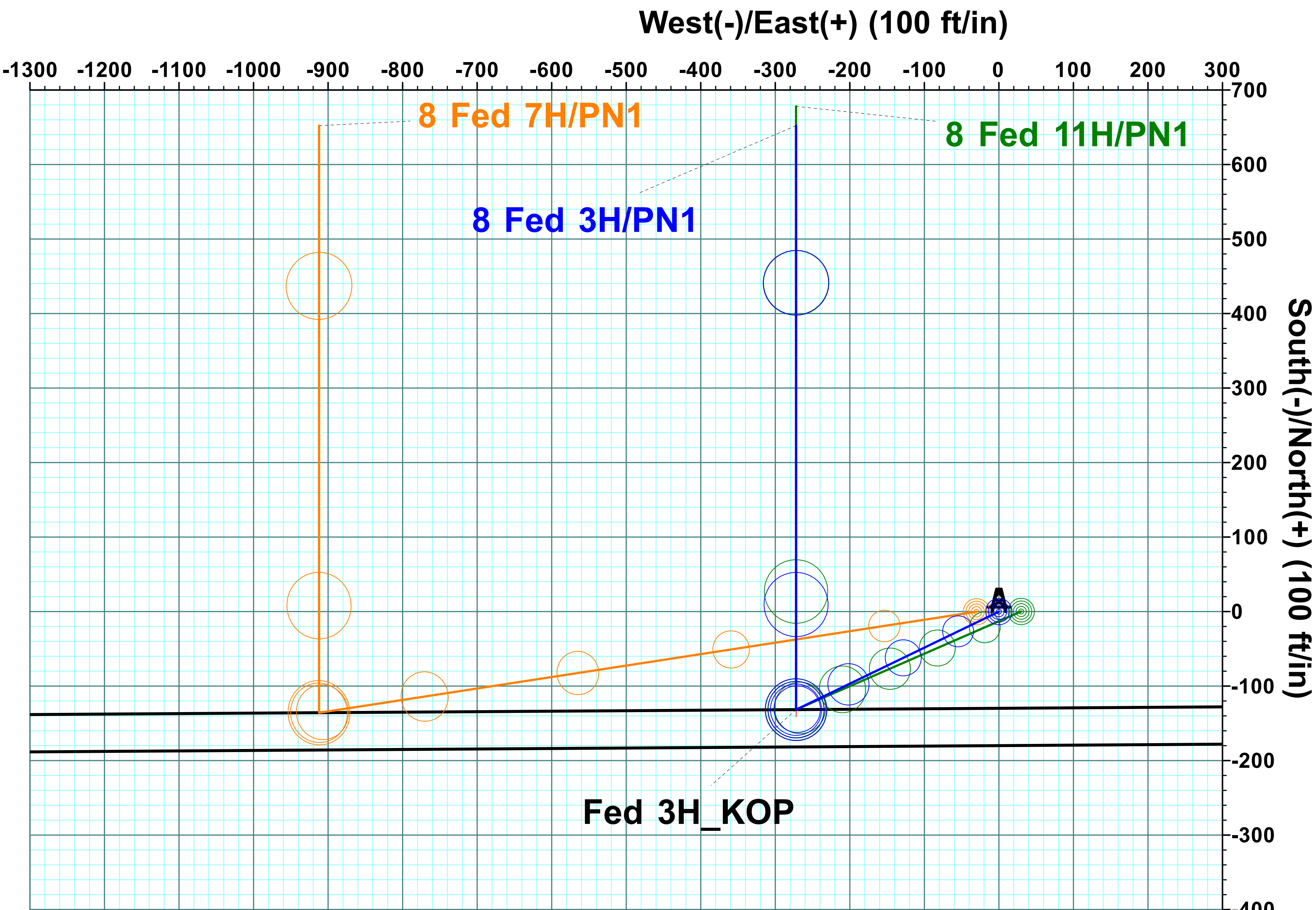
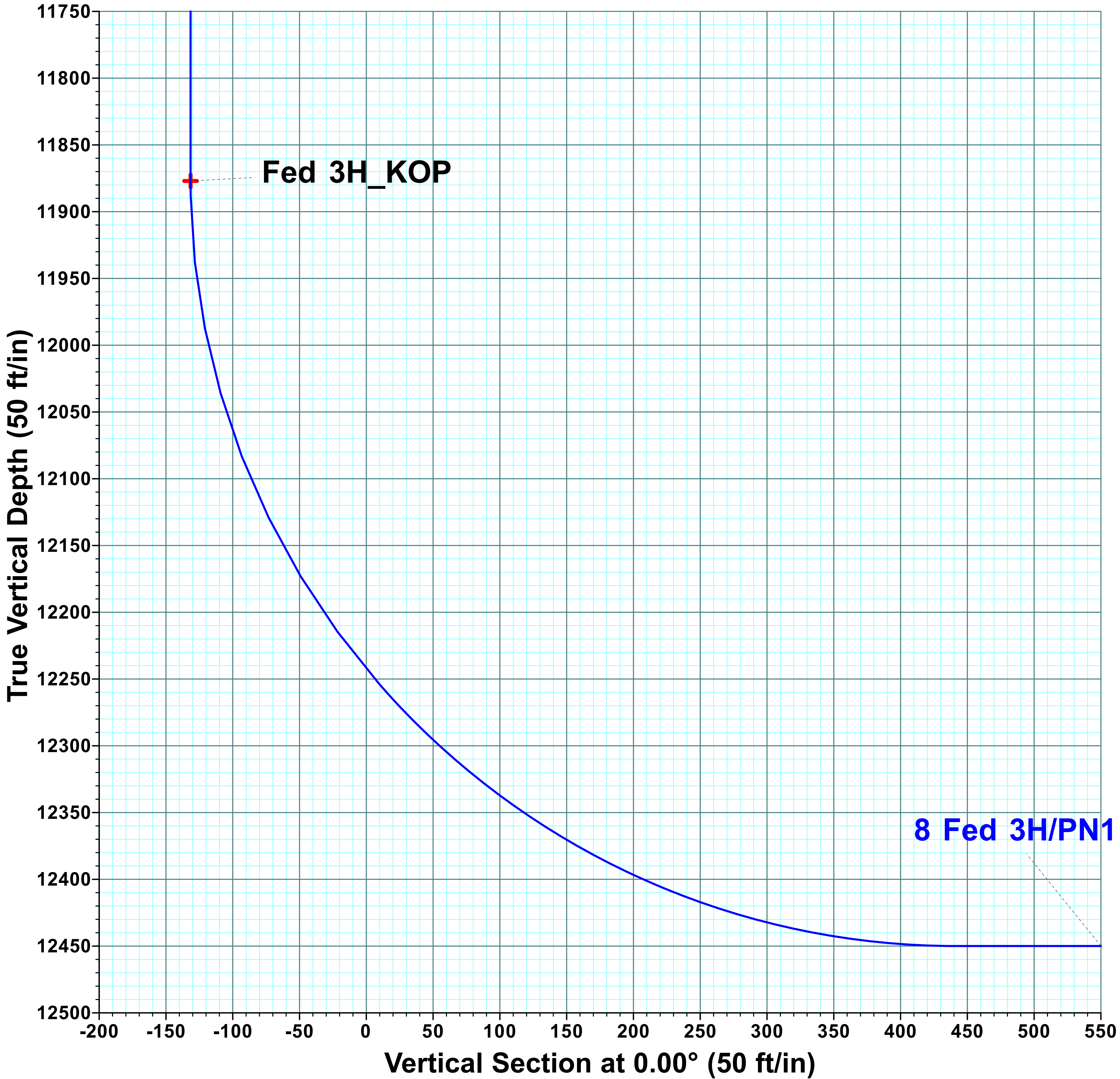
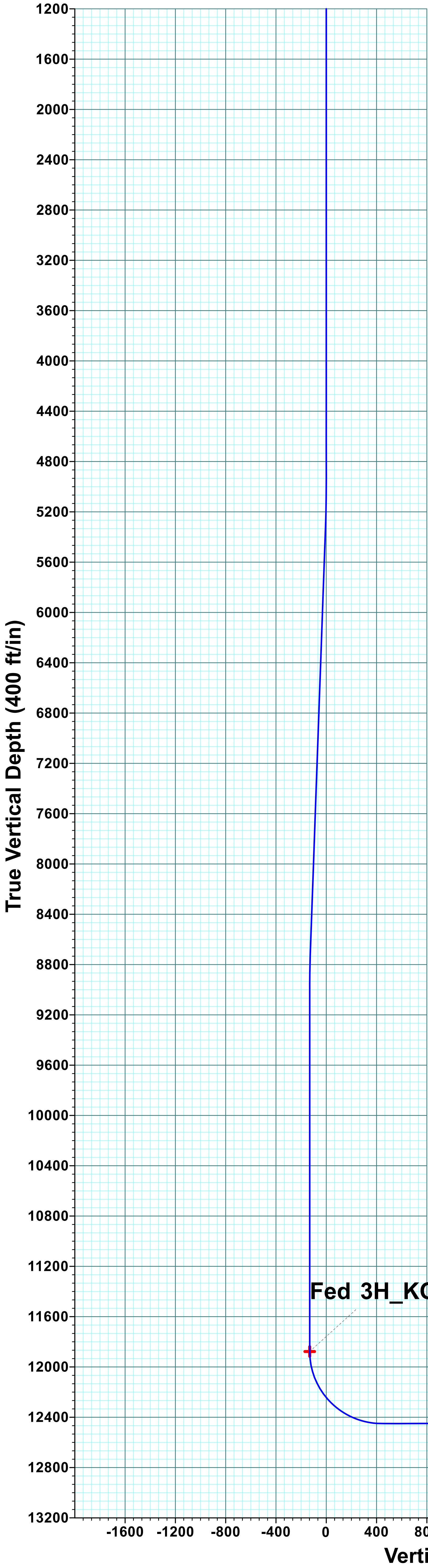


Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.36°

Magnetic Field
Strength: 47940.2snT
Dip Angle: 59.85°
Date: 2/12/2018
Model: HDGM

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



FORMATION TOP DETAILS
No formation data is available



Devon Energy Corporation

Lea Co., NM

Flagler

8 Fed 3H

OH

Plan: PN1

Standard Planning Report

12 February, 2018





Database:	RyanUSA_ODBC_32Bit	Local Co-ordinate Reference:	Well 8 Fed 3H
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Site:	Flagler	North Reference:	Grid
Well:	8 Fed 3H	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	Flagler			
Site Position:		Northing:	414,837.260 usft	Latitude: 32° 8' 18.06694 N
From:	Map	Easting:	767,794.190 usft	Longitude: 103° 36' 6.14775 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.39 °

Well	8 Fed 3H			
Well Position	+N/-S	14.06 ft	Northing:	414,851.320 usft
	+E/-W	2,189.74 ft	Easting:	769,983.930 usft
Position Uncertainty	0.00 ft		Wellhead Elevation:	
			Ground Level:	3,446.90 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/12/2018	6.75	59.85	47,940.20000000

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

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,312.40	4.69	244.19	5,312.05	-5.56	-11.49	1.50	1.50	0.00	244.19	
8,699.62	4.69	244.19	8,687.95	-126.04	-260.61	0.00	0.00	0.00	0.00	
9,012.02	0.00	0.00	9,000.00	-131.60	-272.10	1.50	-1.50	0.00	180.00	
11,889.06	0.00	0.00	11,877.04	-131.60	-272.10	0.00	0.00	0.00	0.00	0.00 Fed 3H_KOP
12,789.06	90.00	360.00	12,450.00	441.36	-272.10	10.00	10.00	0.00	360.00	
17,115.32	90.00	360.00	12,450.00	4,767.62	-272.10	0.00	0.00	0.00	0.00	0.00 Fed 3H_BHL



Database:	RyanUSA_ODBC_32Bit	Local Co-ordinate Reference:	Well 8 Fed 3H
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Site:	Flagler	North Reference:	Grid
Well:	8 Fed 3H	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
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
1,100.00	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	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	1.50	244.19	5,099.99	-0.57	-1.18	-0.57	1.50	1.50	0.00



Database:	RyanUSA_ODBC_32Bit	Local Co-ordinate Reference:	Well 8 Fed 3H
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Site:	Flagler	North Reference:	Grid
Well:	8 Fed 3H	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)
5,200.00	3.00	244.19	5,199.91	-2.28	-4.71	-2.28	1.50	1.50	0.00
5,300.00	4.50	244.19	5,299.69	-5.13	-10.60	-5.13	1.50	1.50	0.00
5,312.40	4.69	244.19	5,312.05	-5.56	-11.49	-5.56	1.50	1.50	0.00
5,400.00	4.69	244.19	5,399.36	-8.67	-17.94	-8.67	0.00	0.00	0.00
5,500.00	4.69	244.19	5,499.02	-12.23	-25.29	-12.23	0.00	0.00	0.00
5,600.00	4.69	244.19	5,598.69	-15.79	-32.65	-15.79	0.00	0.00	0.00
5,700.00	4.69	244.19	5,698.36	-19.35	-40.00	-19.35	0.00	0.00	0.00
5,800.00	4.69	244.19	5,798.02	-22.90	-47.35	-22.90	0.00	0.00	0.00
5,900.00	4.69	244.19	5,897.69	-26.46	-54.71	-26.46	0.00	0.00	0.00
6,000.00	4.69	244.19	5,997.35	-30.02	-62.06	-30.02	0.00	0.00	0.00
6,100.00	4.69	244.19	6,097.02	-33.57	-69.42	-33.57	0.00	0.00	0.00
6,200.00	4.69	244.19	6,196.69	-37.13	-76.77	-37.13	0.00	0.00	0.00
6,300.00	4.69	244.19	6,296.35	-40.69	-84.13	-40.69	0.00	0.00	0.00
6,400.00	4.69	244.19	6,396.02	-44.24	-91.48	-44.24	0.00	0.00	0.00
6,500.00	4.69	244.19	6,495.68	-47.80	-98.84	-47.80	0.00	0.00	0.00
6,600.00	4.69	244.19	6,595.35	-51.36	-106.19	-51.36	0.00	0.00	0.00
6,700.00	4.69	244.19	6,695.01	-54.92	-113.54	-54.92	0.00	0.00	0.00
6,800.00	4.69	244.19	6,794.68	-58.47	-120.90	-58.47	0.00	0.00	0.00
6,900.00	4.69	244.19	6,894.35	-62.03	-128.25	-62.03	0.00	0.00	0.00
7,000.00	4.69	244.19	6,994.01	-65.59	-135.61	-65.59	0.00	0.00	0.00
7,100.00	4.69	244.19	7,093.68	-69.14	-142.96	-69.14	0.00	0.00	0.00
7,200.00	4.69	244.19	7,193.34	-72.70	-150.32	-72.70	0.00	0.00	0.00
7,300.00	4.69	244.19	7,293.01	-76.26	-157.67	-76.26	0.00	0.00	0.00
7,400.00	4.69	244.19	7,392.67	-79.81	-165.03	-79.81	0.00	0.00	0.00
7,500.00	4.69	244.19	7,492.34	-83.37	-172.38	-83.37	0.00	0.00	0.00
7,600.00	4.69	244.19	7,592.01	-86.93	-179.73	-86.93	0.00	0.00	0.00
7,700.00	4.69	244.19	7,691.67	-90.48	-187.09	-90.48	0.00	0.00	0.00
7,800.00	4.69	244.19	7,791.34	-94.04	-194.44	-94.04	0.00	0.00	0.00
7,900.00	4.69	244.19	7,891.00	-97.60	-201.80	-97.60	0.00	0.00	0.00
8,000.00	4.69	244.19	7,990.67	-101.16	-209.15	-101.16	0.00	0.00	0.00
8,100.00	4.69	244.19	8,090.33	-104.71	-216.51	-104.71	0.00	0.00	0.00
8,200.00	4.69	244.19	8,190.00	-108.27	-223.86	-108.27	0.00	0.00	0.00
8,300.00	4.69	244.19	8,289.67	-111.83	-231.22	-111.83	0.00	0.00	0.00
8,400.00	4.69	244.19	8,389.33	-115.38	-238.57	-115.38	0.00	0.00	0.00
8,500.00	4.69	244.19	8,489.00	-118.94	-245.93	-118.94	0.00	0.00	0.00
8,600.00	4.69	244.19	8,588.66	-122.50	-253.28	-122.50	0.00	0.00	0.00
8,699.62	4.69	244.19	8,687.95	-126.04	-260.61	-126.04	0.00	0.00	0.00
8,800.00	3.18	244.19	8,788.09	-129.04	-266.80	-129.04	1.50	-1.50	0.00
8,900.00	1.68	244.19	8,888.00	-130.88	-270.62	-130.88	1.50	-1.50	0.00
9,000.00	0.18	244.19	8,987.98	-131.59	-272.08	-131.59	1.50	-1.50	0.00
9,012.02	0.00	0.00	9,000.00	-131.60	-272.10	-131.60	1.50	-1.50	0.00
9,100.00	0.00	0.00	9,087.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,200.00	0.00	0.00	9,187.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,300.00	0.00	0.00	9,287.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,400.00	0.00	0.00	9,387.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,500.00	0.00	0.00	9,487.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,600.00	0.00	0.00	9,587.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,700.00	0.00	0.00	9,687.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,800.00	0.00	0.00	9,787.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
9,900.00	0.00	0.00	9,887.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,000.00	0.00	0.00	9,987.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,100.00	0.00	0.00	10,087.98	-131.60	-272.10	-131.60	0.00	0.00	0.00



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Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Site:	Flagler	North Reference:	Grid
Well:	8 Fed 3H	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)
10,200.00	0.00	0.00	10,187.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,300.00	0.00	0.00	10,287.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,400.00	0.00	0.00	10,387.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,500.00	0.00	0.00	10,487.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,600.00	0.00	0.00	10,587.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,700.00	0.00	0.00	10,687.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,800.00	0.00	0.00	10,787.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
10,900.00	0.00	0.00	10,887.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,000.00	0.00	0.00	10,987.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,100.00	0.00	0.00	11,087.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,200.00	0.00	0.00	11,187.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,300.00	0.00	0.00	11,287.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,400.00	0.00	0.00	11,387.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,500.00	0.00	0.00	11,487.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,600.00	0.00	0.00	11,587.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,700.00	0.00	0.00	11,687.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,800.00	0.00	0.00	11,787.98	-131.60	-272.10	-131.60	0.00	0.00	0.00
11,889.06	0.00	0.00	11,877.04	-131.60	-272.10	-131.60	0.00	0.00	0.00
Fed 3H_KOP									
11,900.00	1.09	360.00	11,887.98	-131.50	-272.10	-131.50	10.00	10.00	0.00
11,950.00	6.09	360.00	11,937.87	-128.36	-272.10	-128.36	10.00	10.00	0.00
12,000.00	11.09	360.00	11,987.29	-120.89	-272.10	-120.89	10.00	10.00	0.00
12,050.00	16.09	360.00	12,035.87	-109.14	-272.10	-109.14	10.00	10.00	0.00
12,100.00	21.09	360.00	12,083.25	-93.21	-272.10	-93.21	10.00	10.00	0.00
12,150.00	26.09	360.00	12,129.05	-73.20	-272.10	-73.20	10.00	10.00	0.00
12,200.00	31.09	360.00	12,172.94	-49.28	-272.10	-49.28	10.00	10.00	0.00
12,250.00	36.09	360.00	12,214.58	-21.62	-272.10	-21.62	10.00	10.00	0.00
12,300.00	41.09	360.00	12,253.64	9.56	-272.10	9.56	10.00	10.00	0.00
12,350.00	46.09	360.00	12,289.85	44.03	-272.10	44.03	10.00	10.00	0.00
12,400.00	51.09	360.00	12,322.90	81.52	-272.10	81.52	10.00	10.00	0.00
12,450.00	56.09	360.00	12,352.57	121.74	-272.10	121.74	10.00	10.00	0.00
12,500.00	61.09	360.00	12,378.62	164.41	-272.10	164.41	10.00	10.00	0.00
12,550.00	66.09	360.00	12,400.85	209.18	-272.10	209.18	10.00	10.00	0.00
12,600.00	71.09	360.00	12,419.09	255.71	-272.10	255.71	10.00	10.00	0.00
12,650.00	76.09	360.00	12,433.21	303.66	-272.10	303.66	10.00	10.00	0.00
12,700.00	81.09	360.00	12,443.09	352.66	-272.10	352.66	10.00	10.00	0.00
12,750.00	86.09	360.00	12,448.67	402.33	-272.10	402.33	10.00	10.00	0.00
12,789.06	90.00	360.00	12,450.00	441.36	-272.10	441.36	10.00	10.00	0.00
12,800.00	90.00	360.00	12,450.00	452.30	-272.10	452.30	0.00	0.00	0.00
12,900.00	90.00	360.00	12,450.00	552.30	-272.10	552.30	0.00	0.00	0.00
13,000.00	90.00	360.00	12,450.00	652.30	-272.10	652.30	0.00	0.00	0.00
13,100.00	90.00	360.00	12,450.00	752.30	-272.10	752.30	0.00	0.00	0.00
13,200.00	90.00	360.00	12,450.00	852.30	-272.10	852.30	0.00	0.00	0.00
13,300.00	90.00	360.00	12,450.00	952.30	-272.10	952.30	0.00	0.00	0.00
13,400.00	90.00	360.00	12,450.00	1,052.30	-272.10	1,052.30	0.00	0.00	0.00
13,500.00	90.00	360.00	12,450.00	1,152.30	-272.10	1,152.30	0.00	0.00	0.00
13,600.00	90.00	360.00	12,450.00	1,252.30	-272.10	1,252.30	0.00	0.00	0.00
13,700.00	90.00	360.00	12,450.00	1,352.30	-272.10	1,352.30	0.00	0.00	0.00
13,800.00	90.00	360.00	12,450.00	1,452.30	-272.10	1,452.30	0.00	0.00	0.00
13,900.00	90.00	360.00	12,450.00	1,552.30	-272.10	1,552.30	0.00	0.00	0.00
14,000.00	90.00	360.00	12,450.00	1,652.30	-272.10	1,652.30	0.00	0.00	0.00
14,100.00	90.00	360.00	12,450.00	1,752.30	-272.10	1,752.30	0.00	0.00	0.00



Database:	RyanUSA_ODBC_32Bit	Local Co-ordinate Reference:	Well 8 Fed 3H
Company:	Devon Energy Corporation	TVD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Project:	Lea Co., NM	MD Reference:	KB=32' (Nabors X04) @ 3478.90ft (Nabors X04)
Site:	Flagler	North Reference:	Grid
Well:	8 Fed 3H	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)
14,200.00	90.00	360.00	12,450.00	1,852.30	-272.10	1,852.30	0.00	0.00	0.00
14,300.00	90.00	360.00	12,450.00	1,952.30	-272.10	1,952.30	0.00	0.00	0.00
14,400.00	90.00	360.00	12,450.00	2,052.30	-272.10	2,052.30	0.00	0.00	0.00
14,500.00	90.00	360.00	12,450.00	2,152.30	-272.10	2,152.30	0.00	0.00	0.00
14,600.00	90.00	360.00	12,450.00	2,252.30	-272.10	2,252.30	0.00	0.00	0.00
14,700.00	90.00	360.00	12,450.00	2,352.30	-272.10	2,352.30	0.00	0.00	0.00
14,800.00	90.00	360.00	12,450.00	2,452.30	-272.10	2,452.30	0.00	0.00	0.00
14,900.00	90.00	360.00	12,450.00	2,552.30	-272.10	2,552.30	0.00	0.00	0.00
15,000.00	90.00	360.00	12,450.00	2,652.30	-272.10	2,652.30	0.00	0.00	0.00
15,100.00	90.00	360.00	12,450.00	2,752.30	-272.10	2,752.30	0.00	0.00	0.00
15,200.00	90.00	360.00	12,450.00	2,852.30	-272.10	2,852.30	0.00	0.00	0.00
15,300.00	90.00	360.00	12,450.00	2,952.30	-272.10	2,952.30	0.00	0.00	0.00
15,400.00	90.00	360.00	12,450.00	3,052.30	-272.10	3,052.30	0.00	0.00	0.00
15,500.00	90.00	360.00	12,450.00	3,152.30	-272.10	3,152.30	0.00	0.00	0.00
15,600.00	90.00	360.00	12,450.00	3,252.30	-272.10	3,252.30	0.00	0.00	0.00
15,700.00	90.00	360.00	12,450.00	3,352.30	-272.10	3,352.30	0.00	0.00	0.00
15,800.00	90.00	360.00	12,450.00	3,452.30	-272.10	3,452.30	0.00	0.00	0.00
15,900.00	90.00	360.00	12,450.00	3,552.30	-272.10	3,552.30	0.00	0.00	0.00
16,000.00	90.00	360.00	12,450.00	3,652.30	-272.10	3,652.30	0.00	0.00	0.00
16,100.00	90.00	360.00	12,450.00	3,752.30	-272.10	3,752.30	0.00	0.00	0.00
16,200.00	90.00	360.00	12,450.00	3,852.30	-272.10	3,852.30	0.00	0.00	0.00
16,300.00	90.00	360.00	12,450.00	3,952.30	-272.10	3,952.30	0.00	0.00	0.00
16,400.00	90.00	360.00	12,450.00	4,052.30	-272.10	4,052.30	0.00	0.00	0.00
16,500.00	90.00	360.00	12,450.00	4,152.30	-272.10	4,152.30	0.00	0.00	0.00
16,600.00	90.00	360.00	12,450.00	4,252.30	-272.10	4,252.30	0.00	0.00	0.00
16,700.00	90.00	360.00	12,450.00	4,352.30	-272.10	4,352.30	0.00	0.00	0.00
16,800.00	90.00	360.00	12,450.00	4,452.30	-272.10	4,452.30	0.00	0.00	0.00
16,900.00	90.00	360.00	12,450.00	4,552.30	-272.10	4,552.30	0.00	0.00	0.00
17,000.00	90.00	360.00	12,450.00	4,652.30	-272.10	4,652.30	0.00	0.00	0.00
17,100.00	90.00	360.00	12,450.00	4,752.30	-272.10	4,752.30	0.00	0.00	0.00
17,115.32	90.00	360.00	12,450.00	4,767.62	-272.10	4,767.62	0.00	0.00	0.00
Fed 3H_BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Fed 3H_KOP	0.00	0.00	11,877.04	-131.60	-272.10	414,719.721	769,711.831	32° 8' 16.77439 N	103° 35' 43.85517 W
- plan hits target center									
- Point									
Fed 3H_BHL	0.00	0.00	12,450.00	4,767.62	-272.10	419,618.930	769,711.830	32° 9' 5.25387 N	103° 35' 43.46472 W
- plan hits target center									
- Point									