



BTA Oil Producers, LLC

Crane County, Texas

Sec 14, Blk 30, University Land Survey

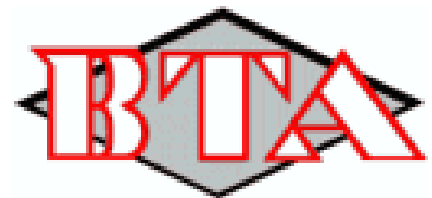
UL Lonetree 22303 B 23-26 #6H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

22 July, 2024



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
Project:	Crane County, Texas	TVD Reference:	WELL @ 2668.0usft (Patterson #588)
Site:	Sec 14, Blk 30, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Project	Crane County, Texas		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	Sec 14, Blk 30, University Land Survey		
Site Position:		Northing:	678,430.00 usft
From:	Map	Easting:	1,374,332.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 30' 59.559 N
		Longitude:	102° 20' 28.578 W
		Grid Convergence:	-1.03 °

Well	UL Lonetree 22303 B 23-26 #6H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	31° 30' 59.475 N
		Longitude:	102° 20' 28.911 W
		Ground Level:	2,643.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	6/4/2024	5.60	59.43	46,940.00000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	168.66	

Survey Program	Date	7/22/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
190.0	20,755.0	KLX MWD (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	678,422.00	1,374,303.00	31° 30' 59.475 N	102° 20' 28.911 W
190.0	0.30	256.90	190.0	-0.1	-0.5	678,421.88	1,374,302.52	31° 30' 59.474 N	102° 20' 28.917 W
First MWD Survey @ 190.0' MD / 190.0' TVD									
301.0	0.60	239.30	301.0	-0.5	-1.3	678,421.52	1,374,301.73	31° 30' 59.470 N	102° 20' 28.926 W
385.0	1.10	239.70	385.0	-1.1	-2.3	678,420.89	1,374,300.66	31° 30' 59.463 N	102° 20' 28.938 W
464.0	2.10	233.40	464.0	-2.4	-4.2	678,419.64	1,374,298.84	31° 30' 59.451 N	102° 20' 28.959 W
548.0	2.50	230.80	547.9	-4.4	-6.8	678,417.57	1,374,296.19	31° 30' 59.430 N	102° 20' 28.989 W
642.0	3.30	233.60	641.8	-7.3	-10.6	678,414.67	1,374,292.42	31° 30' 59.400 N	102° 20' 29.032 W
736.0	3.40	234.00	735.6	-10.6	-15.0	678,411.42	1,374,287.99	31° 30' 59.368 N	102° 20' 29.082 W
831.0	3.90	233.90	830.4	-14.1	-19.9	678,407.86	1,374,283.10	31° 30' 59.331 N	102° 20' 29.138 W
925.0	4.90	224.90	924.1	-18.9	-25.3	678,403.14	1,374,277.68	31° 30' 59.284 N	102° 20' 29.200 W
1,019.0	5.60	221.90	1,017.7	-25.1	-31.2	678,396.88	1,374,271.78	31° 30' 59.221 N	102° 20' 29.266 W

Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
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Site:	Sec 14, Blk 30, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,113.0	7.00	222.00	1,111.2	-32.8	-38.1	678,389.21	1,374,264.89	31° 30' 59.144 N	102° 20' 29.344 W
1,207.0	7.60	222.20	1,204.4	-41.6	-46.1	678,380.35	1,374,256.88	31° 30' 59.054 N	102° 20' 29.435 W
1,247.0	7.80	220.50	1,244.0	-45.7	-49.7	678,376.32	1,374,253.34	31° 30' 59.014 N	102° 20' 29.475 W
1,348.0	6.90	235.00	1,344.2	-54.4	-59.1	678,367.63	1,374,243.92	31° 30' 58.926 N	102° 20' 29.582 W
1,423.0	6.00	266.20	1,418.8	-57.2	-66.7	678,364.79	1,374,236.32	31° 30' 58.897 N	102° 20' 29.669 W
1,517.0	4.10	280.20	1,512.4	-56.9	-74.9	678,365.05	1,374,228.10	31° 30' 58.898 N	102° 20' 29.764 W
1,611.0	1.60	347.80	1,606.3	-55.1	-78.5	678,366.93	1,374,224.52	31° 30' 58.916 N	102° 20' 29.806 W
1,705.0	1.60	357.50	1,700.3	-52.5	-78.8	678,369.53	1,374,224.18	31° 30' 58.942 N	102° 20' 29.810 W
1,799.0	1.80	352.60	1,794.2	-49.7	-79.1	678,372.30	1,374,223.94	31° 30' 58.969 N	102° 20' 29.814 W
1,893.0	1.90	358.30	1,888.2	-46.7	-79.3	678,375.32	1,374,223.70	31° 30' 58.999 N	102° 20' 29.817 W
1,988.0	2.10	2.80	1,983.1	-43.4	-79.3	678,378.64	1,374,223.74	31° 30' 59.032 N	102° 20' 29.818 W
2,082.0	2.00	5.10	2,077.1	-40.0	-79.0	678,381.99	1,374,223.97	31° 30' 59.065 N	102° 20' 29.816 W
2,176.0	2.10	7.90	2,171.0	-36.7	-78.6	678,385.33	1,374,224.35	31° 30' 59.098 N	102° 20' 29.812 W
2,270.0	2.40	337.30	2,264.9	-33.1	-79.2	678,388.85	1,374,223.83	31° 30' 59.133 N	102° 20' 29.819 W
2,364.0	2.70	320.80	2,358.8	-29.6	-81.3	678,392.38	1,374,221.67	31° 30' 59.167 N	102° 20' 29.844 W
2,458.0	3.80	271.00	2,452.7	-27.8	-85.8	678,394.15	1,374,217.15	31° 30' 59.184 N	102° 20' 29.897 W
2,553.0	2.80	257.60	2,547.5	-28.3	-91.3	678,393.71	1,374,211.74	31° 30' 59.179 N	102° 20' 29.959 W
2,647.0	1.80	224.80	2,641.5	-29.8	-94.5	678,392.17	1,374,208.46	31° 30' 59.163 N	102° 20' 29.997 W
2,741.0	2.20	235.10	2,735.4	-31.9	-97.1	678,390.09	1,374,205.94	31° 30' 59.142 N	102° 20' 30.026 W
2,835.0	2.40	237.00	2,829.3	-34.0	-100.2	678,387.99	1,374,202.81	31° 30' 59.120 N	102° 20' 30.061 W
2,930.0	2.20	241.60	2,924.3	-36.0	-103.5	678,386.03	1,374,199.54	31° 30' 59.100 N	102° 20' 30.099 W
3,024.0	2.20	245.20	3,018.2	-37.6	-106.7	678,384.42	1,374,196.31	31° 30' 59.084 N	102° 20' 30.136 W
3,118.0	2.20	256.50	3,112.1	-38.8	-110.1	678,383.24	1,374,192.92	31° 30' 59.072 N	102° 20' 30.175 W
3,212.0	2.30	259.40	3,206.0	-39.5	-113.7	678,382.47	1,374,189.31	31° 30' 59.063 N	102° 20' 30.216 W
3,306.0	2.40	263.90	3,300.0	-40.1	-117.5	678,381.92	1,374,185.50	31° 30' 59.057 N	102° 20' 30.260 W
3,400.0	2.70	269.90	3,393.9	-40.3	-121.7	678,381.70	1,374,181.33	31° 30' 59.054 N	102° 20' 30.308 W
3,494.0	3.10	272.10	3,487.8	-40.2	-126.4	678,381.79	1,374,176.57	31° 30' 59.054 N	102° 20' 30.363 W
3,589.0	2.50	251.10	3,582.6	-40.8	-131.0	678,381.22	1,374,172.05	31° 30' 59.048 N	102° 20' 30.415 W
3,683.0	2.40	219.40	3,676.6	-43.0	-134.1	678,379.03	1,374,168.86	31° 30' 59.026 N	102° 20' 30.452 W
3,777.0	2.70	223.90	3,770.5	-46.1	-136.9	678,375.92	1,374,166.07	31° 30' 58.994 N	102° 20' 30.483 W
3,871.0	2.70	227.80	3,864.4	-49.2	-140.1	678,372.83	1,374,162.90	31° 30' 58.963 N	102° 20' 30.519 W
3,965.0	2.80	230.40	3,958.3	-52.1	-143.5	678,369.88	1,374,159.49	31° 30' 58.934 N	102° 20' 30.558 W
4,059.0	2.90	236.90	4,052.1	-54.9	-147.3	678,367.12	1,374,155.73	31° 30' 58.905 N	102° 20' 30.601 W
4,153.0	3.30	240.50	4,146.0	-57.5	-151.6	678,364.49	1,374,151.38	31° 30' 58.879 N	102° 20' 30.650 W
4,247.0	3.30	244.60	4,239.8	-60.0	-156.4	678,362.00	1,374,146.58	31° 30' 58.853 N	102° 20' 30.705 W
4,341.0	3.50	246.70	4,333.7	-62.3	-161.5	678,359.70	1,374,141.50	31° 30' 58.830 N	102° 20' 30.763 W
4,435.0	3.60	250.10	4,427.5	-64.4	-166.9	678,357.56	1,374,136.09	31° 30' 58.807 N	102° 20' 30.826 W
4,528.0	4.00	250.20	4,520.3	-66.5	-172.7	678,355.47	1,374,130.30	31° 30' 58.786 N	102° 20' 30.892 W
4,623.0	4.30	255.60	4,615.1	-68.5	-179.3	678,353.46	1,374,123.73	31° 30' 58.765 N	102° 20' 30.967 W
4,717.0	4.50	256.20	4,708.8	-70.3	-186.3	678,351.71	1,374,116.73	31° 30' 58.746 N	102° 20' 31.048 W
4,810.0	4.70	260.50	4,801.5	-71.8	-193.6	678,350.21	1,374,109.43	31° 30' 58.730 N	102° 20' 31.132 W
4,904.0	4.90	261.20	4,895.1	-73.0	-201.3	678,348.96	1,374,101.67	31° 30' 58.716 N	102° 20' 31.221 W
4,999.0	4.80	260.80	4,989.8	-74.3	-209.3	678,347.70	1,374,093.73	31° 30' 58.702 N	102° 20' 31.313 W
5,093.0	5.10	259.10	5,083.5	-75.7	-217.3	678,346.28	1,374,085.75	31° 30' 58.687 N	102° 20' 31.405 W
5,187.0	5.50	258.10	5,177.1	-77.4	-225.8	678,344.56	1,374,077.24	31° 30' 58.668 N	102° 20' 31.503 W
5,281.0	5.60	259.60	5,270.6	-79.2	-234.7	678,342.81	1,374,068.32	31° 30' 58.649 N	102° 20' 31.605 W
5,375.0	6.00	259.90	5,364.1	-80.9	-244.0	678,341.12	1,374,058.97	31° 30' 58.631 N	102° 20' 31.713 W
5,470.0	6.20	261.70	5,458.6	-82.5	-254.0	678,339.50	1,374,049.01	31° 30' 58.613 N	102° 20' 31.828 W
5,564.0	6.20	263.60	5,552.0	-83.8	-264.1	678,338.21	1,374,038.94	31° 30' 58.598 N	102° 20' 31.944 W
5,658.0	6.40	259.10	5,645.5	-85.3	-274.2	678,336.65	1,374,028.75	31° 30' 58.581 N	102° 20' 32.061 W
5,752.0	6.60	256.80	5,738.9	-87.6	-284.7	678,334.43	1,374,018.35	31° 30' 58.557 N	102° 20' 32.181 W
5,846.0	6.90	257.70	5,832.2	-90.0	-295.4	678,331.99	1,374,007.57	31° 30' 58.531 N	102° 20' 32.305 W
5,941.0	7.10	262.70	5,926.5	-92.0	-306.8	678,330.03	1,373,996.17	31° 30' 58.510 N	102° 20' 32.436 W
6,035.0	7.10	266.00	6,019.8	-93.1	-318.4	678,328.88	1,373,984.61	31° 30' 58.497 N	102° 20' 32.569 W
6,128.0	7.00	268.30	6,112.1	-93.7	-329.8	678,328.32	1,373,973.22	31° 30' 58.489 N	102° 20' 32.701 W

Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
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Site:	Sec 14, Blk 30, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,222.0	7.60	267.70	6,205.3	-94.1	-341.7	678,327.90	1,373,961.28	31° 30' 58.483 N	102° 20' 32.839 W
6,316.0	7.50	269.80	6,298.5	-94.4	-354.1	678,327.62	1,373,948.93	31° 30' 58.478 N	102° 20' 32.981 W
6,410.0	7.80	272.60	6,391.7	-94.1	-366.6	678,327.89	1,373,936.43	31° 30' 58.478 N	102° 20' 33.126 W
6,421.9	7.88	272.72	6,403.5	-94.0	-368.2	678,327.97	1,373,934.81	31° 30' 58.479 N	102° 20' 33.144 W
450' North HL Crossed @ 6421.9' MD / 6403.5' TVD									
6,504.0	8.40	273.50	6,484.7	-93.4	-379.8	678,328.60	1,373,923.20	31° 30' 58.483 N	102° 20' 33.279 W
6,598.0	7.50	268.60	6,577.8	-93.1	-392.8	678,328.87	1,373,910.22	31° 30' 58.483 N	102° 20' 33.429 W
6,693.0	7.40	265.50	6,672.0	-93.8	-405.1	678,328.24	1,373,897.92	31° 30' 58.475 N	102° 20' 33.571 W
6,787.0	8.00	269.10	6,765.2	-94.3	-417.7	678,327.66	1,373,885.34	31° 30' 58.467 N	102° 20' 33.716 W
6,881.0	7.60	262.20	6,858.3	-95.3	-430.4	678,326.71	1,373,872.64	31° 30' 58.455 N	102° 20' 33.862 W
6,975.0	6.90	248.20	6,951.6	-98.2	-441.8	678,323.77	1,373,861.24	31° 30' 58.424 N	102° 20' 33.993 W
7,069.0	5.80	233.60	7,045.0	-103.1	-450.8	678,318.86	1,373,852.18	31° 30' 58.374 N	102° 20' 34.097 W
7,163.0	5.70	235.00	7,138.5	-108.6	-458.5	678,313.36	1,373,844.53	31° 30' 58.318 N	102° 20' 34.184 W
7,257.0	5.60	237.40	7,232.1	-113.8	-466.2	678,308.21	1,373,836.84	31° 30' 58.266 N	102° 20' 34.272 W
7,351.0	5.10	243.40	7,325.7	-118.1	-473.8	678,303.87	1,373,829.24	31° 30' 58.221 N	102° 20' 34.359 W
7,445.0	4.90	242.20	7,419.3	-121.9	-481.0	678,300.13	1,373,821.95	31° 30' 58.183 N	102° 20' 34.442 W
7,496.8	5.61	244.94	7,470.9	-124.0	-485.3	678,298.02	1,373,817.70	31° 30' 58.161 N	102° 20' 34.491 W
450' North HL Crossed @ 7496.8' MD / 7470.9' TVD									
7,539.0	6.20	246.70	7,512.9	-125.7	-489.3	678,296.25	1,373,813.74	31° 30' 58.143 N	102° 20' 34.536 W
7,633.0	6.80	249.60	7,606.3	-129.7	-499.1	678,292.30	1,373,803.86	31° 30' 58.102 N	102° 20' 34.649 W
7,727.0	6.40	251.10	7,699.6	-133.3	-509.3	678,288.66	1,373,793.69	31° 30' 58.064 N	102° 20' 34.766 W
7,821.0	5.80	250.90	7,793.1	-136.6	-518.8	678,285.41	1,373,784.25	31° 30' 58.031 N	102° 20' 34.875 W
7,915.0	5.70	253.20	7,886.6	-139.5	-527.7	678,282.51	1,373,775.29	31° 30' 58.000 N	102° 20' 34.977 W
8,009.0	5.50	257.00	7,980.2	-141.8	-536.6	678,280.15	1,373,766.43	31° 30' 57.975 N	102° 20' 35.079 W
8,103.0	5.30	260.00	8,073.8	-143.6	-545.2	678,278.38	1,373,757.77	31° 30' 57.956 N	102° 20' 35.179 W
8,197.0	4.80	264.20	8,167.4	-144.8	-553.4	678,277.23	1,373,749.58	31° 30' 57.943 N	102° 20' 35.273 W
8,292.0	4.70	264.70	8,262.1	-145.5	-561.3	678,276.47	1,373,741.75	31° 30' 57.934 N	102° 20' 35.364 W
8,386.0	4.60	268.60	8,355.8	-146.0	-568.9	678,276.02	1,373,734.14	31° 30' 57.929 N	102° 20' 35.451 W
8,413.9	4.63	269.90	8,383.6	-146.0	-571.1	678,275.99	1,373,731.90	31° 30' 57.928 N	102° 20' 35.477 W
450' North HL Crossed @ 8413.9' MD / 8383.6' TVD									
8,480.0	4.70	272.90	8,449.5	-145.9	-576.5	678,276.12	1,373,726.53	31° 30' 57.928 N	102° 20' 35.539 W
8,574.0	4.40	262.00	8,543.2	-146.2	-583.9	678,275.82	1,373,719.11	31° 30' 57.924 N	102° 20' 35.625 W
8,668.0	4.50	259.80	8,636.9	-147.3	-591.1	678,274.66	1,373,711.91	31° 30' 57.911 N	102° 20' 35.708 W
8,762.0	4.40	264.50	8,730.6	-148.3	-598.3	678,273.66	1,373,704.69	31° 30' 57.900 N	102° 20' 35.791 W
8,856.0	4.00	264.90	8,824.3	-149.0	-605.2	678,273.02	1,373,697.84	31° 30' 57.892 N	102° 20' 35.870 W
8,952.0	1.80	287.70	8,920.2	-148.8	-609.9	678,273.19	1,373,693.07	31° 30' 57.893 N	102° 20' 35.925 W
9,046.0	1.10	83.80	9,014.2	-148.3	-610.4	678,273.73	1,373,692.56	31° 30' 57.899 N	102° 20' 35.931 W
9,142.0	2.60	128.90	9,110.2	-149.5	-607.8	678,272.46	1,373,695.17	31° 30' 57.886 N	102° 20' 35.901 W
9,236.0	3.00	139.10	9,204.0	-152.7	-604.6	678,269.27	1,373,698.44	31° 30' 57.855 N	102° 20' 35.862 W
9,273.3	2.92	140.66	9,241.3	-154.2	-603.3	678,267.79	1,373,699.68	31° 30' 57.841 N	102° 20' 35.848 W
450' North HL Crossed @ 9273.3' MD / 9241.3' TVD									
9,330.0	2.80	143.20	9,297.9	-156.4	-601.6	678,265.57	1,373,701.42	31° 30' 57.819 N	102° 20' 35.827 W
9,392.0	2.70	140.90	9,359.8	-158.8	-599.7	678,263.22	1,373,703.25	31° 30' 57.796 N	102° 20' 35.806 W
9,542.0	7.30	166.30	9,509.3	-170.8	-595.3	678,251.21	1,373,707.74	31° 30' 57.678 N	102° 20' 35.751 W
9,637.0	21.90	164.20	9,600.9	-193.8	-589.0	678,228.18	1,373,714.03	31° 30' 57.452 N	102° 20' 35.674 W
9,730.0	35.60	172.90	9,682.3	-237.6	-580.9	678,184.40	1,373,722.14	31° 30' 57.020 N	102° 20' 35.571 W
9,824.0	44.50	172.20	9,754.2	-297.5	-573.0	678,124.49	1,373,730.01	31° 30' 56.428 N	102° 20' 35.468 W
9,919.0	53.50	169.80	9,816.5	-368.2	-561.7	678,053.78	1,373,741.31	31° 30' 55.731 N	102° 20' 35.322 W
10,013.0	56.80	166.20	9,870.2	-443.6	-545.6	677,978.36	1,373,757.39	31° 30' 54.987 N	102° 20' 35.121 W
10,107.0	57.30	166.20	9,921.3	-520.2	-526.8	677,901.76	1,373,776.21	31° 30' 54.233 N	102° 20' 34.887 W
10,194.7	63.92	162.17	9,964.3	-593.7	-505.9	677,828.33	1,373,797.10	31° 30' 53.510 N	102° 20' 34.631 W
LL Crossed @ 10194.7' MD / 9964.3' TVD									
10,201.0	64.40	161.90	9,967.1	-599.1	-504.2	677,822.93	1,373,798.85	31° 30' 53.457 N	102° 20' 34.609 W
10,295.0	67.20	163.40	10,005.6	-680.9	-478.6	677,741.10	1,373,824.40	31° 30' 52.651 N	102° 20' 34.297 W

Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
Project:	Crane County, Texas	TVD Reference:	WELL @ 2668.0usft (Patterson #588)
Site:	Sec 14, Blk 20, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,304.6	68.26	163.53	10,009.3	-689.4	-476.1	677,732.58	1,373,826.93	31° 30' 52.568 N	102° 20' 34.266 W	
100' Prod. Line Crossed @ 10304.6' MD / 10009.3' TVD										
10,382.0	76.80	164.50	10,032.5	-760.3	-455.8	677,661.67	1,373,847.23	31° 30' 51.869 N	102° 20' 34.017 W	
10,442.0	84.90	166.50	10,042.0	-817.6	-441.0	677,604.37	1,373,862.03	31° 30' 51.305 N	102° 20' 33.834 W	
10,537.0	85.40	166.60	10,050.0	-909.7	-418.9	677,512.31	1,373,884.05	31° 30' 50.398 N	102° 20' 33.560 W	
10,631.0	89.50	166.60	10,054.2	-1,001.0	-397.2	677,420.98	1,373,905.81	31° 30' 49.498 N	102° 20' 33.290 W	
10,725.0	88.00	166.80	10,056.3	-1,092.5	-375.6	677,329.52	1,373,927.43	31° 30' 48.597 N	102° 20' 33.021 W	
10,819.0	88.50	167.50	10,059.1	-1,184.1	-354.7	677,237.92	1,373,948.32	31° 30' 47.694 N	102° 20' 32.761 W	
10,914.0	85.70	164.10	10,063.9	-1,276.0	-331.4	677,145.96	1,373,971.59	31° 30' 46.788 N	102° 20' 32.473 W	
11,008.0	85.30	163.80	10,071.3	-1,366.1	-305.5	677,055.91	1,373,997.50	31° 30' 45.902 N	102° 20' 32.155 W	
11,103.0	85.10	164.00	10,079.3	-1,457.0	-279.3	676,964.95	1,374,023.75	31° 30' 45.006 N	102° 20' 31.833 W	
11,197.0	85.10	164.00	10,087.3	-1,547.1	-253.4	676,874.92	1,374,049.57	31° 30' 44.120 N	102° 20' 31.516 W	
11,291.0	85.50	163.80	10,095.0	-1,637.1	-227.5	676,784.91	1,374,075.55	31° 30' 43.234 N	102° 20' 31.197 W	
11,385.0	86.10	164.00	10,101.9	-1,727.2	-201.5	676,694.84	1,374,101.54	31° 30' 42.347 N	102° 20' 30.878 W	
11,479.0	89.30	165.70	10,105.7	-1,817.8	-176.9	676,604.20	1,374,126.08	31° 30' 41.455 N	102° 20' 30.575 W	
11,574.0	89.60	166.90	10,106.6	-1,910.1	-154.4	676,511.91	1,374,148.58	31° 30' 40.545 N	102° 20' 30.296 W	
11,667.0	87.90	168.30	10,108.6	-2,000.9	-134.5	676,421.10	1,374,168.55	31° 30' 39.650 N	102° 20' 30.047 W	
11,761.0	87.80	167.70	10,112.1	-2,092.8	-114.9	676,329.22	1,374,188.08	31° 30' 38.745 N	102° 20' 29.802 W	
11,856.0	90.90	165.90	10,113.2	-2,185.2	-93.2	676,236.75	1,374,209.77	31° 30' 37.834 N	102° 20' 29.532 W	
11,950.0	90.10	166.00	10,112.4	-2,276.4	-70.4	676,145.57	1,374,232.58	31° 30' 36.935 N	102° 20' 29.250 W	
12,045.0	89.80	166.50	10,112.5	-2,368.7	-47.8	676,053.29	1,374,255.16	31° 30' 36.026 N	102° 20' 28.970 W	
12,135.0	90.50	163.50	10,112.2	-2,455.6	-24.5	675,966.37	1,374,278.46	31° 30' 35.170 N	102° 20' 28.683 W	
12,232.0	91.20	169.90	10,110.8	-2,550.0	-2.2	675,872.03	1,374,300.76	31° 30' 34.241 N	102° 20' 28.405 W	
12,326.0	91.40	172.60	10,108.7	-2,642.8	12.1	675,779.16	1,374,315.05	31° 30' 33.324 N	102° 20' 28.221 W	
12,420.0	88.50	172.40	10,108.7	-2,736.0	24.3	675,685.97	1,374,327.32	31° 30' 32.404 N	102° 20' 28.060 W	
12,515.0	85.70	165.40	10,113.5	-2,829.1	42.6	675,592.94	1,374,345.57	31° 30' 31.487 N	102° 20' 27.830 W	
12,609.0	84.30	165.10	10,121.7	-2,919.6	66.4	675,502.38	1,374,369.41	31° 30' 30.595 N	102° 20' 27.535 W	
12,704.0	88.70	162.30	10,127.5	-3,010.6	93.0	675,411.40	1,374,396.02	31° 30' 29.699 N	102° 20' 27.209 W	
12,798.0	88.10	158.90	10,130.2	-3,099.2	124.2	675,322.79	1,374,427.22	31° 30' 28.828 N	102° 20' 26.830 W	
12,892.0	96.90	159.30	10,126.1	-3,186.9	157.7	675,235.14	1,374,460.69	31° 30' 27.967 N	102° 20' 26.425 W	
12,986.0	92.60	160.90	10,118.3	-3,274.9	189.6	675,147.08	1,374,492.56	31° 30' 27.101 N	102° 20' 26.039 W	
13,080.0	91.60	160.70	10,114.8	-3,363.6	220.5	675,058.37	1,374,523.46	31° 30' 26.229 N	102° 20' 25.663 W	
13,175.0	89.90	165.30	10,113.6	-3,454.4	248.2	674,967.56	1,374,551.22	31° 30' 25.335 N	102° 20' 25.324 W	
13,269.0	89.70	166.20	10,113.9	-3,545.5	271.4	674,876.45	1,374,574.36	31° 30' 24.437 N	102° 20' 25.038 W	
13,363.0	88.80	166.20	10,115.2	-3,636.8	293.8	674,785.17	1,374,596.78	31° 30' 23.538 N	102° 20' 24.760 W	
13,457.0	89.10	167.70	10,116.9	-3,728.4	315.0	674,693.62	1,374,618.00	31° 30' 22.636 N	102° 20' 24.496 W	
13,551.0	90.10	164.20	10,117.5	-3,819.5	337.8	674,602.45	1,374,640.82	31° 30' 21.738 N	102° 20' 24.213 W	
13,645.0	90.20	162.50	10,117.3	-3,909.6	364.7	674,512.39	1,374,667.75	31° 30' 20.851 N	102° 20' 23.883 W	
13,739.0	90.60	162.40	10,116.6	-3,999.2	393.1	674,422.77	1,374,696.09	31° 30' 19.970 N	102° 20' 23.537 W	
13,833.0	87.50	163.30	10,118.2	-4,089.0	420.8	674,332.98	1,374,723.80	31° 30' 19.086 N	102° 20' 23.198 W	
13,928.0	86.40	163.00	10,123.2	-4,179.8	448.3	674,242.19	1,374,751.30	31° 30' 18.192 N	102° 20' 22.862 W	
14,022.0	88.10	164.00	10,127.8	-4,269.8	475.0	674,152.16	1,374,777.97	31° 30' 17.306 N	102° 20' 22.535 W	
14,116.0	87.20	164.00	10,131.6	-4,360.1	500.9	674,061.88	1,374,803.85	31° 30' 16.418 N	102° 20' 22.217 W	
14,211.0	89.90	166.50	10,134.0	-4,451.9	525.0	673,970.06	1,374,828.03	31° 30' 15.513 N	102° 20' 21.919 W	
14,305.0	92.90	168.50	10,131.7	-4,543.7	545.4	673,878.33	1,374,848.36	31° 30' 14.609 N	102° 20' 21.665 W	
14,400.0	94.00	167.30	10,126.0	-4,636.4	565.2	673,785.61	1,374,868.24	31° 30' 13.695 N	102° 20' 21.416 W	
14,496.0	93.80	166.50	10,119.5	-4,729.7	586.9	673,692.33	1,374,889.95	31° 30' 12.776 N	102° 20' 21.146 W	
14,590.0	91.30	164.50	10,115.3	-4,820.6	610.5	673,601.42	1,374,913.46	31° 30' 11.881 N	102° 20' 20.856 W	
14,686.0	91.10	164.80	10,113.3	-4,913.1	635.9	673,508.87	1,374,938.87	31° 30' 10.969 N	102° 20' 20.543 W	
14,780.0	90.10	164.20	10,112.3	-5,003.7	661.0	673,418.29	1,374,963.98	31° 30' 10.077 N	102° 20' 20.234 W	
14,876.0	90.50	164.90	10,111.8	-5,096.2	686.6	673,325.76	1,374,989.56	31° 30' 9.166 N	102° 20' 19.919 W	
14,971.0	92.30	166.90	10,109.5	-5,188.3	709.7	673,233.66	1,375,012.69	31° 30' 8.259 N	102° 20' 19.633 W	
15,066.0	89.50	166.80	10,108.0	-5,280.8	731.3	673,141.17	1,375,034.30	31° 30' 7.348 N	102° 20' 19.364 W	
15,160.0	89.70	166.80	10,108.6	-5,372.3	752.8	673,049.66	1,375,055.77	31° 30' 6.446 N	102° 20' 19.097 W	
15,254.0	87.60	165.40	10,110.8	-5,463.5	775.3	672,958.45	1,375,078.34	31° 30' 5.547 N	102° 20' 18.817 W	

Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
Project:	Crane County, Texas	TVD Reference:	WELL @ 2668.0usft (Patterson #588)
Site:	Sec 14, Blk 30, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,349.0	87.30	164.90	10,115.1	-5,555.3	799.7	672,866.71	1,375,102.66	31° 30' 4.644 N	102° 20' 18.517 W
15,443.0	90.20	164.20	10,117.1	-5,645.9	824.7	672,776.14	1,375,127.69	31° 30' 3.752 N	102° 20' 18.210 W
15,538.0	91.40	164.60	10,115.8	-5,737.3	850.2	672,684.65	1,375,153.24	31° 30' 2.851 N	102° 20' 17.895 W
15,632.0	90.70	162.50	10,114.1	-5,827.5	876.9	672,594.52	1,375,179.85	31° 30' 1.964 N	102° 20' 17.569 W
15,726.0	91.10	166.40	10,112.6	-5,918.0	902.0	672,503.99	1,375,205.04	31° 30' 1.073 N	102° 20' 17.260 W
15,821.0	90.60	166.40	10,111.2	-6,010.3	924.4	672,411.66	1,375,227.38	31° 30' 0.163 N	102° 20' 16.982 W
15,915.0	90.60	167.30	10,110.2	-6,101.9	945.8	672,320.13	1,375,248.76	31° 29' 59.261 N	102° 20' 16.716 W
16,009.0	91.20	167.70	10,108.7	-6,193.6	966.1	672,228.37	1,375,269.11	31° 29' 58.357 N	102° 20' 16.462 W
16,104.0	89.50	164.70	10,108.1	-6,285.9	988.8	672,136.13	1,375,291.76	31° 29' 57.448 N	102° 20' 16.181 W
16,198.0	92.50	168.30	10,106.5	-6,377.2	1,010.7	672,044.77	1,375,313.70	31° 29' 56.548 N	102° 20' 15.909 W
16,293.0	93.10	168.60	10,101.9	-6,470.2	1,029.7	671,951.80	1,375,332.70	31° 29' 55.631 N	102° 20' 15.670 W
16,387.0	90.60	165.60	10,098.8	-6,561.8	1,050.7	671,860.24	1,375,353.67	31° 29' 54.729 N	102° 20' 15.409 W
16,481.0	90.20	165.20	10,098.2	-6,652.7	1,074.4	671,769.28	1,375,377.36	31° 29' 53.833 N	102° 20' 15.117 W
16,577.0	90.00	164.70	10,098.0	-6,745.4	1,099.3	671,676.57	1,375,402.29	31° 29' 52.920 N	102° 20' 14.809 W
16,672.0	90.10	164.30	10,097.9	-6,837.0	1,124.7	671,585.03	1,375,427.68	31° 29' 52.018 N	102° 20' 14.497 W
16,766.0	89.80	162.80	10,098.0	-6,927.1	1,151.3	671,494.88	1,375,454.30	31° 29' 51.131 N	102° 20' 14.171 W
16,860.0	89.10	160.70	10,098.9	-7,016.4	1,180.7	671,405.62	1,375,483.73	31° 29' 50.253 N	102° 20' 13.813 W
16,954.0	89.90	163.50	10,099.7	-7,105.8	1,209.6	671,316.18	1,375,512.62	31° 29' 49.373 N	102° 20' 13.460 W
17,049.0	90.90	165.40	10,099.1	-7,197.3	1,235.1	671,224.66	1,375,538.08	31° 29' 48.472 N	102° 20' 13.147 W
17,145.0	89.50	161.90	10,098.7	-7,289.4	1,262.1	671,132.56	1,375,565.10	31° 29' 47.565 N	102° 20' 12.816 W
17,241.0	90.50	165.50	10,098.7	-7,381.6	1,289.0	671,040.45	1,375,592.04	31° 29' 46.659 N	102° 20' 12.486 W
17,335.0	91.30	165.80	10,097.3	-7,472.6	1,312.3	670,949.39	1,375,615.34	31° 29' 45.762 N	102° 20' 12.198 W
17,430.0	91.00	164.90	10,095.3	-7,564.5	1,336.4	670,857.50	1,375,639.36	31° 29' 44.857 N	102° 20' 11.901 W
17,524.0	90.40	166.20	10,094.2	-7,655.5	1,359.8	670,766.48	1,375,662.81	31° 29' 43.960 N	102° 20' 11.611 W
17,619.0	90.20	165.70	10,093.7	-7,747.7	1,382.9	670,674.33	1,375,685.87	31° 29' 43.052 N	102° 20' 11.326 W
17,713.0	91.00	166.50	10,092.7	-7,838.9	1,405.5	670,583.09	1,375,708.45	31° 29' 42.153 N	102° 20' 11.046 W
17,808.0	89.80	163.50	10,092.1	-7,930.7	1,430.0	670,491.34	1,375,733.04	31° 29' 41.250 N	102° 20' 10.743 W
17,902.0	90.60	166.90	10,091.7	-8,021.5	1,454.0	670,400.47	1,375,757.05	31° 29' 40.355 N	102° 20' 10.447 W
17,996.0	91.10	168.70	10,090.3	-8,113.4	1,473.9	670,308.61	1,375,776.91	31° 29' 39.449 N	102° 20' 10.199 W
18,091.0	91.60	170.30	10,088.1	-8,206.8	1,491.2	670,215.23	1,375,794.21	31° 29' 38.528 N	102° 20' 9.979 W
18,185.0	90.80	167.40	10,086.1	-8,299.0	1,509.4	670,123.03	1,375,812.39	31° 29' 37.619 N	102° 20' 9.750 W
18,279.0	91.50	167.10	10,084.2	-8,390.6	1,530.1	670,031.37	1,375,833.13	31° 29' 36.716 N	102° 20' 9.492 W
18,373.0	92.00	167.60	10,081.4	-8,482.3	1,550.7	669,939.70	1,375,853.70	31° 29' 35.812 N	102° 20' 9.235 W
18,468.0	91.60	166.30	10,078.4	-8,574.8	1,572.1	669,847.20	1,375,875.14	31° 29' 34.901 N	102° 20' 8.968 W
18,562.0	92.70	167.50	10,074.9	-8,666.3	1,593.4	669,755.71	1,375,896.43	31° 29' 33.999 N	102° 20' 8.703 W
18,657.0	90.60	167.20	10,072.1	-8,758.9	1,614.2	669,663.06	1,375,917.23	31° 29' 33.086 N	102° 20' 8.444 W
18,751.0	91.00	168.00	10,070.8	-8,850.7	1,634.4	669,571.26	1,375,937.41	31° 29' 32.181 N	102° 20' 8.192 W
18,845.0	88.90	165.00	10,070.9	-8,942.1	1,656.4	669,479.88	1,375,959.35	31° 29' 31.281 N	102° 20' 7.919 W
18,939.0	88.20	165.40	10,073.3	-9,033.0	1,680.4	669,389.02	1,375,983.36	31° 29' 30.386 N	102° 20' 7.623 W
19,034.0	88.30	164.80	10,076.2	-9,124.7	1,704.8	669,297.26	1,376,007.77	31° 29' 29.482 N	102° 20' 7.322 W
19,128.0	91.30	163.80	10,076.5	-9,215.2	1,730.2	669,206.78	1,376,033.21	31° 29' 28.591 N	102° 20' 7.010 W
19,223.0	95.80	165.70	10,070.6	-9,306.7	1,755.1	669,115.33	1,376,058.14	31° 29' 27.691 N	102° 20' 6.703 W
19,318.0	95.20	164.40	10,061.5	-9,398.0	1,779.5	669,023.97	1,376,082.54	31° 29' 26.791 N	102° 20' 6.402 W
19,413.0	97.30	163.90	10,051.2	-9,488.9	1,805.3	668,933.13	1,376,108.33	31° 29' 25.897 N	102° 20' 6.085 W
19,507.0	97.40	163.00	10,039.1	-9,578.2	1,831.9	668,843.77	1,376,134.88	31° 29' 25.017 N	102° 20' 5.760 W
19,601.0	97.20	162.20	10,027.2	-9,667.2	1,859.8	668,754.80	1,376,162.76	31° 29' 24.142 N	102° 20' 5.420 W
19,695.0	98.30	162.00	10,014.5	-9,755.8	1,888.4	668,666.17	1,376,191.39	31° 29' 23.270 N	102° 20' 5.071 W
19,789.0	97.00	164.60	10,002.0	-9,845.1	1,915.2	668,576.94	1,376,218.16	31° 29' 22.392 N	102° 20' 4.743 W
19,883.0	94.90	163.70	9,992.3	-9,935.0	1,940.7	668,487.01	1,376,243.69	31° 29' 21.506 N	102° 20' 4.430 W
19,977.0	91.50	164.20	9,987.0	-10,025.2	1,966.6	668,396.83	1,376,269.63	31° 29' 20.618 N	102° 20' 4.111 W
20,071.0	92.10	163.80	9,984.1	-10,115.5	1,992.5	668,306.51	1,376,295.53	31° 29' 19.729 N	102° 20' 3.794 W
20,166.0	92.80	165.20	9,980.0	-10,207.0	2,017.9	668,215.05	1,376,320.89	31° 29' 18.829 N	102° 20' 3.482 W
20,260.0	91.60	164.70	9,976.4	-10,297.7	2,042.3	668,124.35	1,376,345.28	31° 29' 17.935 N	102° 20' 3.181 W
20,355.0	90.90	166.20	9,974.3	-10,389.6	2,066.1	668,032.42	1,376,369.14	31° 29' 17.030 N	102° 20' 2.887 W
20,450.0	91.50	165.80	9,972.3	-10,481.7	2,089.1	667,940.26	1,376,392.12	31° 29' 16.122 N	102° 20' 2.602 W

Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well UL Lonetree 22303 B 23-26 #6H
Project:	Crane County, Texas	TVD Reference:	WELL @ 2668.0usft (Patterson #588)
Site:	Sec 14, Blk 30, University Land Survey	MD Reference:	WELL @ 2668.0usft (Patterson #588)
Well:	UL Lonetree 22303 B 23-26 #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	KLXDirectional-AD

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,544.0	93.10	165.50	9,968.6	-10,572.7	2,112.4	667,849.27	1,376,415.40	31° 29' 15.226 N	102° 20' 2.314 W
20,638.0	92.00	162.80	9,964.4	-10,663.1	2,138.0	667,758.94	1,376,441.05	31° 29' 14.336 N	102° 20' 1.999 W
20,695.2	93.28	165.17	9,961.7	-10,718.0	2,153.8	667,704.03	1,376,456.81	31° 29' 13.796 N	102° 20' 1.806 W
100' Prod. Line Crossed @ 20695.2' MD / 9961.7' TVD									
20,696.0	93.30	165.20	9,961.7	-10,718.7	2,154.0	667,703.26	1,376,457.01	31° 29' 13.788 N	102° 20' 1.804 W
20,755.0	93.30	165.20	9,958.3	-10,775.7	2,169.1	667,646.31	1,376,472.06	31° 29' 13.227 N	102° 20' 1.618 W
TD @ 20755.0' MD / 9958.3' TVD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
190.0	190.0	-0.1	-0.5	First MWD Survey @ 190.0' MD / 190.0' TVD
6,421.9	6,403.5	-94.0	-368.2	450' North HL Crossed @ 6421.9' MD / 6403.5' TVD
7,496.8	7,470.9	-124.0	-485.3	450' North HL Crossed @ 7496.8' MD / 7470.9' TVD
8,413.9	8,383.6	-146.0	-571.1	450' North HL Crossed @ 8413.9' MD / 8383.6' TVD
9,273.3	9,241.3	-154.2	-603.3	450' North HL Crossed @ 9273.3' MD / 9241.3' TVD
10,194.7	9,964.3	-593.7	-505.9	LL Crossed @ 10194.7' MD / 9964.3' TVD
10,304.6	10,009.3	-689.4	-476.1	100' Prod. Line Crossed @ 10304.6' MD / 10009.3' TVD
20,695.2	9,961.7	-10,718.0	2,153.8	100' Prod. Line Crossed @ 20695.2' MD / 9961.7' TVD
20,755.0	9,958.3	-10,775.7	2,169.1	TD @ 20755.0' MD / 9958.3' TVD