

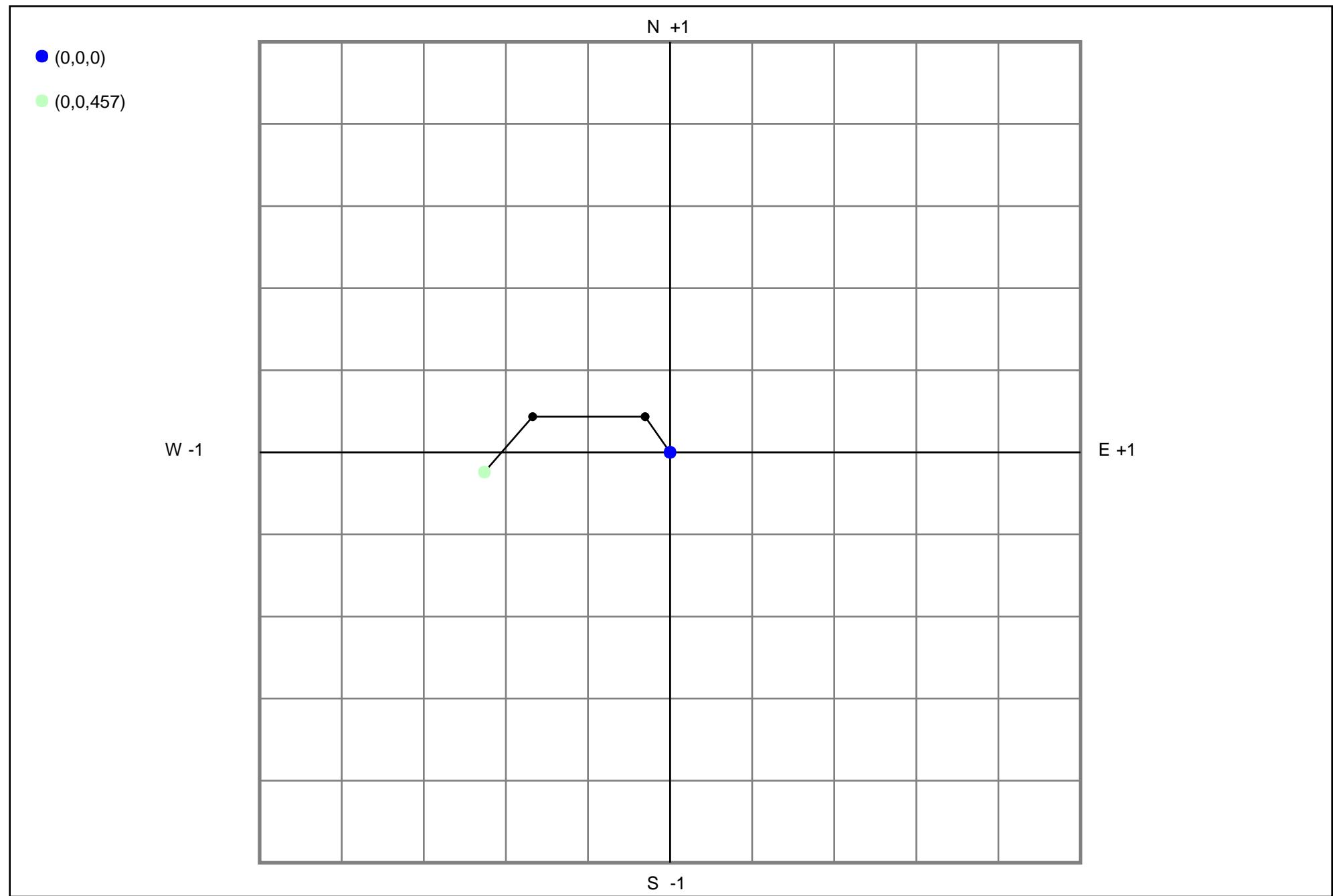


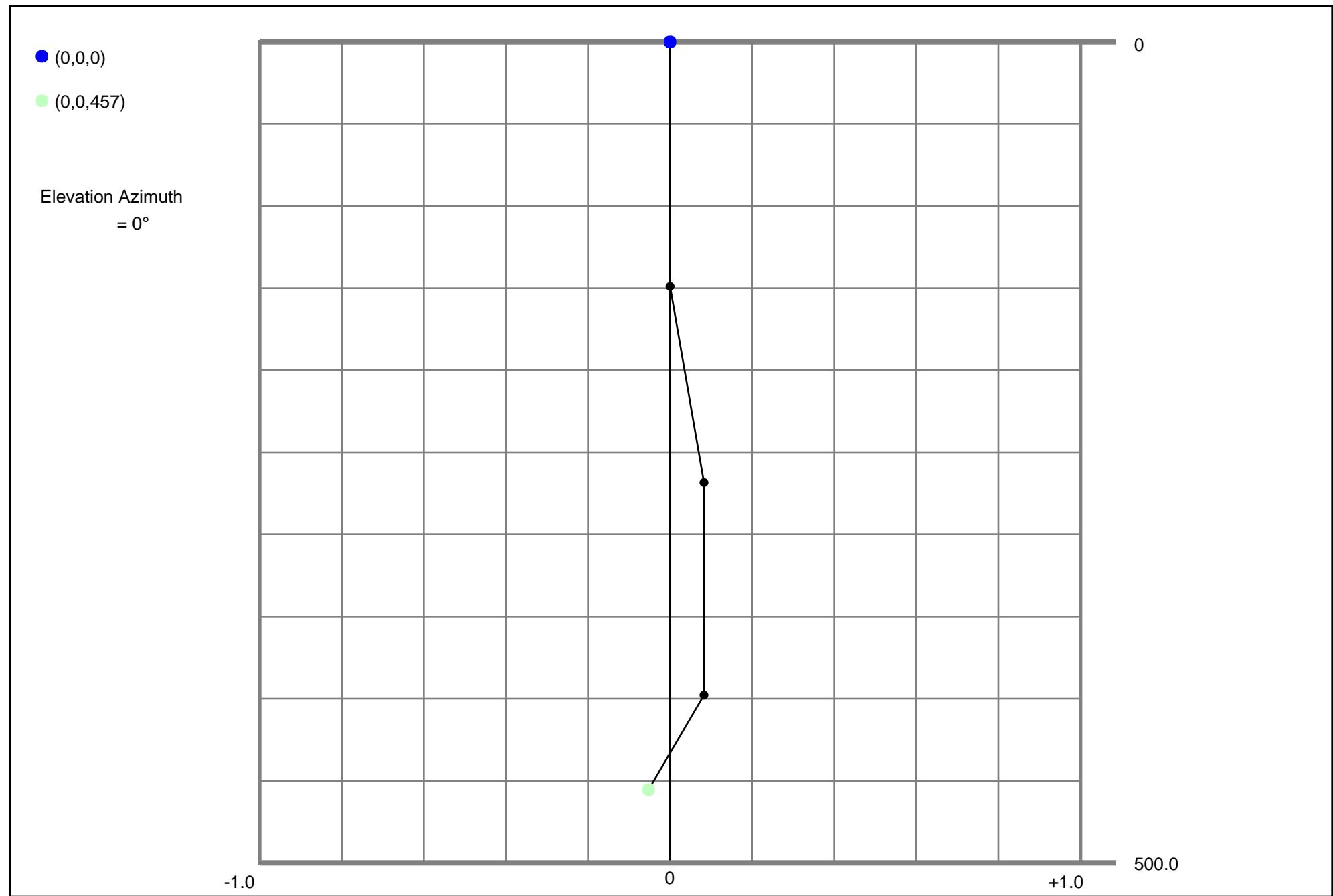
Job:	UL COMANCHE P 29-42 No. 6WA (Job #17975)
Declination:	8.36°, This value was ADDED to the magnetic azimuth values sent by the tool to arrive at the Survey Azimuth values shown below.
Job Notes:	Charger Rig 201 UL COMANCHE P 29-42 No. 6WA Corrected to ground level and grid north
Created On:	24 Apr 2022 at 20:20:40
File Contents:	13 Total Surveys in File. 5 are tagged as Accepted

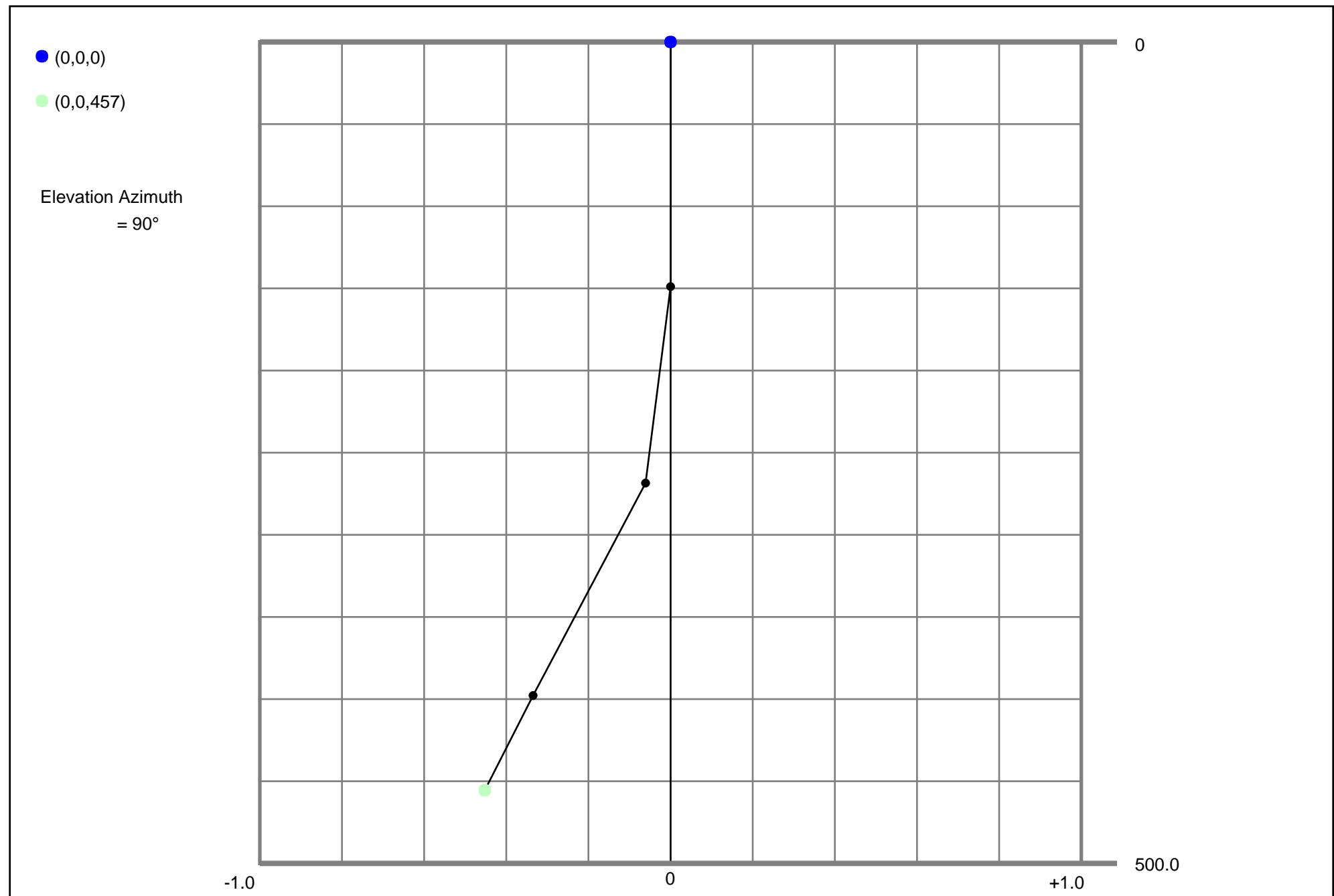
The Vertical Depth and Departure values below were calculated using the Minimum Curvature Model. This information is intended for reference purposes ONLY. It is NOT intended to replace professional oversight or sound judgement. For more detail on the data and algorithms used to compute this information, contact INVICTUS TOOLS.

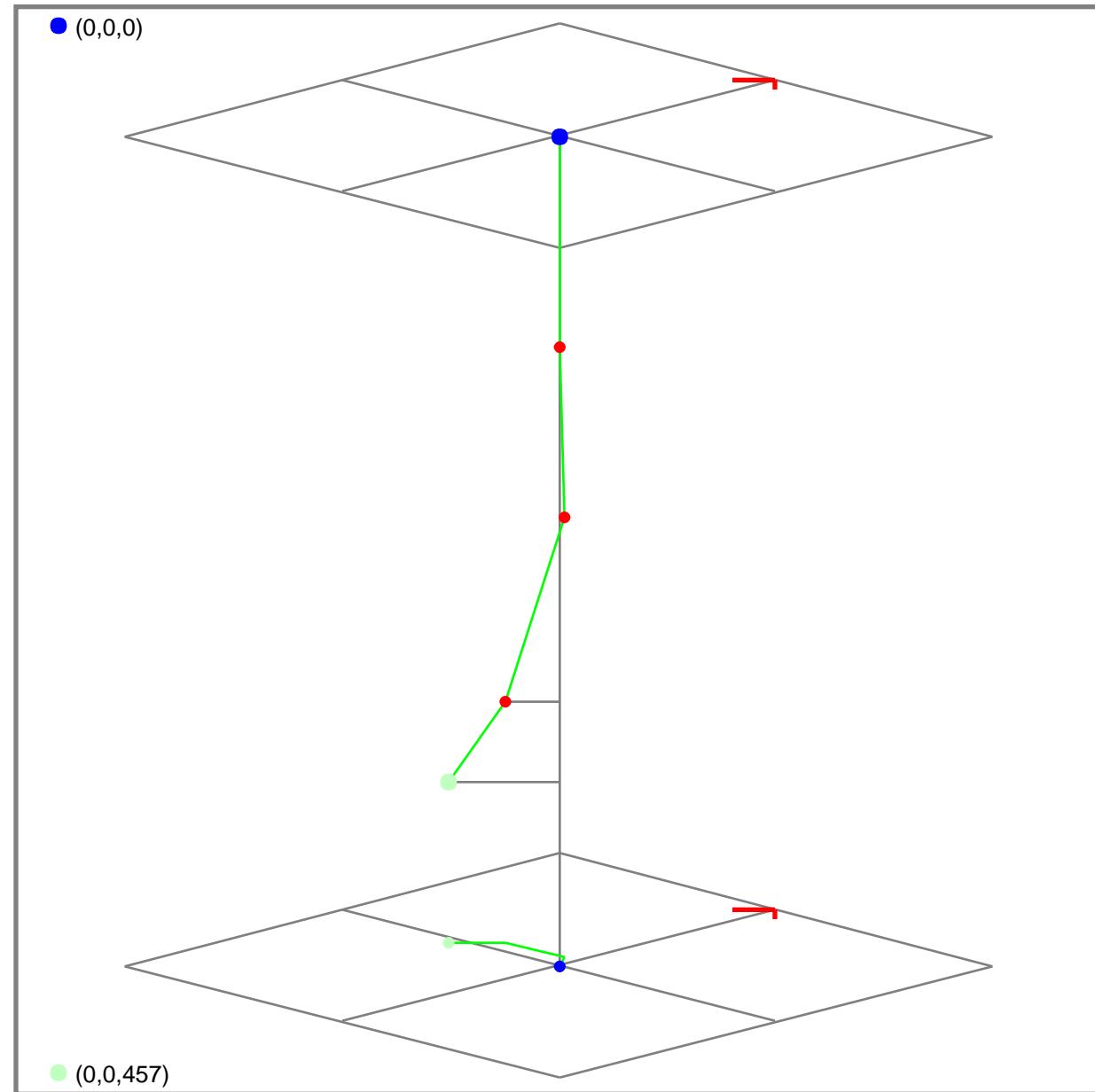
REPORT OF ALL ACCEPTED SURVEYS SORTED BY SURVEY DEPTH

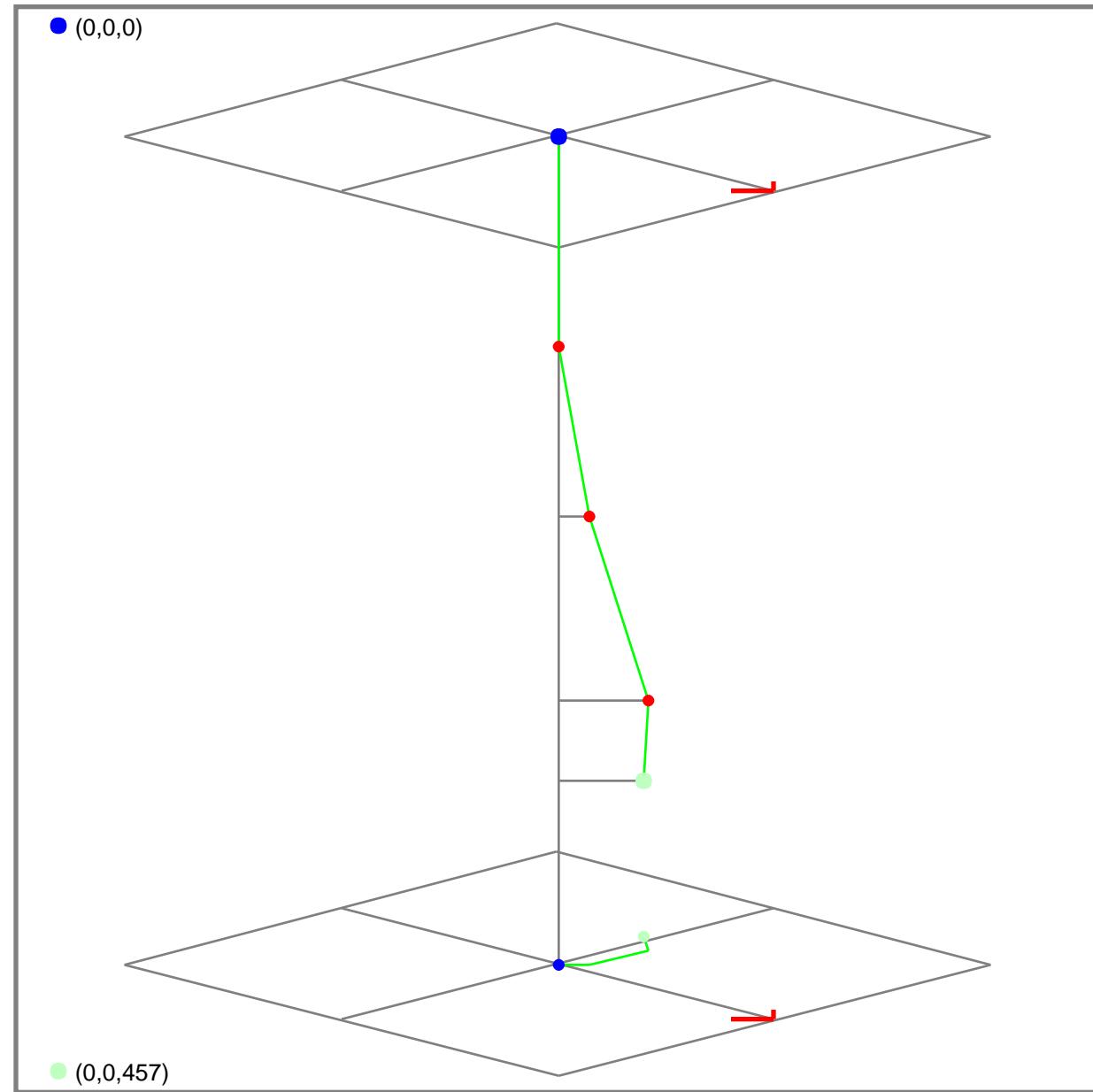
SURVEY DEPTH	SURVEY ANGLE	SURVEY AZIMUTH	VERT DEPTH	N-S DEPART	E-W DEPART	TGF	TMF	DIP ANGLE	SURVEY #	SURVEY TYPE	SURVEY DATE & TIME
0.0	0.00	0.00	0.00	0.0	0.0	1.000	0.000	0.0	0	Tie-In	24 Apr 2022 20:21
149.0	0.00	120.36	149.00	0.0	0.0	1.000	0.652	69.0	4	Survey	24 Apr 2022 23:04
270.0	0.10	325.36	270.00	0.1	-0.1	1.000	0.652	69.0	7	Survey	25 Apr 2022 00:27
400.0	0.20	245.36	400.00	0.1	-0.3	1.000	0.652	68.5	10	Survey	25 Apr 2022 01:42
457.0	0.20	197.36	457.00	-0.1	-0.5	1.000	0.648	69.0	12	Survey	25 Apr 2022 02:23

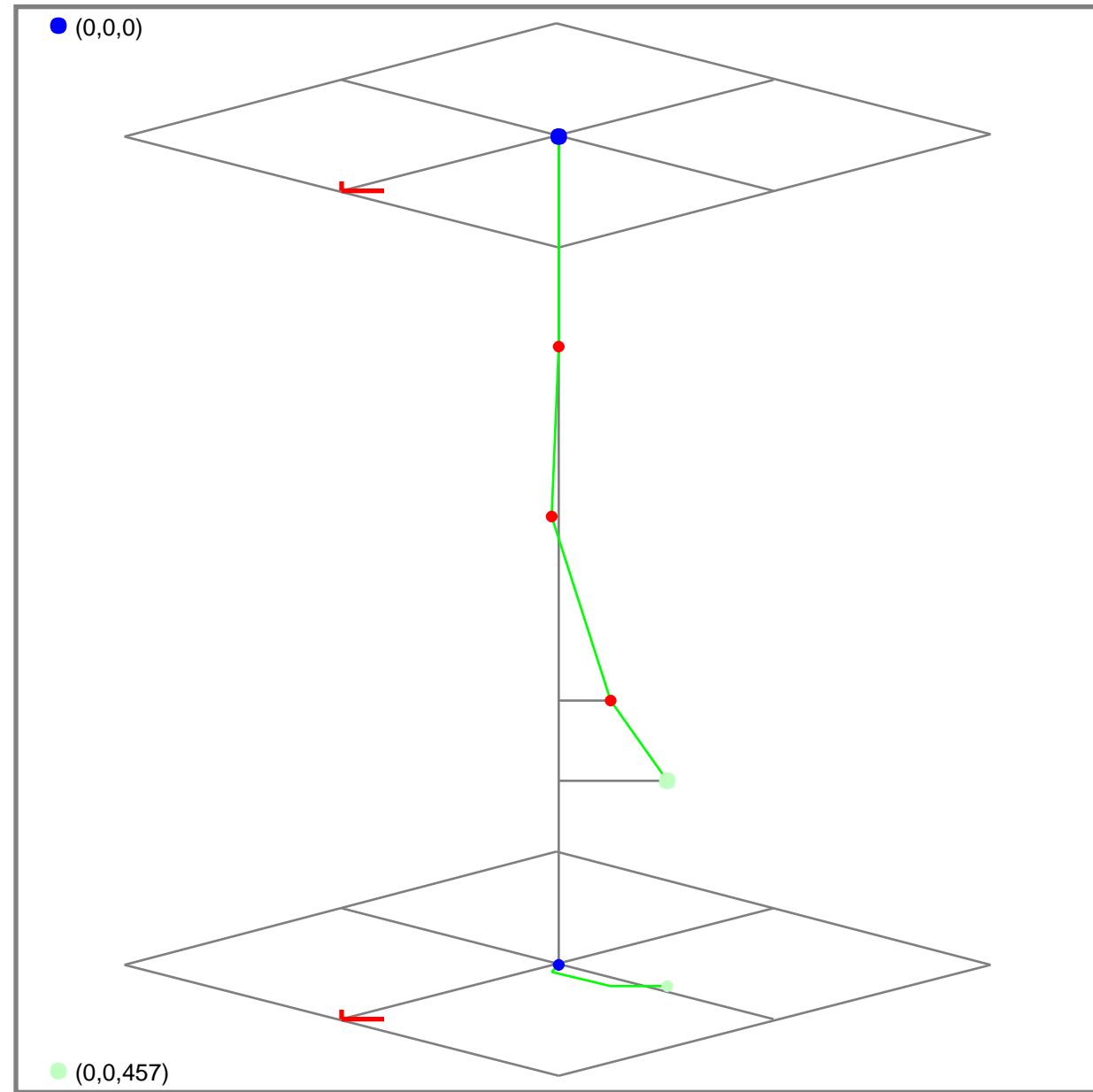


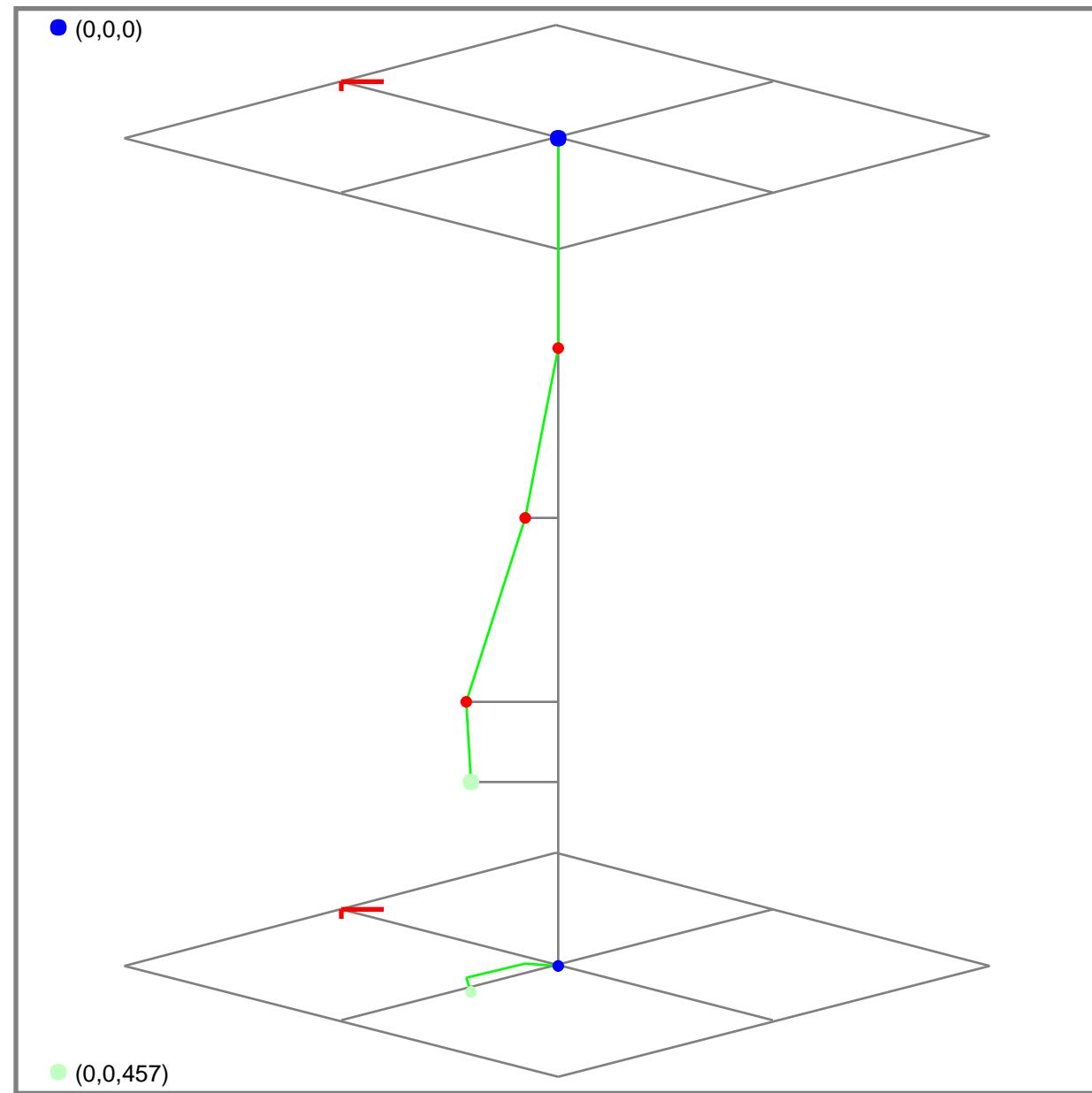














Invictus Tools LLC
501 Winscott Rd
Benbrook, TX 76126

Aug 11, 2022

State of TX
Martin County, TX

I, Javier Arreola, certify that: I represent Invictus Tools, LLC; that I did on the day(s) of 04/24/2022 through 04/25/2022 conduct or supervise the taking of MWD surveys from a depth of 149.0 feet measured depth to a depth of 457.0 feet measured depth; that the data is true, correct, complete, and within the limitations of the tool as set forth by Invictus Tools LLC; that I am authorized and qualified to make this report; that the survey was conducted at the request of Charger Services LLC for the UL COMANCHE P 29-42 No. 6WA Lease (API 42-317-44157), drilled by Charger Services 201 in Martin County, Texas and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Invictus Tools LLC.

Javier Arreola
Invictus Tools LLC

Kingsley Directional LLC



**Rail Road Commission Of Texas
Attn: Oil Conservation Division
PO Box 12967
Austin, TX 78711**

**Re Diamondback E&P LLC
UL Comanche P 29-42 #6WA
Spraberry (Trend Area)
Martin County, Texas
API# 42-317-44157**

5/10/2022

Enclosed please find a copy of the survey performed on the reference well by Kingsley Directional LLC
Other information required by your office is as followed:

Name	Drainhole No.	Survey Depths	Dates Performed	Survey Type
Jared Jackson	Original Hole	180' to 1,923'	05/05/2022 - 05/06/2022	MWD Survey

A handwritten signature in black ink, appearing to read "Priscilla Sewell".

Priscilla Sewell

**Kingsley Directional LLC
RRC Operator # 467192**

Enclosures

CC:

**Diamondback E&P LLC
500 W Texas Avenue
Ste 1200
Midland, Texas 79701-4203**

**Kingsley Directional LLC
8812 Fawn Trl
Conroe, TX 77384
(936) 224 - 7975**

	Job Number: KD221101	Elev. GL: 2906.70 ft	RKB: 13.00 ft
	Company: Diamondback E&P LLC	System: US State Plane 1927 (Exact solution)	
	Lease/Well: UL Comanche P 29-42 #6WA		
	Location: 34.3 miles NW direction from Stanton		
	Rig Name: Charger 201		
	State/County: Texas/ Martin		
	Country: USA		
	API Number: 42-317-44157	Group: Texas North Central 4202	
		Datum: CLARKE 1866	
		Mag. Decl.: 5.81° (C:\HawkEye\IGRF2020.mif)	
		Grid Conv.: -2.56137 W	
		Date: Saturday, May 7, 2022	

Calculated by HawkEye Software

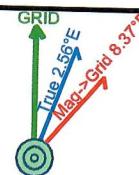
Minimum Curvature Method

Vertical Section Plane 0.00°

Northing (US ft): 331126.02 Easting (US ft): 552382.24

Latitude: 32°29'16.4043" N Longitude: -102°11'46.8734" W

Direction Reference: Grid North



#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Closure Dir Deg	Closure (Ft)
Tie-In Data									
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	180.00	1.20	56.50	179.99	1.04	1.04	1.57	56.50	1.88
3	310.00	1.40	53.70	309.95	2.73	2.73	3.99	55.58	4.83
4	440.00	1.10	40.00	439.92	4.63	4.63	6.07	52.67	7.63
5	570.00	1.10	33.70	569.90	6.62	6.62	7.56	48.80	10.05
6	701.00	0.90	6.30	700.88	8.69	8.69	8.37	43.94	12.07
7	831.00	0.60	7.30	830.87	10.38	10.38	8.57	39.55	13.46
8	961.00	0.40	124.70	960.87	10.80	10.80	9.03	39.91	14.08
9	1092.00	1.20	132.80	1091.85	9.61	9.61	10.41	47.31	14.17
10	1222.00	1.60	158.80	1221.81	6.99	6.99	12.07	59.93	13.95
11	1353.00	1.40	178.70	1352.77	3.68	3.68	12.77	73.91	13.29
12	1483.00	1.40	198.40	1482.73	0.59	0.59	12.30	87.26	12.32
13	1614.00	1.20	197.00	1613.70	-2.24	-2.24	11.40	101.13	11.61
14	1744.00	0.80	229.00	1743.68	-4.14	-4.14	10.31	111.87	11.11
15	1838.00	1.00	236.90	1837.67	-5.02	-5.02	9.13	118.79	10.42
16	1923.00	1.10	229.80	1922.65	-5.95	-5.95	7.89	127.03	9.88
TD Projection to BIT									
17	1993.00	1.10	229.80	1992.64	-6.82	-6.82	6.86	134.82	9.67

Kingsley Directional LLC



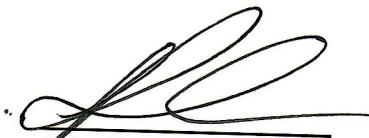
Survey Certification Report

STATE OF TEXAS

5/10/2022

COUNTY OF MONTGOMERY

I, Priscilla Sewell, certify that I am employed by Kingsley Directional LLC, and that I did on the day(s) of May 05, 2022 through May 06, 2022 conduct or supervise the taking of a MWD Survey from the depth of 180 feet MD. to a depth of 1,923 feet MD.; that the data is true, complete, and within the limitations set forth by Kingsley Directional, LLC, that I am authorized and qualified to make this report; that this survey was conducted at the request of Diamondback E&P LLC for the UL Comanche P 29-42 #6WA well.
API# 42-317-44157



Priscilla Sewell

**Kingsley Directional LLC
RRC Operator # 467192**

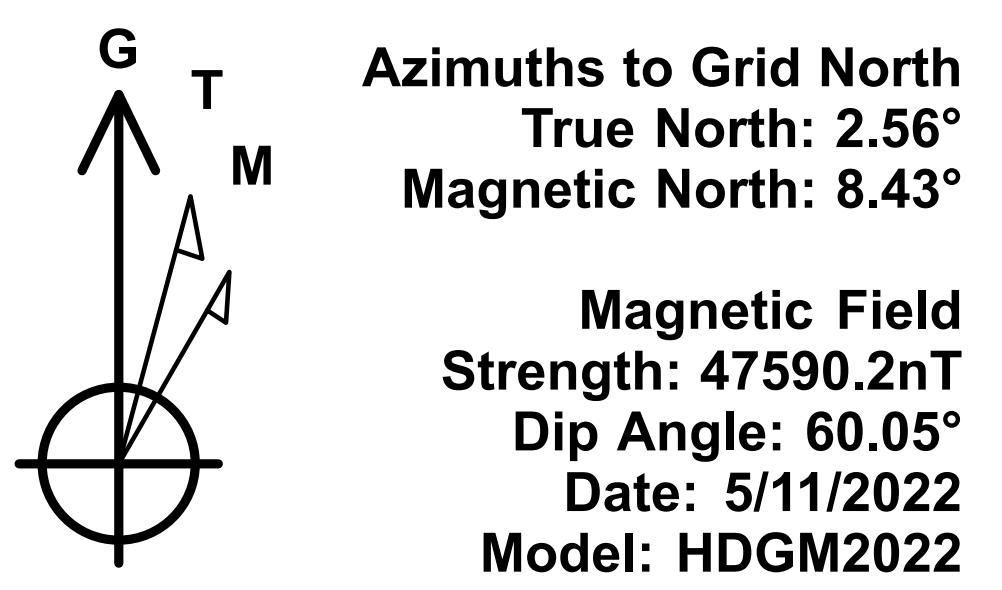
**Rail Road Commission Of Texas
Attn: Oil Conservation Division
PO Box 12967
Austin, TX 78711**

**Diamondback E&P LLC
UL Comanche P 29-42 #6WA
Spraberry (Trend Area)
Martin County, Texas
API# 42-317-44157**

**Kingsley Directional LLC
8812 Fawn Trl
Conroe, TX 77384
(936) 224 - 7975**

Diamondback Energy

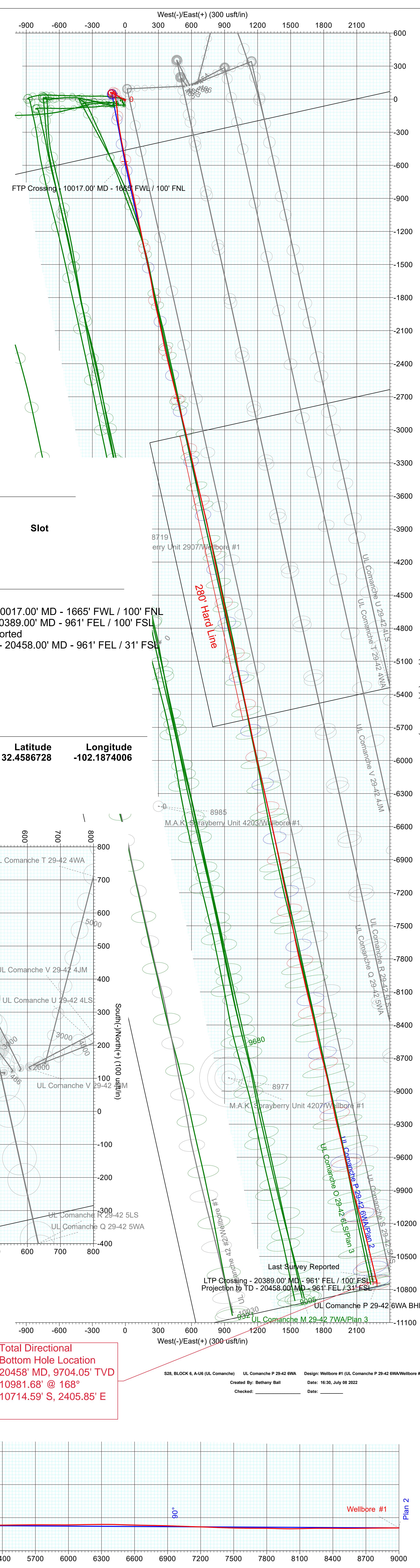
Project: Martin County, TX (NAD27 - Grid)
Site: S28, BLOCK 6, A-U6 (UL Comanche)
Well: UL Comanche P 29-42 6WA
Wellbore: Wellbore #1
Design: Wellbore #1
Rig: Unit 413



PROJECT DETAILS: Martin County, TX (NAD27 - Grid)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Texas North Central 4202

Reference Datum: GE 2906.70 + 21 @ 2927.70usft (Unit 413)



Diamondback Energy

**Martin County, TX (NAD27 - Grid)
S28, BLOCK 6, A-U6 (UL Comanche)
UL Comanche P 29-42 6WA**

Wellbore #1

Design: Wellbore #1

Standard Survey Report

08 July, 2022

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Martin County, TX (NAD27 - Grid)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas North Central 4202		

Site	S28, BLOCK 6, A-U6 (UL Comanche)				
Site Position:		Northing:	331,099.03 usft	Latitude:	32.4878010
From:	Map	Easting:	552,260.20 usft	Longitude:	-102.1967452
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	UL Comanche P 29-42 6WA				
Well Position	+N/S +E/W	0.00 usft 0.00 usft	Northing: Easting:	331,126.02 usft 552,382.24 usft	Latitude: Longitude:
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:
Grid Convergence:		-2.56 °			2,906.70 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	5/11/2022	5.87	60.05	47,590.20000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)
		0.00	0.00	0.00	167.50

Survey Program	Date	7/8/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
170.00		478.00 Surface Surveys (KB Adjusted) (Wellbore : MWD+IFR1+FDIR		OWSG MWD + IFR1 + FDIR Correction
587.00		20,458.00 Survey #2 (Wellbore #1)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	0.00	120.36	170.00	0.00	0.00	0.00	0.00	0.00	0.00
291.00	0.10	325.36	291.00	0.09	-0.06	-0.10	0.08	0.08	0.00
421.00	0.20	245.36	421.00	0.09	-0.33	-0.16	0.16	0.08	-61.54
478.00	0.20	197.36	478.00	-0.05	-0.45	-0.05	0.29	0.00	-84.21
587.00	0.37	157.17	587.00	-0.56	-0.37	0.46	0.23	0.16	-36.87
679.00	0.31	174.63	679.00	-1.08	-0.23	1.00	0.13	-0.07	18.98
770.00	0.35	166.78	769.99	-1.59	-0.15	1.52	0.07	0.04	-8.63
863.00	0.30	208.25	862.99	-2.09	-0.20	1.99	0.25	-0.05	44.59

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
955.00	0.40	223.76	954.99	-2.53	-0.53	2.35	0.15	0.11	16.86	
1,048.00	0.41	201.26	1,047.99	-3.07	-0.88	2.81	0.17	0.01	-24.19	
1,140.00	0.34	199.71	1,139.99	-3.64	-1.09	3.32	0.08	-0.08	-1.68	
1,233.00	0.29	198.79	1,232.99	-4.12	-1.26	3.75	0.05	-0.05	-0.99	
1,325.00	0.30	202.70	1,324.98	-4.56	-1.43	4.15	0.02	0.01	4.25	
1,419.00	0.42	230.01	1,418.98	-5.01	-1.78	4.51	0.22	0.13	29.05	
1,514.00	0.32	233.94	1,513.98	-5.39	-2.27	4.77	0.11	-0.11	4.14	
1,609.00	0.21	243.34	1,608.98	-5.63	-2.64	4.92	0.12	-0.12	9.89	
1,704.00	0.24	187.47	1,703.98	-5.90	-2.82	5.15	0.22	0.03	-58.81	
1,799.00	0.39	172.97	1,798.98	-6.42	-2.80	5.66	0.18	0.16	-15.26	
1,893.00	0.59	171.35	1,892.97	-7.21	-2.69	6.46	0.21	0.21	-1.72	
1,988.00	0.79	176.62	1,987.97	-8.35	-2.58	7.60	0.22	0.21	5.55	
2,084.00	0.64	177.58	2,083.96	-9.55	-2.52	8.78	0.16	-0.16	1.00	
2,179.00	0.31	226.97	2,178.96	-10.25	-2.68	9.43	0.52	-0.35	51.99	
2,275.00	0.60	299.33	2,274.95	-10.18	-3.31	9.23	0.61	0.30	75.38	
2,370.00	0.74	293.41	2,369.95	-9.70	-4.31	8.54	0.16	0.15	-6.23	
2,465.00	0.84	288.57	2,464.94	-9.23	-5.53	7.82	0.13	0.11	-5.09	
2,561.00	1.58	297.89	2,560.92	-8.39	-7.37	6.60	0.80	0.77	9.71	
2,656.00	2.38	297.40	2,655.86	-6.87	-10.28	4.48	0.84	0.84	-0.52	
2,752.00	2.28	300.97	2,751.78	-4.97	-13.68	1.89	0.18	-0.10	3.72	
2,847.00	2.06	301.09	2,846.71	-3.11	-16.77	-0.59	0.23	-0.23	0.13	
2,943.00	2.25	308.20	2,942.64	-1.06	-19.72	-3.24	0.34	0.20	7.41	
3,037.00	2.88	317.14	3,036.55	1.81	-22.78	-6.70	0.79	0.67	9.51	
3,133.00	2.97	304.46	3,132.43	4.99	-26.47	-10.60	0.68	0.09	-13.21	
3,228.00	4.02	292.10	3,227.25	7.63	-31.59	-14.29	1.35	1.11	-13.01	
3,324.00	5.08	297.68	3,322.95	10.88	-38.47	-18.94	1.20	1.10	5.81	
3,418.00	5.62	301.12	3,416.54	15.19	-46.09	-24.80	0.67	0.57	3.66	
3,513.00	5.45	301.90	3,511.09	19.98	-53.91	-31.17	0.20	-0.18	0.82	
3,609.00	5.34	301.19	3,606.67	24.70	-61.60	-37.45	0.13	-0.11	-0.74	
3,704.00	5.09	300.27	3,701.27	29.11	-69.02	-43.36	0.28	-0.26	-0.97	
3,799.00	5.15	299.51	3,795.90	33.34	-76.37	-49.08	0.10	0.06	-0.80	
3,895.00	4.91	298.59	3,891.53	37.42	-83.73	-54.66	0.26	-0.25	-0.96	
3,989.00	4.55	298.75	3,985.21	41.14	-90.53	-59.76	0.38	-0.38	0.17	
4,085.00	4.38	297.03	4,080.91	44.64	-97.13	-64.61	0.23	-0.18	-1.79	
4,180.00	4.05	295.94	4,175.66	47.76	-103.38	-69.00	0.36	-0.35	-1.15	
4,274.00	3.72	297.65	4,269.44	50.62	-109.07	-73.03	0.37	-0.35	1.82	
4,370.00	3.34	297.27	4,365.26	53.35	-114.31	-76.83	0.40	-0.40	-0.40	
4,465.00	2.91	295.04	4,460.12	55.64	-118.96	-80.07	0.47	-0.45	-2.35	
4,561.00	2.52	290.83	4,556.01	57.42	-123.14	-82.71	0.46	-0.41	-4.39	
4,657.00	2.34	289.06	4,651.92	58.81	-126.96	-84.90	0.20	-0.19	-1.84	
4,752.00	2.30	285.45	4,746.85	59.95	-130.63	-86.81	0.16	-0.04	-3.80	
4,848.00	1.22	283.46	4,842.80	60.70	-133.48	-88.16	1.13	-1.13	-2.07	
4,944.00	0.25	254.52	4,938.79	60.89	-134.68	-88.59	1.05	-1.01	-30.15	

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,039.00	0.70	137.33	5,033.79	60.40	-134.48	-88.08	0.89	0.47	-123.36	
5,135.00	0.62	147.42	5,129.78	59.53	-133.81	-87.08	0.15	-0.08	10.51	
5,231.00	0.62	147.30	5,225.78	58.66	-133.25	-86.11	0.00	0.00	-0.13	
5,325.00	0.56	137.63	5,319.77	57.89	-132.66	-85.23	0.12	-0.06	-10.29	
5,421.00	0.44	134.95	5,415.77	57.29	-132.09	-84.52	0.13	-0.13	-2.79	
5,515.00	0.30	150.36	5,509.77	56.82	-131.71	-83.98	0.18	-0.15	16.39	
5,610.00	0.34	117.33	5,604.76	56.47	-131.34	-83.56	0.20	0.04	-34.77	
5,706.00	0.30	115.10	5,700.76	56.23	-130.85	-83.22	0.04	-0.04	-2.32	
5,802.00	0.38	105.00	5,796.76	56.04	-130.32	-82.92	0.10	0.08	-10.52	
5,862.00	0.32	116.74	5,856.76	55.92	-129.98	-82.72	0.16	-0.10	19.57	
5,907.00	0.31	118.68	5,901.76	55.80	-129.76	-82.56	0.03	-0.02	4.31	
6,003.00	0.91	101.81	5,997.75	55.52	-128.78	-82.08	0.65	0.63	-17.57	
6,097.00	0.93	94.16	6,091.74	55.31	-127.29	-81.55	0.13	0.02	-8.14	
6,192.00	1.00	94.33	6,186.73	55.20	-125.70	-81.09	0.07	0.07	0.18	
6,288.00	0.76	86.40	6,282.72	55.17	-124.23	-80.75	0.28	-0.25	-8.26	
6,384.00	0.77	86.38	6,378.71	55.25	-122.95	-80.55	0.01	0.01	-0.02	
6,479.00	0.72	81.90	6,473.70	55.38	-121.72	-80.41	0.08	-0.05	-4.72	
6,575.00	0.93	61.32	6,569.69	55.84	-120.44	-80.58	0.37	0.22	-21.44	
6,670.00	1.24	223.39	6,664.68	55.46	-120.47	-80.22	2.26	0.33	170.60	
6,766.00	1.27	206.98	6,760.66	53.76	-121.66	-78.82	0.37	0.03	-17.09	
6,862.00	0.84	209.47	6,856.64	52.20	-122.49	-77.47	0.45	-0.45	2.59	
6,957.00	0.45	193.81	6,951.64	51.23	-122.93	-76.62	0.45	-0.41	-16.48	
7,053.00	0.62	166.50	7,047.63	50.36	-122.89	-75.76	0.31	0.18	-28.45	
7,149.00	0.70	169.11	7,143.63	49.27	-122.66	-74.66	0.09	0.08	2.72	
7,245.00	0.82	165.96	7,239.62	48.03	-122.38	-73.38	0.13	0.13	-3.28	
7,339.00	0.63	185.33	7,333.61	46.87	-122.27	-72.22	0.33	-0.20	20.61	
7,434.00	0.52	153.25	7,428.61	45.96	-122.12	-71.30	0.35	-0.12	-33.77	
7,529.00	0.38	127.72	7,523.60	45.38	-121.68	-70.64	0.25	-0.15	-26.87	
7,624.00	0.83	80.85	7,618.60	45.30	-120.75	-70.36	0.67	0.47	-49.34	
7,719.00	0.82	104.52	7,713.59	45.24	-119.41	-70.01	0.36	-0.01	24.92	
7,814.00	1.15	313.98	7,808.58	45.73	-119.44	-70.50	2.01	0.35	-158.46	
7,908.00	2.28	348.72	7,902.54	48.22	-120.49	-73.15	1.58	1.20	36.96	
8,003.00	2.06	0.47	7,997.47	51.78	-120.84	-76.71	0.52	-0.23	12.37	
8,098.00	1.47	18.51	8,092.43	54.64	-120.44	-79.42	0.85	-0.62	18.99	
8,193.00	1.35	34.89	8,187.40	56.72	-119.42	-81.22	0.44	-0.13	17.24	
8,288.00	1.39	38.47	8,282.37	58.54	-118.06	-82.70	0.10	0.04	3.77	
8,383.00	2.15	36.01	8,377.33	60.88	-116.29	-84.61	0.80	0.80	-2.59	
8,478.00	2.22	53.99	8,472.26	63.40	-113.76	-86.52	0.72	0.07	18.93	
8,572.00	2.54	60.60	8,566.18	65.50	-110.47	-87.85	0.45	0.34	7.03	
8,667.00	2.39	100.55	8,661.10	66.17	-106.69	-87.69	1.78	-0.16	42.05	
8,763.00	2.59	110.33	8,757.01	65.05	-102.69	-85.73	0.49	0.21	10.19	
8,859.00	3.13	139.14	8,852.89	62.31	-98.94	-82.25	1.58	0.56	30.01	
8,954.00	2.91	142.68	8,947.76	58.43	-95.78	-77.78	0.30	-0.23	3.73	

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,050.00	2.73	149.18	9,043.65	54.53	-93.13	-73.39	0.38	-0.19	6.77	
9,146.00	10.66	178.82	9,138.93	43.67	-91.77	-62.50	8.75	8.26	30.88	
9,241.00	24.04	173.52	9,229.41	15.53	-89.40	-34.51	14.17	14.08	-5.58	
9,336.00	37.31	170.96	9,310.94	-32.35	-82.66	13.69	14.03	13.97	-2.69	
9,431.00	41.65	174.59	9,384.26	-92.24	-75.16	73.79	5.17	4.57	3.82	
9,526.00	39.10	176.09	9,456.62	-153.57	-70.14	134.75	2.87	-2.68	1.58	
9,621.00	51.57	171.76	9,523.29	-220.56	-62.73	201.76	13.51	13.13	-4.56	
9,716.00	59.09	169.78	9,577.29	-297.61	-50.15	279.70	8.10	7.92	-2.08	
9,811.00	63.17	169.20	9,623.15	-379.39	-34.97	362.83	4.33	4.29	-0.61	
9,906.00	66.27	168.35	9,663.72	-463.64	-18.24	448.70	3.36	3.26	-0.89	
10,002.00	67.27	167.04	9,701.58	-549.82	0.56	536.91	1.63	1.04	-1.36	
10,017.00	68.72	167.09	9,707.20	-563.38	3.68	550.82	9.67	9.66	0.34	
FTP Crossing - 10017.00' MD - 1665' FWL / 100' FNL										
10,027.65	69.75	167.13	9,710.98	-573.08	5.90	560.78	9.67	9.66	0.34	
UL Comanche P 29-42 6WA FTP										
10,097.00	76.45	167.35	9,731.13	-637.76	20.55	627.09	9.67	9.66	0.32	
10,136.00	83.54	167.71	9,737.90	-675.24	28.83	665.47	18.20	18.18	0.92	
10,192.00	93.86	168.38	9,739.17	-729.94	40.41	721.38	18.47	18.43	1.20	
10,288.00	93.66	166.90	9,732.87	-823.51	60.92	817.17	1.55	-0.21	-1.54	
10,383.00	90.59	167.88	9,729.35	-916.14	81.64	912.09	3.39	-3.23	1.03	
10,449.00	90.88	168.66	9,728.51	-980.76	95.06	978.08	1.26	0.44	1.18	
10,544.00	90.51	168.47	9,727.35	-1,073.86	113.89	1,073.06	0.44	-0.39	-0.20	
10,639.00	90.30	168.20	9,726.68	-1,166.90	133.10	1,168.05	0.36	-0.22	-0.28	
10,735.00	90.00	168.37	9,726.43	-1,260.90	152.59	1,264.04	0.36	-0.31	0.18	
10,830.00	91.06	167.48	9,725.55	-1,353.79	172.46	1,359.03	1.46	1.12	-0.94	
10,925.00	90.88	167.83	9,723.94	-1,446.58	192.77	1,454.01	0.41	-0.19	0.37	
11,020.00	91.03	169.13	9,722.36	-1,539.65	211.74	1,548.98	1.38	0.16	1.37	
11,116.00	91.26	169.37	9,720.44	-1,633.95	229.64	1,644.92	0.35	0.24	0.25	
11,212.00	91.69	170.38	9,717.97	-1,728.42	246.51	1,740.80	1.14	0.45	1.05	
11,308.00	92.01	168.80	9,714.87	-1,822.79	263.85	1,836.69	1.68	0.33	-1.65	
11,403.00	91.66	167.05	9,711.83	-1,915.63	283.71	1,931.63	1.88	-0.37	-1.84	
11,499.00	93.29	166.99	9,707.68	-2,009.09	305.25	2,027.54	1.70	1.70	-0.06	
11,592.00	94.70	168.38	9,701.20	-2,099.73	325.04	2,120.30	2.13	1.52	1.49	
11,684.00	95.00	168.48	9,693.43	-2,189.53	343.42	2,211.96	0.34	0.33	0.11	
11,776.00	94.53	167.03	9,685.78	-2,279.13	362.87	2,303.64	1.65	-0.51	-1.58	
11,868.00	94.85	166.76	9,678.26	-2,368.43	383.66	2,395.33	0.45	0.35	-0.29	
11,961.00	93.29	165.94	9,671.66	-2,458.57	405.55	2,488.07	1.89	-1.68	-0.88	
12,053.00	92.76	165.82	9,666.80	-2,547.67	427.96	2,579.91	0.59	-0.58	-0.13	
12,145.00	92.87	165.79	9,662.29	-2,636.75	450.50	2,671.75	0.12	0.12	-0.03	
12,223.20	92.50	165.59	9,658.63	-2,712.44	469.81	2,749.83	0.54	-0.48	-0.26	
UL Comanche P 29-42 6WA T1										
12,237.00	92.43	165.55	9,658.03	-2,725.79	473.24	2,763.61	0.54	-0.48	-0.26	
12,329.00	92.48	166.16	9,654.09	-2,814.92	495.70	2,855.49	0.66	0.05	0.66	
12,421.00	89.44	166.11	9,652.55	-2,904.22	517.75	2,947.44	3.30	-3.30	-0.05	

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,514.00	87.88	166.36	9,654.73	-2,994.52	539.87	3,040.39	1.70	-1.68	0.27
12,606.00	87.80	166.46	9,658.19	-3,083.88	561.47	3,132.30	0.14	-0.09	0.11
12,699.00	87.66	167.28	9,661.88	-3,174.38	582.58	3,225.22	0.89	-0.15	0.88
12,795.00	89.86	167.49	9,663.95	-3,268.03	603.54	3,321.20	2.30	2.29	0.22
12,890.00	89.17	167.24	9,664.76	-3,360.73	624.32	3,416.19	0.77	-0.73	-0.26
12,986.00	87.87	166.57	9,667.24	-3,454.20	646.06	3,512.15	1.52	-1.35	-0.70
13,082.00	89.27	166.40	9,669.63	-3,547.51	668.49	3,608.10	1.47	1.46	-0.18
13,177.00	90.58	166.52	9,669.76	-3,639.86	690.73	3,703.09	1.38	1.38	0.13
13,273.00	91.34	166.95	9,668.15	-3,733.29	712.75	3,799.06	0.91	0.79	0.45
13,367.00	91.09	167.22	9,666.16	-3,824.89	733.76	3,893.04	0.39	-0.27	0.29
13,462.00	91.87	167.38	9,663.70	-3,917.53	754.64	3,988.01	0.84	0.82	0.17
13,557.00	91.51	167.95	9,660.90	-4,010.30	774.92	4,082.96	0.71	-0.38	0.60
13,652.00	91.26	168.44	9,658.60	-4,103.26	794.35	4,177.93	0.58	-0.26	0.52
13,747.00	91.86	168.67	9,656.02	-4,196.34	813.20	4,272.88	0.68	0.63	0.24
13,842.00	89.60	167.65	9,654.81	-4,289.30	832.68	4,367.86	2.61	-2.38	-1.07
13,937.00	89.16	167.96	9,655.84	-4,382.15	852.75	4,462.85	0.57	-0.46	0.33
14,032.00	88.73	167.86	9,657.58	-4,475.03	872.64	4,557.83	0.46	-0.45	-0.11
14,127.00	88.06	168.07	9,660.25	-4,567.91	892.45	4,652.79	0.74	-0.71	0.22
14,221.00	87.94	168.04	9,663.53	-4,659.81	911.89	4,746.73	0.13	-0.13	-0.03
14,316.00	87.73	167.92	9,667.12	-4,752.67	931.66	4,841.66	0.25	-0.22	-0.13
14,412.00	89.52	166.83	9,669.42	-4,846.31	952.63	4,937.62	2.18	1.86	-1.14
14,507.00	89.94	167.14	9,669.87	-4,938.87	974.03	5,032.62	0.55	0.44	0.33
14,601.00	89.83	167.56	9,670.06	-5,030.59	994.61	5,126.62	0.46	-0.12	0.45
14,696.00	90.09	167.99	9,670.12	-5,123.43	1,014.73	5,221.62	0.53	0.27	0.45
14,791.00	90.95	168.53	9,669.26	-5,216.44	1,034.06	5,316.60	1.07	0.91	0.57
14,886.00	90.70	168.44	9,667.89	-5,309.52	1,053.02	5,411.58	0.28	-0.26	-0.09
14,982.00	91.10	168.58	9,666.38	-5,403.58	1,072.14	5,507.55	0.44	0.42	0.15
15,077.00	90.19	167.88	9,665.31	-5,496.58	1,091.52	5,602.54	1.21	-0.96	-0.74
15,172.00	90.19	167.97	9,665.00	-5,589.48	1,111.39	5,697.53	0.09	0.00	0.09
15,267.00	89.62	168.17	9,665.16	-5,682.42	1,131.03	5,792.53	0.64	-0.60	0.21
15,362.00	89.83	169.11	9,665.61	-5,775.56	1,149.74	5,887.51	1.01	0.22	0.99
15,456.00	90.05	168.28	9,665.71	-5,867.74	1,168.17	5,981.49	0.91	0.23	-0.88
15,551.00	91.07	168.75	9,664.78	-5,960.83	1,187.08	6,076.46	1.18	1.07	0.49
15,647.00	91.20	166.79	9,662.88	-6,054.63	1,207.41	6,172.44	2.05	0.14	-2.04
15,743.00	90.15	166.81	9,661.75	-6,148.08	1,229.33	6,268.42	1.09	-1.09	0.02
15,838.00	89.88	166.83	9,661.72	-6,240.58	1,251.00	6,363.42	0.28	-0.28	0.02
15,934.00	88.01	166.93	9,663.49	-6,334.05	1,272.78	6,459.39	1.95	-1.95	0.10
16,030.00	88.47	167.55	9,666.44	-6,427.64	1,293.98	6,555.34	0.80	0.48	0.65
16,125.00	88.68	167.84	9,668.80	-6,520.43	1,314.21	6,650.31	0.38	0.22	0.31
16,221.00	89.00	167.12	9,670.75	-6,614.12	1,335.02	6,746.29	0.82	0.33	-0.75
16,316.00	88.76	168.05	9,672.60	-6,706.88	1,355.44	6,841.27	1.01	-0.25	0.98
16,411.00	88.06	168.32	9,675.24	-6,799.83	1,374.89	6,936.23	0.79	-0.74	0.28
16,506.00	87.94	168.62	9,678.56	-6,892.86	1,393.86	7,031.16	0.34	-0.13	0.32
16,601.00	88.22	169.52	9,681.74	-6,986.08	1,411.87	7,126.07	0.99	0.29	0.95

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,696.00	88.13	167.98	9,684.76	-7,079.21	1,430.39	7,221.00	1.62	-0.09	-1.62	
16,790.00	87.61	167.49	9,688.26	-7,171.00	1,450.34	7,314.93	0.76	-0.55	-0.52	
16,885.00	88.33	168.33	9,691.62	-7,263.83	1,470.23	7,409.87	1.16	0.76	0.88	
16,981.00	88.66	169.04	9,694.14	-7,357.93	1,489.06	7,505.81	0.82	0.34	0.74	
17,076.00	89.42	168.73	9,695.74	-7,451.14	1,507.37	7,600.77	0.86	0.80	-0.33	
17,170.00	89.88	169.33	9,696.31	-7,543.42	1,525.26	7,694.73	0.80	0.49	0.64	
17,265.00	89.47	168.67	9,696.85	-7,636.67	1,543.38	7,789.70	0.82	-0.43	-0.69	
17,360.00	88.33	167.78	9,698.67	-7,729.65	1,562.76	7,884.67	1.52	-1.20	-0.94	
17,455.00	89.38	166.64	9,700.57	-7,822.27	1,583.79	7,979.65	1.63	1.11	-1.20	
17,550.00	91.00	166.85	9,700.26	-7,914.74	1,605.57	8,074.64	1.72	1.71	0.22	
17,646.00	91.51	167.12	9,698.15	-8,008.25	1,627.19	8,170.61	0.60	0.53	0.28	
17,740.00	90.14	166.73	9,696.80	-8,099.80	1,648.45	8,264.59	1.52	-1.46	-0.41	
17,835.00	89.79	166.26	9,696.86	-8,192.17	1,670.63	8,359.58	0.62	-0.37	-0.49	
17,930.00	89.73	166.57	9,697.26	-8,284.51	1,692.95	8,454.56	0.33	-0.06	0.33	
18,025.00	89.85	167.62	9,697.60	-8,377.11	1,714.16	8,549.55	1.11	0.13	1.11	
18,120.00	90.84	168.41	9,697.03	-8,470.04	1,733.89	8,644.55	1.33	1.04	0.83	
18,214.00	91.19	167.33	9,695.37	-8,561.92	1,753.64	8,738.53	1.21	0.37	-1.15	
18,310.00	90.20	166.45	9,694.20	-8,655.41	1,775.41	8,834.51	1.38	-1.03	-0.92	
18,404.00	89.94	165.44	9,694.09	-8,746.60	1,798.24	8,928.48	1.11	-0.28	-1.07	
18,498.00	90.79	166.61	9,693.49	-8,837.81	1,820.94	9,022.44	1.54	0.90	1.24	
18,592.00	91.39	167.71	9,691.70	-8,929.44	1,841.83	9,116.42	1.33	0.64	1.17	
18,687.00	91.33	168.41	9,689.45	-9,022.36	1,861.47	9,211.39	0.74	-0.06	0.74	
18,781.00	91.25	168.47	9,687.33	-9,114.43	1,880.31	9,305.35	0.11	-0.09	0.06	
18,877.00	90.90	167.80	9,685.53	-9,208.36	1,900.04	9,401.33	0.79	-0.36	-0.70	
18,971.00	88.26	166.68	9,686.22	-9,300.03	1,920.80	9,495.32	3.05	-2.81	-1.19	
19,066.00	88.56	166.22	9,688.85	-9,392.35	1,943.05	9,590.26	0.58	0.32	-0.48	
19,161.00	88.95	166.41	9,690.92	-9,484.63	1,965.52	9,685.22	0.46	0.41	0.20	
19,255.00	88.98	166.66	9,692.62	-9,576.03	1,987.40	9,779.19	0.27	0.03	0.27	
19,349.00	89.89	167.85	9,693.54	-9,667.71	2,008.14	9,873.18	1.59	0.97	1.27	
19,443.00	89.68	167.12	9,693.90	-9,759.47	2,028.51	9,967.18	0.81	-0.22	-0.78	
19,537.00	88.22	165.01	9,695.62	-9,850.68	2,051.14	10,061.13	2.73	-1.55	-2.24	
19,631.00	89.27	164.38	9,697.68	-9,941.32	2,075.95	10,154.99	1.30	1.12	-0.67	
19,726.00	89.37	163.73	9,698.80	-10,032.66	2,102.04	10,249.81	0.69	0.11	-0.68	
19,820.00	90.24	164.47	9,699.12	-10,123.06	2,127.79	10,343.65	1.22	0.93	0.79	
19,915.00	89.76	164.93	9,699.12	-10,214.70	2,152.86	10,438.53	0.70	-0.51	0.48	
UL Comanche P 29-42 6WA LTP										
20,009.00	89.38	164.25	9,699.83	-10,305.31	2,177.84	10,532.41	0.83	-0.40	-0.72	
20,103.00	89.30	166.46	9,700.91	-10,396.25	2,201.60	10,626.33	2.35	-0.09	2.35	
20,197.00	89.22	166.59	9,702.13	-10,487.65	2,223.50	10,720.31	0.16	-0.09	0.14	
20,291.00	89.41	166.63	9,703.25	-10,579.09	2,245.27	10,814.29	0.21	0.20	0.04	
20,327.51	89.59	166.65	9,703.57	-10,614.61	2,253.70	10,850.79	0.49	0.48	0.06	
20,386.00	89.87	166.69	9,703.85	-10,671.53	2,267.19	10,909.28	0.49	0.48	0.06	
20,389.00	89.86	166.68	9,703.85	-10,674.45	2,267.88	10,912.28	0.31	-0.22	-0.22	

Survey Report

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Comanche P 29-42 6WA
Project:	Martin County, TX (NAD27 - Grid)	TVD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Site:	S28, BLOCK 6, A-U6 (UL Comanche)	MD Reference:	GE 2906.70 + 21 @ 2927.70usft (Unit 413)
Well:	UL Comanche P 29-42 6WA	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
LTP Crossing - 20389.00' MD - 961' FEL / 100' FSL										
20,404.00	89.83	166.65	9,703.89	-10,689.04	2,271.34	10,927.28	0.31	-0.22	-0.22	
Last Survey Reported										
20,438.48	89.83	166.65	9,704.00	-10,722.58	2,279.30	10,961.75	0.00	0.00	0.00	
UL Comanche P 29-42 6WA PBHL										
20,458.00	89.83	166.65	9,704.05	-10,741.58	2,283.81	10,981.27	0.00	0.00	0.00	
Projection to TD - 20458.00' MD - 961' FEL / 31' FSL										

Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
UL Comanche P 29-4:	0.00	360.00	9,704.05	-10,741.58	2,283.81	320,384.44	554,666.05	32.4586728	-102.1874006	
- actual wellpath hits target center										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N/S (usft)	+E/W (usft)		
10,017.00	9,707.20	-563.38	3.68	FTP Crossing - 10017.00' MD - 1665' FWL / 100' FNL	
20,389.00	9,703.85	-10,674.45	2,267.88	LTP Crossing - 20389.00' MD - 961' FEL / 100' FSL	
20,404.00	9,703.89	-10,689.04	2,271.34	Last Survey Reported	
20,458.00	9,704.05	-10,741.58	2,283.81	Projection to TD - 20458.00' MD - 961' FEL / 31' FSL	

Checked By: _____ Approved By: _____ Date: _____



Final MWD Survey Certification

Martin County, Texas

Client: Diamondback Energy

Well Name: UL Comanche P 29-42 6WA

Total Job No: SW-220586

API No: 42-317-44157

Start Date: 06/18/2022

End Date: 06/27/2022

Measured Start Depth: 480'

Measured End Depth: 20458'

I, Devin Williams, certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 06/27/2022

Signed: *Devin Williams*