



March 21, 2023

Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, Texas 78711

Attention: Regulatory Department

Re: Diamondback Energy
UL Addie 41-27 A 1JM
Martin County, TX
API #42-317-44621
Job No. 71712

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

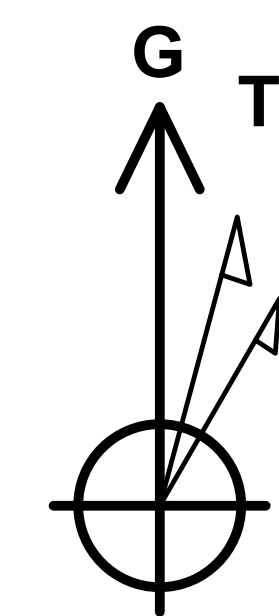
Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Raymond Brown	1JM	166	5,897	2/22/23	3/9/23	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

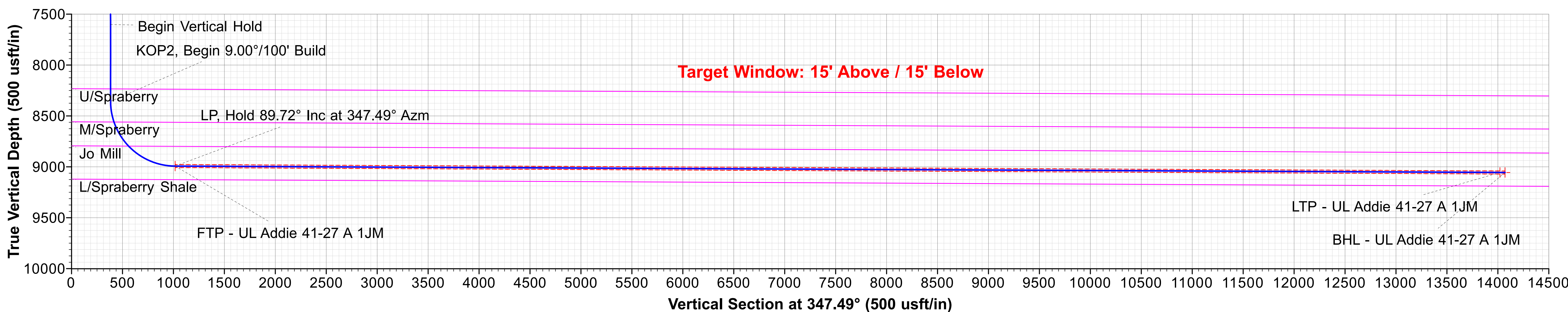
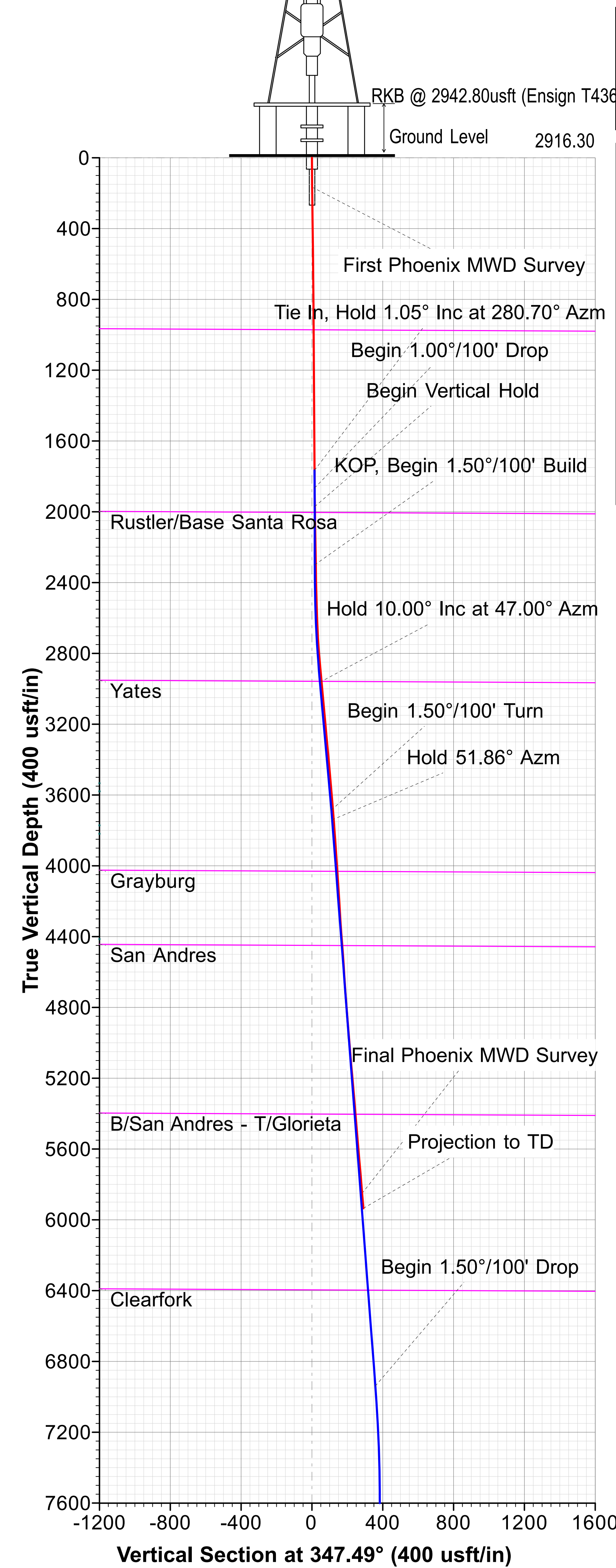
Best Regards,

Janie Velazquez

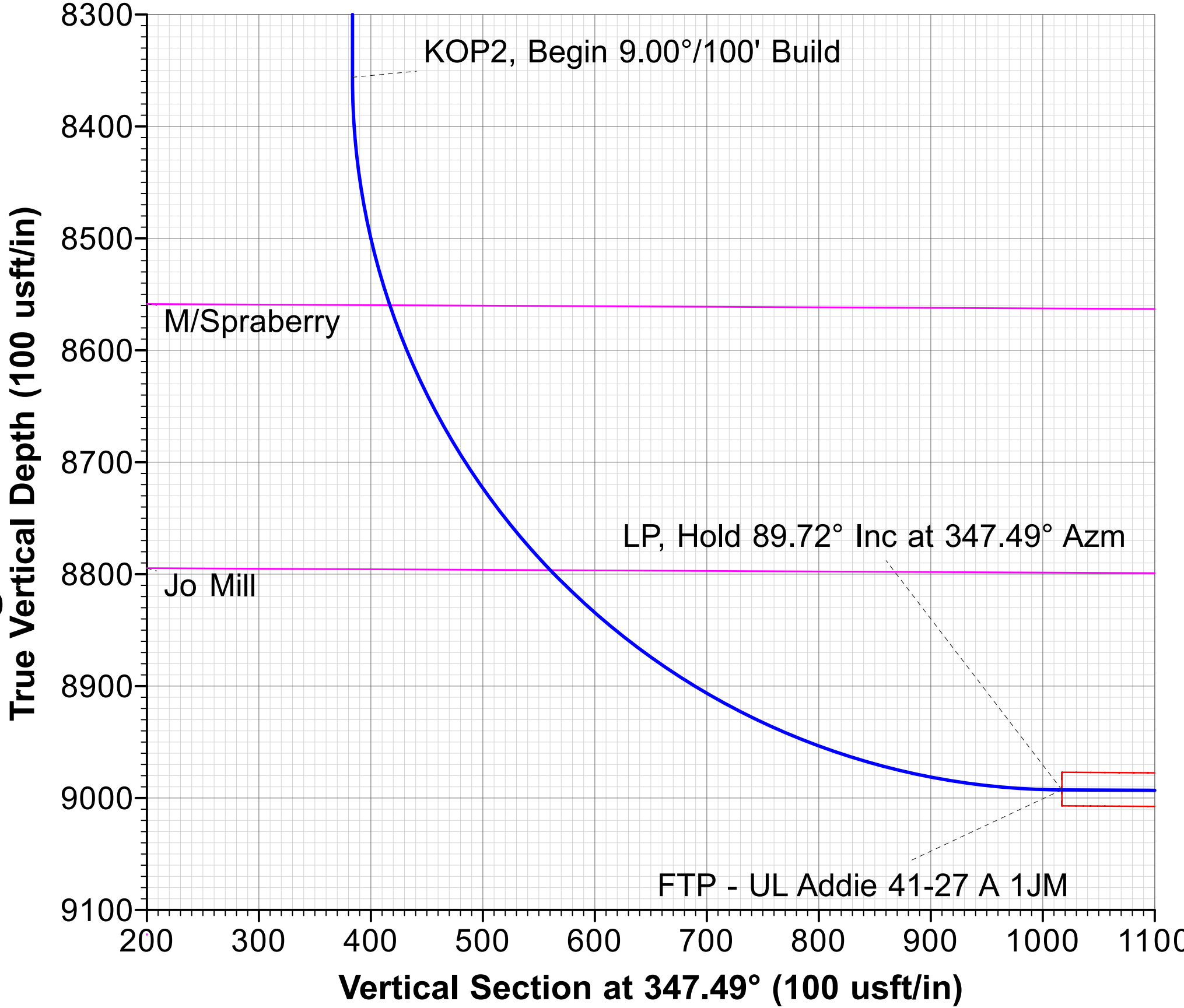
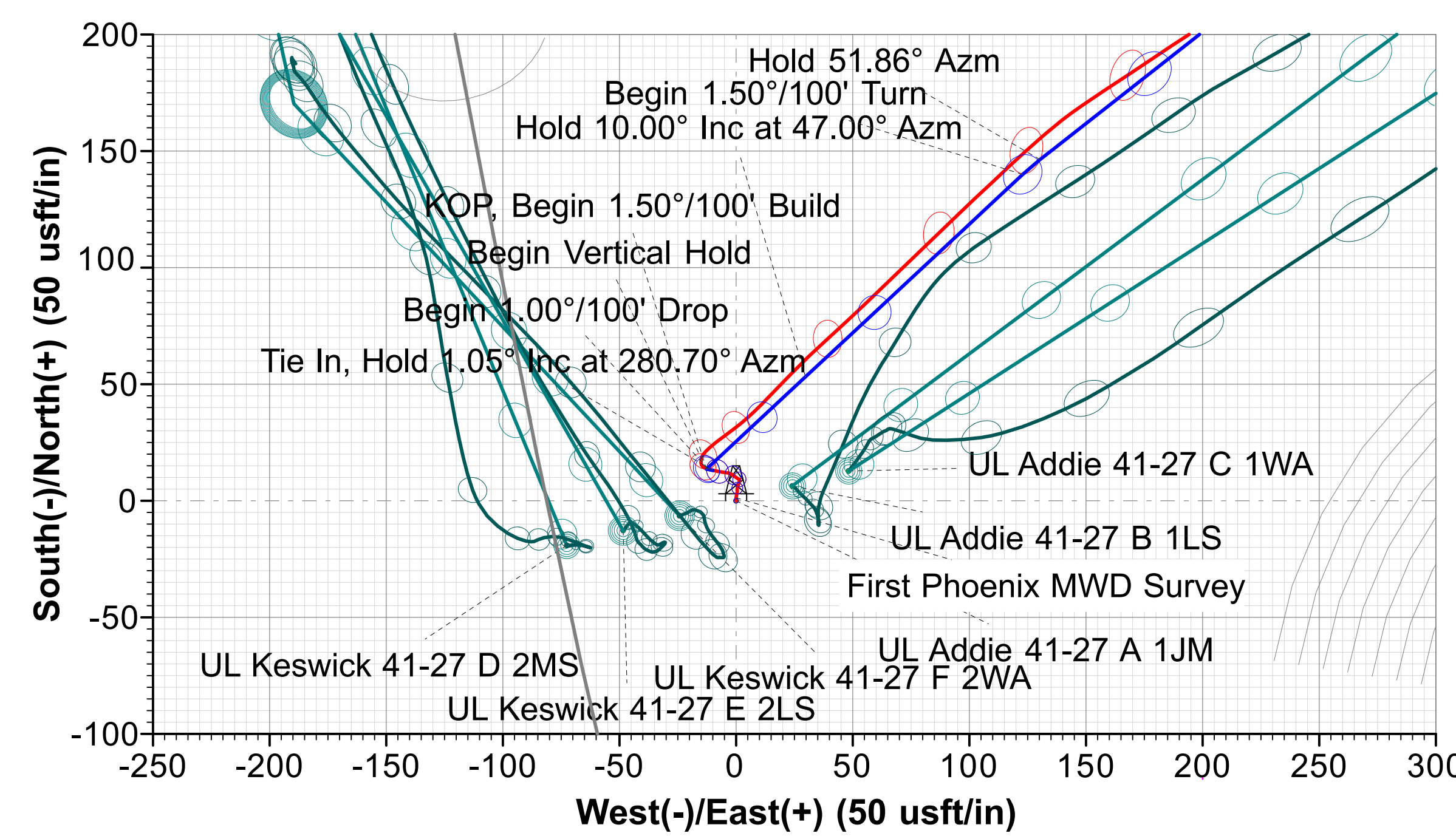
Janie Velazquez
Operations Administrator



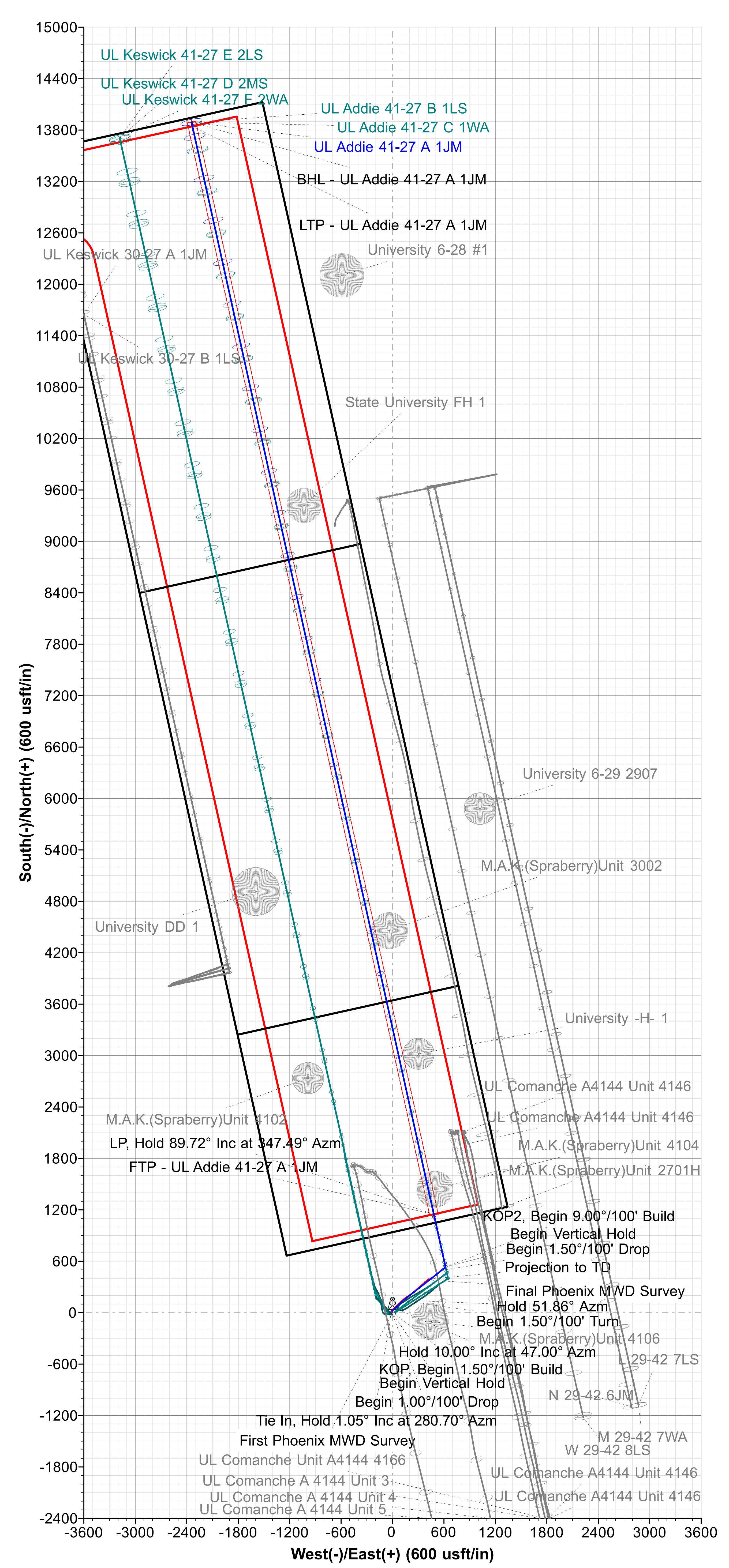
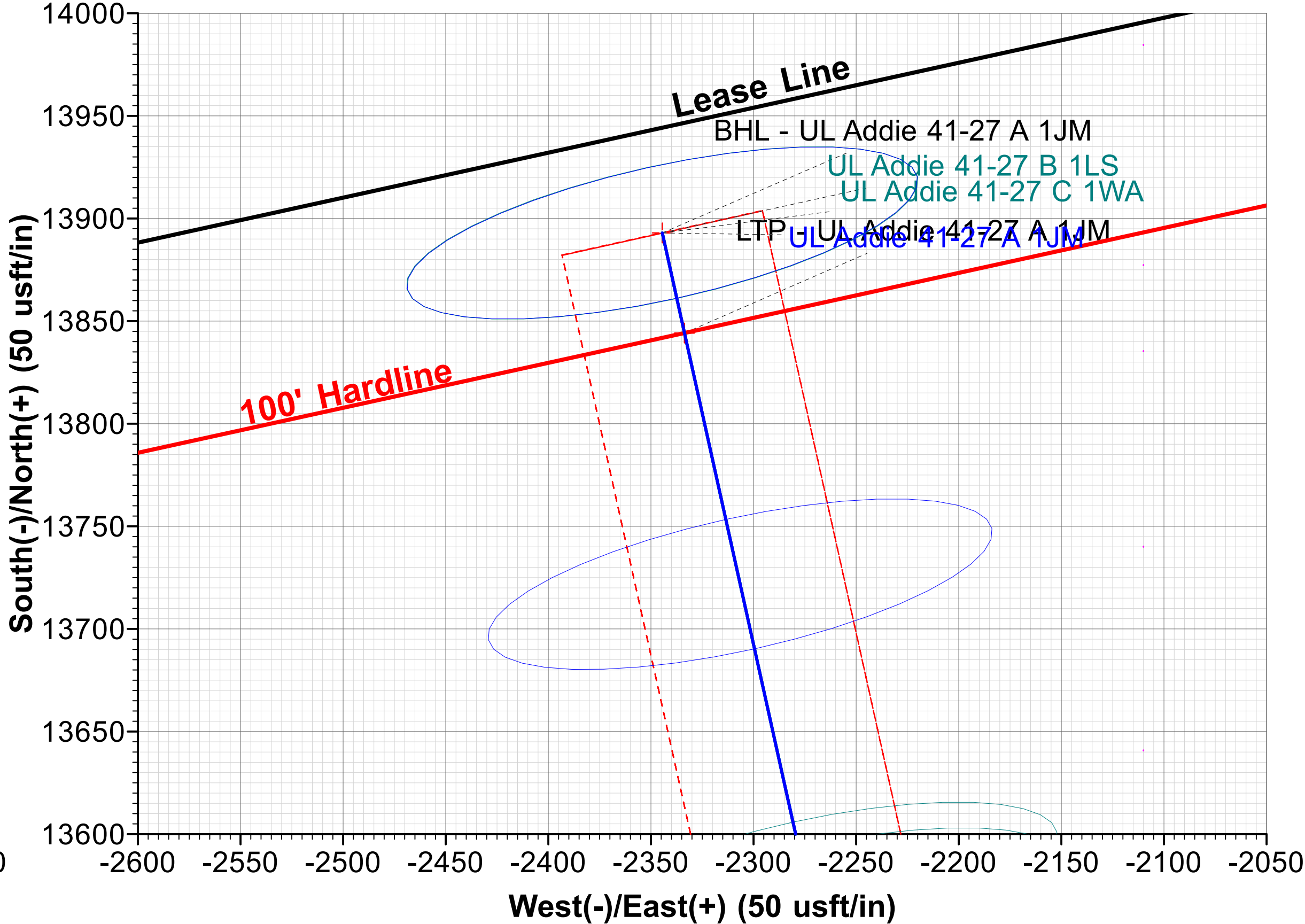
Azimuths to Grid North
True North: 2.56°
Magnetic North: 8.32°
Magnetic Field
Strength: 47403.0nT
Dip Angle: 60.04°
Date: 4/10/2023
Model: MVHD



WELL DETAILS													
Ground Level 2916.30													
+N/-S 0.00 +E/-W 0.00 Northing 321331.19 Easting 551116.42 Latitude 32° 27' 39.012999 N Longitude 102° 11' 56.523879 W													
SECTION DETAILS													
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation		
1	1766.00	1.05	280.70	1765.86	13.07	-9.91	0.00	0.000	14.90		Tie In, Hold 1.05° Inc at 280.70° Azm		
2	1866.00	1.05	280.70	1865.84	13.41	-11.71	0.00	0.000	15.62		Begin 1.00°/100' Drop		
3	1971.00	0.00	0.00	1970.83	13.58	-12.66	1.00	180.000	16.00		Begin Vertical Hold		
4	2300.00	0.00	0.00	2299.83	13.58	-12.66	0.00	0.000	16.00		KOP, Begin 1.50°/100' Build		
5	2966.67	10.00	47.00	2963.12	53.16	29.78	1.50	47.000	45.45		Hold 10.00° Inc at 47.00° Azm		
6	3700.00	10.00	47.00	3685.31	140.01	122.91	0.00	0.000	110.06		Begin 1.50°/100' Turn		
7	3756.29	10.00	51.86	3740.75	146.36	130.33	1.50	92.493	114.65		Hold 51.86° Azm		
8	7003.86	10.00	51.86	6939.00	494.56	573.83	0.00	0.000	358.52		Begin 1.50°/100' Drop		
9	7670.43	0.00	360.00	7602.19	530.38	619.46	1.50	180.000	383.61		Begin Vertical Hold		
10	8424.43	0.00	360.00	8356.19	530.38	619.46	0.00	0.000	383.61		KOP2, Begin 9.00°/100' Build		
11	9421.36	89.72	347.49	8992.80	1148.90	482.27	9.00	347.494	1017.15		LP, Hold 89.72° Inc at 347.49° Azm		
12	22475.31	89.72	347.49	9055.80	13892.97	-2344.44	0.00	0.000	14070.96	BHL - UL Addie 41-27 A 1JM	TD at 22475.31		



Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: Texas North Central 4202
Local Origin: Well UL Addie 41-27 A 1JM, Grid North
Latitude: 32° 27' 39.012999 N
Longitude: 102° 11' 56.523879 W
Grid East: 551116.42
Grid North: 321331.19
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 10-Apr-23
Magnetic Declination: 5.760°
Dip Angle from Horizontal: 60.042°
Magnetic Field Strength: 47403.04302476nT
To convert a Magnetic Direction to a Grid Direction, Add 8.323°
To convert a Magnetic Direction to a True Direction, Add 5.760° East
To convert a True Direction to a Grid Direction, Add 2.563°





PHOENIX
TECHNOLOGY SERVICES

Diamondback Energy

Martin County, Texas (NAD27 TNC)

Addie/Keswick

UL Addie 41-27 A 1JM

OH / 71712

Design: Surveys (Ensign T436)

Standard Survey Report

15 March, 2023

DIAMONDBACK
Energy

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Addie 41-27 A 1JM
Project:	Martin County, Texas (NAD27 TNC)	TVD Reference:	RKB @ 2942.80usft (Ensign T436)
Site:	Addie/Keswick	MD Reference:	RKB @ 2942.80usft (Ensign T436)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	OH / 71712	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign T436)	Database:	USA Compass

Project	Martin County, Texas (NAD27 TNC)		
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	Addie/Keswick				
Site Position:		Northing:	321,331.19 usft	Latitude:	32° 27' 39.012999 N
From:	Map	Easting:	551,116.42 usft	Longitude:	102° 11' 56.523879 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-2.563 °

Well	UL Addie 41-27 A 1JM					
Well Position	+N/-S	0.00 usft	Northing:	321,331.19 usft	Latitude:	32° 27' 39.012999 N
	+E/-W	0.00 usft	Easting:	551,116.42 usft	Longitude:	102° 11' 56.523879 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	2,916.30 usft

Wellbore	OH / 71712				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	4/10/2023	5.760	60.042	47,403.04302476

Design	Surveys (Ensign T436)				
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	347.49	

Survey Program	Date	3/15/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
166.00	5,983.00	Phoenix MWD Surveys (OH / 71712)	MWD+IFR1	OWSG MWD + IFR1	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
166.00	0.89	1.45	165.99	1.29	0.03	1.25	0.54	0.54	0.00	
First Phoenix MWD Survey										
229.00	0.96	16.52	228.99	2.28	0.20	2.19	0.40	0.11	23.92	
349.00	0.70	5.24	348.97	3.98	0.55	3.76	0.25	-0.22	-9.40	
408.00	0.70	345.46	407.97	4.69	0.49	4.47	0.41	0.00	-33.53	
470.00	0.77	18.02	469.96	5.45	0.52	5.21	0.67	0.11	52.52	
530.00	0.83	17.32	529.96	6.25	0.78	5.93	0.10	0.10	-1.17	
589.00	0.86	14.28	588.95	7.08	1.01	6.70	0.09	0.05	-5.15	
649.00	0.87	21.36	648.94	7.94	1.29	7.48	0.18	0.02	11.80	
709.00	0.72	15.44	708.94	8.73	1.56	8.19	0.28	-0.25	-9.87	

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Addie 41-27 A 1JM
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Site:	Addie/Keswick	MD Reference:	RKB @ 2942.80usft (Ensign T436)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	OH / 71712	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign T436)	Database:	USA Compass

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)
770.00	0.43	286.84	769.94	9.17	1.44	8.64	1.36	-0.48	-145.25
831.00	0.57	299.46	830.93	9.38	0.96	8.95	0.29	0.23	20.69
953.00	0.51	308.32	952.93	10.02	0.00	9.78	0.08	-0.05	7.26
1,015.00	0.46	309.62	1,014.93	10.35	-0.41	10.19	0.08	-0.08	2.10
1,078.00	0.46	305.21	1,077.92	10.65	-0.81	10.58	0.06	0.00	-7.00
1,141.00	0.52	308.29	1,140.92	10.98	-1.24	10.99	0.10	0.10	4.89
1,204.00	0.63	297.27	1,203.92	11.31	-1.77	11.43	0.25	0.17	-17.49
1,330.00	0.78	286.83	1,329.91	11.88	-3.21	12.29	0.16	0.12	-8.29
1,393.00	0.88	280.08	1,392.90	12.09	-4.09	12.69	0.22	0.16	-10.71
1,518.00	0.81	275.86	1,517.89	12.35	-5.92	13.34	0.07	-0.06	-3.38
1,645.00	0.94	281.53	1,644.87	12.65	-7.83	14.04	0.12	0.10	4.46
1,708.00	1.02	281.62	1,707.87	12.86	-8.89	14.48	0.13	0.13	0.14
1,766.00	1.05	280.70	1,765.86	13.07	-9.91	14.90	0.06	0.05	-1.59
1,886.00	1.11	285.92	1,885.83	13.59	-12.11	15.89	0.10	0.05	4.35
1,949.00	1.08	292.56	1,948.82	13.98	-13.25	16.52	0.21	-0.05	10.54
2,012.00	0.92	315.28	2,011.81	14.57	-14.15	17.29	0.67	-0.25	36.06
2,075.00	0.93	328.93	2,074.81	15.37	-14.77	18.20	0.35	0.02	21.67
2,139.00	1.11	0.03	2,138.80	16.43	-15.04	19.30	0.90	0.28	48.59
2,201.00	1.11	9.94	2,200.78	17.62	-14.94	20.44	0.31	0.00	15.98
2,265.00	0.98	16.78	2,264.77	18.76	-14.67	21.49	0.28	-0.20	10.69
2,328.00	1.35	34.47	2,327.76	19.89	-14.09	22.47	0.81	0.59	28.08
2,392.00	2.02	44.78	2,391.73	21.31	-12.87	23.59	1.14	1.05	16.11
2,454.00	2.94	48.07	2,453.67	23.15	-10.92	24.96	1.50	1.48	5.31
2,517.00	3.79	52.47	2,516.56	25.50	-8.07	26.64	1.41	1.35	6.98
2,579.00	4.58	53.97	2,578.40	28.20	-4.44	28.49	1.29	1.27	2.42
2,641.00	5.46	52.53	2,640.16	31.45	-0.10	30.72	1.43	1.42	-2.32
2,704.00	6.53	48.67	2,702.82	35.64	4.97	33.72	1.81	1.70	-6.13
2,767.00	7.58	44.35	2,765.34	40.98	10.57	37.71	1.87	1.67	-6.86
2,831.00	8.70	43.87	2,828.69	47.48	16.87	42.70	1.75	1.75	-0.75
2,893.00	9.52	44.27	2,889.91	54.54	23.70	48.11	1.33	1.32	0.65
3,018.00	10.40	47.95	3,013.03	69.50	39.29	59.33	0.87	0.70	2.94
3,081.00	10.20	47.11	3,075.01	77.10	47.60	64.96	0.40	-0.32	-1.33
3,144.00	9.95	46.06	3,137.04	84.67	55.61	70.62	0.49	-0.40	-1.67
3,206.00	9.82	45.87	3,198.12	92.07	63.26	76.18	0.22	-0.21	-0.31
3,269.00	9.99	46.18	3,260.18	99.60	71.06	81.84	0.28	0.27	0.49
3,396.00	9.97	46.23	3,385.26	114.83	86.95	93.27	0.02	-0.02	0.04
3,458.00	9.95	46.12	3,446.32	122.25	94.68	98.84	0.04	-0.03	-0.18
3,521.00	9.65	46.67	3,508.40	129.65	102.45	104.38	0.50	-0.48	0.87
3,584.00	9.35	46.89	3,570.54	136.77	110.03	109.69	0.48	-0.48	0.35
3,646.00	9.14	46.41	3,631.73	143.61	117.27	114.80	0.36	-0.34	-0.77
3,709.00	8.83	48.38	3,693.96	150.27	124.51	119.73	0.69	-0.49	3.13
3,772.00	8.87	48.78	3,756.21	156.68	131.78	124.42	0.12	0.06	0.63
3,835.00	9.59	51.95	3,818.40	163.12	139.56	129.01	1.40	1.14	5.03

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Site:	Addie/Keswick	MD Reference:	RKB @ 2942.80usft (Ensign T436)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	OH / 71712	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign T436)	Database:	USA Compass

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)
3,897.00	10.65	55.47	3,879.43	169.55	148.35	133.39	1.98	1.71	5.68
3,960.00	10.88	56.81	3,941.32	176.10	158.12	137.67	0.54	0.37	2.13
4,023.00	10.62	56.44	4,003.22	182.57	167.93	141.86	0.43	-0.41	-0.59
4,087.00	10.30	56.05	4,066.15	189.02	177.59	146.07	0.51	-0.50	-0.61
4,149.00	10.11	56.41	4,127.17	195.13	186.73	150.05	0.32	-0.31	0.58
4,212.00	10.06	57.04	4,189.20	201.18	195.95	153.96	0.19	-0.08	1.00
4,275.00	9.99	57.18	4,251.24	207.14	205.16	157.78	0.12	-0.11	0.22
4,338.00	9.69	56.63	4,313.31	213.02	214.18	161.56	0.50	-0.48	-0.87
4,401.00	9.80	51.66	4,375.40	219.26	222.81	165.79	1.35	0.17	-7.89
4,464.00	9.62	49.47	4,437.50	226.00	231.02	170.60	0.65	-0.29	-3.48
4,527.00	8.68	49.12	4,499.70	232.54	238.61	175.33	1.49	-1.49	-0.56
4,590.00	7.79	49.15	4,562.05	238.44	245.44	179.62	1.41	-1.41	0.05
4,652.00	7.40	49.23	4,623.50	243.80	251.64	183.50	0.63	-0.63	0.13
4,715.00	7.99	49.10	4,685.94	249.31	258.02	187.50	0.94	0.94	-0.21
4,778.00	8.99	49.91	4,748.24	255.35	265.10	191.86	1.60	1.59	1.29
4,840.00	9.24	49.31	4,809.46	261.71	272.58	196.46	0.43	0.40	-0.97
4,903.00	9.85	49.24	4,871.59	268.53	280.49	201.40	0.97	0.97	-0.11
4,966.00	10.15	49.06	4,933.63	275.69	288.77	206.59	0.48	0.48	-0.29
5,029.00	10.07	50.49	4,995.65	282.83	297.21	211.73	0.42	-0.13	2.27
5,091.00	10.10	49.77	5,056.70	289.79	305.54	216.72	0.21	0.05	-1.16
5,154.00	10.16	48.73	5,118.71	297.02	313.94	221.97	0.31	0.10	-1.65
5,217.00	10.03	47.78	5,180.74	304.37	322.18	227.36	0.34	-0.21	-1.51
5,280.00	10.03	48.09	5,242.78	311.72	330.32	232.77	0.09	0.00	0.49
5,343.00	10.12	49.07	5,304.80	319.01	338.59	238.10	0.31	0.14	1.56
5,406.00	10.18	49.34	5,366.82	326.27	346.99	243.36	0.12	0.10	0.43
5,531.00	9.58	48.72	5,489.96	340.33	363.19	253.58	0.49	-0.48	-0.50
5,594.00	9.59	47.96	5,552.08	347.30	371.03	258.69	0.20	0.02	-1.21
5,657.00	9.87	48.34	5,614.18	354.40	378.96	263.90	0.46	0.44	0.60
5,719.00	10.03	48.35	5,675.25	361.52	386.96	269.12	0.26	0.26	0.02
5,782.00	9.93	48.32	5,737.29	368.78	395.12	274.44	0.16	-0.16	-0.05
5,846.00	9.92	48.72	5,800.33	376.09	403.38	279.78	0.11	-0.02	0.63
5,897.00	9.69	49.14	5,850.59	381.79	409.93	283.93	0.47	-0.45	0.82
Final Phoenix MWD Survey									
5,983.00	9.69	49.14	5,935.36	391.26	420.88	290.81	0.00	0.00	0.00
Projection to TD									

Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Addie 41-27 A 1JM
Project:	Martin County, Texas (NAD27 TNC)	TVD Reference:	RKB @ 2942.80usft (Ensign T436)
Site:	Addie/Keswick	MD Reference:	RKB @ 2942.80usft (Ensign T436)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	OH / 71712	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign T436)	Database:	USA Compass

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
166.00	165.99	1.29	0.03	First Phoenix MWD Survey
5,897.00	5,850.59	381.79	409.93	Final Phoenix MWD Survey
5,983.00	5,935.36	391.26	420.88	Projection to TD

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 71712

Client: Diamondback Energy

County & State: Martin County, Texas

Well: UL Addie 41-27 A 1JM

API No: 42-317-44621

Proposed Direction: 347.49°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	Surface
Data Source Company:						Phoenix

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
22-Feb-23	166 ft	0.89°	1.45°

Last Survey Date	Last Survey Depth	INC	AZM
9-Mar-23	5,897 ft	9.69°	49.14°

Survey Instrument Type

P360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
9-Mar-23	5,983 ft	9.69°	49.14°

CORRECTION INFORMATION

Magnetic Declination Used	5.76 degrees
Grid Convergence Used	-2.56 degrees

Corrected to True/Grid North

Grid

Total Correction	8.32 degrees
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Raymond Brown

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

Signature

March 9, 2023

Date





Diamondback Energy

Martin County, Texas (Nad 27)

UL Surveys, Sec 41, A-U10, Blk 6

UL Addie 41-27 A 1JM

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

12 June, 2023



KLX Directional Drilling, INC.

11390 FM 830

Willis, TX 77318

Phone: (936) 856-4332

Fax: (936) 856-8678



6/12/2023

Railroad Commission of Texas
Oil and Gas Division
1701 North Congress Avenue
Austin, Texas 78711

Attention: Pam Johns

Re: Diamondback E&P LLC
UL Addie 41-27 A 1JM
RRC Lease/ID No.
UL
Abstract No. U10
Martin County, Texas
API No. 42-317-44621

Enclosed, please find the original and one (1) copy of the survey performed on the referenced well by KLX Directional Drilling, Inc. (P5#100184). Other information required by your office is as follows:

Name of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Leon Wong	Original Hole	5895.5' – 22,463'	06/05/2023 - 06/12/2023	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Kristopher Ray
Regulatory Compliance Manager
KLX Directional Drilling, Inc.

Enclosures

Cc: Diamondback E&P LLC



KLX Directional Drilling

KLX Survey Certification Report



Company:	Diamondback Energy	Local Co-ordinate Reference:	Well UL Addie 41-27 A 1JM
Project:	Martin County, Texas (Nad 27)	TVD Reference:	RKB @ 2941.3usft (Noram #32)
Site:	UL Surveys, Sec 41, A-U10, Blk 6	MD Reference:	RKB @ 2941.3usft (Noram #32)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Martin County, Texas (Nad 27)		
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	UL Surveys, Sec 41, A-U10, Blk 6		
Site Position:		Northing:	321,047.00 usft
From:	Map	Easting:	547,904.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 27' 34.780 N
		Longitude:	102° 12' 33.832 W
		Grid Convergence:	-2.57 °

Well	UL Addie 41-27 A 1JM		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 27' 39.013 N
		Longitude:	102° 11' 56.524 W
		Ground Level:	2,916.3 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	6/3/2023	5.74	60.02	47,404.00000000

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
				0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	347.49

Survey Program	Date	6/12/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
164.5	5,895.5	Phoenix MWD (Wellbore #1)	MWD+IFR1	OWSG MWD + IFR1
5,989.0	22,463.0	KLX MWD - Corrected (Wellbore #1)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,895.5	9.69	49.14	5,849.1	381.8	409.9	560.2	47.04
Tie-in @ 5895.5' MD / 5849.1' TVD							
5,989.0	9.59	49.02	5,941.3	392.0	421.8	575.8	47.09
6,085.0	9.48	48.80	6,035.9	402.5	433.7	591.7	47.14
6,180.0	9.17	47.90	6,129.7	412.7	445.2	607.1	47.17
6,296.0	8.33	47.88	6,244.3	424.6	458.3	624.8	47.19
6,392.0	8.51	44.00	6,339.3	434.3	468.4	638.8	47.16
6,487.0	7.74	46.94	6,433.3	443.7	478.0	652.2	47.13
6,583.0	9.51	50.48	6,528.3	453.2	488.8	666.6	47.17
6,678.0	9.05	51.57	6,622.0	462.8	500.7	681.9	47.25
6,773.0	6.74	48.43	6,716.1	471.2	510.8	694.9	47.31



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Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
6,869.0	5.31	48.33	6,811.6	477.9	518.3	705.0	47.32	
6,965.0	5.03	52.85	6,907.2	483.4	525.0	713.6	47.36	
7,060.0	5.63	50.44	7,001.8	488.9	531.9	722.4	47.41	
7,155.0	4.99	55.42	7,096.4	494.2	538.9	731.2	47.48	
7,250.0	5.91	41.32	7,190.9	500.2	545.5	740.1	47.48	
7,346.0	5.74	46.87	7,286.4	507.2	552.3	749.8	47.44	
7,441.0	4.54	49.45	7,381.1	512.9	558.6	758.3	47.44	
7,537.0	4.50	52.21	7,476.8	517.7	564.5	765.9	47.48	
7,633.0	5.78	51.51	7,572.4	523.0	571.2	774.5	47.52	
7,728.0	4.78	43.10	7,667.0	528.8	577.7	783.2	47.53	
7,823.0	5.72	4.05	7,761.6	536.5	580.7	790.6	47.27	
7,919.0	4.23	9.17	7,857.2	544.7	581.6	796.9	46.88	
8,013.0	5.14	57.18	7,951.0	550.4	585.7	803.8	46.78	
8,109.0	2.81	62.46	8,046.7	553.8	591.4	810.3	46.88	
8,204.0	1.05	100.29	8,141.7	554.8	594.3	813.0	46.97	
8,300.0	0.89	88.59	8,237.7	554.6	595.9	814.1	47.06	
8,395.0	4.19	1.13	8,332.6	558.1	596.7	817.1	46.92	
8,490.0	11.73	344.60	8,426.6	570.9	594.2	824.1	46.15	
8,585.0	16.37	349.39	8,518.7	593.4	589.2	836.2	44.80	
8,680.0	20.11	342.71	8,608.9	622.2	581.9	851.9	43.08	
8,775.0	24.43	342.95	8,696.8	656.6	571.3	870.3	41.03	
8,870.0	28.60	350.38	8,781.9	697.8	561.7	895.8	38.83	
8,965.0	36.90	351.49	8,861.7	748.5	553.7	931.0	36.49	
9,041.0	44.46	350.23	8,919.3	797.4	545.8	966.3	34.39	
9,136.0	65.70	352.24	8,973.4	873.9	534.1	1,024.2	31.43	
9,251.0	85.80	346.53	9,001.5	982.8	513.5	1,108.9	27.58	
9,347.0	88.53	345.82	9,006.3	1,075.9	490.6	1,182.5	24.51	
9,442.0	88.02	345.55	9,009.1	1,167.9	467.1	1,257.9	21.80	
9,537.0	88.08	346.26	9,012.4	1,260.0	444.0	1,336.0	19.41	
9,633.0	90.07	346.33	9,013.9	1,353.3	421.2	1,417.3	17.29	
9,728.0	90.91	346.24	9,013.1	1,445.6	398.7	1,499.5	15.42	
9,823.0	91.52	345.43	9,011.1	1,537.6	375.5	1,582.8	13.72	
9,919.0	88.92	347.55	9,010.7	1,631.0	353.0	1,668.7	12.21	
10,014.0	88.41	347.40	9,012.9	1,723.7	332.4	1,755.5	10.92	
10,110.0	87.94	347.69	9,016.0	1,817.4	311.7	1,843.9	9.73	
10,205.0	88.13	349.45	9,019.3	1,910.4	292.9	1,932.8	8.72	
10,300.0	87.85	349.47	9,022.6	2,003.8	275.6	2,022.6	7.83	
10,396.0	89.73	349.13	9,024.6	2,098.1	257.7	2,113.9	7.00	
10,492.0	91.75	348.91	9,023.4	2,192.3	239.5	2,205.4	6.23	
10,587.0	92.59	348.51	9,019.8	2,285.4	220.9	2,296.1	5.52	
10,682.0	93.26	348.04	9,014.9	2,378.3	201.6	2,386.8	4.85	
10,778.0	92.48	348.23	9,010.1	2,472.1	181.9	2,478.8	4.21	
10,873.0	93.82	348.34	9,004.9	2,565.0	162.6	2,570.2	3.63	
10,969.0	91.55	348.64	9,000.4	2,659.0	143.5	2,662.8	3.09	



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
11,065.0	90.07	348.50	8,999.1	2,753.1	124.5	2,755.9	2.59	
11,160.0	88.95	348.55	8,999.9	2,846.2	105.6	2,848.1	2.12	
11,255.0	89.23	349.16	9,001.4	2,939.4	87.2	2,940.6	1.70	
11,350.0	90.40	349.68	9,001.7	3,032.7	69.8	3,033.5	1.32	
11,446.0	91.24	348.96	9,000.3	3,127.1	52.0	3,127.5	0.95	
11,541.0	89.06	347.50	9,000.1	3,220.1	32.6	3,220.2	0.58	
11,637.0	88.61	347.16	9,002.0	3,313.7	11.6	3,313.7	0.20	
11,732.0	88.78	347.31	9,004.2	3,406.3	-9.4	3,406.3	359.84	
11,828.0	88.78	347.19	9,006.2	3,499.9	-30.6	3,500.1	359.50	
11,923.0	88.81	346.81	9,008.2	3,592.5	-52.0	3,592.9	359.17	
12,019.0	89.20	346.91	9,009.9	3,686.0	-73.8	3,686.7	358.85	
12,114.0	89.03	346.51	9,011.3	3,778.4	-95.6	3,779.6	358.55	
12,210.0	89.53	346.41	9,012.6	3,871.7	-118.1	3,873.5	358.25	
12,305.0	90.35	346.71	9,012.7	3,964.1	-140.2	3,966.6	357.97	
12,401.0	90.01	346.45	9,012.4	4,057.5	-162.5	4,060.7	357.71	
12,496.0	92.28	346.21	9,010.5	4,149.8	-184.9	4,153.9	357.45	
12,592.0	92.70	345.83	9,006.3	4,242.8	-208.1	4,247.9	357.19	
12,687.0	92.87	345.29	9,001.7	4,334.7	-231.7	4,340.9	356.94	
12,782.0	93.71	344.89	8,996.2	4,426.4	-256.1	4,433.8	356.69	
12,878.0	92.08	345.97	8,991.4	4,519.2	-280.3	4,527.9	356.45	
12,973.0	91.55	347.30	8,988.4	4,611.6	-302.2	4,621.4	356.25	
13,069.0	92.67	346.76	8,984.8	4,705.0	-323.7	4,716.2	356.06	
13,164.0	94.13	346.13	8,979.2	4,797.2	-346.0	4,809.7	355.88	
13,260.0	92.03	346.45	8,974.0	4,890.4	-368.7	4,904.2	355.69	
13,356.0	88.61	347.15	8,973.5	4,983.8	-390.6	4,999.1	355.52	
13,451.0	87.91	347.60	8,976.4	5,076.5	-411.4	5,093.1	355.37	
13,547.0	88.05	348.97	8,979.8	5,170.4	-430.8	5,188.3	355.24	
13,642.0	89.65	349.82	8,981.7	5,263.8	-448.3	5,282.8	355.13	
13,738.0	90.77	350.01	8,981.3	5,358.3	-465.1	5,378.4	355.04	
13,833.0	88.86	348.70	8,981.6	5,451.6	-482.7	5,473.0	354.94	
13,928.0	88.69	348.63	8,983.7	5,544.8	-501.3	5,567.4	354.83	
14,024.0	88.53	348.26	8,986.0	5,638.8	-520.6	5,662.8	354.73	
14,120.0	88.33	347.64	8,988.6	5,732.6	-540.6	5,758.1	354.61	
14,215.0	88.67	347.60	8,991.1	5,825.4	-561.0	5,852.3	354.50	
14,311.0	89.73	347.74	8,992.4	5,919.2	-581.5	5,947.7	354.39	
14,407.0	87.71	347.52	8,994.6	6,012.9	-602.0	6,043.0	354.28	
14,502.0	88.47	347.91	8,997.8	6,105.7	-622.2	6,137.3	354.18	
14,597.0	88.30	347.45	9,000.4	6,198.5	-642.5	6,231.7	354.08	
14,693.0	88.08	347.02	9,003.5	6,292.0	-663.7	6,326.9	353.98	
14,789.0	88.13	346.84	9,006.6	6,385.5	-685.4	6,422.2	353.87	
14,884.0	88.24	346.56	9,009.6	6,477.9	-707.2	6,516.4	353.77	
14,980.0	87.74	346.02	9,013.0	6,571.1	-730.0	6,611.5	353.66	
15,075.0	87.71	346.09	9,016.8	6,663.2	-752.8	6,705.6	353.55	
15,171.0	87.24	345.76	9,021.0	6,756.3	-776.2	6,800.7	353.45	



KLX Directional Drilling

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
15,266.0	87.09	345.61	9,025.7	6,848.2	-799.6	6,894.7	353.34	
15,362.0	86.98	347.26	9,030.7	6,941.4	-822.1	6,989.9	353.25	
15,457.0	87.10	347.94	9,035.6	7,034.1	-842.5	7,084.3	353.17	
15,553.0	88.64	347.98	9,039.2	7,127.9	-862.5	7,179.9	353.10	
15,648.0	89.23	347.23	9,040.9	7,220.6	-882.9	7,274.4	353.03	
15,743.0	89.73	346.75	9,041.8	7,313.2	-904.3	7,368.9	352.95	
15,838.0	90.54	346.47	9,041.6	7,405.6	-926.3	7,463.3	352.87	
15,934.0	89.95	348.44	9,041.1	7,499.3	-947.1	7,558.9	352.80	
16,029.0	89.17	347.75	9,041.9	7,592.3	-966.7	7,653.6	352.74	
16,125.0	87.66	349.27	9,044.5	7,686.3	-985.8	7,749.3	352.69	
16,221.0	87.35	348.99	9,048.7	7,780.5	-1,003.9	7,845.0	352.65	
16,316.0	86.96	348.68	9,053.4	7,873.6	-1,022.3	7,939.7	352.60	
16,412.0	86.76	348.30	9,058.7	7,967.5	-1,041.4	8,035.3	352.55	
16,507.0	86.96	348.09	9,063.9	8,060.4	-1,060.8	8,129.9	352.50	
16,603.0	88.11	348.61	9,068.0	8,154.3	-1,080.2	8,225.5	352.45	
16,698.0	90.12	348.94	9,069.5	8,247.5	-1,098.7	8,320.3	352.41	
16,794.0	91.10	348.66	9,068.5	8,341.6	-1,117.3	8,416.1	352.37	
16,889.0	92.31	348.44	9,065.6	8,434.7	-1,136.2	8,510.9	352.33	
16,984.0	90.49	348.05	9,063.3	8,527.7	-1,155.5	8,605.6	352.28	
17,080.0	90.77	347.93	9,062.3	8,621.6	-1,175.5	8,701.3	352.24	
17,176.0	89.31	347.71	9,062.2	8,715.4	-1,195.7	8,797.0	352.19	
17,271.0	88.97	347.16	9,063.6	8,808.1	-1,216.4	8,891.7	352.14	
17,367.0	89.17	347.02	9,065.2	8,901.7	-1,237.9	8,987.3	352.08	
17,462.0	90.32	346.79	9,065.6	8,994.2	-1,259.4	9,081.9	352.03	
17,557.0	90.43	346.64	9,065.0	9,086.7	-1,281.2	9,176.5	351.97	
17,652.0	87.88	347.68	9,066.4	9,179.3	-1,302.3	9,271.2	351.92	
17,747.0	88.02	347.67	9,069.8	9,272.0	-1,322.6	9,365.9	351.88	
17,843.0	87.68	347.41	9,073.4	9,365.7	-1,343.3	9,461.5	351.84	
17,938.0	88.83	347.55	9,076.3	9,458.4	-1,363.9	9,556.2	351.79	
18,033.0	91.19	348.49	9,076.3	9,551.3	-1,383.6	9,651.0	351.76	
18,128.0	89.11	348.68	9,076.0	9,644.4	-1,402.4	9,745.8	351.73	
18,224.0	88.75	348.03	9,077.8	9,738.4	-1,421.8	9,841.7	351.69	
18,319.0	90.35	349.55	9,078.5	9,831.6	-1,440.2	9,936.5	351.67	
18,415.0	90.66	348.75	9,077.7	9,925.9	-1,458.3	10,032.4	351.64	
18,510.0	91.10	348.65	9,076.2	10,019.0	-1,476.9	10,127.3	351.61	
18,606.0	89.06	346.37	9,076.1	10,112.7	-1,497.7	10,223.0	351.58	
18,701.0	89.73	346.49	9,077.1	10,205.1	-1,520.0	10,317.7	351.53	
18,797.0	89.95	345.59	9,077.4	10,298.3	-1,543.1	10,413.2	351.48	
18,892.0	90.60	345.18	9,076.9	10,390.2	-1,567.1	10,507.7	351.42	
18,988.0	91.44	344.79	9,075.2	10,482.9	-1,592.0	10,603.1	351.36	
19,083.0	89.95	345.65	9,074.1	10,574.7	-1,616.2	10,697.5	351.31	
19,179.0	89.70	345.54	9,074.4	10,667.7	-1,640.1	10,793.0	351.26	
19,274.0	90.21	345.29	9,074.4	10,759.7	-1,664.0	10,887.6	351.21	
19,369.0	89.67	347.60	9,074.5	10,852.0	-1,686.3	10,982.2	351.17	



KLX Directional Drilling

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Project:	Martin County, Texas (Nad 27)	TVD Reference:	RKB @ 2941.3usft (Noram #32)
Site:	UL Surveys, Sec 41, A-U10, Blk 6	MD Reference:	RKB @ 2941.3usft (Noram #32)
Well:	UL Addie 41-27 A 1JM	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
19,465.0	90.09	347.66	9,074.7	10,945.8	-1,706.8	11,078.0	351.14	
19,560.0	90.15	347.25	9,074.5	11,038.5	-1,727.5	11,172.9	351.11	
19,656.0	90.71	347.03	9,073.8	11,132.1	-1,748.8	11,268.6	351.07	
19,751.0	91.69	346.63	9,071.8	11,224.6	-1,770.5	11,363.3	351.04	
19,847.0	89.48	347.29	9,070.8	11,318.1	-1,792.1	11,459.1	351.00	
19,942.0	89.06	347.45	9,072.0	11,410.8	-1,812.9	11,553.9	350.97	
20,038.0	89.70	347.34	9,073.1	11,504.5	-1,833.8	11,649.7	350.94	
20,134.0	90.04	347.18	9,073.3	11,598.1	-1,855.0	11,745.5	350.91	
20,229.0	90.60	346.54	9,072.8	11,690.6	-1,876.6	11,840.3	350.88	
20,324.0	91.16	346.52	9,071.3	11,783.0	-1,898.7	11,935.0	350.85	
20,420.0	89.87	348.64	9,070.5	11,876.7	-1,919.4	12,030.8	350.82	
20,515.0	89.95	347.45	9,070.6	11,969.7	-1,939.1	12,125.7	350.80	
20,610.0	90.04	347.37	9,070.6	12,062.4	-1,959.8	12,220.5	350.77	
20,705.0	88.47	348.34	9,071.8	12,155.2	-1,979.7	12,315.4	350.75	
20,800.0	88.61	348.19	9,074.3	12,248.2	-1,999.1	12,410.3	350.73	
20,895.0	89.11	348.04	9,076.2	12,341.2	-2,018.6	12,505.2	350.71	
20,991.0	89.48	347.84	9,077.3	12,435.0	-2,038.7	12,601.0	350.69	
21,086.0	89.81	347.52	9,077.9	12,527.8	-2,058.9	12,695.9	350.67	
21,181.0	90.40	347.30	9,077.8	12,620.6	-2,079.7	12,790.8	350.64	
21,276.0	90.01	348.34	9,077.4	12,713.4	-2,099.7	12,885.6	350.62	
21,372.0	89.20	348.86	9,078.1	12,807.5	-2,118.7	12,981.6	350.61	
21,467.0	89.67	348.77	9,079.0	12,900.7	-2,137.1	13,076.5	350.59	
21,563.0	90.26	348.32	9,079.1	12,994.8	-2,156.2	13,172.5	350.58	
21,658.0	90.46	347.86	9,078.5	13,087.8	-2,175.8	13,267.4	350.56	
21,754.0	90.71	347.49	9,077.5	13,181.5	-2,196.3	13,363.3	350.54	
21,849.0	91.41	347.18	9,075.7	13,274.2	-2,217.1	13,458.1	350.52	
21,944.0	89.59	348.55	9,074.9	13,367.1	-2,237.1	13,553.0	350.50	
22,040.0	89.65	349.04	9,075.5	13,461.2	-2,255.7	13,648.9	350.49	
22,136.0	90.12	348.84	9,075.7	13,555.5	-2,274.1	13,744.9	350.48	
22,231.0	90.60	348.66	9,075.1	13,648.6	-2,292.7	13,839.9	350.46	
22,326.0	91.05	348.42	9,073.8	13,741.7	-2,311.5	13,934.8	350.45	
22,401.0	91.55	348.00	9,072.1	13,815.1	-2,326.9	14,009.7	350.44	
22,463.0	91.55	348.00	9,070.4	13,875.8	-2,339.7	14,071.6	350.43	
TD @ 22463.0' MD / 9070.4' TVD								

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,895.5	5,849.1	381.8	409.9	Tie-in @ 5895.5' MD / 5849.1' TVD
22,463.0	9,070.4	13,875.8	-2,339.7	TD @ 22463.0' MD / 9070.4' TVD

Checked By: _____	Approved By: _____	Date: _____
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KLX Directional Drilling, INC.

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



June 12, 2023

Railroad Commission of Texas
Oil and Gas Division
1701 North Congress Avenue
Austin, Texas 78711

I Kristopher Ray, certify that I am employed by KLX Directional Drilling, Inc. That I did on the day(s) of 6/5/2023 through 6/12/2023, conduct or supervise the taking of an MWD Survey from a depth of 5895.5' to a depth of 22,463'; that the data is true, correct, complete, and within the limitations of the tool as set forth by KLX Directional Drilling.

I certify 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 Addie 41-27 A 1JM, API No. 42-317-44621 in Martin County, Texas. I certify that I have reviewed this report and find that it conforms to the principles and procedures as set forth by KLX Directional Drilling, Inc.

Sincerely,

Kristopher Ray
Regulatory Compliance Manager
KLX Directional Drilling, Inc.