



February 13, 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 Stanolind 30-27 C 1WA  
Martin County, TX  
API #42-317-44334  
Job No. 71505

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	
Michael LeJeune	1WA	163	5,879	1/19/23	2/10/23	MWD

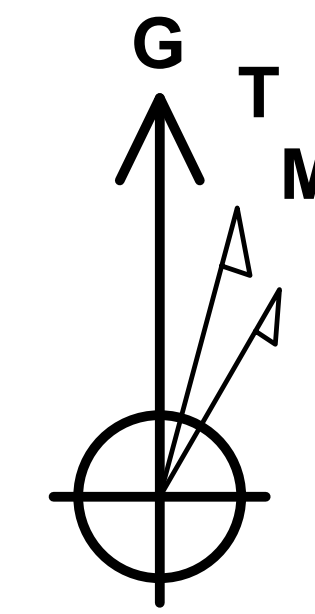
A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

*Brittany Carley*

Brittany Carley  
Operations Administrator



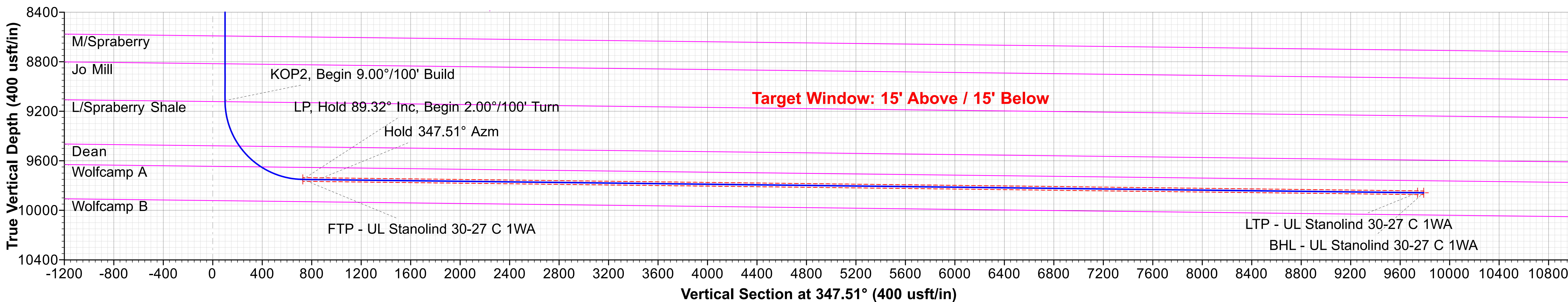
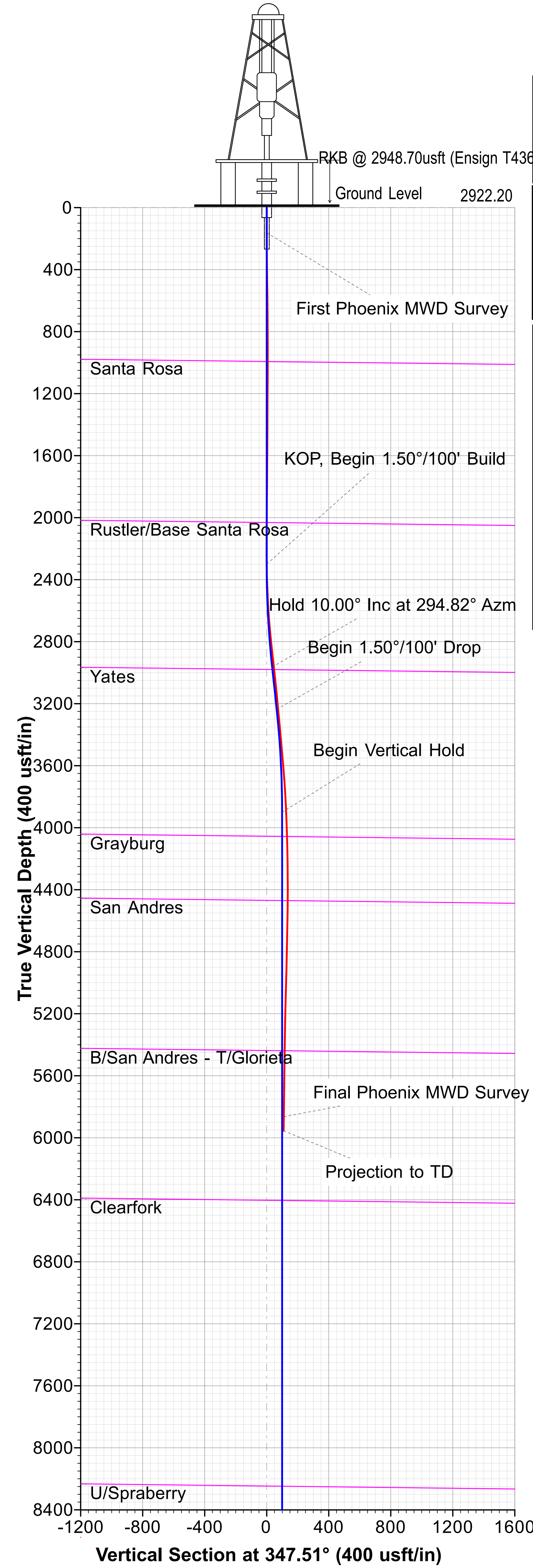


Azimuths to Grid North  
True North: 2.57°  
Magnetic North: 8.31°  
Magnetic Field  
Strength: 47425.4nT  
Dip Angle: 60.04°  
Date: 3/6/2023  
Model: MVHD

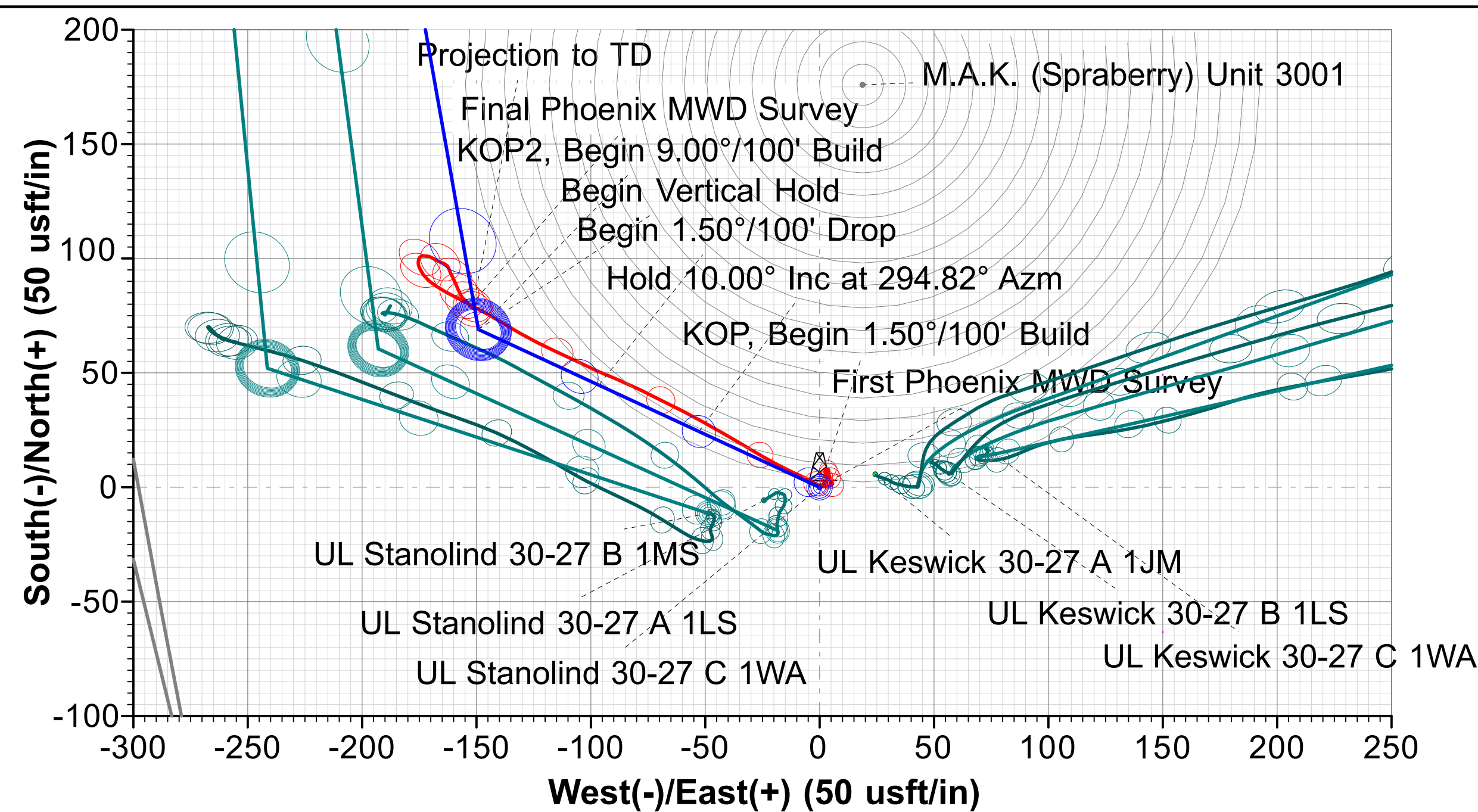
Map System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone Name: Texas North Central 4202  
Local Origin: Well UL Stanolind 30-27 C 1WA, Grid North  
Latitude: 32° 28' 15.468408 N  
Longitude: 102° 12' 29.281771 W  
Grid East: 548477.66  
Grid North: 325137.02  
Scale Factor: 1.000

Geomagnetic Model: MVHD  
Sample Date: 06-Mar-23  
Magnetic Declination: 5.747°  
Dip Angle from Horizontal: 60.037°  
Magnetic Field Strength: 47425.40394624nT

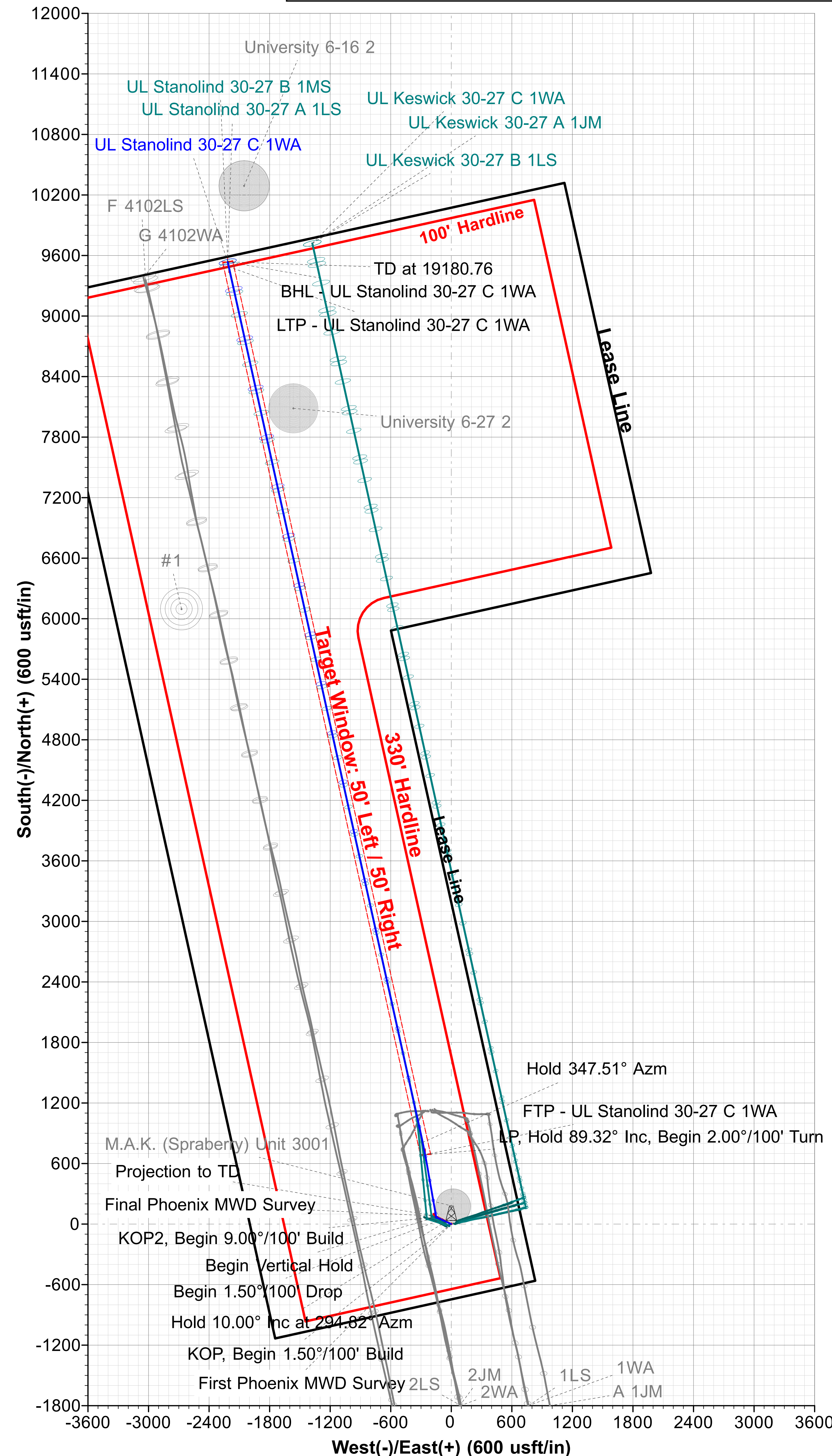
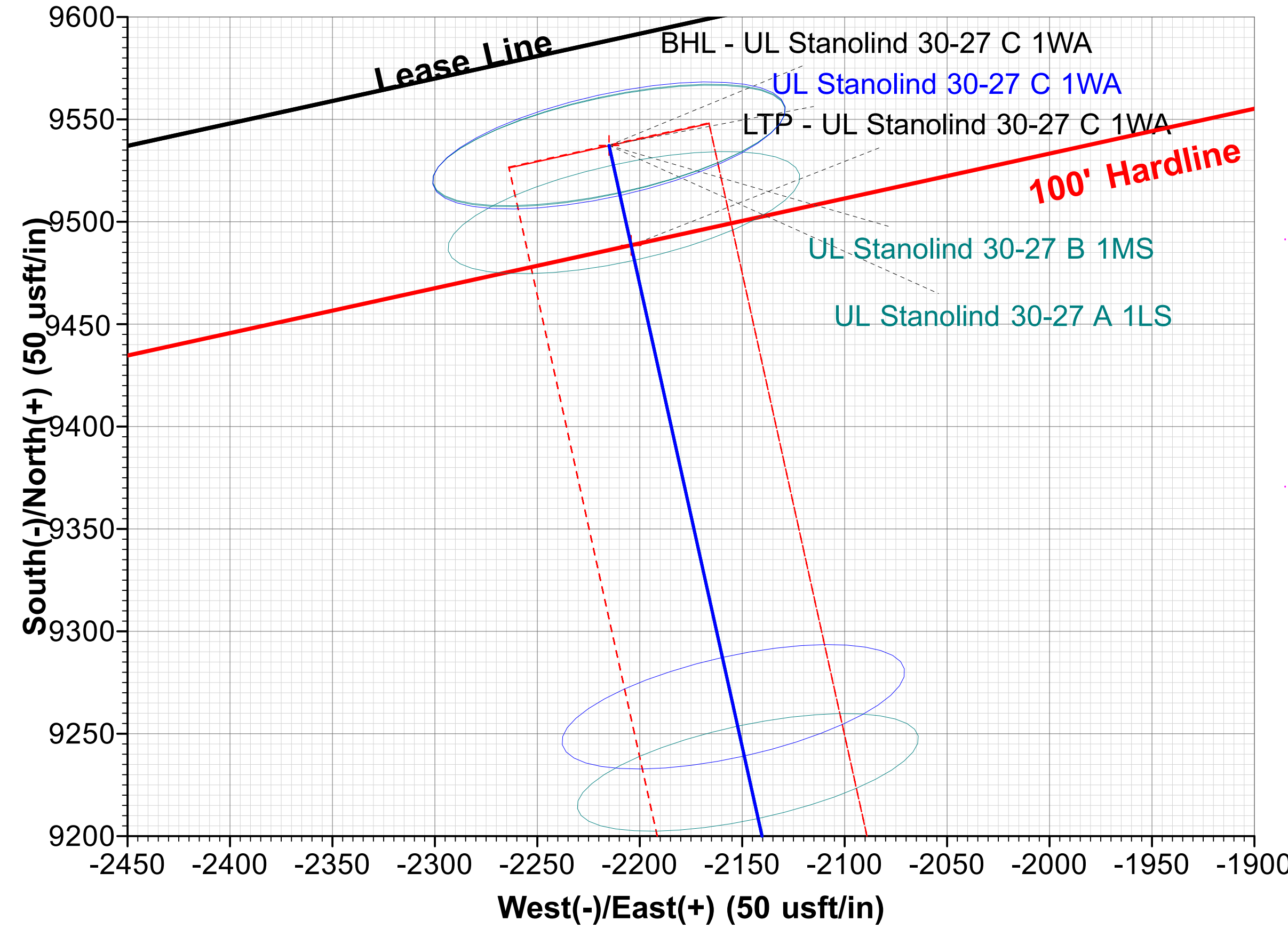
To convert a Magnetic Direction to a Grid Direction, Add 8.315°  
To convert a Magnetic Direction to a True Direction, Add 5.747° East  
To convert a True Direction to a Grid Direction, Add 2.568°



WELL DETAILS											
		Ground Level		2922.20							
		+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
		0.00	0.00	325137.02	548477.66	32° 28' 15.468408 N	102° 12' 29.281771 W				
DESIGN TARGET DETAILS											
Name		TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
FTP - UL Stanolind 30-27 C 1WA		9750.70	689.05	-255.76	325826.07	548221.90	32° 28' 22.166892 N	102° 12' 32.624678 W			
LTP - UL Stanolind 30-27 C 1WA		9858.10	9488.47	-2204.20	334625.49	546273.46	32° 29' 48.292311 N	102° 12' 59.956575 W			
BHL - UL Stanolind 30-27 C 1WA		9858.70	9537.29	-2214.99	334674.31	546262.67	32° 29' 48.770148 N	102° 13' 0.108022 W			
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 1.50°/100' Build
3	2966.91	10.00	294.82	2963.53	24.38	-52.71	1.50	294.822	35.20		Hold 10.00° Inc at 294.82° Azm
4	3244.38	10.00	294.82	3236.77	44.61	-96.45	0.00	0.000	64.42		Begin 1.50°/100' Drop
5	3911.28	0.00	360.00	3900.30	68.99	-149.16	1.50	180.000	99.62		Begin Vertical Hold
6	9125.11	0.00	360.00	9114.12	68.99	-149.16	0.00	0.000	99.62		KOP2, Begin 9.00°/100' Build
7	10117.52	89.32	350.00	9750.70	688.47	-258.39	9.00	350.000	728.06		LP, Hold 89.32° Inc, Begin 2.00°/100' Turn
8	10241.78	89.32	347.51	9752.18	810.32	-282.61	2.00	-90.015	852.27		Hold 347.51° Azm
9	19180.76	89.32	347.51	9858.70	9537.29	-2214.99	0.00	0.000	9790.61	BHL - UL Stanolind 30-27 C 1WA	TD at 19180.76



FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
992.70	992.70	Santa Rosa	0.680	347.51	
2031.70	2031.70	Rustler/Base Santa Rosa	0.680	347.51	
2980.14	2983.78	Yates	0.680	347.51	
4056.88	4067.87	Grayburg	0.680	347.51	
4469.88	4480.87	San Andres	0.680	347.51	
5438.88	5449.87	B/San Andres - T/Glorieta	0.680	347.51	
6404.88	6415.87	Clearfork	0.680	347.51	
8247.88	8258.87	U/Spraberry	0.680	347.51	
8591.88	8602.87	M/Spraberry	0.680	347.51	
8816.88	8827.87	Jo Mill	0.680	347.51	
9122.88	9133.87	L/Spraberry Shale	0.680	347.51	
9481.26	9516.43	Dean	0.680	347.51	
9649.34	9760.85	Wolfcamp A	0.680	347.51	







**PHOENIX**  
TECHNOLOGY SERVICES

# **Diamondback Energy**

**Martin County, Texas (NAD27 TNC)**

**Keswick/Stanolind**

**UL Stanolind 30-27 C 1WA**

**OH / 71505**

**Design: Surveys (Ensign T436)**

## **Standard Survey Report**

**13 February, 2023**

***DIAMONDBACK***  
**Energy**

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T436)	<b>Database:</b>	USA Compass

<b>Project</b>	Martin County, Texas (NAD27 TNC)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Texas North Central 4202		

<b>Site</b>	Keswick/Stanolind		
<b>Site Position:</b>		<b>Northing:</b>	325,142.70 usft
<b>From:</b>	Map	<b>Easting:</b>	548,502.02 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 28' 15.535360 N
		<b>Longitude:</b>	102° 12' 29.000673 W
		<b>Grid Convergence:</b>	-2.568 °

<b>Well</b>	UL Stanolind 30-27 C 1WA		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 325,137.02 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 548,477.66 usft
<b>Position Uncertainty</b>	1.00 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	32° 28' 15.468408 N
		<b>Longitude:</b>	102° 12' 29.281771 W
		<b>Ground Level:</b>	2,922.20 usft

<b>Wellbore</b>	OH / 71505		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>
	MVHD	3/6/2023	5.747
			<b>Dip Angle (°)</b> 60.037
			<b>Field Strength (nT)</b> 47,425.40394623

<b>Design</b>	Surveys (Ensign T436)		
<b>Audit Notes:</b>			
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL
		<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>
	0.00	0.00	0.00
			<b>Direction (°)</b> 347.51

<b>Survey Program</b>	<b>Date</b>	2/13/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
163.00	5,969.00	Phoenix MWD Surveys (OH / 71505)	MWD+IFR1	OWSG MWD + IFR1

<b>Survey</b>									
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	0.70	50.41	163.00	0.63	0.77	0.45	0.43	0.43	0.00
<b>First Phoenix MWD Survey</b>									
286.00	0.81	51.75	285.99	1.65	2.03	1.17	0.09	0.09	1.09
347.00	0.79	39.09	346.98	2.24	2.63	1.62	0.29	-0.03	-20.75
468.00	0.79	354.21	467.97	3.72	3.07	2.97	0.50	0.00	-37.09
528.00	0.76	351.46	527.96	4.53	2.97	3.78	0.08	-0.05	-4.58
588.00	0.72	340.42	587.96	5.28	2.79	4.55	0.25	-0.07	-18.40
709.00	0.74	343.30	708.95	6.74	2.31	6.08	0.03	0.02	2.38
828.00	0.46	81.37	827.94	7.55	2.56	6.82	0.78	-0.24	82.41
888.00	0.56	84.56	887.94	7.61	3.09	6.76	0.17	0.17	5.32

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T436)	<b>Database:</b>	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)
948.00	0.45	64.82	947.94	7.74	3.60	6.78	0.34	-0.18	-32.90
1,075.00	0.29	196.33	1,074.94	7.64	3.96	6.61	0.53	-0.13	103.55
1,138.00	0.31	190.77	1,137.94	7.32	3.88	6.31	0.06	0.03	-8.83
1,200.00	0.35	178.68	1,199.94	6.97	3.85	5.97	0.13	0.06	-19.50
1,264.00	0.33	165.92	1,263.94	6.60	3.90	5.60	0.12	-0.03	-19.94
1,327.00	0.34	165.88	1,326.93	6.24	3.99	5.23	0.02	0.02	-0.06
1,453.00	0.32	171.22	1,452.93	5.53	4.14	4.50	0.03	-0.02	4.24
1,516.00	0.40	162.25	1,515.93	5.14	4.23	4.11	0.15	0.13	-14.24
1,579.00	0.35	163.21	1,578.93	4.75	4.35	3.70	0.08	-0.08	1.52
1,642.00	0.34	170.00	1,641.93	4.38	4.44	3.32	0.07	-0.02	10.78
1,705.00	0.36	176.44	1,704.93	4.00	4.49	2.94	0.07	0.03	10.22
1,768.00	0.40	158.78	1,767.93	3.60	4.58	2.52	0.20	0.06	-28.03
1,889.00	0.58	142.68	1,888.92	2.72	5.10	1.55	0.19	0.15	-13.31
1,952.00	0.64	147.38	1,951.92	2.17	5.49	0.93	0.12	0.10	7.46
2,015.00	0.62	167.38	2,014.91	1.54	5.75	0.26	0.35	-0.03	31.75
2,078.00	0.95	248.31	2,077.91	1.01	5.34	-0.17	1.67	0.52	128.46
2,141.00	1.20	258.70	2,140.90	0.69	4.21	-0.24	0.50	0.40	16.49
2,204.00	1.07	260.00	2,203.89	0.46	2.98	-0.20	0.21	-0.21	2.06
2,267.00	1.00	261.81	2,266.88	0.28	1.86	-0.13	0.12	-0.11	2.87
2,330.00	1.63	288.54	2,329.86	0.49	0.46	0.37	1.37	1.00	42.43
2,393.00	2.52	300.85	2,392.82	1.48	-1.58	1.79	1.57	1.41	19.54
2,455.00	3.69	297.69	2,454.73	3.11	-4.51	4.01	1.91	1.89	-5.10
2,519.00	4.54	295.29	2,518.56	5.15	-8.63	6.89	1.35	1.33	-3.75
2,582.00	5.53	294.96	2,581.32	7.49	-13.63	10.26	1.57	1.57	-0.52
2,645.00	6.37	298.30	2,643.98	10.43	-19.46	14.39	1.44	1.33	5.30
2,708.00	7.44	300.31	2,706.52	14.15	-26.06	19.45	1.74	1.70	3.19
2,771.00	8.28	300.59	2,768.93	18.51	-33.49	25.32	1.33	1.33	0.44
2,834.00	8.92	299.98	2,831.22	23.26	-41.62	31.71	1.03	1.02	-0.97
2,897.00	9.49	299.35	2,893.41	28.25	-50.38	38.48	0.92	0.90	-1.00
2,960.00	9.76	296.90	2,955.52	33.21	-59.67	45.33	0.78	0.43	-3.89
3,024.00	9.78	296.45	3,018.59	38.09	-69.37	52.19	0.12	0.03	-0.70
3,085.00	9.60	296.83	3,078.72	42.69	-78.55	58.67	0.31	-0.30	0.62
3,148.00	9.25	291.36	3,140.87	46.90	-87.96	64.82	1.53	-0.56	-8.68
3,211.00	8.85	294.90	3,203.09	50.79	-97.07	70.58	1.09	-0.63	5.62
3,274.00	9.03	295.74	3,265.32	54.98	-105.92	76.58	0.35	0.29	1.33
3,337.00	8.51	294.32	3,327.59	59.04	-114.62	82.43	0.89	-0.83	-2.25
3,400.00	8.32	296.56	3,389.91	63.00	-122.94	88.10	0.60	-0.30	3.56
3,464.00	7.89	300.03	3,453.27	67.27	-130.89	93.98	1.02	-0.67	5.42
3,527.00	7.20	301.52	3,515.72	71.50	-138.00	99.65	1.14	-1.10	2.37
3,589.00	6.98	299.06	3,577.25	75.36	-144.60	104.85	0.60	-0.35	-3.97
3,652.00	6.88	297.60	3,639.79	78.97	-151.29	109.82	0.32	-0.16	-2.32
3,715.00	6.52	297.78	3,702.36	82.38	-157.80	114.56	0.57	-0.57	0.29
3,778.00	4.92	298.42	3,765.04	85.33	-163.34	118.64	2.54	-2.54	1.02

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<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T436)	<b>Database:</b>	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)
3,904.00	3.32	311.98	3,890.72	90.35	-170.81	125.15	1.48	-1.27	10.76
3,966.00	2.72	324.13	3,952.63	92.74	-173.00	127.96	1.41	-0.97	19.60
4,030.00	1.73	332.39	4,016.58	94.83	-174.34	130.29	1.62	-1.55	12.91
4,093.00	1.42	338.52	4,079.56	96.40	-175.07	131.98	0.56	-0.49	9.73
4,156.00	1.11	353.80	4,142.54	97.73	-175.42	133.35	0.72	-0.49	24.25
4,219.00	0.93	12.08	4,205.53	98.84	-175.38	134.43	0.59	-0.29	29.02
4,282.00	0.75	23.16	4,268.53	99.71	-175.11	135.23	0.38	-0.29	17.59
4,345.00	0.78	21.90	4,331.52	100.49	-174.79	135.91	0.05	0.05	-2.00
4,408.00	1.32	70.44	4,394.51	101.13	-173.94	136.36	1.58	0.86	77.05
4,534.00	1.76	111.46	4,520.47	100.91	-170.77	135.46	0.92	0.35	32.56
4,597.00	1.74	120.40	4,583.44	100.07	-169.05	134.26	0.43	-0.03	14.19
4,659.00	1.66	117.10	4,645.41	99.19	-167.44	133.05	0.20	-0.13	-5.32
4,722.00	1.68	113.90	4,708.39	98.40	-165.78	131.92	0.15	0.03	-5.08
4,785.00	1.72	108.57	4,771.36	97.72	-164.04	130.89	0.26	0.06	-8.46
4,848.00	1.48	145.79	4,834.33	96.75	-162.69	129.64	1.66	-0.38	59.08
4,911.00	1.65	159.92	4,897.31	95.22	-161.92	127.99	0.67	0.27	22.43
4,974.00	1.58	157.45	4,960.29	93.57	-161.27	126.23	0.16	-0.11	-3.92
5,037.00	1.49	150.01	5,023.26	92.06	-160.53	124.60	0.35	-0.14	-11.81
5,100.00	1.43	154.34	5,086.24	90.64	-159.78	123.05	0.20	-0.10	6.87
5,163.00	1.37	157.89	5,149.22	89.23	-159.16	121.54	0.17	-0.10	5.63
5,227.00	1.33	158.49	5,213.21	87.83	-158.60	120.05	0.07	-0.06	0.94
5,290.00	1.29	153.87	5,276.19	86.52	-158.02	118.64	0.18	-0.06	-7.33
5,352.00	1.03	155.45	5,338.18	85.38	-157.48	117.42	0.42	-0.42	2.55
5,415.00	0.81	155.35	5,401.17	84.46	-157.06	116.43	0.35	-0.35	-0.16
5,478.00	0.72	154.52	5,464.16	83.70	-156.70	115.61	0.14	-0.14	-1.32
5,541.00	0.71	139.06	5,527.16	83.05	-156.27	114.88	0.31	-0.02	-24.54
5,603.00	0.85	131.73	5,589.15	82.45	-155.68	114.17	0.28	0.23	-11.82
5,666.00	0.85	137.03	5,652.15	81.80	-155.01	113.39	0.12	0.00	8.41
5,791.00	0.94	134.36	5,777.13	80.40	-153.65	111.73	0.08	0.07	-2.14
5,855.00	0.89	132.05	5,841.12	79.70	-152.90	110.89	0.10	-0.08	-3.61
5,879.00	0.84	132.38	5,865.12	79.46	-152.63	110.59	0.21	-0.21	1.38
<b>Final Phoenix MWD Survey</b>									
5,969.00	0.84	132.38	5,955.11	78.57	-151.66	109.51	0.00	0.00	0.00
<b>Projection to TD</b>									

## Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
163.00	163.00	0.63	0.77	First Phoenix MWD Survey
5,879.00	5,865.12	79.46	-152.63	Final Phoenix MWD Survey
5,969.00	5,955.11	78.57	-151.66	Projection to TD

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2948.70usft (Ensign T436)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T436)	<b>Database:</b>	USA Compass





# SURVEY DATA CERTIFICATION



**PHOENIX**  
TECHNOLOGY SERVICES

Job #: 71505  
 Client: Diamondback Energy  
 County & State: Martin County, Texas  
 Well: UL Stanolind 30-27 C 1WA  
 API No: 42-317-44334  
 Proposed Direction: 347.51°

## 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	Well Plan
Data Source Company:						Surface

## SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
19-Jan-23	163 ft	0.70°	50.41°

Last Survey Date	Last Survey Depth	INC	AZM
10-Feb-23	5,879 ft	0.84°	132.38°

Survey Instrument Type
P360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
10-Feb-23	5,969 ft	0.84°	132.38°

## CORRECTION INFORMATION

Magnetic Declination Used	5.75 degrees
Grid Convergence Used	-2.57 degrees
Total Correction	8.32 degrees

Corrected to True/Grid North
Grid

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

Michael LeJeune

Signature

February 10, 2023

Date



June 8, 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 Stanolind 30-27 C 1WA  
Martin County, TX  
API #42-317-44334  
Job No. 72288

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	
Michael LeJeune	1WA	6,044	19,094	5/17/23	5/22/23	MWD

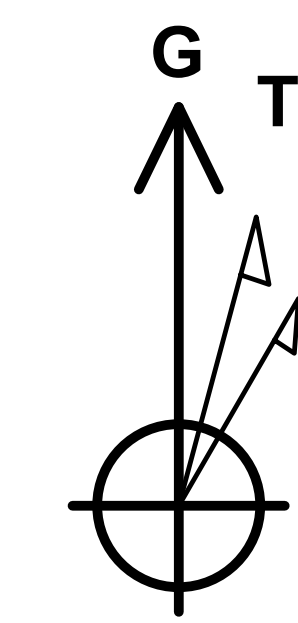
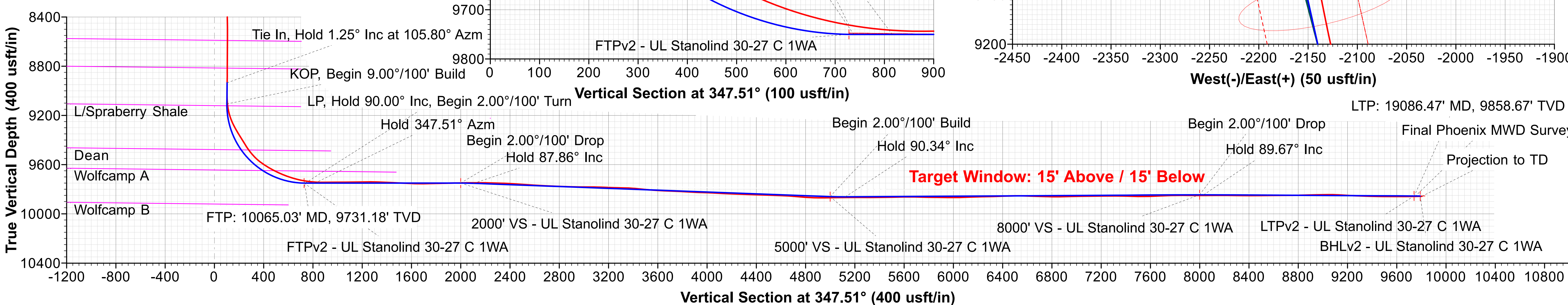
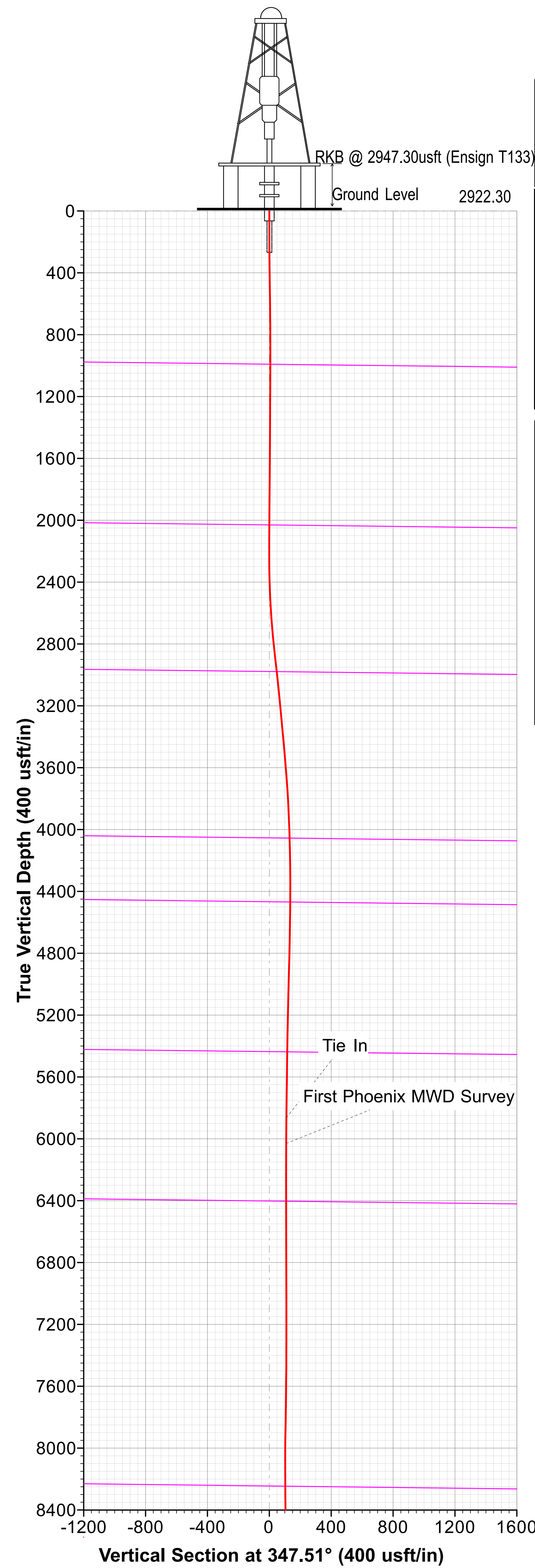
A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

*Brittany Carley*

Brittany Carley  
Operations Administrator

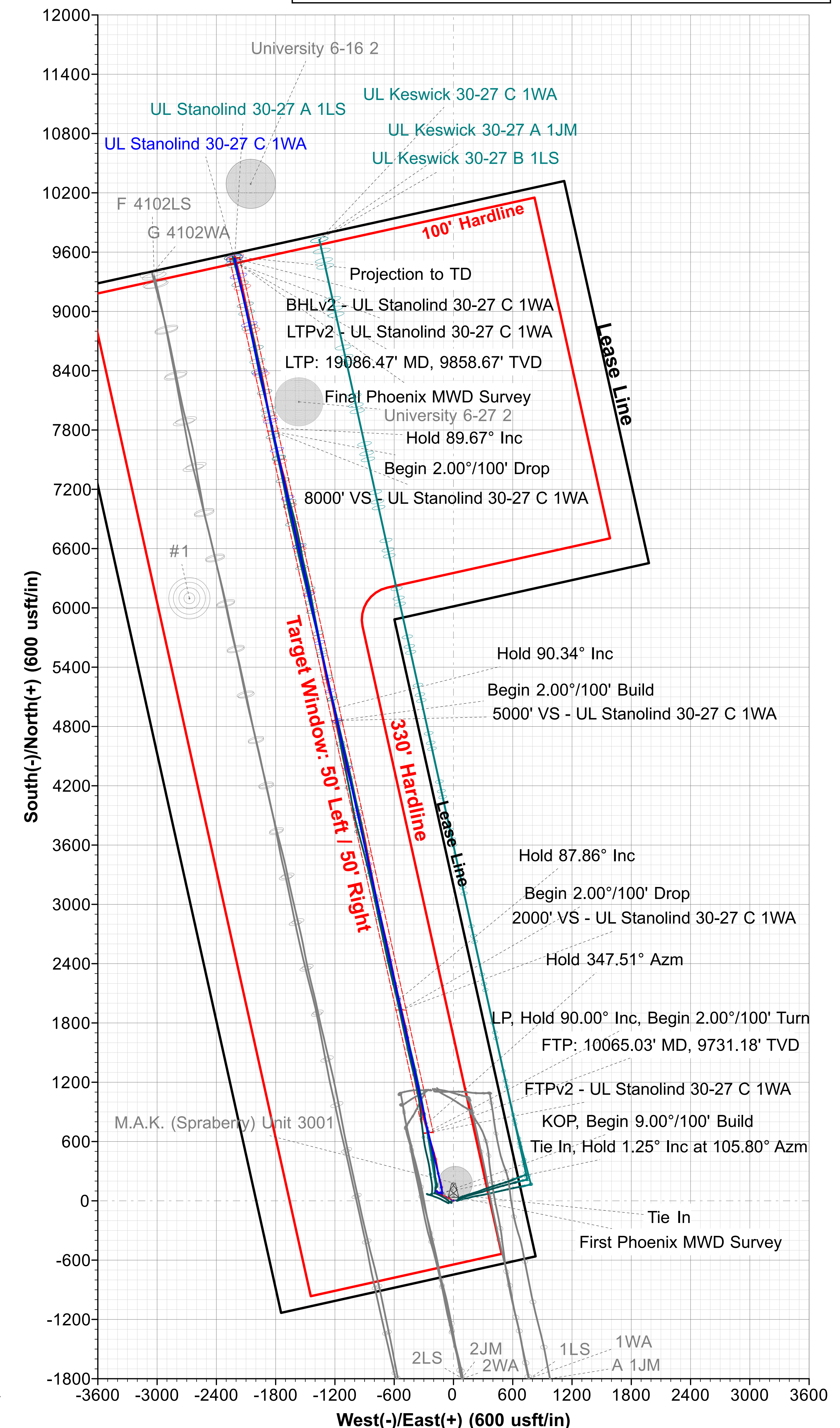


Azimuths to Grid North  
True North: 2.57°  
Magnetic North: 8.29°  
  
Magnetic Field  
Strength: 47418.8nT  
Dip Angle: 60.02°  
Date: 5/16/2023  
Model: IFRMap System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone Name: Texas North Central 4202  
  
Local Origin: Well UL Stanolind 30-27 C 1WA, Grid North  
  
Latitude: 32° 28' 15.468408 N  
Longitude: 102° 12' 29.281771 W  
  
Grid East: 548477.66  
Grid North: 325137.02  
Scale Factor: 1.000  
  
Geomagnetic Model: IFR  
Sample Date: 16-May-23  
Magnetic Declination: 5.723°  
Dip Angle from Horizontal: 60.02°  
Magnetic Field Strength: 47418.80000000nTTo convert a Magnetic Direction to a Grid Direction, Add 8.291°  
To convert a Magnetic Direction to a True Direction, Add 5.723° East  
To convert a True Direction to a Grid Direction, Add 2.568°

WELL DETAILS									
				Ground Level	2922.30				
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
	0.00	0.00	325137.02	548477.66	32° 28' 15.468408 N	102° 12' 29.281771 W			
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
2000' VS - UL Stanolind 30-27 C 1WA	9750.00	1931.05	-530.14	327068.07	547947.52	32° 28' 34.323503 N	102° 12' 36.474174 W		
FTPv2 - UL Stanolind 30-27 C 1WA	9750.00	689.05	-255.76	325826.07	548221.90	32° 28' 22.166892 N	102° 12' 32.624678 W		
8000' VS - UL Stanolind 30-27 C 1WA	9845.00	7789.05	-1827.74	332926.07	546649.92	32° 29' 31.659227 N	102° 12' 54.674988 W		
LTPv2 - UL Stanolind 30-27 C 1WA	9854.72	9488.47	-2204.20	334625.49	546273.46	32° 29' 48.292311 N	102° 12' 59.956575 W		
BHLv2 - UL Stanolind 30-27 C 1WA	9855.00	9537.29	-2214.99	334674.31	546262.67	32° 29' 48.770148 N	102° 13' 0.108022 W		
5000' VS - UL Stanolind 30-27 C 1WA	9860.00	4860.05	-1178.94	329997.07	547298.72	32° 29' 2.991456 N	102° 12' 45.573767 W		

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct
1	8949.00	1.25	106.99	8934.76	79.91	-117.15	0.00	0.000	103.35
2	9120.86	1.25	106.99	9106.58	78.82	-113.56	0.00	0.000	101.51
3	10128.02	90.00	345.95	9750.25	699.27	-256.43	9.00	-121.034	738.18
4	10206.56	90.01	347.52	9750.24	775.72	-274.45	2.00	89.579	816.71
5	11389.85	90.01	347.52	9750.00	1931.05	-530.14	0.00	0.000	2000.00
6	11497.35	87.86	347.51	9751.99	2035.98	-553.37	2.00	-179.710	2107.48
7	14391.89	87.86	347.51	9860.00	4860.05	-1178.94	0.00	0.000	5000.00
8	14515.69	90.34	347.51	9861.95	4980.89	-1205.71	2.00	0.005	5123.77
9	17391.96	90.34	347.51	9845.00	7789.05	-1827.74	0.00	0.000	8000.00
10	17425.15	89.67	347.51	9845.00	7821.45	-1834.92	2.00	179.998	8033.18
11	19182.61	89.67	347.51	9855.00	9537.29	-2214.99	0.00	0.000	9790.61

FORMATION TOP DETAILS									
TVDPath	MDPath	Formation	DipAngle	DipDir					
991.38	991.44	Santa Rosa	0.680	347.51					
2030.30	2030.39	Rustler/Base Santa Rosa	0.680	347.51					
2978.87	2983.72	Yates	0.680	347.51					
4055.86	4069.29	Grayburg	0.680	347.51					
4468.92	4482.43	San Andres	0.680	347.51					
5437.68	5451.51	B/San Andres - T/Glorieta	0.680	347.51					
6403.60	6417.51	Clearfork	0.680	347.51					
8246.53	8260.65	U/Spraberry	0.680	347.51					
8590.56	8604.76	M/Spraberry	0.680	347.51					
8815.54	8829.76	Jo Mill	0.680	347.51					
9121.50	9135.79	L/Spraberry Shale	0.680	347.51					
9479.88	9518.20	Dean	0.680	347.51					
9647.95	9762.08	Wolfcamp A	0.680	347.51					







# **Diamondback Energy**

**Martin County, Texas (NAD27 TNC)**

**Keswick/Stanolind**

**UL Stanolind 30-27 C 1WA**

**OH / 71505 / 72288**

**Design: Surveys (Ensign T133)**

## **Standard Survey Report**

**22 May, 2023**



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

<b>Project</b>	Martin County, Texas (NAD27 TNC)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Texas North Central 4202		

<b>Site</b>	Keswick/Stanolind		
<b>Site Position:</b>		<b>Northing:</b>	325,142.70 usft
<b>From:</b>	Map	<b>Easting:</b>	548,502.02 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 28' 15.535360 N
		<b>Longitude:</b>	102° 12' 29.000673 W

<b>Well</b>	UL Stanolind 30-27 C 1WA		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 325,137.02 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 548,477.66 usft
<b>Position Uncertainty</b>	1.00 usft	<b>Wellhead Elevation:</b>	usft
<b>Grid Convergence:</b>	-2.568 °	<b>Ground Level:</b>	2,922.30 usft

<b>Wellbore</b>	OH / 71505 / 72288				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IFR	5/16/2023	5.723	60.020	47,418.80000000

<b>Design</b>	Surveys (Ensign T133)				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	347.51	

<b>Survey Program</b>	<b>Date</b>	5/22/2023			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
161.50	5,877.50	Phoenix MWD Surveys (Adjusted) (OH / 7	MWD+IFR1	OWSG MWD + IFR1	
5,877.50	19,150.00	Phoenix MWD Surveys (OH / 71505 / 7228	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
161.50	0.70	50.41	161.50	0.63	0.76	0.45	0.43	0.43	0.00	
284.50	0.81	51.75	284.49	1.65	2.02	1.17	0.09	0.09	1.09	
345.50	0.79	39.09	345.48	2.24	2.63	1.62	0.29	-0.03	-20.75	
466.50	0.79	354.21	466.47	3.72	3.07	2.97	0.50	0.00	-37.09	
526.50	0.76	351.46	526.46	4.52	2.97	3.77	0.08	-0.05	-4.58	
586.50	0.72	340.42	586.46	5.27	2.78	4.54	0.25	-0.07	-18.40	
707.50	0.74	343.30	707.45	6.73	2.30	6.08	0.03	0.02	2.38	
826.50	0.46	81.37	826.44	7.54	2.55	6.81	0.78	-0.24	82.41	

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

**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)
886.50	0.56	84.56	886.44	7.61	3.08	6.76	0.17	0.17	5.32
946.50	0.45	64.82	946.44	7.73	3.59	6.78	0.34	-0.18	-32.90
1,073.50	0.29	196.33	1,073.44	7.64	3.95	6.60	0.53	-0.13	103.55
1,136.50	0.31	190.77	1,136.44	7.32	3.87	6.31	0.06	0.03	-8.83
1,198.50	0.35	178.68	1,198.44	6.96	3.85	5.97	0.13	0.06	-19.50
1,262.50	0.33	165.92	1,262.44	6.59	3.90	5.59	0.12	-0.03	-19.94
1,325.50	0.34	165.88	1,325.43	6.23	3.99	5.22	0.02	0.02	-0.06
1,451.50	0.32	171.22	1,451.43	5.52	4.13	4.50	0.03	-0.02	4.24
1,514.50	0.40	162.25	1,514.43	5.14	4.22	4.10	0.15	0.13	-14.24
1,577.50	0.35	163.21	1,577.43	4.75	4.35	3.69	0.08	-0.08	1.52
1,640.50	0.34	170.00	1,640.43	4.38	4.43	3.31	0.07	-0.02	10.78
1,703.50	0.36	176.44	1,703.43	4.00	4.48	2.93	0.07	0.03	10.22
1,766.50	0.40	158.78	1,766.43	3.59	4.57	2.52	0.20	0.06	-28.03
1,887.50	0.58	142.68	1,887.42	2.71	5.10	1.55	0.19	0.15	-13.31
1,950.50	0.64	147.38	1,950.42	2.16	5.48	0.93	0.12	0.10	7.46
2,013.50	0.62	167.38	2,013.41	1.53	5.74	0.25	0.35	-0.03	31.75
2,076.50	0.95	248.31	2,076.41	1.01	5.33	-0.17	1.67	0.52	128.46
2,139.50	1.20	258.70	2,139.40	0.69	4.20	-0.24	0.50	0.40	16.49
2,202.50	1.07	260.00	2,202.39	0.45	2.97	-0.20	0.21	-0.21	2.06
2,265.50	1.00	261.81	2,265.38	0.27	1.85	-0.13	0.12	-0.11	2.87
2,328.50	1.63	288.54	2,328.36	0.48	0.46	0.37	1.37	1.00	42.43
2,391.50	2.52	300.85	2,391.32	1.47	-1.58	1.78	1.57	1.41	19.54
2,453.50	3.69	297.69	2,453.23	3.10	-4.52	4.01	1.91	1.89	-5.10
2,517.50	4.54	295.29	2,517.06	5.14	-8.63	6.89	1.35	1.33	-3.75
2,580.50	5.53	294.96	2,579.82	7.49	-13.64	10.26	1.57	1.57	-0.52
2,643.50	6.37	298.30	2,642.48	10.42	-19.47	14.39	1.44	1.33	5.30
2,706.50	7.44	300.31	2,705.02	14.14	-26.07	19.44	1.74	1.70	3.19
2,769.50	8.28	300.59	2,767.43	18.51	-33.49	25.31	1.33	1.33	0.44
2,832.50	8.92	299.98	2,829.72	23.26	-41.63	31.71	1.03	1.02	-0.97
2,895.50	9.49	299.35	2,891.91	28.24	-50.39	38.47	0.92	0.90	-1.00
2,958.50	9.76	296.90	2,954.02	33.20	-59.68	45.32	0.78	0.43	-3.89
3,022.50	9.78	296.45	3,017.09	38.08	-69.38	52.18	0.12	0.03	-0.70
3,083.50	9.60	296.83	3,077.22	42.68	-78.56	58.66	0.31	-0.30	0.62
3,146.50	9.25	291.36	3,139.37	46.90	-87.96	64.81	1.53	-0.56	-8.68
3,209.50	8.85	294.90	3,201.59	50.78	-97.07	70.58	1.09	-0.63	5.62
3,272.50	9.03	295.74	3,263.82	54.97	-105.92	76.58	0.35	0.29	1.33
3,335.50	8.51	294.32	3,326.09	59.04	-114.62	82.43	0.89	-0.83	-2.25
3,398.50	8.32	296.56	3,388.41	63.00	-122.95	88.09	0.60	-0.30	3.56
3,462.50	7.89	300.03	3,451.77	67.26	-130.89	93.98	1.02	-0.67	5.42
3,525.50	7.20	301.52	3,514.22	71.49	-138.00	99.65	1.14	-1.10	2.37
3,587.50	6.98	299.06	3,575.75	75.35	-144.61	104.84	0.60	-0.35	-3.97
3,650.50	6.88	297.60	3,638.29	78.96	-151.30	109.81	0.32	-0.16	-2.32
3,713.50	6.52	297.78	3,700.86	82.38	-157.81	114.56	0.57	-0.57	0.29



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

**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)
3,776.50	4.92	298.42	3,763.54	85.33	-163.35	118.64	2.54	-2.54	1.02
3,902.50	3.32	311.98	3,889.22	90.34	-170.81	125.14	1.48	-1.27	10.76
3,964.50	2.72	324.13	3,951.13	92.73	-173.01	127.96	1.41	-0.97	19.60
4,028.50	1.73	332.39	4,015.08	94.82	-174.35	130.28	1.62	-1.55	12.91
4,091.50	1.42	338.52	4,078.06	96.39	-175.07	131.97	0.56	-0.49	9.73
4,154.50	1.11	353.80	4,141.04	97.72	-175.43	133.35	0.72	-0.49	24.25
4,217.50	0.93	12.08	4,204.03	98.83	-175.38	134.42	0.59	-0.29	29.02
4,280.50	0.75	23.16	4,267.03	99.71	-175.12	135.22	0.38	-0.29	17.59
4,343.50	0.78	21.90	4,330.02	100.49	-174.79	135.91	0.05	0.05	-2.00
4,406.50	1.32	70.44	4,393.01	101.13	-173.95	136.35	1.58	0.86	77.05
4,532.50	1.76	111.46	4,518.97	100.90	-170.78	135.45	0.92	0.35	32.56
4,595.50	1.74	120.40	4,581.94	100.07	-169.06	134.26	0.43	-0.03	14.19
4,657.50	1.66	117.10	4,643.91	99.18	-167.44	133.05	0.20	-0.13	-5.32
4,720.50	1.68	113.90	4,706.89	98.39	-165.79	131.92	0.15	0.03	-5.08
4,783.50	1.72	108.57	4,769.86	97.72	-164.05	130.88	0.26	0.06	-8.46
4,846.50	1.48	145.79	4,832.83	96.74	-162.69	129.64	1.66	-0.38	59.08
4,909.50	1.65	159.92	4,895.81	95.22	-161.92	127.98	0.67	0.27	22.43
4,972.50	1.58	157.45	4,958.79	93.56	-161.28	126.23	0.16	-0.11	-3.92
5,035.50	1.49	150.01	5,021.76	92.05	-160.54	124.59	0.35	-0.14	-11.81
5,098.50	1.43	154.34	5,084.74	90.63	-159.79	123.05	0.20	-0.10	6.87
5,161.50	1.37	157.89	5,147.72	89.23	-159.16	121.54	0.17	-0.10	5.63
5,225.50	1.33	158.49	5,211.71	87.83	-158.60	120.05	0.07	-0.06	0.94
5,288.50	1.29	153.87	5,274.69	86.51	-158.02	118.64	0.18	-0.06	-7.33
5,350.50	1.03	155.45	5,336.68	85.38	-157.48	117.42	0.42	-0.42	2.55
5,413.50	0.81	155.35	5,399.67	84.46	-157.06	116.43	0.35	-0.35	-0.16
5,476.50	0.72	154.52	5,462.66	83.70	-156.71	115.61	0.14	-0.14	-1.32
5,539.50	0.71	139.06	5,525.66	83.04	-156.28	114.88	0.31	-0.02	-24.54
5,601.50	0.85	131.73	5,587.65	82.45	-155.69	114.17	0.28	0.23	-11.82
5,664.50	0.85	137.03	5,650.65	81.79	-155.02	113.38	0.12	0.00	8.41
5,789.50	0.94	134.36	5,775.63	80.40	-153.65	111.73	0.08	0.07	-2.14
5,853.50	0.89	132.05	5,839.62	79.70	-152.91	110.88	0.10	-0.08	-3.61
5,877.50	0.84	132.38	5,863.62	79.46	-152.64	110.59	0.21	-0.21	1.38
<b>Tie In</b>									
6,044.00	0.55	100.18	6,030.11	78.49	-150.95	109.28	0.29	-0.17	-19.34
<b>First Phoenix MWD Survey</b>									
6,135.00	0.58	96.97	6,121.10	78.36	-150.07	108.96	0.05	0.03	-3.53
6,226.00	0.39	55.42	6,212.10	78.48	-149.35	108.92	0.43	-0.21	-45.66
6,316.00	0.63	52.04	6,302.10	78.96	-148.71	109.25	0.27	0.27	-3.76
6,408.00	0.33	73.24	6,394.09	79.34	-148.06	109.49	0.37	-0.33	23.04
6,498.00	0.67	85.21	6,484.09	79.46	-147.29	109.44	0.39	0.38	13.30
6,589.00	0.85	81.55	6,575.08	79.61	-146.09	109.32	0.20	0.20	-4.02
6,681.00	0.78	61.69	6,667.07	80.00	-144.86	109.44	0.31	-0.08	-21.59
6,771.00	0.98	57.32	6,757.06	80.71	-143.68	109.87	0.23	0.22	-4.86
6,861.00	0.72	77.11	6,847.05	81.25	-142.48	110.14	0.43	-0.29	21.99

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

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)	
6,952.00	0.62	61.24	6,938.05	81.62	-141.49	110.28	0.23	-0.11	-17.44	
7,043.00	0.95	76.04	7,029.04	82.03	-140.32	110.44	0.42	0.36	16.26	
7,134.00	0.76	70.44	7,120.03	82.42	-139.02	110.53	0.23	-0.21	-6.15	
7,225.00	0.70	82.97	7,211.02	82.69	-137.90	110.56	0.19	-0.07	13.77	
7,316.00	1.21	81.49	7,302.01	82.90	-136.40	110.44	0.56	0.56	-1.63	
7,407.00	1.21	80.66	7,392.99	83.20	-134.50	110.32	0.02	0.00	-0.91	
7,497.00	0.61	105.36	7,482.98	83.22	-133.10	110.04	0.78	-0.67	27.44	
7,589.00	0.86	185.94	7,574.97	82.41	-132.70	109.16	1.05	0.27	87.59	
7,679.00	0.65	176.20	7,664.96	81.23	-132.74	108.01	0.27	-0.23	-10.82	
7,770.00	0.57	122.52	7,755.96	80.47	-132.32	107.18	0.61	-0.09	-58.99	
7,860.00	1.56	174.39	7,845.94	79.01	-131.82	105.65	1.43	1.10	57.63	
7,951.00	0.82	157.55	7,936.92	77.17	-131.45	103.78	0.89	-0.81	-18.51	
8,042.00	0.87	95.69	8,027.91	76.50	-130.52	102.92	0.96	0.05	-67.98	
8,134.00	1.09	61.38	8,119.90	76.85	-129.06	102.95	0.67	0.24	-37.29	
8,225.00	1.09	67.69	8,210.89	77.60	-127.49	103.33	0.13	0.00	6.93	
8,316.00	1.00	54.33	8,301.87	78.39	-126.05	103.79	0.28	-0.10	-14.68	
8,406.00	1.65	45.56	8,391.85	79.75	-124.49	104.79	0.75	0.72	-9.74	
8,496.00	1.64	47.31	8,481.81	81.53	-122.61	106.12	0.06	-0.01	1.94	
8,588.00	0.51	162.69	8,573.80	82.04	-121.52	106.38	2.08	-1.23	125.41	
8,677.00	0.60	132.08	8,662.79	81.35	-121.06	105.60	0.34	0.10	-34.39	
8,768.00	0.76	103.53	8,753.79	80.88	-120.12	104.95	0.41	0.18	-31.37	
8,859.00	0.98	110.66	8,844.78	80.47	-118.81	104.26	0.27	0.24	7.84	
8,949.00	1.25	106.99	8,934.76	79.91	-117.15	103.35	0.31	0.30	-4.08	
9,039.00	1.48	91.78	9,024.73	79.59	-115.05	102.58	0.47	0.26	-16.90	
9,131.00	6.36	359.23	9,116.54	84.65	-113.93	107.29	7.17	5.30	-100.60	
9,221.00	17.47	352.02	9,204.46	103.07	-115.87	125.69	12.43	12.34	-8.01	
9,312.00	28.14	354.83	9,288.23	138.07	-119.72	160.70	11.78	11.73	3.09	
9,403.00	32.19	345.34	9,366.94	182.94	-127.79	206.25	6.86	4.45	-10.43	
9,494.00	31.87	340.05	9,444.10	228.98	-142.13	254.30	3.10	-0.35	-5.81	
9,585.00	40.78	350.95	9,517.42	281.07	-155.04	307.95	12.06	9.79	11.98	
9,676.00	52.92	350.62	9,579.54	346.48	-165.67	374.11	13.34	13.34	-0.36	
9,766.00	60.61	346.68	9,628.84	420.19	-180.58	449.29	9.29	8.54	-4.38	
9,857.00	65.64	343.89	9,669.97	498.65	-201.23	530.37	6.17	5.53	-3.07	
9,948.00	71.79	342.88	9,702.99	579.85	-225.48	614.90	6.84	6.76	-1.11	
10,039.00	78.44	343.50	9,726.35	664.00	-250.89	702.54	7.34	7.31	0.68	
10,065.03	80.17	343.35	9,731.18	688.51	-258.19	728.05	6.68	6.66	-0.57	
FTP: 10065.03' MD, 9731.18' TVD										
10,130.00	84.50	342.99	9,739.84	750.13	-276.83	792.24	6.68	6.66	-0.56	
10,221.00	90.56	345.76	9,743.76	837.64	-301.29	882.97	7.32	6.66	3.04	
10,313.00	90.16	345.01	9,743.19	926.66	-324.51	974.91	0.92	-0.43	-0.82	
10,404.00	90.38	347.65	9,742.76	1,015.07	-346.01	1,065.88	2.91	0.24	2.90	
10,493.00	91.04	347.88	9,741.65	1,102.04	-364.87	1,154.87	0.79	0.74	0.26	
10,583.00	90.55	349.34	9,740.41	1,190.26	-382.64	1,244.84	1.71	-0.54	1.62	

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

**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)
10,673.00	87.70	350.79	9,741.78	1,278.89	-398.17	1,334.73	3.55	-3.17	1.61
10,764.00	87.62	350.81	9,745.50	1,368.64	-412.70	1,425.51	0.09	-0.09	0.02
10,854.00	87.11	350.86	9,749.63	1,457.40	-427.02	1,515.26	0.57	-0.57	0.06
10,943.00	87.56	350.83	9,753.77	1,545.17	-441.17	1,604.01	0.51	0.51	-0.03
11,034.00	90.52	348.51	9,755.30	1,634.66	-457.48	1,694.92	4.13	3.25	-2.55
11,125.00	91.74	347.42	9,753.50	1,723.64	-476.45	1,785.89	1.80	1.34	-1.20
11,215.00	90.86	346.45	9,751.46	1,811.29	-496.79	1,875.86	1.46	-0.98	-1.08
11,306.00	91.95	346.36	9,749.23	1,899.71	-518.17	1,966.82	1.20	1.20	-0.10
11,395.00	90.03	347.24	9,747.69	1,986.34	-538.49	2,055.79	2.37	-2.16	0.99
11,487.00	90.21	347.57	9,747.50	2,076.13	-558.55	2,147.79	0.41	0.20	0.36
11,577.00	88.15	347.37	9,748.79	2,163.97	-578.08	2,237.78	2.30	-2.29	-0.22
11,667.00	88.59	347.82	9,751.35	2,251.83	-597.40	2,327.74	0.70	0.49	0.50
11,756.00	86.56	347.95	9,755.11	2,338.77	-616.06	2,416.66	2.29	-2.28	0.15
11,847.00	86.09	348.04	9,760.94	2,427.60	-634.95	2,507.47	0.53	-0.52	0.10
11,938.00	86.23	348.14	9,767.04	2,516.44	-653.69	2,598.26	0.19	0.15	0.11
12,029.00	87.21	346.40	9,772.25	2,605.05	-673.71	2,689.10	2.19	1.08	-1.91
12,119.00	87.73	346.83	9,776.22	2,692.52	-694.52	2,779.00	0.75	0.58	0.48
12,211.00	88.38	347.14	9,779.34	2,782.10	-715.23	2,870.94	0.78	0.71	0.34
12,302.00	89.24	347.34	9,781.23	2,870.84	-735.32	2,961.92	0.97	0.95	0.22
12,391.00	90.03	347.01	9,781.80	2,957.61	-755.08	3,050.92	0.96	0.89	-0.37
12,481.00	87.82	347.92	9,783.49	3,045.45	-774.61	3,140.90	2.66	-2.46	1.01
12,572.00	87.90	348.27	9,786.88	3,134.43	-793.37	3,231.83	0.39	0.09	0.38
12,664.00	89.13	348.62	9,789.27	3,224.53	-811.79	3,323.78	1.39	1.34	0.38
12,755.00	84.94	348.67	9,793.97	3,313.61	-829.68	3,414.62	4.60	-4.60	0.05
12,846.00	84.36	349.25	9,802.46	3,402.54	-847.03	3,505.20	0.90	-0.64	0.64
12,937.00	86.51	348.27	9,809.70	3,491.50	-864.71	3,595.88	2.60	2.36	-1.08
13,027.00	87.74	350.07	9,814.22	3,579.78	-881.60	3,685.72	2.42	1.37	2.00
13,117.00	87.45	348.28	9,817.99	3,668.10	-898.48	3,775.60	2.01	-0.32	-1.99
13,208.00	86.59	347.31	9,822.72	3,756.92	-917.70	3,866.48	1.42	-0.95	-1.07
13,299.00	88.42	347.80	9,826.69	3,845.69	-937.29	3,957.39	2.08	2.01	0.54
13,390.00	87.05	344.71	9,830.28	3,934.01	-958.89	4,048.28	3.71	-1.51	-3.40
13,482.00	87.25	344.25	9,834.86	4,022.54	-983.47	4,140.04	0.54	0.22	-0.50
13,572.00	87.76	344.73	9,838.77	4,109.18	-1,007.52	4,229.83	0.78	0.57	0.53
13,663.00	88.04	345.22	9,842.11	4,197.01	-1,031.09	4,320.68	0.62	0.31	0.54
13,754.00	87.87	345.51	9,845.36	4,285.00	-1,054.07	4,411.55	0.37	-0.19	0.32
13,845.00	88.32	344.64	9,848.38	4,372.88	-1,077.49	4,502.42	1.08	0.49	-0.96
13,937.00	88.04	345.28	9,851.30	4,461.69	-1,101.36	4,594.28	0.76	-0.30	0.70
14,027.00	85.65	346.17	9,856.26	4,548.77	-1,123.51	4,684.10	2.83	-2.66	0.99
14,117.00	85.17	346.63	9,863.46	4,635.96	-1,144.61	4,773.79	0.74	-0.53	0.51
14,210.00	88.21	347.49	9,868.83	4,726.44	-1,165.39	4,866.62	3.40	3.27	0.92
14,301.00	90.53	349.79	9,869.83	4,815.64	-1,183.32	4,957.58	3.59	2.55	2.53
14,392.00	91.47	348.88	9,868.24	4,905.05	-1,200.15	5,048.52	1.44	1.03	-1.00
14,483.00	90.24	348.72	9,866.88	4,994.31	-1,217.83	5,139.49	1.36	-1.35	-0.18
14,575.00	90.07	346.60	9,866.63	5,084.17	-1,237.49	5,231.48	2.31	-0.18	-2.30



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

**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)
14,667.00	89.52	344.97	9,866.96	5,173.35	-1,260.08	5,323.44	1.87	-0.60	-1.77
14,758.00	91.40	347.68	9,866.23	5,261.76	-1,281.59	5,414.40	3.62	2.07	2.98
14,849.00	90.78	349.56	9,864.50	5,350.95	-1,299.54	5,505.36	2.18	-0.68	2.07
14,939.00	91.53	349.19	9,862.69	5,439.39	-1,316.13	5,595.30	0.93	0.83	-0.41
15,030.00	88.67	348.14	9,862.53	5,528.60	-1,334.01	5,686.27	3.35	-3.14	-1.15
15,122.00	88.44	347.85	9,864.85	5,618.56	-1,353.14	5,778.23	0.40	-0.25	-0.32
15,213.00	89.64	349.08	9,866.37	5,707.71	-1,371.34	5,869.21	1.89	1.32	1.35
15,303.00	89.07	348.89	9,867.39	5,796.04	-1,388.53	5,959.17	0.67	-0.63	-0.21
15,394.00	91.37	349.95	9,867.04	5,885.49	-1,405.24	6,050.11	2.78	2.53	1.16
15,484.00	92.66	349.88	9,863.87	5,974.04	-1,420.99	6,139.97	1.44	1.43	-0.08
15,573.00	90.83	348.88	9,861.16	6,061.47	-1,437.38	6,228.88	2.34	-2.06	-1.12
15,663.00	91.37	347.44	9,859.43	6,149.54	-1,455.84	6,318.86	1.71	0.60	-1.60
15,753.00	92.58	348.47	9,856.33	6,237.50	-1,474.61	6,408.80	1.77	1.34	1.14
15,844.00	90.78	347.91	9,853.66	6,326.53	-1,493.23	6,499.75	2.07	-1.98	-0.62
15,934.00	87.78	347.95	9,854.80	6,414.53	-1,512.05	6,589.73	3.33	-3.33	0.04
16,025.00	88.42	348.89	9,857.81	6,503.62	-1,530.30	6,680.66	1.25	0.70	1.03
16,116.00	88.50	344.98	9,860.26	6,592.22	-1,550.86	6,771.61	4.30	0.09	-4.30
16,208.00	90.72	345.80	9,860.89	6,681.23	-1,574.07	6,863.54	2.57	2.41	0.89
16,299.00	91.95	346.17	9,858.77	6,769.50	-1,596.10	6,954.48	1.41	1.35	0.41
16,389.00	90.43	347.27	9,856.90	6,857.07	-1,616.77	7,044.45	2.08	-1.69	1.22
16,480.00	90.36	348.55	9,856.27	6,946.05	-1,635.82	7,135.44	1.41	-0.08	1.41
16,571.00	91.06	349.70	9,855.14	7,035.41	-1,652.99	7,226.39	1.48	0.77	1.26
16,664.00	89.56	349.41	9,854.64	7,126.86	-1,669.85	7,319.33	1.64	-1.61	-0.31
16,753.00	88.42	346.83	9,856.21	7,213.93	-1,688.17	7,408.30	3.17	-1.28	-2.90
16,844.00	88.73	347.16	9,858.47	7,302.57	-1,708.64	7,499.27	0.50	0.34	0.36
16,936.00	91.61	344.58	9,858.20	7,391.77	-1,731.09	7,591.22	4.20	3.13	-2.80
17,026.00	93.48	344.99	9,854.20	7,478.52	-1,754.69	7,681.02	2.13	2.08	0.46
17,116.00	91.24	346.95	9,850.49	7,565.76	-1,776.49	7,770.90	3.31	-2.49	2.18
17,207.00	89.56	347.56	9,849.86	7,654.51	-1,796.56	7,861.90	1.96	-1.85	0.67
17,297.00	89.69	347.49	9,850.45	7,742.38	-1,816.00	7,951.89	0.16	0.14	-0.08
17,388.00	89.89	347.23	9,850.78	7,831.18	-1,835.91	8,042.89	0.36	0.22	-0.29
17,478.00	91.09	347.54	9,850.01	7,919.00	-1,855.57	8,132.89	1.38	1.33	0.34
17,569.00	88.88	348.73	9,850.04	8,008.05	-1,874.28	8,223.87	2.76	-2.43	1.31
17,660.00	89.55	349.75	9,851.28	8,097.44	-1,891.27	8,314.82	1.34	0.74	1.12
17,749.00	89.47	349.78	9,852.04	8,185.02	-1,907.08	8,403.75	0.10	-0.09	0.03
17,837.00	90.87	349.47	9,851.78	8,271.58	-1,922.93	8,491.69	1.63	1.59	-0.35
17,928.00	90.44	348.08	9,850.74	8,360.83	-1,940.64	8,582.66	1.60	-0.47	-1.53
18,019.00	90.26	346.18	9,850.19	8,449.53	-1,960.91	8,673.65	2.10	-0.20	-2.09
18,110.00	90.46	347.90	9,849.61	8,538.21	-1,981.31	8,764.64	1.90	0.22	1.89
18,200.00	91.78	348.77	9,847.86	8,626.33	-1,999.51	8,854.61	1.76	1.47	0.97
18,292.00	91.33	346.85	9,845.36	8,716.22	-2,018.93	8,946.57	2.14	-0.49	-2.09
18,383.00	90.35	347.05	9,844.02	8,804.86	-2,039.47	9,037.56	1.10	-1.08	0.22
18,472.00	87.19	347.40	9,845.94	8,891.63	-2,059.14	9,126.52	3.57	-3.55	0.39

<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Stanolind 30-27 C 1WA
<b>Project:</b>	Martin County, Texas (NAD27 TNC)	<b>TVD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Site:</b>	Keswick/Stanolind	<b>MD Reference:</b>	RKB @ 2947.30usft (Ensign T133)
<b>Well:</b>	UL Stanolind 30-27 C 1WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 71505 / 72288	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Ensign T133)	<b>Database:</b>	USAEDMDB

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)	
18,562.00	86.85	348.78	9,850.61	8,979.57	-2,077.69	9,216.40	1.58	-0.38	1.53	
18,652.00	87.90	346.66	9,854.74	9,067.41	-2,096.81	9,306.29	2.63	1.17	-2.36	
18,741.00	88.45	347.10	9,857.57	9,154.04	-2,117.01	9,395.24	0.79	0.62	0.49	
18,833.00	89.67	348.85	9,859.08	9,244.01	-2,136.17	9,487.22	2.32	1.33	1.90	
18,924.00	89.70	346.07	9,859.58	9,332.82	-2,155.92	9,578.21	3.06	0.03	-3.05	
19,016.00	90.38	345.91	9,859.52	9,422.09	-2,178.20	9,670.18	0.76	0.74	-0.17	
19,086.47	90.99	346.68	9,858.67	9,490.54	-2,194.89	9,740.63	1.40	0.87	1.09	
LTP: 19086.47' MD, 9858.67' TVD										
19,094.00	91.06	346.76	9,858.54	9,497.87	-2,196.62	9,748.16	1.40	0.87	1.09	
Final Phoenix MWD Survey										
19,150.00	91.06	346.76	9,857.50	9,552.37	-2,209.45	9,804.14	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,877.50	5,863.62	79.46	-152.64	Tie In	
6,044.00	6,030.11	78.49	-150.95	First Phoenix MWD Survey	
10,065.03	9,731.18	688.51	-258.19	FTP: 10065.03' MD, 9731.18' TVD	
19,086.47	9,858.67	9,490.54	-2,194.89	LTP: 19086.47' MD, 9858.67' TVD	
19,094.00	9,858.54	9,497.87	-2,196.62	Final Phoenix MWD Survey	
19,150.00	9,857.50	9,552.37	-2,209.45	Projection to TD	





# SURVEY DATA CERTIFICATION



**PHOENIX**  
TECHNOLOGY SERVICES

Job #: 72288  
 Client: Diamondback Energy  
 County & State: Martin County, Texas  
 Well: UL Stanolind 30-27 C 1WA  
 API No: 42-317-44334  
 Proposed Direction: 347.51°

## TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
5877.50 ft	5863.62 ft	0.84 ft	132.38 ft	79.46 ft	-152.64 ft	MWD
Data Source Company:						Phoenix

## SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
17-May-23	6,044 ft	0.55°	100.18°

Last Survey Date	Last Survey Depth	INC	AZM
22-May-23	19,094 ft	91.06°	346.76°

Survey Instrument Type
Velocity

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
22-May-23	19,150 ft	91.06°	346.76°

## CORRECTION INFORMATION

Magnetic Declination Used	5.72 degrees
Grid Convergence Used	-2.57 degrees
Total Correction	8.29 degrees

Corrected to True/Grid North
Grid

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

Michael LeJeune

Signature

May 22, 2023

Date