



<b>Job #</b>	<b>Operator</b>	<b>Directional Driller</b>	<b>Magnetic Dec.</b>	<b>Calculation Method</b>
1022BH21	Diamondback E&P LLC	John Chavez	4.26	
<b>Start Date</b>	<b>Company</b>	<b>Directional Driller</b>	<b>North Reference</b>	<b>Proposed Az.</b>
2/28/2021	Pinnergy, LTD	John Fay	Grid North	0
<b>Well Name</b>	<b>State/Province and Country</b>	<b>Rig Manager</b>	<b>Rig Floor Elevation</b>	<b>Depth Reference</b>
UL CUCKOO BEE 5-19 D 2JM	Texas, US	JESSE MAXWELL	7	GROUND LEVEL
<b>Rig Name</b>	<b>County</b>		<b>VS Plane AZI</b>	<b>Tie Into</b>
Pinnergy # 3	ANDREWS		0	0

[illegible]



Bloodhound MWD, LLC  
5805 FM 1223  
San Angelo, TX 76905

Oil Company: Diamondback E&P LLC

Referenced Well: UL Cuckoo Bee 5-19 D 2JM

API #: 42-003-48246

County: Andrews

State: Texas

Dates Ran:

Start Date: 2/28/2021

End Date: 2/28/2021

Depths Ran: 0' - 1984'

Surveyor / Supervisor: Heath Andrew

I, Heath Andrew, certify that Bloodhound LLC supervised the taking of surveys on the above referenced well. The surveys on the dates stated, the data is true, correct, complete, and within the limitations of the tool as set forth by Bloodhound Services; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by Bloodhound MWD Services. All surveys were taken at ground level with reference to Grid North.

Heath Andrew  
Surveyor



August 2, 2021

Railroad Commission of Texas  
Attn: Oil & Gas Division  
P.O. Box 12967  
Austin, TX 78711-2967

Attn: Pam Johns

Re: Diamondback E&P LLC.  
UL Cuckoo Bee 5-19 D #2JM  
Spraberry (Trend Area)  
Andrews County, Texas  
API# 42-003-48246

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, LLC. (P-5 #828149) Other information required by your office is as follows:

<u>Name &amp; Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Jason Turner	Original Hole	2,020ft. to 19,940ft.	04-02-21 to 04-23-21	MWD Survey

A certified plat on which the bottom-hole location is oriented to both 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.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

Enclosures

CC: Diamondback E&P LLC  
Attn: Chad Riley  
500 West Texas Ave. Suite 1200  
Midland, Texas 79701

RRC\ Diamondback E&P LLC\UL Cuckoo Bee 5-19 D #2JM\M211064

**STRYKER ENERGY DIRECTIONAL SERVICES, LLC.**  
P.O. Box 1250  
Montgomery, TX 77356  
Office (936) 582-7296 \* Fax (936)-588-4163

# Stryker Directional

## Standard Survey - Landscape

**Company:** Diamondback  
**Project:** Andrews County, Texas (NAD27) TXNCZ  
**Site:** UL Cuckoo Bee 5-19  
**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
**TVD Reference:** WEL @ 2991.00usft (Noram 30)  
**MD Reference:** WEL @ 2991.00usft (Noram 30)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

**Survey Program**      **Date** 4/23/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	1,953.00	Bloodhound MWD (Wellbore #1)	MWD	MWD v3:standard declination
2,020.00	19,990.00	Stryker MWD (Wellbore #1)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
0.00	0.00	0.00	0.00	0.00	0.00	308,282.2180	534,495.1050	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	308,282.2180	534,495.1050	0.00	0.00	0.00
142.00	0.70	161.40	142.00	-0.68	0.23	308,281.5406	534,495.3330	0.60	0.00	0.71
229.00	2.00	142.20	228.97	-2.38	1.33	308,279.8373	534,496.4330	1.49	-22.07	2.61
317.00	1.40	109.50	316.93	-3.95	3.28	308,278.2651	534,498.3876	-0.68	-37.16	4.57
402.00	1.50	92.50	401.91	-4.35	5.37	308,277.8699	534,500.4779	0.12	-20.00	5.41
495.00	1.40	106.50	494.88	-4.72	7.68	308,277.4942	534,502.7832	-0.11	15.05	6.27
589.00	2.20	88.20	588.83	-4.99	10.58	308,277.2247	534,505.6877	0.85	-19.47	7.17
683.00	2.00	88.80	682.77	-4.90	14.03	308,277.3157	534,509.1309	-0.21	0.64	7.82
778.00	1.00	84.40	777.73	-4.79	16.51	308,277.4313	534,511.6134	-1.05	-4.63	8.25
872.00	0.40	70.00	871.73	-4.59	17.63	308,277.6236	534,512.7381	-0.64	-15.32	8.30
966.00	0.60	70.00	965.72	-4.31	18.40	308,277.9042	534,513.5089	0.21	0.00	8.20
1,062.00	0.30	70.30	1,061.72	-4.06	19.11	308,278.1608	534,514.2179	-0.31	0.31	8.10
1,156.00	0.70	84.50	1,155.72	-3.92	19.92	308,278.2988	534,515.0211	0.43	15.11	8.14
1,251.00	0.30	80.30	1,250.71	-3.82	20.74	308,278.3963	534,515.8439	-0.42	-4.42	8.22
1,345.00	0.30	80.50	1,344.71	-3.74	21.22	308,278.4784	534,516.3292	0.00	0.21	8.25
1,439.00	0.30	99.50	1,438.71	-3.74	21.71	308,278.4784	534,516.8146	0.00	20.21	8.35
1,533.00	0.30	60.60	1,532.71	-3.66	22.17	308,278.5586	534,517.2717	0.00	-41.38	8.37
1,627.00	0.30	126.60	1,626.71	-3.69	22.58	308,278.5327	534,517.6837	0.00	70.21	8.49
1,720.00	0.40	87.60	1,719.71	-3.82	23.10	308,278.4011	534,518.2035	0.11	-41.94	8.73
1,814.00	0.10	7.30	1,813.71	-3.72	23.44	308,278.4962	534,518.5418	-0.32	-85.43	8.71



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**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
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**Database:** EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
1,908.00	0.40	33.10	1,907.70	-3.37	23.63	308,278.8524	534,518.7314	0.32	27.45	8.40
1,953.00	0.40	3.00	1,952.70	-3.08	23.72	308,279.1409	534,518.8254	0.00	-66.89	8.14
<b>Tie-in - 1953.00' MD</b>										
2,020.00	0.22	342.22	2,019.70	-2.72	23.69	308,279.4969	534,518.7983	-0.27	-31.01	7.79
2,084.00	0.38	3.65	2,083.70	-2.39	23.67	308,279.8257	534,518.7743	0.25	33.48	7.46
2,178.00	1.19	48.81	2,177.69	-1.44	24.42	308,280.7796	534,519.5287	0.86	48.04	6.69
2,272.00	1.87	56.40	2,271.66	0.05	26.44	308,282.2712	534,521.5407	0.72	8.07	5.67
2,367.00	2.33	61.10	2,366.59	1.84	29.42	308,284.0623	534,524.5224	0.48	4.95	4.57
2,461.00	2.66	68.02	2,460.51	3.58	33.11	308,285.8021	534,528.2179	0.35	7.36	3.67
2,556.00	3.17	70.72	2,555.38	5.28	37.64	308,287.4945	534,532.7415	0.54	2.84	3.00
2,651.00	3.60	73.28	2,650.22	7.00	42.97	308,289.2199	534,538.0774	0.45	2.69	2.47
2,746.00	3.92	73.31	2,745.01	8.79	48.94	308,291.0105	534,544.0443	0.34	0.03	2.01
2,839.00	5.13	76.04	2,837.72	10.71	56.02	308,292.9266	534,551.1246	1.30	2.94	1.67
2,934.00	6.27	75.29	2,932.25	13.05	65.16	308,295.2686	534,560.2644	1.20	-0.79	1.37
3,028.00	7.17	74.68	3,025.60	15.90	75.78	308,298.1220	534,570.8872	0.96	-0.65	0.88
3,123.00	7.92	75.19	3,119.78	19.14	87.83	308,301.3615	534,582.9329	0.79	0.54	0.33
3,217.00	8.85	73.83	3,212.77	22.81	101.03	308,305.0306	534,596.1390	0.99	-1.45	-0.40
3,312.00	9.71	73.51	3,306.53	27.12	115.73	308,309.3399	534,610.8399	0.91	-0.34	-1.42
3,406.00	9.65	73.46	3,399.19	31.61	130.89	308,313.8329	534,625.9935	-0.06	-0.05	-2.53
3,500.00	9.91	73.32	3,491.83	36.18	146.19	308,318.3975	534,641.2945	0.28	-0.15	-3.67
3,594.00	10.17	73.20	3,584.39	40.90	161.88	308,323.1178	534,656.9875	0.28	-0.13	-4.88
3,689.00	10.55	74.22	3,677.84	45.69	178.28	308,327.9070	534,673.3858	0.40	1.07	-6.01
3,783.00	11.09	73.12	3,770.17	50.65	195.21	308,332.8723	534,690.3180	0.57	-1.17	-7.19
3,877.00	11.42	74.10	3,862.36	55.83	212.81	308,338.0468	534,707.9190	0.35	1.04	-8.43
3,971.00	11.19	71.14	3,954.53	61.33	230.40	308,343.5448	534,725.5004	-0.24	-3.15	-9.99
4,066.00	11.26	71.20	4,047.72	67.30	247.90	308,349.5135	534,743.0036	0.07	0.06	-12.03
4,160.00	10.46	69.62	4,140.03	73.22	264.59	308,355.4427	534,759.6903	-0.85	-1.68	-14.20



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4,254.00	10.48	70.59	4,232.47	79.04	280.65	308,361.2552	534,775.7520	0.02	1.03	-16.40
4,350.00	10.61	70.63	4,326.85	84.87	297.22	308,367.0880	534,792.3243	0.14	0.04	-18.51
4,445.00	10.73	71.67	4,420.20	90.55	313.86	308,372.7699	534,808.9700	0.13	1.09	-20.45
4,540.00	9.28	71.20	4,513.76	95.80	329.51	308,378.0199	534,824.6169	-1.53	-0.49	-22.19
4,635.00	8.35	71.38	4,607.63	100.47	343.30	308,382.6909	534,838.4052	-0.98	0.19	-23.76
4,730.00	7.82	70.96	4,701.69	104.78	355.95	308,387.0018	534,851.0515	-0.56	-0.44	-25.23
4,824.00	6.29	71.44	4,794.97	108.51	366.87	308,390.7272	534,861.9787	-1.63	0.51	-26.50
4,918.00	6.07	72.04	4,888.43	111.68	376.48	308,393.8988	534,871.5880	-0.23	0.64	-27.52
5,012.00	6.25	72.57	4,981.89	114.75	386.09	308,396.9639	534,881.1976	0.19	0.56	-28.43
5,106.00	6.48	75.00	5,075.31	117.65	396.10	308,399.8695	534,891.2030	0.24	2.59	-29.10
5,201.00	6.45	74.67	5,169.70	120.45	406.42	308,402.6676	534,901.5271	-0.03	-0.35	-29.60
5,295.00	5.93	72.43	5,263.15	123.31	416.14	308,405.5293	534,911.2483	-0.55	-2.38	-30.29
5,390.00	5.69	72.16	5,357.67	126.24	425.30	308,408.4535	534,920.4098	-0.25	-0.28	-31.16
5,485.00	5.06	70.36	5,452.25	129.09	433.73	308,411.3044	534,928.8386	-0.66	-1.89	-32.12
5,579.00	4.00	69.31	5,545.95	131.64	440.71	308,413.8561	534,935.8101	-1.13	-1.12	-33.10
5,673.00	3.03	80.30	5,639.78	133.22	446.22	308,415.4331	534,941.3262	-1.03	11.69	-33.44
5,767.00	2.18	80.06	5,733.68	133.94	450.43	308,416.1603	534,945.5361	-0.90	-0.26	-33.24
5,861.00	1.12	85.69	5,827.64	134.32	453.11	308,416.5380	534,948.2133	-1.13	5.99	-33.03
5,955.00	0.34	93.16	5,921.63	134.37	454.30	308,416.5917	534,949.4079	-0.83	7.95	-32.83
6,050.00	0.47	88.01	6,016.63	134.37	454.97	308,416.5897	534,950.0787	0.14	-5.42	-32.68
6,146.00	0.60	61.09	6,112.62	134.63	455.81	308,416.8463	534,950.9122	0.14	-28.04	-32.75
6,240.00	0.80	68.08	6,206.62	135.11	456.85	308,417.3292	534,951.9518	0.21	7.44	-32.99
6,335.00	0.32	75.59	6,301.61	135.42	457.72	308,417.6428	534,952.8241	-0.51	7.91	-33.11
6,430.00	0.54	224.81	6,396.61	135.17	457.66	308,417.3913	534,952.7655	0.23	157.07	-32.88
6,525.00	0.48	184.89	6,491.61	134.46	457.31	308,416.6772	534,952.4161	-0.06	-42.02	-32.26
6,618.00	0.48	184.62	6,584.60	133.68	457.25	308,415.9007	534,952.3515	0.00	-0.29	-31.51
6,713.00	0.15	148.77	6,679.60	133.18	457.28	308,415.3978	534,952.3839	-0.35	-37.74	-31.02



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Survey										
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6,807.00	0.15	147.09	6,773.60	132.97	457.41	308,415.1893	534,952.5146	0.00	-1.79	-30.78
6,906.00	0.21	250.07	6,872.60	132.80	457.31	308,415.0186	534,952.4144	0.06	104.02	-30.64
6,986.00	0.23	85.37	6,952.60	132.76	457.33	308,414.9816	534,952.4366	0.02	-205.87	-30.60
7,049.00	0.50	55.64	7,015.60	132.93	457.68	308,415.1470	534,952.7896	0.43	-47.19	-30.68
7,144.00	0.49	63.29	7,110.60	133.35	458.39	308,415.5635	534,953.4946	-0.01	8.05	-30.94
7,239.00	0.46	51.61	7,205.59	133.76	459.05	308,415.9829	534,954.1564	-0.03	-12.29	-31.20
7,334.00	0.65	28.35	7,300.59	134.48	459.61	308,416.6940	534,954.7112	0.20	-24.48	-31.78
7,429.00	0.76	21.91	7,395.58	135.53	460.10	308,417.7527	534,955.2022	0.12	-6.78	-32.70
7,524.00	0.72	13.52	7,490.57	136.70	460.47	308,418.9176	534,955.5768	-0.04	-8.83	-33.76
7,619.00	0.97	1.75	7,585.56	138.08	460.64	308,420.3017	534,955.7409	0.26	-12.39	-35.08
7,714.00	0.96	359.04	7,680.55	139.68	460.65	308,421.9012	534,955.7522	-0.01	-2.85	-36.64
7,809.00	0.85	334.90	7,775.54	141.12	460.33	308,423.3350	534,955.4399	-0.12	-25.41	-38.10
7,903.00	0.84	321.20	7,869.53	142.29	459.61	308,424.5034	534,954.7124	-0.01	-14.57	-39.40
7,998.00	0.97	272.11	7,964.52	142.86	458.37	308,425.0757	534,953.4724	0.14	-51.67	-40.23
8,093.00	1.19	274.61	8,059.50	142.97	456.58	308,425.1846	534,951.6856	0.23	2.63	-40.72
8,188.00	1.39	283.43	8,154.48	143.31	454.48	308,425.5315	534,949.5816	0.21	9.28	-41.52
8,283.00	1.17	292.93	8,249.45	143.96	452.46	308,426.1770	534,947.5676	-0.23	10.00	-42.58
8,377.00	1.34	328.15	8,343.43	145.27	451.00	308,427.4845	534,946.1037	0.18	37.47	-44.18
8,472.00	1.33	137.31	8,438.42	145.40	451.16	308,427.6177	534,946.2651	-0.01	178.06	-44.27
8,567.00	9.16	145.25	8,532.95	138.37	456.23	308,420.5834	534,951.3306	8.24	8.36	-36.31
8,662.00	16.87	153.27	8,625.45	119.81	466.75	308,402.0295	534,961.8575	8.12	8.44	-15.91
8,757.00	23.79	157.78	8,714.48	89.72	480.22	308,371.9417	534,975.3208	7.28	4.75	16.38
8,852.00	28.77	163.24	8,799.65	50.06	494.06	308,332.2826	534,989.1699	5.24	5.75	58.09
8,947.00	38.81	176.00	8,878.60	-1.72	502.77	308,280.4973	534,997.8721	10.57	13.43	110.53
9,042.00	39.33	169.47	8,952.39	-61.04	510.35	308,221.1759	535,005.4538	0.55	-6.87	170.09
9,136.00	42.45	168.08	9,023.44	-121.38	522.35	308,160.8350	535,017.4529	3.32	-1.48	231.60
9,231.00	55.42	174.48	9,085.75	-192.02	532.78	308,090.1962	535,027.8874	13.65	6.74	302.82



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**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
9,325.00	63.96	173.84	9,133.15	-272.67	541.05	308,009.5438	535,036.1565	9.09	-0.68	383.35
9,421.00	69.24	169.82	9,171.27	-359.82	553.63	307,922.3967	535,048.7303	5.50	-4.19	471.15
9,516.00	80.15	164.53	9,196.33	-448.97	574.03	307,833.2474	535,069.1387	11.48	-5.57	562.61
9,552.77	84.59	165.42	9,201.21	-484.16	583.48	307,798.0576	535,078.5831	12.08	2.42	599.00
FTP - 9552.77' MD										
9,610.00	91.51	166.78	9,203.15	-539.65	597.21	307,742.5705	535,092.3140	12.09	2.38	656.15
9,704.00	89.72	164.50	9,202.14	-630.70	620.52	307,651.5224	535,115.6238	-1.90	-2.43	750.08
9,798.00	89.83	167.88	9,202.51	-721.96	642.95	307,560.2537	535,138.0584	0.12	3.60	844.05
9,893.00	90.39	168.86	9,202.33	-815.01	662.10	307,467.2057	535,157.2092	0.59	1.03	939.03
9,988.00	91.06	168.88	9,201.13	-908.22	680.44	307,374.0005	535,175.5460	0.71	0.02	1,034.00
10,082.00	88.40	166.39	9,201.57	-1,000.02	700.57	307,282.1974	535,195.6712	-2.83	-2.65	1,127.98
10,177.00	91.09	169.56	9,201.99	-1,092.91	720.35	307,189.3033	535,215.4586	2.83	3.34	1,222.95
10,272.00	89.86	170.72	9,201.21	-1,186.50	736.62	307,095.7131	535,231.7253	-1.29	1.22	1,317.85
10,293.00	89.30	170.78	9,201.36	-1,207.23	740.00	307,074.9868	535,235.1008	-2.67	0.29	1,338.81
10,387.00	89.98	169.12	9,201.95	-1,299.78	756.40	306,982.4348	535,251.5035	0.72	-1.77	1,432.72
10,482.00	89.81	169.66	9,202.13	-1,393.16	773.89	306,889.0595	535,268.9951	-0.18	0.57	1,527.67
10,576.00	89.89	166.67	9,202.37	-1,485.15	793.17	306,797.0685	535,288.2717	0.09	-3.18	1,621.65
10,671.00	89.84	166.95	9,202.60	-1,577.64	814.84	306,704.5751	535,309.9488	-0.05	0.29	1,716.64
10,765.00	89.75	165.92	9,202.93	-1,669.02	836.89	306,613.1991	535,331.9959	-0.10	-1.10	1,810.63
10,860.00	89.95	167.13	9,203.18	-1,761.40	859.03	306,520.8164	535,354.1324	0.21	1.27	1,905.61
10,955.00	89.95	167.18	9,203.26	-1,854.02	880.15	306,428.1938	535,375.2522	0.00	0.05	2,000.61
11,049.00	89.95	167.16	9,203.35	-1,945.68	901.02	306,336.5407	535,396.1258	0.00	-0.02	2,094.61
11,143.00	89.95	167.25	9,203.43	-2,037.34	921.84	306,244.8749	535,416.9433	0.00	0.10	2,188.61
11,238.00	89.86	167.10	9,203.58	-2,129.97	942.93	306,152.2450	535,438.0308	-0.09	-0.16	2,283.60
11,333.00	89.89	167.11	9,203.79	-2,222.58	964.13	306,059.6411	535,459.2315	0.03	0.01	2,378.60
11,428.00	89.92	167.01	9,203.95	-2,315.16	985.40	305,967.0537	535,480.5048	0.03	-0.11	2,473.60
11,522.00	89.86	167.27	9,204.13	-2,406.81	1,006.32	305,875.4118	535,501.4263	-0.06	0.28	2,567.60



## Stryker Directional

### Standard Survey - Landscape

**Company:** Diamondback  
**Project:** Andrews County, Texas (NAD27) TXNCZ  
**Site:** UL Cuckoo Bee 5-19  
**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
**TVD Reference:** WEL @ 2991.00usft (Noram 30)  
**MD Reference:** WEL @ 2991.00usft (Noram 30)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
11,617.00	89.86	166.79	9,204.36	-2,499.38	1,027.64	305,782.8360	535,522.7481	0.00	-0.51	2,662.59
11,711.00	89.86	166.78	9,204.59	-2,590.89	1,049.13	305,691.3255	535,544.2369	0.00	-0.01	2,756.58
11,806.00	89.81	166.88	9,204.87	-2,683.39	1,070.78	305,598.8246	535,565.8817	-0.05	0.11	2,851.58
11,901.00	89.84	167.17	9,205.16	-2,775.97	1,092.11	305,506.2506	535,587.2116	0.03	0.31	2,946.57
11,996.00	89.89	167.15	9,205.38	-2,868.59	1,113.22	305,413.6264	535,608.3233	0.05	-0.02	3,041.57
12,091.00	89.84	167.28	9,205.60	-2,961.24	1,134.24	305,320.9820	535,629.3461	-0.05	0.14	3,136.57
12,186.00	89.89	166.80	9,205.83	-3,053.82	1,155.55	305,228.4025	535,650.6517	0.05	-0.51	3,231.57
12,280.00	89.70	166.80	9,206.16	-3,145.33	1,177.01	305,136.8867	535,672.1165	-0.20	0.00	3,325.56
12,375.00	89.72	165.58	9,206.64	-3,237.58	1,199.69	305,044.6358	535,694.7926	0.02	-1.28	3,420.53
12,469.00	89.84	166.80	9,207.01	-3,328.86	1,222.13	304,953.3555	535,717.2301	0.13	1.30	3,514.51
12,564.00	90.42	168.13	9,206.79	-3,421.60	1,242.74	304,860.6227	535,737.8479	0.61	1.40	3,609.50
12,659.00	89.95	170.73	9,206.48	-3,514.97	1,260.17	304,767.2435	535,755.2727	-0.49	2.74	3,704.44
12,753.00	91.27	172.81	9,205.48	-3,607.99	1,273.62	304,674.2240	535,768.7270	1.40	2.21	3,798.17
12,848.00	89.70	169.47	9,204.68	-3,701.84	1,288.25	304,580.3772	535,783.3562	-1.65	-3.52	3,892.95
12,943.00	89.67	165.54	9,205.20	-3,794.57	1,308.80	304,487.6469	535,803.9055	-0.03	-4.14	3,987.93
13,038.00	89.47	165.90	9,205.91	-3,886.63	1,332.23	304,395.5850	535,827.3376	-0.21	0.38	4,082.89
13,133.00	89.84	166.50	9,206.48	-3,978.89	1,354.89	304,303.3295	535,849.9977	0.39	0.63	4,177.86
13,228.00	89.81	167.25	9,206.78	-4,071.41	1,376.46	304,210.8123	535,871.5697	-0.03	0.79	4,272.85
13,322.00	89.47	166.26	9,207.37	-4,162.90	1,398.00	304,119.3158	535,893.1058	-0.36	-1.05	4,366.84
13,416.00	89.44	165.58	9,208.26	-4,254.07	1,420.87	304,028.1445	535,915.9726	-0.03	-0.72	4,460.80
13,511.00	88.86	165.47	9,209.67	-4,346.05	1,444.61	303,936.1706	535,939.7158	-0.61	-0.12	4,555.73
13,605.00	90.20	166.03	9,210.44	-4,437.15	1,467.75	303,845.0684	535,962.8528	1.43	0.60	4,649.68
13,700.00	90.98	166.38	9,209.46	-4,529.40	1,490.40	303,752.8144	535,985.5040	0.82	0.37	4,744.65
13,795.00	90.40	166.06	9,208.32	-4,621.66	1,513.03	303,660.5560	536,008.1308	-0.61	-0.34	4,839.62
13,889.00	91.71	165.74	9,206.59	-4,712.81	1,535.92	303,569.4056	536,031.0261	1.39	-0.34	4,933.57
13,984.00	90.20	165.43	9,205.00	-4,804.81	1,559.57	303,477.4119	536,054.6718	-1.59	-0.33	5,028.50
14,078.00	89.98	164.83	9,204.86	-4,895.66	1,583.69	303,386.5605	536,078.7946	-0.23	-0.64	5,122.42



# Stryker Directional

## Standard Survey - Landscape

**Company:** Diamondback  
**Project:** Andrews County, Texas (NAD27) TXNCZ  
**Site:** UL Cuckoo Bee 5-19  
**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
**TVD Reference:** WEL @ 2991.00usft (Noram 30)  
**MD Reference:** WEL @ 2991.00usft (Noram 30)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
14,172.00	90.28	166.91	9,204.64	-4,986.81	1,606.64	303,295.4099	536,101.7408	0.32	2.21	5,216.38
14,267.00	90.70	167.20	9,203.83	-5,079.39	1,627.92	303,202.8280	536,123.0214	0.44	0.31	5,311.37
14,361.00	90.45	168.50	9,202.89	-5,171.28	1,647.70	303,110.9402	536,142.8043	-0.27	1.38	5,405.36
14,456.00	89.84	166.73	9,202.65	-5,264.06	1,668.07	303,018.1555	536,163.1789	-0.64	-1.86	5,500.36
14,550.00	90.28	166.99	9,202.55	-5,355.60	1,689.44	302,926.6170	536,184.5480	0.47	0.28	5,594.35
14,645.00	90.59	167.72	9,201.83	-5,448.29	1,710.24	302,833.9246	536,205.3436	0.33	0.77	5,689.35
14,740.00	89.39	163.48	9,201.84	-5,540.29	1,733.86	302,741.9319	536,228.9633	-1.26	-4.46	5,784.27
14,834.00	88.21	163.37	9,203.81	-5,630.36	1,760.67	302,651.8592	536,255.7724	-1.26	-0.12	5,878.01
14,928.00	89.78	164.64	9,205.46	-5,720.70	1,786.56	302,561.5168	536,281.6688	1.67	1.35	5,971.82
15,023.00	89.36	163.96	9,206.17	-5,812.15	1,812.27	302,470.0644	536,307.3749	-0.44	-0.72	6,066.67
15,117.00	89.70	164.55	9,206.94	-5,902.62	1,837.78	302,379.5950	536,332.8814	0.36	0.63	6,160.51
15,212.00	89.78	165.92	9,207.38	-5,994.48	1,861.99	302,287.7351	536,357.0918	0.08	1.44	6,255.43
15,308.00	90.93	168.60	9,206.78	-6,088.11	1,883.15	302,194.1105	536,378.2599	1.20	2.79	6,351.42
15,402.00	90.09	167.41	9,205.94	-6,180.05	1,902.69	302,102.1690	536,397.7943	-0.89	-1.27	6,445.41
15,496.00	89.92	167.45	9,205.94	-6,271.80	1,923.15	302,010.4222	536,418.2517	-0.18	0.04	6,539.41
15,591.00	89.36	165.65	9,206.53	-6,364.18	1,945.24	301,918.0337	536,440.3469	-0.59	-1.89	6,634.39
15,685.00	90.62	166.50	9,206.55	-6,455.42	1,967.86	301,826.7989	536,462.9675	1.34	0.90	6,728.36
15,779.00	90.55	167.63	9,205.59	-6,547.03	1,988.90	301,735.1904	536,484.0075	-0.07	1.20	6,822.35
15,874.00	90.58	168.13	9,204.65	-6,639.91	2,008.85	301,642.3128	536,503.9527	0.03	0.53	6,917.34
15,968.00	90.13	167.90	9,204.07	-6,731.85	2,028.37	301,550.3639	536,523.4719	-0.48	-0.24	7,011.34
16,063.00	90.44	171.31	9,203.60	-6,825.28	2,045.51	301,456.9382	536,540.6103	0.33	3.59	7,106.26
16,158.00	90.61	171.56	9,202.73	-6,919.22	2,059.65	301,363.0017	536,554.7582	0.18	0.26	7,201.03
16,252.00	90.81	172.65	9,201.56	-7,012.32	2,072.56	301,269.9013	536,567.6687	0.21	1.16	7,294.72
16,348.00	91.06	171.12	9,200.00	-7,107.34	2,086.11	301,174.8781	536,581.2178	0.26	-1.59	7,390.42
16,443.00	90.33	168.24	9,198.84	-7,200.79	2,103.13	301,081.4323	536,598.2337	-0.77	-3.03	7,485.33
16,538.00	89.46	168.75	9,199.02	-7,293.88	2,122.08	300,988.3425	536,617.1815	-0.92	0.54	7,580.32
16,632.00	91.14	168.59	9,198.53	-7,386.04	2,140.54	300,896.1790	536,635.6478	1.79	-0.17	7,674.29



# Stryker Directional

## Standard Survey - Landscape

**Company:** Diamondback  
**Project:** Andrews County, Texas (NAD27) TXNCZ  
**Site:** UL Cuckoo Bee 5-19  
**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
**TVD Reference:** WEL @ 2991.00usft (Noram 30)  
**MD Reference:** WEL @ 2991.00usft (Noram 30)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)	
16,726.00	90.13	167.34	9,197.48	-7,477.96	2,160.14	300,804.2537	536,655.2459	-1.07	-1.33	7,768.28	
16,821.00	90.67	166.77	9,196.82	-7,570.55	2,181.42	300,711.6711	536,676.5267	0.57	-0.60	7,863.28	
16,916.00	90.58	166.47	9,195.78	-7,662.96	2,203.40	300,619.2553	536,698.5091	-0.09	-0.32	7,958.26	
17,010.00	91.34	166.75	9,194.21	-7,754.39	2,225.17	300,527.8242	536,720.2742	0.81	0.30	8,052.23	
17,106.00	90.13	166.55	9,192.98	-7,847.79	2,247.33	300,434.4278	536,742.4383	-1.26	-0.21	8,148.21	
17,200.00	90.36	166.60	9,192.58	-7,939.22	2,269.16	300,342.9973	536,764.2623	0.24	0.05	8,242.20	
17,294.00	89.85	166.59	9,192.40	-8,030.66	2,290.95	300,251.5587	536,786.0545	-0.54	-0.01	8,336.19	
17,389.00	90.75	167.10	9,191.91	-8,123.16	2,312.57	300,159.0542	536,807.6746	0.95	0.54	8,431.18	
17,484.00	90.19	167.43	9,191.13	-8,215.82	2,333.51	300,066.3948	536,828.6158	-0.59	0.35	8,526.18	
17,580.00	91.23	168.70	9,189.94	-8,309.74	2,353.36	299,972.4805	536,848.4667	1.08	1.32	8,622.16	
17,675.00	90.39	169.40	9,188.59	-8,403.00	2,371.40	299,879.2209	536,866.5100	-0.88	0.74	8,717.11	
17,769.00	90.97	170.80	9,187.48	-8,495.59	2,387.56	299,786.6298	536,882.6698	0.62	1.49	8,811.01	
17,864.00	89.05	168.67	9,187.46	-8,589.06	2,404.49	299,693.1602	536,899.5971	-2.02	-2.24	8,905.93	
17,959.00	89.99	166.66	9,188.26	-8,681.86	2,424.78	299,600.3623	536,919.8898	0.99	-2.12	9,000.92	
18,053.00	87.16	165.65	9,190.60	-8,773.09	2,447.27	299,509.1319	536,942.3736	-3.01	-1.07	9,094.85	
18,148.00	88.93	166.11	9,193.84	-8,865.16	2,470.43	299,417.0596	536,965.5346	1.86	0.48	9,189.75	
18,243.00	88.87	167.29	9,195.66	-8,957.59	2,492.28	299,324.6263	536,987.3849	-0.06	1.24	9,284.72	
18,337.00	89.80	168.74	9,196.75	-9,049.53	2,511.80	299,232.6849	537,006.9024	0.99	1.54	9,378.71	
18,432.00	90.02	168.61	9,196.90	-9,142.68	2,530.45	299,139.5349	537,025.5578	0.23	-0.14	9,473.69	
18,526.00	89.85	168.38	9,197.01	-9,234.79	2,549.20	299,047.4237	537,044.3064	-0.18	-0.24	9,567.68	
18,621.00	91.42	168.31	9,195.95	-9,327.83	2,568.39	298,954.3911	537,063.4964	1.65	-0.07	9,662.66	
18,716.00	90.78	167.00	9,194.13	-9,420.61	2,588.70	298,861.6073	537,083.8030	-0.67	-1.38	9,757.64	
18,811.00	89.43	166.34	9,193.96	-9,513.05	2,610.60	298,769.1696	537,105.7055	-1.42	-0.69	9,852.62	
18,905.00	88.93	167.38	9,195.30	-9,604.58	2,631.97	298,677.6417	537,127.0721	-0.53	1.11	9,946.61	
18,999.00	90.75	167.09	9,195.56	-9,696.25	2,652.74	298,585.9692	537,147.8407	1.94	-0.31	10,040.60	
19,093.00	89.71	166.20	9,195.19	-9,787.70	2,674.45	298,494.5141	537,169.5525	-1.11	-0.95	10,134.59	
19,188.00	90.64	165.80	9,194.90	-9,879.88	2,697.43	298,402.3377	537,192.5347	0.98	-0.42	10,229.55	



## Stryker Directional

### Standard Survey - Landscape

**Company:** Diamondback  
**Project:** Andrews County, Texas (NAD27) TXNCZ  
**Site:** UL Cuckoo Bee 5-19  
**Well:** UL Cuckoo Bee 5-19 D 2JM  
**Wellbore:** Wellbore #1  
**Design:** Surveys

**Local Co-ordinate Reference:** Well UL Cuckoo Bee 5-19 D 2JM  
**TVD Reference:** WEL @ 2991.00usft (Noram 30)  
**MD Reference:** WEL @ 2991.00usft (Noram 30)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM5000

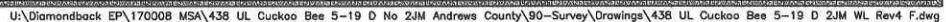
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
19,283.00	90.25	165.48	9,194.16	-9,971.91	2,720.99	298,310.3089	537,216.0952	-0.41	-0.34	10,324.50
19,378.00	90.05	165.15	9,193.91	-10,063.81	2,745.07	298,218.4126	537,240.1780	-0.21	-0.35	10,419.43
19,472.00	89.46	166.90	9,194.31	-10,155.02	2,767.77	298,127.1997	537,262.8777	-0.63	1.86	10,513.40
19,567.00	90.33	168.70	9,194.49	-10,247.87	2,787.85	298,034.3501	537,282.9525	0.92	1.89	10,608.39
19,661.00	90.27	167.82	9,193.99	-10,339.90	2,806.97	297,942.3186	537,302.0783	-0.06	-0.94	10,702.38
19,756.00	90.36	168.49	9,193.47	-10,432.87	2,826.47	297,849.3434	537,321.5780	0.09	0.71	10,797.37
19,851.00	91.26	166.62	9,192.13	-10,525.63	2,846.94	297,756.5899	537,342.0474	0.95	-1.97	10,892.36
19,914.24	91.27	166.04	9,190.73	-10,587.06	2,861.88	297,695.1568	537,356.9899	0.02	-0.92	10,955.57
LTP - 19914.24' MD										
19,950.00	91.28	165.71	9,189.93	-10,621.73	2,870.61	297,660.4867	537,365.7149	0.02	-0.92	10,991.30
19,990.00	91.28	165.71	9,189.04	-10,660.48	2,880.48	297,621.7340	537,375.5856	0.00	0.00	11,031.27
Projection to TD - 19990.00' MD										

#### Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,953.00	1,952.70	-3.08	23.72	Tie-in - 1953.00' MD
9,552.77	9,201.21	-484.16	583.48	FTP - 9552.77' MD
19,914.24	9,190.73	-10,587.06	2,861.88	LTP - 19914.24' MD
19,990.00	9,189.04	-10,660.48	2,880.48	Projection to TD - 19990.00' MD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_







**August 2, 2021**

**Survey Certification Report**

**STATE OF            TEXAS**

**COUNTY OF        Montgomery**

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of April 2, 2021 through April 23, 2021, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 2,020feet to a depth of 19,940feet; 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 Cuckoo Bee 5-19 D #2JM well, API #42-003-48246 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C..

A handwritten signature in black ink, appearing to read "Eric Estes", written over a horizontal line.

**Eric Estes**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**

**STRYKER ENERGY DIRECTIONAL SERVICES, LLC.**

**P.O. Box 1250**

**Montgomery, TX 77356**

**Office (936) 582-7296 \* Fax (936)-588-4163**



**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER <b>861630</b>	DATE PERMIT ISSUED OR AMENDED (AMENDED) <b>Nov 10, 2020</b>	DISTRICT <b>* 08</b>		
API NUMBER <b>42-003-48246</b>	FORM W-1 RECEIVED <b>Nov 03, 2020</b>	COUNTY <b>ANDREWS</b>		
TYPE OF OPERATION <b>NEW DRILL</b>	WELLBORE PROFILE(S) <b>Horizontal</b>	ACRES <b>560</b>		
OPERATOR <b>DIAMONDBACK E&amp;P LLC</b> <b>500 W TEXAS AVE STE 1200</b> <b>MIDLAND, TX 79701-4203</b>		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. <b>District Office Telephone No:</b> <b>(432) 684-5581</b>		
LEASE NAME <b>UL CUCKOO BEE 5-19 D</b>		WELL NUMBER <b>2JM</b>		
LOCATION <b>18.8 miles NE direction from ANDREWS</b>		TOTAL DEPTH <b>13000</b>		
Section, Block and/or Survey SECTION <b>◀ 5</b> BLOCK <b>◀ 7</b> ABSTRACT <b>◀ U190</b> SURVEY <b>◀ UL</b>				
DISTANCE TO SURVEY LINES <b>493 ft. W    2141 ft. N</b>		DISTANCE TO NEAREST LEASE LINE <b>ft.</b>		
DISTANCE TO LEASE LINES <b>493 ft. W    2141 ft. N</b>		DISTANCE TO NEAREST WELL ON LEASE <b>See FIELD(s) Below</b>		
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p> <p align="center">** THIS PERMIT IS GRANTED PURSUANT TO STATEWIDE RULE 37(h)(2)(B) **</p> <p align="center">CASE NO. 0325655</p>				
FIELD NAME	ACRES	DEPTH	WELL #	DIST
LEASE NAME	NEAREST LEASE		NEAREST WE	
<hr/>				
** SPRABERRY (TREND AREA)	560.00	13,000	2JM	08
UL CUCKOO BEE 5-19 D			1	
<hr/>				
WELLBORE PROFILE(s) FOR FIELD: <b>Horizontal</b>				
<hr/>				
RESTRICTIONS:    Lateral: TH1 Penetration Point Location Lease Lines:            493.0 F W OFF-LEASE L 2141.0 F N OFF-LEASE L Terminus Location BH County: ANDREWS Section: 19                      Block: 7                      Abstract: Survey: UL / A-U200 Lease Lines:            990.0 F W L 50.0 F S L Survey Lines:            990.0 F W L 2589.0 F N L				
*** PRECEDING FIELD NAME INDICATES RULE (R37)				
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <p>This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.</p>				